# KICHLER.

## LANDSCAPE LIGHTING

# Designed to enhance your reputation

For more than 25 years we've made it our commitment to continually offer one of the most comprehensive professional landscape lighting lines in the industry: one that's built for design flexibility, superior efficiency and rock-solid performance. You can install a system that's exactly what you and your clients want from day one – for a landscape lighting effect that's beautiful, capturing and functional for years to come.





# 12V Lighting



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LIFESTYLE

# 12VINTEGRATED LED Kichler Technology

# When we first entered the landscape lighting category more than 25 years ago, we had a simple goal: make things better.

Today, that history of innovation still drives everything we do. It's why Kichler<sup>®</sup> offers one of the largest landscape lighting portfolios on the market. This commitment to innovation means you never have to compromise on performance, design, quality or dependability. You can always trust you're getting the latest and best LED technologies available and backed by one of the finest warranties in the industry.

We invite you to explore all of the products we have to offer, including our high-performance integrated LED fixtures and our newest and most advanced technology: Variable Lumen Output (VLO). We think you'll agree, our integrated LED options assure you get the best in custom optics and light output, for the utmost in design versatility and flexibility.

	12V I	_ED Accent Light Soluti	ons
	12V Integrated LED Accent with VLO	12V Integrated LED Accent	12V LED Lamp and Fixture
Design	Integrated LED fully potted and sealed for protection of electrical components to ensure optimal all-weather performance	Integrated LED fully potted and sealed for protection of electrical components to ensure optimal all-weather performance	Unsealed separate fixture with accessible/upgradeable lamp options
LED Style	Single high output chip-on-board or discrete LEDs provide single focal point	Multiple discrete LEDs	Multiple discrete LEDs
Beam Quality & Uniformity	Optimal center-to-edge uniformity	Optimal center-to-edge uniformity	Standard center-to-edge uniformity
Light Output	Custom optics that provide 100% light output and no cut-off	100% light output and no cut-off	Cowls and lenses may alter beam spread and decrease lumen output
Stated Lifetime (L70)	50K hours (based on 5 hours of use a day)	40K hours (based on 5 hours of use a day)	30K hours (based on 5 hours of use a day)
Adjustable Lumen Output	Yes	No	No
Surge Protection	6kV protection	4kV protection	None
Warranty	15 years	10 years	6 years

Visit www.Kichler.com/Warranty for full warranty and limitations.

# Lighting Design Tips

## The color of your light sets the tone.

Did you know that not all white light is created equal? Many of our integrated LED fixtures and LED retrofit lamps come in a variety of color temperatures – from warm white to pure white to cool white – that can enhance the colors in your home's exterior and landscape. Known as Kelvin (K) temperature, consider these suggestions for placement:



#### WARM WHITE - 2700K

- Surroundings with warmer colors, like brown and cedar
- Natural colored walls or stonework
- Foliage that is red, orange or yellow (ex: highlighting oak trees)
- Surroundings with dark materials, like deep slate, black or grey
  Foliage that is blue or pur
- Foliage that is blue or purple (ex: highlighting blue spruce trees)

## Beam spreads...focus light where it's needed.

Kichler<sup>®</sup> integrated LED fixtures are available in a variety of beam spreads that allow your lighting professional to tailor the light to your specific application – creating the perfect end effect you desire.





Tall, thin beam of light ideal for grazing trees and column features. Medium height and width beam of light suited for general accent lighting.

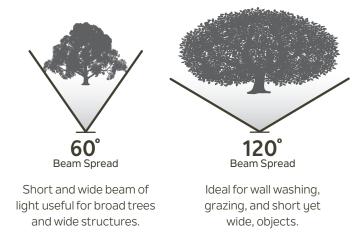


PURE WHITE - 3000K



BRIGHT WHITE - 4000K-4200K

- Ultra contemporary homes
   and structures
- Commercial applications
- 120V-277V only



# Our commitment to quality goes beyond product.

With professional landscape lighting projects, there's no room for do-overs. That's why we don't just think of ways to make our products better; we look for ways to make your entire Kichler<sup>®</sup> experience superior.

- Our exclusive Advanced Product Solutions (APS) and Layout Team is a free service that can answer your installation questions or assist with property designs and layouts.
- Every product we offer is competitively priced and backed by our domestic network of sales and service.
- Our inventory levels allow us to fill orders within 24 hours: when your installation crews need the product most.



Our Advanced Product Solutions and Layout Team employees average 14+ years with Kichler, giving them a level of pride and professionalism that you can count on at every turn. Our entire team is also Certified Low Voltage Lighting Technician (CLVLT) certified.

Landscape lighting products used in the image above:

Front yard: LED Accent with VLO 16016AZT27, LED In-Ground Light 16032BBR27, LED Path Shallow Shade 15806BKT27





In-Ground Lighting with LED

## LAYOUT DESIGN SERVICES

Get to solutions faster & increase sales.

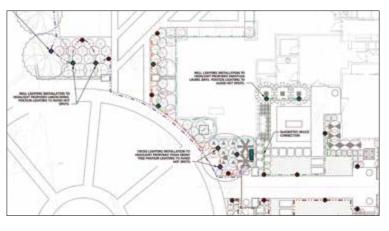
From answering questions to creating detailed layouts to delivering a full bill of materials - Kichler's Advanced Product Support Team is your link to getting the job done. This FREE service takes the guesswork out of any lighting need you have: determining the scope of materials required, installing a product correctly, even creating a full wiring and product layout.

#### Contact us at layouts@kichler.com and we'll get you started:



(for all requests received by 3:00 pm EST).

Once you confirm the BOM and pricing, we'll return a completed layout design within 48 hours or less.



## ADVANCED PRODUCT SUPPORT

No question is too complex.

Installation issue? Building code question? Regulatory stumper? If you've got a challenging question - we've got you covered. Our Advanced Product Support Team receives additional classroom and in-field training on all Kichler products, so you can get your question answered quickly. To take advantage of this free service, call our dedicated Advanced Product Support line at 844-KICHLER (844-542-4537) or email techsupport@kichler.com.



- Email us a completed Design Request Form (available at Kichler.com/APS)
- 2 We'll create a bill of materials (BOM) and email it back to you that same day

Landscape | Lighting Systems

Get the most out of a project with these professional landscape lighting techniques.

#### Wall-Wash Lighting

Directs the eye to the textures, shapes and/ or height differences of items in beds, adding depth and ambiance.

Recommended fixtures: 12V LED Accent with VLO 16017 & 16020. Also 120V-277V C-Series 16210-16211, 16213-16214, 16218-16225.



### Accent Uplighting

Shines light upward to illuminate an object or surface for dramatic, attention-getting visuals.

Recommended fixtures: 12V LED Accent with VLO 16015-16020. Also 120V-277V C-Series 16209-16220.



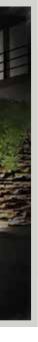
#### **Cross Lighting**

Using two beams of light, it creates 360-degree visual interest on large trees, statues or other tall features.

Recommended fixtures: 12V LED Accent with VLO 16015-16016, 16018-16019. Also 120V-277V C-Series 16209-16210, 16212-16213, 16215-16216, 16218-16219.







## Grazing

Adds depth and dimension to stucco, brick, stonework or architectural features of a home or building.

Recommended fixtures: 12V LED Accent with VLO 16017 & 16020. Also 120V-277V C-Series 16210-16211, 16213-16214, 16218-16225.

#### Shadowing

A technique that projects the look of a tree or yard art onto a surface behind the object.

Recommended fixtures: 12V LED Accent with VLO 16015-16020. Also 120V-277V C-Series 16209-16220.



#### Mirror Lighting

Create dream-like water scenes by strategically lighting background areas around bodies of water that reflect the landscape off of the water.

Recommended fixtures: 12V LED Accent with VLO 16015-16020. Also 120V-277V C-Series 16209-16220.



#### Silhouette Lighting

Draw attention to an interesting shape by lighting a vertical surface behind the object to accent that unique shape.

Recommended fixtures: 12V LED Accent with VLO 16015-16020. Also 120V-277V C-Series 16209-16220.





## Moon Lighting

Placing a lower lumen fixture high in a tree catches the details of branches and leaves, emulating the look of moonlight.

Recommended fixtures: 12V LED Accent with VLO 16016-16017, 16019-16020. Also 120V-277V C-Series 16210-16211, 16213-16214, 16218-16225.

## In-Ground Lighting

Deliver light to permanent and semi-permanent installations such as sidewalks, large mature trees, walls and flagpoles.

Recommended fixtures: 12V LED In-Ground 16030-16038.





#### Underwater & Water Accent Lighting

Enhance and highlight flowing water in waterfalls, streams and fountains. Create a magical mirroring effect on still waters.

Recommended fixture: 12V LED Water Accent 15711SS.

### Flagpole Lighting

Two to three directional accent lights are often needed to properly illuminate the pole and the entire flag. Use the pole height and flag size to determine the right fixtures.

- The fixtures should be placed 180° apart if using two and 120° apart if using three.
- The fixtures should be located 6" to 3' from the flagpole in low-voltage (12V) residential applications.
   For large residential, commercial and line voltage applications (120V), fixtures should be from 12" to 3' from the base of the pole.
- Aim the fixture at the ball at the top of the flagpole.





Pole Height	Typical Flag Size	# of Fixtures	Lamp Wattage	Beam Spread	12V LED Option	120V LED Option
12' - 20'	3' x 5'	2	20W	NSP 10° to 15°	16015 (Level 2)	
25'	4' x 6'	2	35W	NSP 10° to 15°	16015 (Level 3)	16209
30'	5' x 8'	2	35W	NSP 10° to 15°	16018 (Level 1)	16209
35'	6' x 10'	3	35W	NSP 10° to 15°	16018 (Level 1)	16209
35' +	10' +	3	50W	NSP 10° to 15°	16018 (Level 2 or 3)	16212

## Xeriscape Lighting

Cacti, grasses and the stone used in xeriscape designs can benefit from a lower lumen illumination than traditional landscaping.

Recommended fixtures: 2700K fixtures, 12V LED Path 15811, 12V LED Accent with VLO 16015-16017.

Path & Spread Lighting

16120, Llena 15820 or Dome 15810.

Illuminate sidewalks, stone pathways and lawn walkways while adding a hint of intrigue to boulders and plant beds.

Recommended fixtures: 12V LED Path Fundamentals

## Deck & Patio Lighting

Accentuate all of the beauty and details of decks, patios, outdoor kitchens, steps, handrails and more.

Recommended fixtures: 12V LED Half Moon 15764 (top) and 12V LED Brick Light 15773 (bottom).



#### Hardscape Lighting

Highlight stone features, retaining walls, outdoor kitchens, steps, handrails, benches and more.

Recommended fixture: 12V 3 LED Fixture 15745.







Make outdoor living as comfortable, and flattering, as indoor living

Livable square footage doesn't have to stop inside a home's walls. A yard, patio and deck can provide ample space for entertaining and lounging; all it takes is the right Kichler<sup>®</sup> lighting pieces to add style, comfort and convenience.

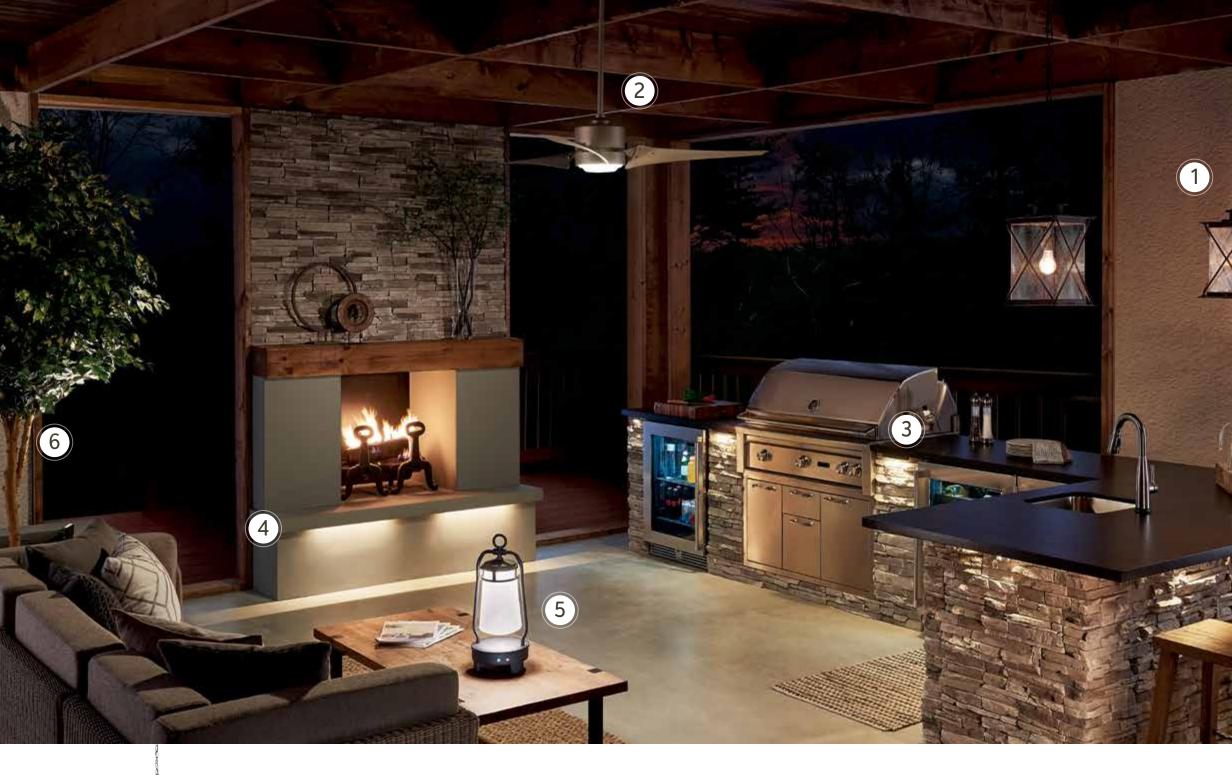






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Kichler.com/Landscape





Arrange pendant fixtures in clusters - for a stylish statement and ambient light.

> Argyle Outdoor Pendant (49747 WZC)



Outdoor ceiling fans bring light and added temperature control to sitting areas.

> Rana<sup>™</sup> LED Ceiling Fan 60" (310155 NI)



The right hardscape lighting helps guide guests at night. Choose small ...

LED Hardscape Lighting 3 LED (15745 BBR27)



... or large fixtures to match the space.

LED Hardscape Lighting 9 LED (15756 GRY27)

# Bring it all together.

Bring life to outdoor spaces after dark with the right combination of lighting pieces.

Get the look shown here by incorporating integrated LED landscape lighting fixtures along with Kichler<sup>®</sup> decorative options designed for outdoor use. Homeowners get a beautiful and functional space they can use 24/7; you get a project that shows your design sensibility.



A built-in Bluetooth® speaker allows homeowners to wirelessly add music to gatherings.

Lyndon<sup>™</sup> LED Portable Lantern (49500 BKTLED)



Select Kichler integrated fixtures allow you to adjust the light output easily, for long-term flexibility.

> LED Accent Light with VLO (16016 AZT27)

# 12V Lighting

Kichler<sup>®</sup> low-voltage lighting solutions are designed to work together for a complete professional landscape lighting system. Our integrated LED systems feature options for a variety of lighting techniques, surfaces and needs – including in-ground, accent, hardscape and more – to create a total lighting solution for residential spaces.



RALAL

# 12V Accent

R)

## Integrated LED

Accent trees, create silhouettes and illuminate dramatic features with our most versatile fixtures. Our newest options feature Variable Lumen Output (VLO) technology – allowing you to get three lumen choices, from one fixture, for incredible flexibility in the field.



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# 12V INTEGRATED LED Accent Lights with VLO

Kichler® is once again rewriting the rules for integrated LED flexibility and reliability with the new 12V LED Accent Light with Variable Lumen Output (VLO). VLO technology allows you to easily switch between three lumen outputs without mechanically adjusting the settings on the fixture - eliminating the increased failure risk or long-term reliability concerns associated with a mechanical adjustment.



#### VLO makes it easier than ever to design, install and service landscape lighting.

- · Create more customized landscape designs while carrying less fixtures in your inventory
- Quickly adjust the lighting design during the initial installation for the right amount of light output or years down the road as the landscape application needs changed.
- Two discrete sized fixture platforms give all the lumen options you need without the bulk.

## Incredibly easy to adjust.

Each fixture is conveniently factory-set at the most popular lumen level for maximum efficiency. To change, simply hold the included magnet over the lumen adjustment locator to begin the programming mode. The fixture will flash continuously four times and go dark before blinking to indicate which lumen level is currently programmed. Programming begins from the factory setting and adjusts up in lumens (Level 1 for Large Accent, Level 2 for Small Accent).



## (VLO) Variable Lumen Output



Level 1

Level 2



Note: Beam width/cut-off is dependent on how close the fixture is to the object Lumen levels are the same for 2700K and 3000K

	Small Accent	Large Accent
Lumen adjustment switch locator	100 lm	*400 lm
	*200 lm	600 lm
	300 lm	835 lm
		*Eactory cotting

\*Factory setting

4000	

12V LED Small Accent				
Level 1	<b>100 Lumens</b> (shown: 16016 Small Accent, 35° Flood, 2W, 3000K)			
Level 2*	<b>200 Lumens</b> (shown: 16016 Small Accent, 35° Flood, 3.5W, 3000K) * <i>Factory setting</i>			
Level 3	<b>300 Lumens</b> (shown: 16016 Small Accent, 35° Flood, 5.5W, 3000K)			

Level 3

12V LED Large Accent				
	400 Lumens			
Level 1*	(shown: 16019 Large			

Level 2

Level 3

(shown: 16019 Large Accent, 35° Flood, 6W, 3000K) \*Factory setting

600 Lumens (shown: 16019 Large Accent, 35° Flood, 11W, 3000K)

835 Lumens (shown: 16019 Large Accent, 35° Flood, 16W, 3000K)

## Accent with VLO

Integrated LED Small/Large



	Small Accent with Variable Lumen Output				
Finishes	AZT (shown), BKT, C	Additional Finishes			
Color Temperature	2700K - Warm White	3000K - Pure White			
	<b>15° Spot</b> <b>16015</b> AZT27, <b>16015</b> BKT27, <b>16015</b> CBR27	15° Spot 16015 AZT30, 16015 BKT30, 16015 CBR30	вкт		
Item Number by Beam Spread and Finish	<b>35° Flood</b> <b>16016</b> AZT27, <b>16016</b> BKT27, <b>16016</b> CBR27, <b>16016</b> WHT27	<b>35° Flood</b> <b>16016</b> AZT30, <b>16016</b> BKT30, <b>16016</b> CBR30, <b>16016</b> WHT30			
	60° Wide Flood 16017 AZT27, 16017 BKT27, 16017 CBR27	60° Wide Flood 16017 AZT30, 16017 BKT30, 16017 CBR30	CBR		
Housing	Cast Aluminum or Cast Brass (CBR)				
Wattage/VA, Delivered Lumens & Efficacy	Level 1 = 2W/3.5VA, 100 lm, 50 lm/W Level 2 = 3.5W/5.5VA, 200 lm, 57 lm/W Level 3 = 5.5W/7.5VA, 300 lm, 55 lm/W	Factory set at Level 2 (200 lm/20W Equivalent) Lumen levels are the same for 2700K and 3000K			
CRI	80+	80+	(35° only)		
Voltage Range	9V-15V AC/DC with no loss in light outpu	ut. 6kV (6000 volt protection) built on boar	d of driver.		
Light Source	1 integrated high-output LED with 3-step binning for color consistency. Custom reflector optics. Tested to a Lumen Maintenance L70 of 50,000 hrs.				
Wiring	48" of usable #18-2, SPT-1W leads				
Notes		en (Level 1), 20W Halogen (Level 2) and 30- el-filled wire nuts and lumen switching mag available in 35° Flood.			
Accessories	<b>Cowls &amp; Lenses:</b> Long Cowl, 360 Degree Cowl, Hexcell Louver, Lenses: Red, Amber, Green Foliage, Holiday Green and Frosted	<b>Mounting:</b> Surface Mounting Flange, 3" (CBR), Surface Mounting Bracket, Junc 90° Elbows, Stem Coupler, Stems, Two F <i>Accessories start on page 172.</i>	tion Box Mounting Bracket,		
Dimensions	5.8"	2"			

4.4"

	Large
Finishes	<b>BKT</b> (shown),
Color Temperature	2700K - Warm White
	15° Spot 16018 AZT27, 16018 BKT27, 16018 CBR27
ltem Number by Beam Spread and Finish	35° Flood 16019 AZT27, 16019 BKT27, 16019 CBR27, 16019 WHT27
	60° Wide Flood 16020 AZT27, 16020 BKT27, 16020 CBR27
Housing	Cast Aluminum or Cast Brass (C
Wattage/VA, Delivered Lumens & Efficacy	Level 1 = 5.25W/8.5VA, 400 lm, 76 Level 2 = 8.5W/12.5VA, 600 lm, 76 Level 3 = 12W/17VA, 835 lm, 69 lm
CRI	80+
Voltage Range	9V-15V AC/DC with no loss in ligh
Light Source	1 integrated high-output chip-or Internal Reflection) lens optics. T
Wiring	48" of usable #18-2, SPT-1W lead
Notes	Replaces the equivalent of a 35-4 Includes 8" slotted in-ground sta Brass will naturally patina over ti
Accessories	<b>Cowls &amp; Lenses:</b> Long Cowl, 360 Cowl, Hexcell Louver, Lenses: Red Amber, Green Foliage, Holiday Gr and Frosted
Dimensions	7.3"

#### 12V Integrated LED Accent



#### Accent with Variable Lumen Output

#### Additional Finishes AZT, CBR, WHT (16019 only) 3000K - Pure White 15° Spot 16018 AZT30, 16018 BKT30, 16018 CBR30 35° Flood 16019 AZT30, 16019 BKT30, 16019 CBR30, 16019 WHT30 60° Wide Flood 16020 AZT30, 16020 BKT30, 16020 CBR30 CBR) 76 lm/W Factory set at Level 1 (400 lm/35W Equivalent) 70 lm/W lm/W Lumen levels are the same for 2700K and 3000K WHT 37 (35° only) 80+

ght output. 6kV (6000 volt protection) built on board of driver

on-board LED with 3-step binning for color consistency. Custom T.I.R. (Total . Tested to a Lumen Maintenance L70 of 50,000 hrs.

#### ads

i-40W Halogen (Level 1), 50W Halogen (Level 2) and 75W Halogen (Level 3).
 itake, 2 gel-filled wire nuts and lumen switching magnetic key.
 time. White is only available in 35° Flood.
 O Degree ed, Green Mounting: Surface Mounting Flange, 3" Round Mounting Base (CBR), Surface Mounting Bracket, Junction Box Mounting Bracket, 90° Elbows, Stem Coupler, Stems, Two Fixture Mount (CBR) Accessories start on page 172.



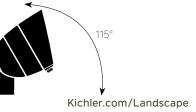
## Accent Integrated LED

		·		<b>ent</b> - 2.5W	
Finishes					
Finisnes		<b>CBR</b> (shown), AZT, BKT			Additional Finishes
Color Temperature	2700K - Warm White 300		3000K - Pu	re White	
	10° Spot 16150 AZT27, 16150 BKT27, 16150 CBR27		10° Spot 16150 AZT3 16150 CBR3	80, <b>16150</b> BKT30, 30	
Item Number by Beam Spread and Finish	<b>35° Flood</b> <b>16151</b> AZT27, <b>16151</b> <b>16151</b> CBR27	BKT27,	35° Flood 16151 AZT3 16151 CBR3	0, <b>16151</b> BKT30, 0	AZT
	60° Wide Flood 16152 AZT27, 16152 BKT27, 16152 CBR27		60° Wide Flood 16152 AZT30, 16152 BKT30, 16152 CBR30		
Housing	Cast Aluminum or	Cast Brass (CBR)			ВКТ
Wattage/VA, Delivered Lumens & Efficacy	2.5W, 3.5VA	200 lm, 80 lm/W	Lumen leve	els are the same for 2700K an	d 3000K
CRI	80+	80+			
Voltage Range	9V-15V AC/DC wit	9V-15V AC/DC with no loss in light output. 4kV (4000 volt protection).			
Light Source		3 integrated high-output LEDs with 3-step binning for color consistency. Custom T.I.R. (Total Internal Reflection) acrylic Lens. Tested to a Lumen Maintenance L70 of 40,000 hrs.			
Wiring	48" of usable #18-	48" of usable #18-2, SPT-1W leads			
Notes	Replaces the equiv Brass will naturally	•	en. Includes 8'	' slotted in-ground stake and	2 gel-filled wire nuts.
Accessories	15601 Surface Mounting Flange         Cowls & Len           15607 Surface Mounting Bracket         16074 Long C           15609 Junction Box Mounting Bracket         15875 AMB A           15647, 15514 90° Elbow         15875 HGRN           15649 Stem Coupler         15875 RD Re           15645, 15656, 15657, 15658, 15570 Stems         15885 GRN C			15493 Round Mounting Ba Cowls & Lenses: 16074 Long Cowl 15875 AMB Amber Lens 15875 HGRN Holiday Gree 15875 RD Red Lens 15885 GRN Green Foliage 15895 FRO Frosted Lens	n Lens
Dimensions		5"	3.2"		0

Finishes	<b>BKT</b> (shown), AZT, CBR				Additional Finishe
Color Temperature	2700K - Warm Whi	te	3000K - Pure White		
	10° Spot 16153 AZT27, 16153 BKT27, 16153 CBR27		<b>10° Spot</b> <b>16153</b> AZT30, <b>16153</b> BKT30, <b>16153</b> CBR30		
Item Number by Beam Spread and Finish	<b>35° Flood</b> <b>16154</b> AZT27, <b>16154</b> <b>16154</b> CBR27	16154 AZT27, 16154 BKT27,		3KT30,	AZT
	60° Wide Flood 16155 AZT27, 16155 BKT27, 16155 CBR27		60° Wide Flood 16155 AZT30, 16155 BKT30, 16155 CBR30		
Housing	Cast Aluminum or	Cast Brass (CBR)			CBR
Wattage/VA, Delivered Lumens & Efficacy	3.5W, 5.25VA 300 lm, 86 lm/W Lumen levels are the same for 2700K and			3000K	
CRI	80+				
Voltage Range	9V-15V AC/DC with no loss in light output. 4kV (4000 volt protection).				
Light Source	6 integrated high-output LEDs with 3-step binning for color consistency. Custom T.I.R. (Total Internal Reflection) acrylic lens. Tested to a Lumen Maintenance L70 of 40,000 hrs.				
Wiring	48" of usable #18-2, SPT-1W leads				
Notes	Replaces the equiv will naturally pating		en. Includes 8" slotted ir	-ground stake and 2	gel-filled wire nuts. Bra
Accessories	Mounting: 15601 Surface Mou 15607 Surface Mou 15609 Junction Box 15647, 15514 90° Elk 15649 Stem Couple 15645, 15656, 15657 15509, 15510, 15511, 15515 Two Fixture M	Cowls 4 16074 L 15875 A 15875 F 15875 F 15875 F 15885 (	Round Mounting Bas & Lenses: .ong Cowl MB Amber Lens IGRN Holiday Green RD Red Lens GRN Green Foliage L FRO Frosted Lens	Lens	
Dimensions		5"	3.2"		







## Accent Integrated LED

			LED Acce	ent – 7W	
Finishes	<b>AZT</b> (shown), BKT, CBR			Additional Finishes	
Color Temperature	2700K - Warm White		3000K - Pure	White	
	10° Spot 16156 AZT27, 16156 BKT27, 16156 CBR27		10° Spot 16156 AZT30, 16156 CBR30	<b>16156</b> BKT30,	
Item Number by Beam Spread and Finish	35° Flood 16157 AZT27, 16157 16157 CBR27	<b>7</b> BKT27,	<b>35° Flood</b> <b>16157</b> AZT30, <b>16157</b> CBR30	<b>16157</b> BKT30,	ВКТ
	60° Wide Flood 16158 AZT27, 16158 16158 CBR27	<b>B</b> BKT27,	60° Wide Floc 16158 AZT30, 16158 CBR30		
Housing	Cast Aluminum or	Cast Brass (CBR)			CBR
Wattage/VA, Delivered Lumens & Efficacy	7W, 10VA	500 lm, 71 lm/W	Lumen levels	are the same for 2700K and	d 3000K
CRI	80+	80+			
Voltage Range	9V-15V AC/DC wit	9V-15V AC/DC with no loss in light output. 4kV (4000 volt protection).			
Light Source	5 5	6 integrated high-output LEDs with 3-step binning for color consistency. Custom T.I.R. (Total Internal Reflection) acrylic lens. Tested to a Lumen Maintenance L70 of 40,000 hrs.			Γ.I.R. (Total Internal
Wiring	48" of usable #18-	2, SPT-1W leads			
Notes	Replaces the equiv Brass will naturally		en. Includes 8" sl	otted in-ground stake and	2 gel-filled wire nuts.
Accessories	Mounting:         15493 Round Mounting Ba           15601 Surface Mounting Flange         Cowls & Lenses:           15607 Surface Mounting Bracket         16074 Long Cowl           15609 Junction Box Mounting Bracket         15875 AMB Amber Lens           15647, 15514 90° Elbow         15875 HGRN Holiday Gree           15649 Stem Coupler         15875 RD Red Lens           15509, 15510, 15511, 15512, 15513 Stems (CBR)         15895 FRO Frosted Lens           15515 Two Fixture Mount (CBR )         15895 FRO Frosted Lens			n Lens	
Dimensions		5"	3.2"		0

4"



3000K- Pure White       2700K- Warm White       3000K- Pure White       3000K- Pure White       3000K - Pure White         15070 BBR30R 16070 BKT30R       Image: Construct of the second s			i				
n), A.Z1, BK1       Finishes       BBR (shown), A.Z1, BK1       Finishes         3000K - Pure White       700K - Pure White       3000K - Pure White       3000K - Pure White       3000K - Pure White       15861 AZT30R 15861 BR730R       15861 AZT30R 15861 BR730R       Image: Comparison of the comparison over time.       Sintegrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen of 40,000 hrs.         3000K=302 lm 3000K=302 lm 3000K=302 lm 3000K=73 lm/W       3000K=204 lm 3000K=302 lm 3000K=73 lm/W       3000K=302 lm 3000K=73 lm/W         3000K=2, ST-T-W leads. supplied.       64" of usable #18-2, SPT-1W leads. Wire connectors supplied.       Sintegrated high-output leads. Wire connectors user will naturally patina over time.         unting Flange unting Bracket       15601 Surface Mounting Flange 115607 Surface Mounting Bracket 15647, 15656, 15657, 15658, 15570 Stems       Sintegrate Mounting Bracket 15647, 15658, 15570 Stems         64       5.375"       1       2'       3'       4'       5'         62       0'	Wall Wash		w	'all V	Vash A	cce	nt
Pure WhiteWarm WhitePure White16070 AZT30R 16070 BK30RImage: Construct of the set of the	ın), AZT, BKT		<b>BBR</b> (sho	wn), /	AZT, BK	T	
16070 BBR30R 16070 BKT30R       15861 BBR27R 15861 BKT27R       15861 BBR30R 15861 BKT30R         a Cast Brass (BBR)       a State Aluminum or Cast Brass (BBR)       a State Aluminum or Cast Brass (BBR)         3000K 80+       a State Aluminum or Cast Brass (BBR)       a State Aluminum or Cast Brass (BBR)         3000K 80+       9V-15V AC/DC with no loss in light output       9V-15V AC/DC with no loss in light output         -output LEDs with 3-step binning ncy. Tested to a Lumen of 40,000 hrs.       8 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.         3000K=302 lm 3000K=302 lm 3000K=73 lm/W       2700K=294 lm 3000K=73 lm/W       3000K=302 lm 3000K=73 lm/W         -2, SPT-1W leads. supplied.       64 <sup>4</sup> of usable #18-2, SPT-1W leads. Wire connectors suplied.         ical of 80°, horizontal of 10°. din-ground stake. Fully adjustable in aturally patina over time.       Beam spread vertical of 108°, horizontal of 111°. Includes 8" slotted in-ground stake. Fully adjustable knuckle. Brass will naturally patina over time.         unting Bracket bx Mounting Bracket bx Mounting Bracket bx Mounting Bracket bx Mounting Bracket       325" 325" 4567 S0° Surface Mounting Bracket 15647 90° Elbow 1645, 15656, 15657, 15657, 15657, 15657, 15657, 15658, 15570 Stems         -1       2'       3'       4'       5'         -1       2'       3'       4'       5'         -1       2'       3'       4'       5'							
r Cast Brass (BBR)       Cast Aluminum or Cast Brass (BBR)         3000K       4.3W, 5.8VA         3000K       3000K         80+       2700K       3000K         00t the no loss in light output       9V-15V AC/DC with no loss in light output       Bintegrated high-output LEDs with 3-step binning neu, Tested to a Lumen of 40,000 hrs.       8 integrated high-output LEDs with 3-step binning neu, Tested to a Lumen of 40,000 hrs.         3000K=302 lm       3000K=302 lm       3000K=302 lm       3000K=302 lm         3000K=73 lm/W       2700K=294 lm       3000K=302 lm       3000K=73 lm/W         2, SPT-1W leads.       64" of usable #18-2, SPT-1W leads.       Wire connectors supplied.         ical of 80°, horizontal of 100°.       Beam spread vertical of 108°, horizontal of 111°.       Includes 8" slotted in-ground stake. Fully adjustable Innaturally patina over time.         unting Flange       15601 Surface Mounting Flange       15607 Surface Mounting Flange         15647 90° Elbow       15647 90° Elbow       3.25"         5.375"       5.375"       5.375"         6"       0' .5' 1' 2' 3' 4' 5'       0' .5' 1' 2' 3' 4' 5'         1' 2' 3' 4' 5'       0' .5' 1' 2' 3' 4' 5'         16.2 1.3 .25 .22 .19       51.2 45.5 30 7.1 19 .68 .30	16070 BBR30R	0	15861 BBR27R	15	861 BBR3	0R	
300K       300 K       300 K <th< td=""><td>or Cast Brass (BBR)</td><td>AZT</td><td>Cast Aluminum</td><td>or Ca</td><td>st Brass (I</td><td>BBR)</td><td>AZI</td></th<>	or Cast Brass (BBR)	AZT	Cast Aluminum	or Ca	st Brass (I	BBR)	AZI
80+       BKT       80+       80+       BKT         80+       9V-15V AC/DC with no loss in light output       9V-15V AC/DC with no loss in light output         -output LEDs with 3-step binning ncy. Tested to a Lumen of 40,000 hrs.       8 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.         3000K=302 Im 3000K=73 Im/W       2700K=294 Im 2700K=67 Im/W       3000K=302 Im 3000K=302 Im 3000K=73 Im/W         -2, SPT-1W leads. supplied.       64" of usable #18-2, SPT-1W leads. Wire connectors supplied.         -2, SPT-1W leads. supplied.       64" of usable #18-2, SPT-1W leads. Wire connectors supplied.         -2, SPT-1W leads. supplied.       544" of usable #18-2, SPT-1W leads. Wire connectors supplied.         -2, SPT-1W leads. supplied.       5647 of usable #18-2, SPT-1W leads. Wire connectors supplied.         -1, attrally patina over time.       15601 Surface Mounting Flange 15607 Surface Mounting Bracket 15647 90° Elbow 15645, 15656, 15657, 15658, 15570 Stems         5,375"       5,375"         -5,375"       -5,375"         -5,375"       -6"         -5,375"       -6"         -1       2'       3'       4'       5'         -6"       -2'       -0'       5'       1'       2'       3'       4'       5'         -6"       -2'       3' <td< td=""><td></td><td>0</td><td>4.3W, 5.8VA</td><td></td><td></td><td></td><td>O.</td></td<>		0	4.3W, 5.8VA				O.
-output LEDs with 3-step binning of 40,000 hrs.8 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.3000K=302 lm 3000K=73 lm/W2700K=294 lm 2700K=67 lm/W3000K=302 lm 3000K=73 lm/W2, SPT-1W leads. supplied.64" of usable #18-2, SPT-1W leads. Wire connectors supplied.cical of 80°, horizontal of 100°. din-ground stake. Fully adjustable naturally patina over time.Beam spread vertical of 108°, horizontal of 111°. Includes 8" slotted in-ground stake. Fully adjustable knuckle. Brass will naturally patina over time.unting Flange tothing Bracket sor Mounting Bracket sor Tis658, 15570 Stems15601 Surface Mounting Bracket 15645, 15656, 15657, 15658, 15570 Stems $5.375"$ $5.375"$ $5.375"$ $6"$ $5.375"$ $0'$ $5'$ $1'$ $2'$ $3'$ $4'$ $5'$ $0'$ $5'$ $1'$ $2'$ $3'$ $4'$ $5'$ $0'$ $5'$ $1'$ $2'$ $3'$ $4'$ $5'$ $1'$ $2'$ $3'$ $4'$ $5'$ $1'$ $2'$ $3'$ $4'$ $5'$ $1'$ $2'$ $3'$ $4'$ $5'$ $1'$ $2'$ $3'$ $4'$ $5'$ $1'$ $2'$ $3'$ $4'$ $5'$ $1'$ $2'$ $3'$ $4'$ $5'$ $1'$ $2'$ $3'$ $4'$ $5'$ $1'$ $2'$ $3'$ $4'$ $5'$ $1'$ $2'$ $3'$ $4'$ $5'$ $1'$ $2'$ <t< td=""><td></td><td>вкт</td><td></td><td></td><td></td><td></td><td>вкт</td></t<>		вкт					вкт
ncy. Tested to a Lumen of 40,000 hrs.for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.3000K=302 lm 3000K=73 lm/W2700K=294 lm 2700K=67 lm/W3000K=302 lm 3000K=73 lm/W-2, SPT-1W leads. supplied.64" of usable #18-2, SPT-1W leads. Wire connectors supplied.ical of 80°, horizontal of 100°. d in-ground stake. Fully adjustable Inaturally patina over time.Beam spread vertical of 108°, horizontal of 111°. Includes 8" slotted in-ground stake. Fully adjustable knuckle. Brass will naturally patina over time.unting Flange bunting Bracket15601 Surface Mounting Flange 15607 Surface Mounting Bracket57, 15658, 15570 Stems15607 Surface Mounting Bracket 15645, 15656, 15657, 15658, 15570 Stems6"5.375" $3.25"$ 6" $5.375"$ $3.25"$ 6" $2'$ 3' 4' 5'0' 5' 1' 2' 3' 4' 5'12' 3' 4' 5'0' 5' 1' 2' 3' 4' 5'12' 3' 4' 5'0' 5' 1' 2' 3' 4' 5'	ith no loss in light ou	itput	9V-15V AC/DC	with no	o loss in lig	ght ou	tput
3000K=73 lm/W       2700K=67 lm/W       3000K=73 lm/W         22, SPT-1W leads.       64" of usable #18-2, SPT-1W leads.         supplied.       Swire connectors supplied.         ical of 80°, horizontal of 100°.       Beam spread vertical of 108°, horizontal of 111°.         in-ground stake. Fully adjustable       Beam spread vertical of 108°, horizontal of 111°.         in-ground stake. Fully adjustable       Includes 8" slotted in-ground stake. Fully adjustable         inaturally patina over time.       15601 Surface Mounting Flange         unting Flange       15607 Surface Mounting Bracket         ox Mounting Bracket       15647 90° Elbow         is64" of usable.       Is64", is656, is656, is658, is5570 Stems         5.375"       Is64         6"       3' 4' 5'         6"       3' 4' 5'         6"       3' 4' 5'         1'       2' 3' 4' 5'         1'       2' 3' 4' 5'         1'       2' 3' 4' 5'         1'       2' 3' 4' 5'         1'       3' 4' 5'         1'       3' 4' 5'         1'       1' 2' 3' 4' 5'         1'       1' 2' 3' 4' 5'         1'       1' 2' 3' 4' 5'			for color consis	tency.	Tested to	a Lun	
Supplied.       Wire connectors supplied.         ical of 80°, horizontal of 100°.       Beam spread vertical of 108°, horizontal of 111°.         includes 8" slotted in-ground stake. Fully adjustable       Includes 8" slotted in-ground stake. Fully adjustable         inaturally patina over time.       15601 Surface Mounting Flange         inting Flange       15601 Surface Mounting Flange         ison Synthese       15607 Surface Mounting Bracket         ison Synthese       15645, 15656, 15657, 15658, 15570 Stems         57, 15658, 15570 Stems       15645, 15657, 15658, 15570 Stems         5375"       ison Synthese         6"       ison Synthese         1'       2'       3'       4'       5'         1'       2'       3'       4'       5'         1'       2'       3'       4'       5'         1'       2'       3'       4'       5'         1'       2'       3'       4'       5'         1'       2'       3'       4'       5'         1'       2'       3'       4'       5'         1'       2'       3'       4'       5'         1'       2'       3'       4'       5'         1'       2' </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Includes 8" slotted in-ground stake. Fully adjustable Inaturally patina over time.Includes 8" slotted in-ground stake. Fully adjustable knuckle. Brass will naturally patina over time.Includes 8" slotted in-ground stake. Fully adjustable knuckle. Brass will naturally patina over time.Is601 Surface Mounting Flange 15607 Surface Mounting Bracket 15647 90° Elbow 15645, 15656, 15657, 15658, 15570 StemsImage: state st	-2, SPT-1W leads. supplied.					ads.	
Jointing Bracket bx Mounting Bracket       15607 Surface Mounting Bracket         Jointing Bracket       15607 Surface Mounting Bracket         Jointing Bracket       15647 90° Elbow         Jointing Bracket       15645, 15656, 15657, 15658, 15570 Stems         Jointing Bracket       Jointing Bracket         Jointing Bracket       Joi	d in-ground stake. F	ully adjustable	Includes 8" slott	ed in-	ground st	ake. Fu	ully adjustable
6"       3.25"         6"       1'         2'       3'       4'       5'         0'       .5'       1'       2'       3'       4'       5'         16.2       1.3       .25       .22       .19       51.2       45.5       30       7.1       1.9       .68       .30	5		15607 Surface N 15647 90° Elbow	1ountii '	ng Bracke	et	าร
16.2       1.3       .25       .22       .19       51.2       45.5       30       7.1       1.9       .68       .30	5.375" 6"		Adjus	stable		3.25"	6"

					-				
		Wall Wash		Wa	Wall Wash Accent				
Finishes	BBR (show	n), AZT, BKT	Available Finishes	BBR (show	Available Finishes				
Color Temperature	2700K - Warm White	3000K - Pure White		2700K - Warm White	3000K - Pure White				
ltem Number and Finish	16070 AZT27R 16070 BBR27R 16070 BKT27R	16070 AZT30R 16070 BBR30R 16070 BKT30R	0	15861 AZT27R 15861 BBR27R 15861 BKT27R	15861 AZT30R 15861 BBR30R 15861 BKT30R				
Housing	Cast Aluminum o	r Cast Brass (BBR)	AZT	Cast Aluminum o	or Cast Brass (BBR)	AZT			
Power Usage at 12V AC Input, VA and Watts	4.3W, 5.8VA		0	4.3W, 5.8VA		0			
Color Temp. & CRI	2700K 80+	3000K 80+	вкт	2700K 80+	3000K 80+	вкт			
Voltage Range	9V-15V AC/DC wi	th no loss in light ou	tput	9V-15V AC/DC w	ith no loss in light out	put _			
Light Source		-output LEDs with 3 ency. Tested to a Lui of 40,000 hrs.			n-output LEDs with 3- ency. Tested to a Lum ) of 40,000 hrs.				
Delivered Lumens & Efficacy	2700K=294 lm 2700K=67 lm/W	3000K=302 lm 3000K=73 lm/W		2700K=294 lm 3000K=302 lm 2700K=67 lm/W 3000K=73 lm/W					
Wiring	35" of usable #18 Wire connectors	-2, SPT-1W leads. supplied.		64" of usable #18 Wire connectors	8-2, SPT-1W leads. supplied.				
Notes	Includes 8" slotte	ical of 80°, horizonta d in-ground stake. F I naturally patina ove	ully adjustable	Beam spread vertical of 108°, horizontal of 111°. Includes 8" slotted in-ground stake. Fully adjustable knuckle. Brass will naturally patina over time.					
Accessories	15647 90° Elbow	5 5		15601 Surface Mo 15607 Surface Mo 15647 90° Elbow 15645, 15656, 156	5 5	S			
Dimensions Photometrics		5.375" 6"			3.25"	6"			
Distance from Wall	0' .5'	1' 2' 3' 4'	5'	Adjust 0' .5'		5'			
2'		1 2 3 4 16.2 1.3 .25 .22	.19	51.2 45.5		.30			
4'		10.8 5.1 1.8 .54	.17			.7			



Kichler.com/Landscape



# 12V In-Ground

## Integrated LED

Embed in driveways, walkways, patios and more-the incredibly durable construction is easy to install in any hardscaping material and is designed to weather the elements, car tires and foot traffic.



# In-Ground

Integrated LED



	LED In-Gr	ound – 4W	LED In-Gro	<b>und</b> – 6.5W	LED In-Gro	<b>bund</b> – 14W	
Finishes	В	BR	B	BR	BBR		
Color Temperature	2700K - Warm White	3000K - Pure White	2700K - Warm White	3000K - Pure White	2700K - Warm White	3000K - Pure White	
ltem Number and Finish	10° Spot 16030 BBR27 35° Flood 16031 BBR27 60° Wide Flood 16032 BBR27	10° Spot 16030 BBR30 35° Flood 16031 BBR30 60° Wide Flood 16032 BBR30	10° Spot         10° Spot           16033 BBR27         16033 BBR30           35° Flood         35° Flood           16034 BBR27         16034 BBR30           d         60° Wide Flood           16035 BBR27         16035 BBR30		10° Spot 16036 BBR27 35° Flood 16037 BBR27 60° Wide Flood 16038 BBR27	10° Spot 16036 BBR30 35° Flood 16037 BBR30 60° Wide Flood 16038 BBR30	
Housing	Cast Brass						
Power Usage at 12V AC Input, VA and Watts	4W, 5.8VA		6.5W, 9.3VA		14W, 18.5VA		
CRI	80+						
Voltage Range	9V-15V AC/DC wi	th no loss in light ou	utput				
Light Source	1 integrated high with 3-step binnii consistency. Test Maintenance L70	ng for color ted to a Lumen	5 integrated high with 3-step binni consistency. Test Maintenance L70	ng for color ted to a Lumen	5 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.		
Delivered Lumens & Efficacy	2700K = 146 lm 2700K = 37 lm/W	3000K = 170 lm 3000K = 43 lm/W	2700K = 306 lm 2700K = 47 lm/W	3000K = 348 lm 3000K = 54 lm/W	2700K = 520 lm 2700K = 37 lm/W	3000K = 590 lm 3000K = 42 lm/W	
Wiring	24" of usable #18	-2, SPT-1W leads. V	Vire connectors sup	oplied. Includes LVF	PC installed.		
Notes	in-ground stake. I walk-over rated for or truck. Aimable vertical. Compare Halogen. Corrosio	24" of usable #18-2, SPT-1W leads. Wire connectors supplied. Includes LVPC installed.Includes anti-heaving, auger-style in-ground stake. Drive-over and walk-over rated for 4500 lb. car or truck. Aimable up to 15° on the vertical. Compares to MR16 20WIncludes anti-heaving, auger-style in-ground stake. Drive-over and walk-over rated for 4500 lb. car or truck. Aimable up to 15° on the vertical. Compares to MR16 20WIncludes anti-heaving, in-ground stake. Drive walk-over rated for 4500 lb. car or truck. Aimable up to 15° on the vertical. Compares to MR16 35WIncludes anti-heaving, in-ground stake. Drive walk-over rated for 4500 lb. car or truck. Aimable up to 15° on the vertical. Compares to MR16 35WIncludes anti-heaving, in-ground stake. Drive walk-over rated for 450 or truck. Aimable up to 15° on the vertical. Compares to MR16 35WIncludes anti-heaving, in-ground stake. Drive walk-over rated for 450 or truck. Aimable up to 15° on the vertical. Compares to MR16 35WHalogen. Corrosion-free, all-brass construction. Brass will naturally patina over time.Construction. Brass will naturally patina over time.					
Accessories	16501 BBRP Cond	crete Kit. See page 1	76 for Rock Guard a	nd Cowl options.			
Dimensions		4.5"		6.6"			



	LED Well Light – 4.5W	LED Well Light – 8.5W	LED Well Light – 12.4W			
Finishes	ВКТ	ВКТ	ВКТ			
Color Temperature	3000K - Pure White	3000K - Pure White	3000K - Pure White			
ltem Number and Finish	10° Spot         60° Wide Flood           15767 BKT         15769 BKT           35° Flood         15768 BKT	10° Spot         60° Wide Flood           15728 BKT         15748 BKT           35° Flood         15747 BKT	10° Spot         60° Wide Flood           15729 BKT         15758 BKT           35° Flood         15757 BKT			
Housing	Cast Aluminum body with heavy-du	ty polypropylene sleeve and stainless	steel gimble ring			
Power Usage at 12V AC Input, VA and Watts	4.5W, 7.5VA	8.5W, 12.2VA	12.4W, 16.7VA			
CRI	80+					
Voltage Range	9V-15V AC/DC with no loss in light o	utput				
Light Source	3 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.	6 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.	9 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.			
Delivered Lumens & Efficacy	3000K = 150 lm 3000K = 33 lm/W	3000K = 310 lm 3000K = 36 lm/W	3000K = 460 lm 3000K = 37 lm/W			
Wiring	35" of usable #18-2, SPT-1W leads. (	Cable connectors supplied.				
Notes	Reversible support sleeve to accommodate uplighting when flush mounting or angled lighting are desired in a semi-recessed application. Fully adjustable. Compares to MR16 20W Halogen.	Reversible support sleeve to accommodate uplighting when flush mounting or angled lighting are desired in a semi-recessed application. Fully adjustable. Compares to MR16 35W Halogen.	Reversible support sleeve to accommodate uplighting when flush mounting or angled lighting are desired in a semi-recessed application. Fully adjustable. Compares to MR16 50W Halogen.			
Accessories	15787 BK Rock Guard 15875 AMB Amber Lens (4.5-8.5W), 1 15885 GRN Green Foliage Lens (4.5- 15895 FRO Frosted Lens (4.5-8.5W),	3.5W), <b>15886 GRN</b> Green Foliage Lens (*	12.4W)			
Dimensions	8"	8"	8"			







# 12V Water Accent

Integrated LED

Heavy-weight construction is filled and sealed with two types of premium encapsulant to ensure the fixtures are completely watertight.



#### 12V Integrated LED Water Accent

# 2-in-1 Water Accent

Integrated LED



## Versatile lighting that's at home in and out of water.

Enhance and highlight flowing water in waterfalls, streams and fountains. Create a magical mirroring effect on still waters, like ponds and water features. This integrated LED accent light features a rugged construction sealed against the elements for full submersion applications. The stainless steel housing with integrated cowl stands up to harsh environments. With a 60-degree beam spread and choice of color temperatures, you're sure to find everyhing you need for your application. The Out of Water Bracket accessory creates even more application possibilities beyond water features.





15776 BK

Multi Fixture Weighted Base

3.5W x 2.75H x 3.5L

Unique heavy weighted 3-pronged underwater accessory for 2 or 3 fixtures (sold separately) to give maximum flexibility and directional capability.

15777 SS Out of Water Bracket

1.5W x 1.44H x 2.5L

Stainless steel, easy-mount bracket (fixture sold separately) for use above ground on any surface ideal for wood and masonry when used on decks, patios or overhangs.



15778 BK Single Fixture Weighted Base 3.5W x 2.75H x 3.5L

Heavy weight 1-prong underwater light (sold separately) accessory for standard installations. Provides advanced directional capability.

# 12V Path & Spread

## Integrated LED

Decorative fixtures and finish options deliver architectural beauty for any home style, while adding essential light around walkways, entryways, patios and more.



#### 12V Integrated LED Path & Spread

12V Integrated LED



#### **Decorative Hammered Roof Cast Hammered Roof** Additional Additional CO (shown), TZT BBR (shown), TZT Finishes Finishes Finishes 3000K -2700K -2700K -3000K -**Color Temperature** Warm White Pure White Warm White Pure White Item Number 15843 CO27 15843 CO 15871 BBR27 15871 BBR and Finish 15843 TZT27 15843 TZT 15871 TZT27 15871 TZT Housing Brass or Copper (CO) Cast Aluminum or Cast Brass (BBR) Power Usage at 12V AC 3.8W, 4.95VA 3.8W, 4.95VA TZT TZT Input, VA and Watts +08 CRI 80+ Coordinating 9-15V AC/DC with no loss in light 9V-15V AC/DC with no loss in light Coordinating Voltage Range output Product output Product 3 integrated high-output LEDs, 3-step binning for color 3 integrated high-output LEDs, 3-step binning for color Light Source consistency. Tested to a Lumen consistency. Tested to a Lumen 11.11.1 11.1.1.2 Maintenance L70 of 40,000 hrs. Maintenance L70 of 40,000 hrs. LED Deck Light LED Deck Light **Delivered Lumens** 2700K = 168 lm 3000K = 182 lm 2700K = 168 lm 3000K = 182 lm 15763 TZT, 15763 TZT, 2700K = 48 lm/W 3000K = 49 lm/W 2700K = 48 lm/W 3000K = 49 lm/W & Efficacy see page 64 see page 64 30" of usable #18-2, SPT-1W leads. 30" of usable #18-2, SPT-1W leads. Wiring Cable connectors supplied. Cable connectors supplied. Includes 8" slotted in-ground stake and features Includes 8" slotted in-ground stake and features decorative light-leak pattern. Copper and brass will decorative light-leak pattern. Incandescent version of Notes naturally patina over time. Incandescent version of fixture 15471 on page 138. Brass will naturally patina fixture 15443 on page 138. over time. **15601** Surface Mounting Flange Accessories 15607 Surface Mounting Bracket Dimensions 22" 22" Photometrics 0' 1' 2' 3' 4' 5' 6' 7' 8' 0' 1' 2' 3' 4' 5' 6' 7' 8' Distance from Light Foot-candles (FC) 10.9 5.8 2.3 1.0 .43 .25 .13 .06 .01 10.9 5.8 2.3 1.0 .43 .25 .13 .06 .01

	F	undamental	S™	Fundamentals <sup>™</sup>						
Finishes	CO (sho	own), TZT	Additional Finishes	AZT (show	Additional Finishes					
Color Temperature	2700K - Warm White	3000K - Pure White		2700K - Warm White	3000K - Pure White					
Item Number and Finish	<b>15839</b> CO27R <b>15839</b> TZT27R	<b>15839</b> CO30R <b>15839</b> TZT30R		16120 AZT27 16120 BBR27 16120 BKT27	16120 AZT30 16120 BBR30 16120 BKT30	вкт				
Housing	Brass, Copper (C	0)	ų	Cast Aluminum	or Cast Brass (BBR)					
Power Usage at 12V AC Input, VA and Watts	4.3W, 5.8VA		ттт	4.3W, 5.8VA						
CRI	80+			80+		BBR				
Voltage Range	9V-15V AC/DC wi output	th no loss in light	Coordinating Product	9V-15V AC/DC w output	vith no loss in light	Coordinating Product				
Light Source	8 integrated high LEDs, 3-step binr consistency. Test Maintenance L70	ning for color to a Lumen		8 integrated high-output LEDs, 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.						
Delivered Lumens & Efficacy	2700K = 294 lm 2700K = 67 lm/W	3000K = 302 lm 3000K = 73 lm/W	LED Deck Light 16110 CO, see page 66	2700K = 294 lm 2700K = 67 lm/W	3000K = 302 lm 3000K = 73 lm/W	LED Deck Light 16110 AZT, see page 66				
Wiring	30" of usable #18 Cable connectors	-2, SPT-1W leads. s supplied.		30" of usable #18-2, SPT-1W leads. Cable connectors supplied.						
Notes	will naturally patir	d in-ground stake. ( na over time. Incand n page 139. Included sary.	descent version		ed in-ground stake. over time. Included ro ssary.					
Accessories	15601 Surface Mo 15607 Surface Mo			FM127265 Hexc FM128296BKT (	ell Louver Glare Guard Reflecto	or				
Dimensions Photometrics	21"			21"						
Distance from Light	0' 1'	2' 3' 4' 5'	6' 7' 8'	0' 1'	2' 3' 4' 5'	6' 7' 8'				
Foot-candles (FC) FC with Included Reflector*	62.5 27.5 - 17.5	5.61.4.42.185.82.41.2.8	.10 .06 .05 .5 .3 .1	62.5 27.5 - 17.5	5.61.4.42.185.82.41.2.8	.10 .06 .05 .5 .3 .1				

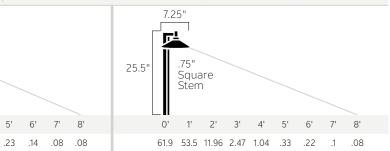
\*Using optional black glare guard reflector (FM128289BKT) will slightly reduce the above. Reflectors can be flipped or inverted for even more glare control



12V Integrated LED

Сорр	er Hat	Foi	rged		
(	0	A	ZT		
2700K - Warm White	3000K - Pure White	2700K - Warm White	3000K - Pure White		
15850 CO27R	15850 CO30R	15803 AZT27R	<b>15803</b> AZT30R		
Copper		Cast Aluminum			
4.3W, 5.8VA		3.8W, 4.95VA			
80+		80+			
9V-15V AC/DC with no los	s in light output	9V-15V AC/DC with no los	s in light output		
2700K = 294 lm 2700K = 67 lm/W	3000K = 302 lm 3000K = 73 lm/W	2700K = 168 lm 2700K = 46 lm/W	3000K = 182 lm 3000K = 49 lm/W		
		24" of usable #18-2, SPT-1W leads. Cable connectors supplied.			
		Includes 8" slotted in-grou square stem.	und stake and has a		
15607 Surface Mounting E FM127265 Hexcell Louver	Bracket				
21.5"		8" 26.2" 1.25" Square Stem			
0' 1' 2' 3'	4' 5' 6' 7' 8'	0' 1' 2' 3'	4' 5' 6' 7' 8'		
		6.8 5.8 2.5 .83	.17 .04 .02 .01 .01		
	2700K - Warm White 15850 CO27R Copper 4.3W, 5.8VA 80+ 9V-15V AC/DC with no los 8 integrated high-output color consistency. Tested L70 of 40,000 hrs. 2700K = 294 lm 2700K = 67 lm/W 30" of usable #18-2, SPT- Cable connectors supplied Includes 8" slotted in-groun naturally patina over time removed if necessary. 15601 Surface Mounting F 15607 Surface Mounting F 121.5"	15850 CO27R         15850 CO27R         Copper         4.3W, 5.8VA         80+         9V-15V AC/DC with no loss in light output         SINTER CORRECTION OF CONSISTENCY. Tested to a Lumen Maintenance L/70 of 40,000 hrs.         2700K = 294 Im 2700K = 67 Im/W         3000K = 302 Im 3000K = 73 Im/W         3000K = 302 Im 3000K = 73 Im/W         SOUCK = 294 Im 3000K = 73 Im/W         2700K = 67 Im/W         3000K = 302 Im 3000K = 73 Im/W         SOUCK = 73 Im/W         SOUCK = 294 Im 3000K = 73 Im/W         SOUCK = 70 Im/W         SOUCK = 70 Im/W         SOUCK = 294 Im 3000K = 700 Im/W         SOUCK = 294 Im 3000K = 700 Im/W         SOUCK = 70 Im/W         SOUCK = 202 Im 3000K = 73 Im/W         SOUCK = 70 Im/W         SOUCK = 70 Im/W         SOUCK = 700K = 67 Im/W         SOUCK = 700K = 70 Im/W         SOUCK = 700K = 70 Im/W         SOUCK = 70 Im/W         SOUCK = 70 Im/W         SOUCK = 70 Im/W <t< td=""><td>CO         2700K - Warm White       2700K - Warm White       2700K - Warm White         15850 CO27R       15850 CO30R       15803 AZT27R         Copper       Cast Aluminum         4.3W, 5.8VA       3000K - Pure White       2804 June         9V-15V AC/DC with no loss in light output       9V-15V AC/DC with no loss         8 integrated high-output LEDs, 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.       2700K = 46 Im/W         3000K = 302 Im 3000K = 302 Im 3000K = 73 Im/W       3000K = 168 Im 2700K = 46 Im/W       2700K = 46 Im/W         30° of usable #18-2, SPT-1W leads.       24" of usable #18-2, SPT-200K = 46 Im/W       24" of usable #18-2, SPT-1W leads.         Cable connectors supplied.       Includes 8" slotted in-ground stake. Copper will naturally patina over time. Included reflector can be removed if necessary.       15601 Surface Mounting Fange 15607 Surface Mounting Fange         15601 Surface Mounting Bracket FM122265 Hexcell Louver FM122265 Hexcell Louver FM122265 Hexcell Louver FM12265 Hexcell Louver FM122765 Hexcell Louver FM12265 Hexcell Louver FM122765 Hexcell Louver FM1227</td></t<>	CO         2700K - Warm White       2700K - Warm White       2700K - Warm White         15850 CO27R       15850 CO30R       15803 AZT27R         Copper       Cast Aluminum         4.3W, 5.8VA       3000K - Pure White       2804 June         9V-15V AC/DC with no loss in light output       9V-15V AC/DC with no loss         8 integrated high-output LEDs, 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.       2700K = 46 Im/W         3000K = 302 Im 3000K = 302 Im 3000K = 73 Im/W       3000K = 168 Im 2700K = 46 Im/W       2700K = 46 Im/W         30° of usable #18-2, SPT-1W leads.       24" of usable #18-2, SPT-200K = 46 Im/W       24" of usable #18-2, SPT-1W leads.         Cable connectors supplied.       Includes 8" slotted in-ground stake. Copper will naturally patina over time. Included reflector can be removed if necessary.       15601 Surface Mounting Fange 15607 Surface Mounting Fange         15601 Surface Mounting Bracket FM122265 Hexcell Louver FM122265 Hexcell Louver FM122265 Hexcell Louver FM12265 Hexcell Louver FM122765 Hexcell Louver FM12265 Hexcell Louver FM122765 Hexcell Louver FM1227		

	Pyra	amid		Ripley <sup>™</sup>	·
Finishes	т	ZT	BBR (sho	own), AZT	Additional Finishes
Color Temperature	2700K - Warm White	3000K - Pure White	2700K - Warm White	3000K - Pure White	
ltem Number and Finish	<b>15802</b> TZT27R	15802 TZT30R	<b>15800</b> AZT27R <b>15800</b> BBR27R	<b>15800</b> AZT30R <b>15800</b> BBR30R	
Housing	Cast Aluminum		Cast Aluminum o	r Cast Brass (BBR)	
Power Usage at 12V AC Input, VA and Watts	3.8W, 4.95VA		4.3W, 5.8VA		AZT
CRI	80+		80+		
Voltage Range	9V-15V AC/DC with no los	s in light output	9V-15V AC/DC wi output	th no loss in light	Coordinating Product
Light Source	3 integrated high-output l color consistency. Tested L70 of 40,000 hrs.		8 integrated high 3-step binning for consistency. Test Maintenance L70	r color ed to a Lumen	
Delivered Lumens & Efficacy	2700K = 168 lm 2700K = 46 lm/W	3000K = 182 lm 3000K = 49 lm/W	2700K = 294 lm 2700K = 67 lm/W	3000K = 302 lm 3000K = 73 lm/W	Outdoor Wall Mount <b>49060 OZ</b> , see Kichler.com
Wiring	30" of usable #18-2, SPT- Cable connectors supplied		24" of usable #18 Cable connectors	-2, SPT-1W leads. s supplied.	
Notes	Includes 8" slotted in-grou square stem.	und stake and has a	Includes 8" slotte stem. Brass will n	d in-ground stake a aturally patina over t	nd has a square time.
Accessories	<b>15601</b> Surface Mounting F <b>15607</b> Surface Mounting E				
Dimensions Photometrics	8" 26.4" 1.25" Square Stem		7.25" 25.5" 25.5" 7.25" 25.5"	re	
Distance from Light	0' 1' 2' 3'	4' 5' 6' 7' 8'	0' 1'	2' 3' 4' 5'	6' 7' 8'
Foot-candles (FC)	7.1 5.4 2.4 1	.44 .23 .14 .08 .08	61.9 53.5	11.96 2.47 1.04 .33	.22 .1 .08



12V Integrated LED

	Shallow Sl	hade Small	Shallow S	hade Large		
Finishes	В	КТ	E	ЗКТ		
Color Temperature	2700K - Warm White	3000K - Pure White	2700K - Warm White	3000K - Pure White		
Item Number and Finish	<b>15805</b> BKT27R	<b>15805</b> BKT30R	<b>15806</b> BKT27R	15806 BKT30R		
Housing	Cast Aluminum with cast k	oottom driver compartment	Cast Aluminum with cast	bottom driver compartment		
Power Usage at 12V AC Input, VA and Watts	4W, 5.8VA		4W, 5.8VA			
CRI	80+		80+			
Voltage Range	9V-15V AC/DC with no loss	s in light output	9V-15V AC/DC with no los	ss in light output		
Light Source	3 integrated high-output L color consistency. Tested L70 of 40,000 hrs.		3 integrated high-output LEDs, 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.			
Delivered Lumens & Efficacy	2700K = 126 lm 2700K = 31 lm/W	3000K = 140 lm 3000K = 35 lm/W	2700K = 126 lm 2700K = 31 lm/W	3000K = 140 lm 3000K = 35 lm/W		
Wiring	30" of usable #18-2, SPT-7 Cable connectors supplied		30" of usable #18-2, SPT- Cable connectors supplie			
Notes	Includes 8" slotted in-grou square stem.	und stake and has a	Includes 8" slotted in-gro square stem.	und stake and has a		
Accessories	<b>15601</b> Surface Mounting F <b>15607</b> Surface Mounting B					
Dimensions Photometrics	23.8"		23.9"			
Distance from Light	0' 1' 2' 3'	4' 5' 6' 7' 8'	0' 1' 2' 3'	4' 5' 6' 7' 8'		
Foot-candles (FC)	21.2 12.1 5.3 1.56	.55 .33 .11 .06 -	20.7 11.1 4.8 1.56			

#### 15833 AZT27R 1583 Cast Aluminum with cast botton Power Usage at 12V AC 4W, 5.8VA Input, VA and Watts 80+ Voltage Range 9V-15V AC/DC with no loss in ligh 3 integrated high-output LEDs w color consistency. Tested to a Lu L70 of 40,000 hrs. Delivered Lumens 300 2700K = 126 lm 2700K = 31 lm/W 300 30" of usable #18-2, SPT-1W lead Cable connectors supplied. Includes 8" slotted in-ground sta **15601** Surface Mounting Flange **15607** Surface Mounting Bracket Accessories 8.25"

24"

0' 1' 2'

3' 4'

2700K - Warm White

Finishes

Color Temperature

Item Number

Light Source

& Efficacy

Wiring

Notes

Dimensions

Photometrics Distance from Light

Foot-candles (FC)

and Finish

Housing

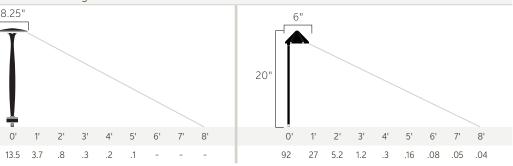
CRI

**Broad Ro** 

AZT



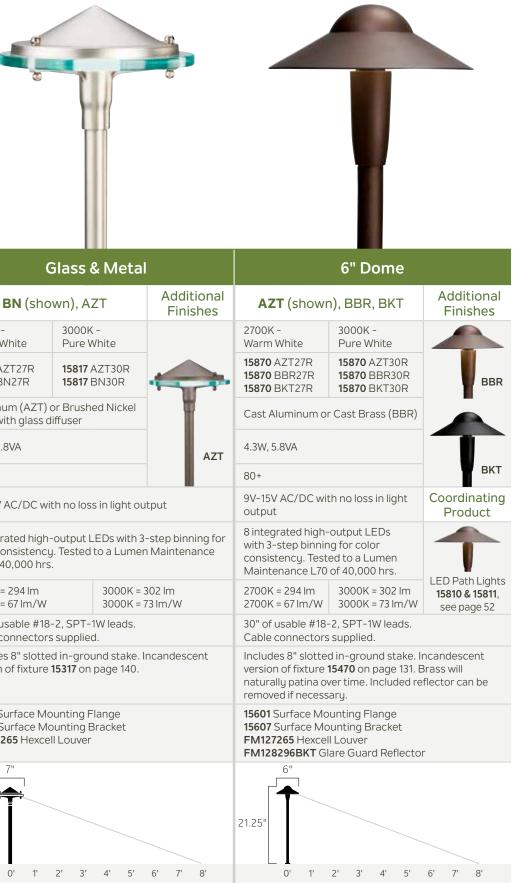
Roof		Side Mount		
ZT	AZT (sho	Additional Finishes		
3000K - Pure White	2700K - Warm White	3000K - Pure White		
<b>15833</b> AZT30R	15815 AZT27R 15815 BKT27R	15815 AZT30R 15815 BKT30R		
ottom driver compartment	Cast Aluminum		T	
	4.3W, 5.8VA		вкт	
	80+			
in light output	9V-15V AC/DC wit output	h no loss in light	Coordinating Product	
EDs with 3-step binning for o a Lumen Maintenance	8 integrated high- with 3-step binnir consistency. Test Maintenance L70	ng for color ed to a Lumen		
3000K = 140 lm 3000K = 35 lm/W	2700K = 294 lm 2700K = 67 lm/W	LED Deck Light <b>15765</b> , see page 65		
W leads.	52" of usable #18- Cable connectors			
nd stake	Includes 8" slotte	d in-ground stake		



12V Integrated LED

2V Integrated LED					)									
	Side	Mount	Cast	Brass			(	Cen	ter	Мс	bun	t		
Finishes		В	BR			BK.	T (sh	owr	n), A	ZT				ional shes
Color Temperature	2700K - Warm Wh	nite	3000	K - Pure Wł	nite	2700K - Warm Whit	e		000K ure W					
Item Number and Finish	15827 BBR27R	<b>15827</b> BBR27R <b>15827</b> BBR30R					27R 27R			AZT3 BKT3			1	
Housing	Cast Brass					Cast Alumi	num						-	
Power Usage at 12V AC Input, VA and Watts	4.3W, 5.8VA					4.3W, 5.8VA	۱.							AZT
CRI	80+					80+								
Voltage Range	9V-15V AC/DC wit output	th no loss	in light	Coordi Prod		9V-15V AC/DC with no loss in light output					jht		ordii Prod	nating luct
Light Source	8 integrated high- with 3-step binnir consistency. Test Maintenance L70	ng for col ed to a Lu	or umen			8 integrate with 3-step consistenc Maintenan	binni y. Test	ng fo ted to	or col o a Li	or umen	۱		4	
Delivered Lumens & Efficacy	2700K = 294 lm 2700K = 67 lm/W		= 302 lm = 73 lm/W	LED Dec 1576 see pa	55,	2700K = 29 2700K = 67				= 302 = 73 lr			1576	ck Light <b>55</b> , ge 65
Wiring	53" of usable #18- Cable connectors					50" of usable #18-2, SPT-1W leads. Cable connectors supplied.								
Notes	Includes 8" slotted patina over time.	d in-grour	nd stake.	Brass will na	aturally	Includes 8" can be rem fixture <b>153</b> 2	oved it	fnec	essar					
Accessories	15601 Surface Mo 15607 Surface Mo 15677CLR Sprinkle	ounting B				15601 Surfa 15607 Surfa FM127265 FM128296	ace M Hexce	ount ell Lo	ing B uver	racke	et	or		
Dimensions	20.5"					22.75"								
Photometrics													$\geq$	
Distance from Light	0' 1'	2' 3'	4' 5'	6' 7'	8'	0'	1'	2'	3'	4'	5'	6'	7'	8'
Foot-candles (FC)	92 27	5.2 1.2	.3 .16	.08 .05	.04	66.5	30.3	6.2	1.4	.45	.17	.10	.06	.05
FC with Included Reflector*						-	17.5	5.8	2.4	1.2	.8	.5	.3	.1

\*Using optional black glare guard reflector (FM128289BKT) will slightly reduce the above. Reflectors can be flipped or inverted for even more glare control 50



Finishes	BN (sh	own), A	ZT	Additi Finish	
Color Temperature	2700K - Warm White	3000k Pure \			
Item Number and Finish	<b>15817</b> AZT27R <b>15817</b> BN27R		AZT30R BN30R		
Housing	Aluminum (AZT) (BN), with glass		ed Nickel		
Power Usage at 12V AC Input, VA and Watts	4.3W, 5.8VA				AZ
CRI	80+				
Voltage Range	9V-15V AC/DC w	vith no los	s in light o	utput	
Light Source	8 integrated high color consistenc L70 of 40,000 hr	y. Tested			
Delivered Lumens & Efficacy	2700K = 294 lm 2700K = 67 lm/W	,	3000K = 3000K =	302 lm 73 lm/W	
Wiring	30" of usable #1 Cable connecto	,			
Notes	Includes 8" slott version of fixture				nt
Accessories	15601 Surface N 15607 Surface N FM127265 Hexc	lounting E	Bracket		
Dimensions Photometrics	22"				
Distance from Light	0' 1'	2' 3'	4' 5'	6' 7'	8'
Foot-candles (FC)	36.2 20	5.1 1.2	.3 .17	.08 .05 .	.03
FC with Included Reflector*					

\*Using optional black glare guard reflector (FM128289BKT) will slightly reduce the above. Reflectors can be flipped or inverted for even more glare control

#### 12V Integrated LED Path & Spread

62.5 27.5 5.6 1.4 .42 .18 .10 .06 .05

#### 12V Integrated LED

		8" Dome		8" Dome Short Stem					
Finishes	<b>BKT</b> (show	n), AZT, BBR	Additional Finishes	AZT					
Color Temperature	2700K - Warm White	3000K - Pure White		2700K - Warm Wh	nite	3000K - Pure White			
Item Number and Finish	15810 AZT27R 15810 BBR27R 15810 BKT27R	15810 AZT30R 15810 BBR30R 15810 BKT30R	AZT	15811 AZT27R		15811 AZ	T30R		
Housing	Cast Aluminum o	r Cast Brass (BBR)		Cast Aluminum					
Power Usage at 12V AC Input, VA and Watts	4.3W, 5.8VA		BBR	4.3W, 5.8VA					
CRI	80+			80+	80+				
Voltage Range	9V-15V AC/DC wi output	th no loss in light	Coordinating Product	9V-15V AC/DC with no loss in light output			Coordinating Product		
Light Source	8 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.			8 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.					
Delivered Lumens & Efficacy	2700K = 294 lm 2700K = 67 lm/W	3000K = 302 lm 3000K = 73 lm/W	LED Path Light <b>15870</b> , see page 51	2700K = 294 lm 2700K = 67 lm/W	3000K = 3000K = Im/W		LED Path Light <b>15870</b> , see page 51		
Wiring	30" of usable #18 Cable connectors	-2, SPT-1W leads. s supplied.		36" of usable #18-2, SPT-1W leads. Cable connectors supplied.					
Notes	version of fixture	d in-ground stake. I <b>15310</b> on page 132. E ver time. Included re essary.	Brass will	Includes 8" slotte version of our LEI version of fixture can be removed if	D 15810 de <b>15410</b> on p	esign. Inca bage 132.	andescent		
Accessories	15601 Surface Mo 15607 Surface Mo			FM127265 Hexce FM128296BKT G		d Reflecto	or		
Dimensions	8.25"			8.25"					
Photometrics									
Distance from Light	0' 1'	2' 3' 4' 5'	6' 7' 8'	0' 1'	2' 3'	4' 5'	6' 7' 8'		
Foot-candles (FC)	66.5 30.3 6.2 1.4 .45 .17 .10 .06 .05			105 29	3.8 .72	.2 .09	.05 .03 .03		

- 17.5 5.8 2.4 1.2 .8 .5 .3 .1 - 17.5 5.8 2.4 1.2 .8 .5 .3 .1

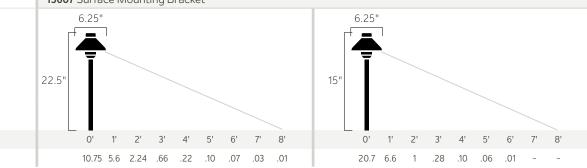
Finishes	CO (shown	I), AZT, BB	R	Additional Finishes	AZT (shown), BBR, CO				ŀ	\ddit Finis	ional shes
Color Temperature	2700K - Warm White	3000K - Pure White			2700K - Warm White		3000K Pure W				
ltem Number and Finish	15820 AZT27 15820 BBR27 15820 CO27	15820 AZT 15820 BBR 15820 CO		AZT	15821 AZT27 15821 BBR27 15821 CO27		15821 A 15821 E 15821 C	BR			BBR
Housing	Cast Aluminum, C Copper with Natu				Cast Aluminu Copper with						
Power Usage at 12V AC Input, VA and Watts	3.8W, 4.95VA				3.8W, 4.95VA					-	
CRI	80+			BBR	80+						со
Voltage Range	9V-15V AC/DC with output	th no loss in li	Coordinating Product	9V-15V AC/D output	)C wit	h no loss	in light	Co	ordii Prod	nating luct	
Light Source	3 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.										
Delivered Lumens & Efficacy	2700K = 168 lm 2700K = 46 lm/W	3000K = 182 3000K = 49		LED Path Light <b>15821</b> , see page 53	2700K = 168 li 2700K = 46 ln			= 182 lm = 49 lm/V	,	D Pat <b>158</b> 2 see pa	,
Wiring	20" of usable #18 Cable connectors		ads.		30" of usable #18-2, SPT-1W leads. Cable connectors supplied.						
Notes	Includes 8" slotted will naturally patir	<u> </u>	ake. C	opper and brass	Includes 8" slotted in-ground stake. Copper and brass will naturally patina over time.				d brass		
Accessories	15601 Surface Mc 15607 Surface Mc										
Dimensions	6.25" 22.5"				6.25"						
Photometrics											
Distance from Light	0' 1'	2' 3' 4'	5'	6' 7' 8'	0'		2' 3'	4' 5'	6'	7'	8'
Foot-candles (FC)	10.75 5.6	2.24 .66 .22	.10	.07 .03 .01	20.7	6.6	1 .28	.10 .06	.01	-	-

\*Using optional black glare guard reflector (FM128289BKT) will slightly reduce the above.
 Reflectors can be flipped or inverted for even more glare control

FC with Included Reflector\*

Llena™





12V Integrated LED

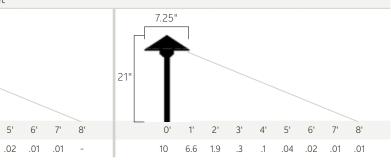
12V Integrated LED							
	т	īki	i	Four Corners	;		
Finishes	٦	TZT	AZT (show	n), BKT, TZT	Additional Finishes		
Color Temperature	2700K - Warm White	3000K - Pure White	2700K - Warm White	3000K - Pure White			
Item Number and Finish	15801 TZT27R	15801 TZT30R	16121 AZT27 16121 BKT27 16121 TZT27	16121 AZT30 16121 BKT30 16121 TZT30	вкт		
Housing	Cast Aluminum		Cast Aluminum				
Power Usage at 12V AC Input, VA and Watts	3.8W, 4.95VA		4.3W, 5.8VA				
CRI	80+		80+ TZT				
Voltage Range	9V-15V AC/DC with no los	ss in light output	9V-15V AC/DC with no loss in light output Coordination				
Light Source		LEDs with 3-step binning for I to a Lumen Maintenance	8 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.				
Delivered Lumens & Efficacy	2700K = 168 lm 2700K = 48 lm/W	3000K = 182 lm 3000K = 49 lm/W	2700K = 294 lm 2700K = 67 lm/W	3000K = 302 lm 3000K = 73 lm/W	LED Deck Light <b>16111</b> , see page 66		
Wiring	24" of usable #18-2, SPT- Cable connectors supplie		30" of usable #18-2, SPT-1W leads. Cable connectors supplied.				
Notes	Includes 8" slotted in-grou	und stake	Includes 8" slotted in-ground stake. Included reflector can be removed if necessary.				
Accessories	<b>15601</b> Surface Mounting F <b>15607</b> Surface Mounting F		15601 Surface Mo 15607 Surface Mo FM127265 Hexce FM128296BKT G	ounting Bracket	r		
Dimensions Photometrics	22"		20"				
Distance from Light	0' 1' 2' 3'	4' 5' 6' 7' 8'	0' 1'	2' 3' 4' 5'	6' 7' 8'		
Foot-candles (FC)	5.03 2.8 1 .33			6.2 1.4 .45 .17	.10 .06 .05		
FC with Included Reflector*			- 17.5	5.8 2.4 1.2 .8	.5 .3 .1		

	Overlay			Perforated				
Finishes	AZT				<b>CO</b> (shov	Additional Finishes		
Color Temperature	2700K - Warm Wh	Narm White 3000K - Pure White			2700K - Warm White	3000K - Pure White		
Item Number and Finish	16122 AZT27		16122	AZT30	16123 AZT27 16123 CO27 16123 TZT27	AZT		
Housing	Aluminum				Aluminum or Co	opper		
Power Usage at 12V AC Input, VA and Watts	3.8W, 4.95VA				3.8W, 4.95VA			
CRI	80+				80+		TZT	
Voltage Range	9V-15V AC/DC wit output	th no loss ii	n light	Coordinating Product	9V-15V AC/DC v output	vith no loss in light	Coordinating Product	
Light Source	with 3-step binnin consistency. Test	3 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.			3 integrated hig 3-step binning f Tested to a Lum of 40,000 hrs.			
Delivered Lumens & Efficacy	2700K = 168 lm 2700K = 46 lm/W	3000K = 2 3000K = 2		LED Deck Light <b>16112</b> , see page 67	2700K = 168 lm 2700K = 46 lm/V	3000K = 182 lm 3000K = 46 lm/W	LED Deck Light <b>16113</b> , see page 67	
Wiring	30" of usable #18- Cable connectors	,	leads.		30" of usable #18-2, SPT-1W leads. Cable connectors supplied.			
Notes	Includes 8" slotted decorative light-le with TZT underto	eak pattern			Includes 8" slotted in-ground stake and features decorative light-leak pattern. Copper will naturally patina over time.			
Accessories	15601 Surface Mo 15607 Surface Mo	0	0					
Dimensions	7.25"				21"			
Photometrics								
Distance from Light	0' 1'	2' 3'	4' 5'	6' 7' 8'	0' 1'	2' 3' 4' 5'	6' 7' 8'	
Foot-candles (FC)	12 7	1.9 .3 .	.06 .02	.01 .01 -	10 6.6	1.9 .3 .1 .04	.02 .01 .01	

\*Using optional black glare guard reflector (FM128289BKT) will slightly reduce the above.
 Reflectors can be flipped or inverted for even more glare control







12V Integrated LED						
	1	Round Tiere	d		Flare	
Finishes	AGZ (shov	vn), BKT, CW	Additional Finishes	AZT (show	/n), BBR, CO	Additional Finishes
Color Temperature	2700K - Warm White	3000K - Pure White		2700K - Warm White	3000K - Pure White	
Item Number and Finish	16124 AGZ27 16124 BKT27 16124 CW27	<b>16124</b> AGZ30 <b>16124</b> BKT30 <b>16124</b> CW30	ВКТ	16125 AZT27 16125 BBR27 16125 CO27	16125 AZT30 16125 BBR30 16125 CO30	BBR
Housing	Aluminum			Cast Aluminum, or Copper	Cast Brass (BBR)	
Power Usage at 12V AC Input, VA and Watts	3.8W, 4.95VA		cw	4.3W, 5.8VA		со
CRI	80+			80+		Ĩ
Voltage Range	9V-15V AC/DC w	ith no loss in light c	output	9V-15V AC/DC w	ith no loss in light	output
Light Source		-output LEDs with y. Tested to a Lume 5.			y. Tested to a Lum	a 3-step binning for ien Maintenance
Delivered Lumens & Efficacy	2700K = 168 lm 2700K = 46 lm/W		= 182 lm = 46 lm/W	2700K = 294 lm 2700K = 68 lm/W		= 302 lm = 70 lm/W
Wiring	30" of usable #18 Cable connector	-2, SPT-1W leads. s supplied.		30" of usable #18 Cable connector	8-2, SPT-1W leads. s supplied.	
Notes	Includes 8" slotte decorative light-l	ed in-ground stake eak pattern	and features			e. Copper and . Included reflector
Accessories	<b>15601</b> Surface Mo <b>15607</b> Surface Mo			15601 Surface M 15607 Surface M FM127265 Hexce FM128296BKT G	ounting Bracket	tor
Dimensions	21"			21"		
Photometrics						
Distance from Light	0' 1'	2' 3' 4' 5'	6' 7' 8'	0' 1'	2' 3' 4' 5'	
Foot-candles (FC) FC with Included Reflector*	7.4 4.3	1.2 .21 .16 .14	.07 .03 .03	66.5 30.3 - 17.5	6.2         1.4         .45         .17           5.8         2.4         1.2         .8	

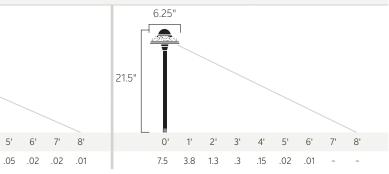
Finishes	A	ZT
Color Temperature	2700K - Warm White	3000
ltem Number and Finish	16126 AZT27	16126
Housing	Aluminum	
Power Usage at 12V AC Input, VA and Watts	3.8W, 4.95VA	
CRI	80+	
Voltage Range	9V-15V AC/DC with no loss	in light
Light Source	3 integrated high-output L color consistency. Tested t L70 of 40,000 hrs.	
Delivered Lumens & Efficacy	2700K = 168 lm 2700K = 46 lm/W	3000 3000
Wiring	30" of usable #18-2, SPT-1 Cable connectors supplied	
Notes	Includes 8" slotted in-grou decorative light-leak patter with TZT undertone.	
Accessories	<b>15601</b> Surface Mounting FI <b>15607</b> Surface Mounting B	
Dimensions Photometrics	23.25"	
Distance from Light	0' 1' 2' 3'	4' 5
Foot-candles (FC)	12 6 1.6 .4	.16 .0

\*Using optional black glare guard reflector (FM128289BKT) will slightly reduce the above.
 Reflectors can be flipped or inverted for even more glare control



	Pierced Dome					
	A	ZT				
00K - Pure White	2700K - Warm White 3000K - Pure White					
<b>26</b> AZT30	<b>15857</b> AZT27R	15857 AZT30R				
	Cast Aluminum					
	3.8W, 4.95VA					
	80+					
ht output	9V-15V AC/DC with no loss	in light output				
with 3-step binning for umen Maintenance	3 integrated high-output L color consistency. Tested t L70 of 40,000 hrs.	EDs with 3-step binning for to a Lumen Maintenance				
00K = 182 lm 00K = 46 lm/W	2700K = 168 lm 2700K = 46 lm/W	3000K = 182 lm 3000K = 49 lm/W				
ads.	30" of usable #18-2, SPT-1W leads. Cable connectors supplied.					
ake and features T finish overlay	Includes 8" slotted in-ground stake and features decorative light-leak pattern. Incandescent version of fixture <b>15457</b> on page 143.					

Petal



12V Integrated LED

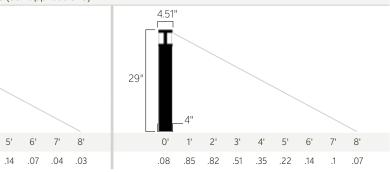
		Shepher	d's Crook	
Finishes	BBR (s	hown), AZT		Additional Finishes
Color Temperature	2700K - Warm White	3000K - Pure V	Vhite	$\cap$
Item Number and Finish	15807 AZT27R 15807 BBR27R	<b>15807</b> AZT30R <b>15807</b> BBR30R		
Housing	Cast Aluminum or Brass (BBR)			
Power Usage at 12V AC Input, VA and Watts	4.3W, 5.8VA			AZT
CRI	80+			
Voltage Range	9V-15V AC/DC with no loss in light c	output		
Light Source	8 integrated high-output LEDs with L70 of 40,000 hrs.	3-step binning for o	color consistency. Tested	to a Lumen Maintenance
Delivered Lumens & Efficacy	2700K = 294 lm 2700K = 67 lm/W		3000K = 302 lm 3000K = 73 lm/W	
Wiring	24" of usable #18-2, SPT-1W leads.	Cable connectors s	supplied.	
Notes	Includes 8" slotted in-ground stake	. Brass will naturally	y patina over time.	
Accessories	<b>15601</b> Surface Mounting Flange <b>15607</b> Surface Mounting Bracket			
Dimensions	27" 8"			
Photometrics				
Distance from Light	0' 1' 2' 3' 4' 5'	6' 7' 8'		
Foot-candles (FC)	61.9 53.5 11.96 2.47 1.04 .33	.22 .1 .08		

Louvered Bolla	d	Tee Bollard					
(shown), BKT	Additional Finishes	<b>AZT</b> (shown), BKT	Additional Finishes				
rm White	ВКТ	2800K - Warm White	ВКТ				
3		16131 AZT28 16131 BKT28	Г				
um with Weathered	<b>一</b>	Cast Aluminum with Weathered White Glass					
		3.5W, 5.67VA					
		80+					
DC with no loss in light ou	tput	9V-15V AC/DC with no loss in light out	put				
ional light engine utilizing -step binning for color col .umen Maintenance L70 c	nsistency.	Omni-directional light engine utilizing LEDs with 3-step binning for color cor Tested to a Lumen Maintenance L70 o	nsistency.				
lm m/W		2800K = 224 lm 2800K = 64 lm/W					
e #18-2, SPT-2W leads. ectors supplied.		20" of usable #18-2, SPT-2W leads. Cable connectors supplied.					
required to purchase on below for installation	e of the	Customer is required to purchase on accessories below for installation	e of the				

	Louvered Bolla	rd	Tee Bollard				
Finishes	<b>AZT</b> (shown), BKT	Additional Finishes	<b>AZT</b> (shown), BKT	Additional Finishes			
Color Temperature	2800K - Warm White	ВКТ	2800K - Warm White	ВКТ			
Item Number and Finish	16130 AZT28 16130 BKT28		16131 AZT28 16131 BKT28	Г			
Housing	Cast Aluminum with Weathered White Glass	<b>a</b>	Cast Aluminum with Weathered White Glass				
Power Usage at 12V AC Input, VA and Watts	3.5W, 5.67VA		3.5W, 5.67VA				
CRI	80+		80+				
Voltage Range	9V-15V AC/DC with no loss in light ou	tput	9V-15V AC/DC with no loss in light o	utput			
Light Source	Omni-directional light engine utilizing LEDs with 3-step binning for color co Tested to a Lumen Maintenance L70 c	nsistency.	Omni-directional light engine utilizin LEDs with 3-step binning for color c Tested to a Lumen Maintenance L70	r color consistency.			
Delivered Lumens & Efficacy	2800K = 224 lm 2800K = 64 lm/W		2800K = 224 lm 2800K = 64 lm/W	V			
Wiring	20" of usable #18-2, SPT-2W leads. Cable connectors supplied.		20" of usable #18-2, SPT-2W leads. Cable connectors supplied.				
Notes	Customer is required to purchase on accessories below for installation	ne of the	Customer is required to purchase one of the accessories below for installation				
Accessories	Required for installation: 15671ST Bollard Template Kit (concre 15578BK Bollard Mounting Stake (soil		ations)				
Dimensions	6.125"		4.51"				
Photometrics	4"		4"				
Distance from Light	0' 1' 2' 3' 4' 5'	6' 7' 8'	0' 1' 2' 3' 4' 5'	6' 7' 8'			
Foot-candles (FC)	.17 .44 .79 .52 .25 .14	.07 .04 .03	.08 .85 .82 .51 .35 .22	.14 .1 .07			







12V Integrated LED				7
	Side Throw Bolla	ard	Mission Boll	lard
Finishes	<b>AZT</b> (shown), BKT	Additional Finishes	<b>AZT</b> (shown), BKT	Additional Finishes
Color Temperature	2800K - Warm White	ВКТ	2800K - Warm White	ВКТ
Item Number and Finish	16132 AZT28 16132 BKT28		16133 AZT28 16133 BKT28	ŦŦ
Housing	Cast Aluminum with Weathered White Glass		Cast Aluminum with Weathered White Glass	
Power Usage at 12V AC Input, VA and Watts	3.5W, 5.67VA		3.5W, 5.67VA	
CRI	80+		80+	
Voltage Range	9V-15V AC/DC with no loss in light ou	tput	9V-15V AC/DC with no loss in ligh	toutput
Light Source	Directional aiming light engine utilizing LEDs with 3-step binning for color co Tested to a Lumen Maintenance L70 c	nsistency.	Omni-directional light engine utiliz LEDs with 3-step binning for colo Tested to a Lumen Maintenance L	r consistency.
Delivered Lumens & Efficacy	2800K = 224 Lm 2800K = 64 Lm/W		2800K = 224 Lm 2800K = 64 Lm/W	
Wiring	20" of usable #18-2, SPT-2W leads. Cable connectors supplied.		20" of usable #18-2, SPT-2W lead Cable connectors supplied.	ls.
Notes	Customer is required to purchase or accessories below for installation	ne of the	Customer is required to purchase accessories below for installation	
Accessories	Required for installation: 15671ST Bollard Template Kit (concre 15578BK Bollard Mounting Stake (soi	te or paver applica I applications)	ations)	
Dimensions	4.51"		29"	
Photometrics	4"		4"	
Distance from Light Foot-candles (FC)	0' 1' 2' 3' 4' 5' .07 .68 .7 .55 .37 .25	6' 7' 8' .16 .11 .08		5' 6' 7' 8' 15 .09 .06 .04





# 12V Deck & Patio

Integrated LED

Decorative and functional, our integrated deck and patio lights are optimized for all-weather performance and deliver clean, even light.



#### 12V Integrated LED Deck & Patic

# Deck & Patio

12V Integrated LED





	Vintag	je Park <sup>™</sup>	Decorative Hammered Roof					
Finishes	1	ZT	ттт					
Color Temperature	2700K - Warm White	3000K - Pure White	2700K - Warm Whi	ure White				
Item Number and Finish	<b>15750</b> TZT27R	15763 TZT27R	15	763 TZT	30R			
Housing	Cast Aluminum		Brass					
Power Usage at 12V AC Input, VA and Watts	.86W, 1.86VA		.86W, 1.86VA					
CRI	80+	80+	80+	80	+			
Voltage Range	9V-15V AC/DC with no los	9V-15V AC/DC with output	h no loss in	light	Coordinating Products			
Light Source		LED with 3-step binning for I to a Lumen Maintenance	1 integrated high-output LED with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.					
Delivered Lumens & Efficacy	2700K = 41 lm 2700K = 50 lm/W	3000K = 43 lm 3000K = 51 lm/W	2700K = 41 lm 2700K = 50 lm/W	3000K = 4 3000K = 5		LED Path Lights		
Wiring	72" of usable #18-2, SPT- Cable connectors supplie		72" of usable #18-2, SPT-1W leads. Cable connectors supplied. <b>15871</b> & <b>15843</b> , see page 44					
Notes	Includes stainless steel me and hardware.	ounting bracket	Features decorative light-leak pattern. Includes stainless steel mounting bracket and hardware. Brass will naturally patina over time.					
Dimensions Photometrics	3.5" 2.25"	1.75"	3.375	," 	ſ	2"		
Mounting Height	0' .5' 1' 2'	3' 4' 5'	0' .5'	1' 2' 3'	4'	5'		
6"	76.5 20 3 .2	.06 .05 .03		3 .2 .06		.03		
12"	13 10.63 4.8 1.1	.20 .08 .05	13 10.63 4			.05		
30"	3.2 3.4 2.6 1.2	.52 .24 .12	3.2 3.4 2	2.6 1.2 .52	2.24	.12		



Mini Deck Light					Half Moon						
	showr KT, Wł			Additional Finishes	BBR (s	<b>BBR</b> (shown), AZT, WHT					Additional Finishes
	30001 Pure				2700K - Warm Whit	е		000K ure W			
R 'R R 7R	15765 15765 15765 15765	BBR3 BKT3	OR OR	AZT	15764 AZT2 15764 BBR2 15764 WHT	27R	15	<b>764</b> E	AZT3( BBR3 WHT3	0R	
um or	<sup>-</sup> Cast B	rass (I	BBR)		Cast Alumi with satin-e				ass (E	BBR)	AZT
				ВКТ	.86W, 1.86V	A					
	80+			WHT	80+	80+			WHT		
C wit	h no los	s in lig	ght	Coordinating Products	9V-15V AC/	′DC w	ith no	o loss	s in lig	jht ou	utput
ng for	output color c n Maint	onsist	ency.		color consi	1 integrated high-output LED with 3- color consistency. Tested to a Lumer L70 of 40,000 hrs.					
ו n∕W	3000k 3000k			LED Path Lights 15815, 15827	2700K = 41 2700K = 50						43 lm 51 lm/W
	2, SPT- supplie		ads.	& <b>15826</b> , see pages 49-50	72" of usab Cable conn		,			ids.	
hite fi		s coor	dinatir	ket and ng white color ime.	Includes stainless steel mounting bracket and hardware. White finish has coordinating white color leads. Brass will naturally patina over time.						ng white color
3.	75"			2.25"	4"	4"				•	2"
.5'	1' 2'	3'	4'	5'	0'	.5'	1'	2'	3'	4'	5'
20 0.63	3.2 4.8 1.1	.06 .20	.05 .08	.03	29.7 8.3	14.8 6.4	1.6 2.6	.07 .45	.05 .08	.01 .02	.00 .01
	2.6 1.2	.52	.24	.12	2.1	2.05		.13	.3	.11	.09

	Mini Deck Light						Half Moon						
Finishes	BBR ( AZT, B					Additional Finishes	<b>BBR</b> (shown), AZT, WHT			Additional Finishes			
Color Temperature	2700K - Warm White		00K - re Whi	ite			2700K - Warm White	e		000K ure W			
Item Number and Finish	15765 AZT27R 15765 BBR27R 15765 BKT27R 15765 WHT27R	157 157	765 AZ 765 BB 765 BK 765 WH	3R30 (T30F	R R	AZT	15764 AZT2 15764 BBR2 15764 WHT2	27R	15	<b>764</b> E	AZT3( 3BR3 WHT3	0R	
Housing	Cast Aluminum o	or Cas	t Bras	s (BE	BR)		Cast Aluminum or Cast Brass (BBR) with satin-etched lens				AZT		
Power Usage at 12V AC Input, VA and Watts	.86W, 1.86VA					ВКТ	.86W, 1.86VA						
CRI	80+	80	80+			WHT	80+		80	)+			WHT
Voltage Range	9V-15V AC/DC with no loss in light output				Coordinating Products	9V-15V AC/DC with no loss in light output				utput			
Light Source	1 integrated high-output LED with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.					1 integrated high-output LED with 3-step binning f color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.							
Delivered Lumens & Efficacy	2700K = 41 lm 2700K = 50 lm/W	3000K = 43 lm / 3000K = 51 lm/W				LED Path Lights 15815. 15827	2700K = 41 lm 3000K = 2700K = 50 lm/W 3000K =						
Wiring	72" of usable #18-2, SPT-1W leads. Cable connectors supplied.				& <b>15826</b> , see pages 49-50	72" of usable #18-2, SPT-1W leads. Cable connectors supplied.							
Notes	Includes stainless steel mounting bracket and hardware. White finish has coordinating white color leads. Brass will naturally patina over time.					g white color	Includes stainless steel mounting bracket and hardware. White finish has coordinating white color leads. Brass will naturally patina over time.						
Dimensions Photometrics	2.375"	8.75"			2		4"	4"				0	2"
Mounting Height	0' .5'	1'	2'	3'	4'	5'	0'	.5'	1'	2'	3'	4'	5'
6"	76.5 20	3	.2 .0	06 .	.05 .	03	29.7	14.8	1.6	.07	.05	.01	.00
12"	13 10.63	4.8	1.1 .2	20 .	.08 .	05	8.3	6.4	2.6	.45	.08	.02	.01
30"	3.2 3.4	2.6	1.2 .!	52 .	.24	.12	2.1	2.05	1.55	.5	.3	.11	.09

# Deck & Patio

12V Integrated LED



	Fu	indamentals"	и	Four Corners					
Finishes		n), AZT, BBR, CO, SD	Additional Finishes						
Color Temperature	2700K - Warm White	3000K - Pure White	AZT	2700K - Warm White	3000K - Pure White				
ltem Number and Finish	16110 AZT27 16110 BBR27 16110 BKT27 16110 CO27 16110 GRY27 16110 SD27	16110 AZT30 16110 BBR30 16110 BKT30 16110 CO30 16110 GRY30 16110 SD30	BBR	16111 AZT27 16111 BKT27 16111 TZT27	16111 AZT30 16111 BKT30 16111 TZT30	ВКТ			
Housing	Cast Aluminum, Ca Copper (CO)	ast Brass (BBR) or	ВКТ	Cast Aluminum					
Power Usage at 12V AC Input, VA and Watts	.86W, 1.86VA		со	.86W, 1.86VA		IZI			
CRI	80+	80+		80+	80+	121			
Voltage Range	9V-15V AC/DC wit output	h no loss in light	SD	9V-15V AC/DC v output	Coordinating Product				
Light Source		output LED with color consistency. Maintenance L70	Coordinating Products	1 integrated hig 3-step binning f Tested to a Lum of 40,000 hrs.	4				
Delivered Lumens & Efficacy	2700K = 41 lm 2700K = 50 lm/W	3000K = 43 lm 3000K = 51 lm/W	LED Path Light	2700K = 41 lm 2700K = 50 lm/W	3000K = 43 lm 3000K = 51 lm/W	LED Path Light 16121 see page 54			
Wiring	72" of usable #18- Cable connectors	· ·	<b>15839, 16120</b> see page 45	72" of usable #18-2, SPT-1W leads. Cable connectors supplied.					
Notes	Copper and Brass v	vill naturally patina ove	er time						
Dimensions Photometrics	3.25"	1.94		2.3"	" 1.4	1"			
Mounting Height	0' .5'	1' 2' 3' 4'	5'	0' .5'	1' 2' 3' 4'	5'			
6" 12" 30"	76.5 20 13 10.63	3       .2       .06       .05       .         4.8       1.1       .20       .08       .	03 05 12	76.5 20	3     .2     .06     .05       3     4.8     1.1     .20     .08	.03 .05 .12			



	Overlay AZT (shown)				Perforated				
Finishes					AZT (show	Additional Finishes			
Color Temperature	2700K - Warm White		3000K - Pure W		2700K - Warm White	3000K - Pure White			
Item Number and Finish	16112 AZT27		<b>16112</b> A	ZT30	16113 AZT27 16113 CO27 16113 TZT27	<b>16113</b> AZT30 <b>16113</b> CO30 <b>16113</b> TZT30			
Housing	Cast Aluminum				Cast Aluminum	СО			
Power Usage at 12V AC Input, VA and Watts	.86W, 1.86VA				.86W, 1.86VA				
CRI	80+		80+		80+	80+	TZT		
Voltage Range				Coordinating Product	9V-15V AC/DC w output	Coordinating Product			
Light Source	1 integrated high-output LED with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.			1 integrated high with 3-step binn consistency. Tes Maintenance L7					
Delivered Lumens & Efficacy	2700K = 41 lm 2700K = 50 lm/W	3000K = 3000K =	43 lm 51 lm/W	LED Path Lights	2700K = 41 lm 2700K = 50 lm/W	3000K = 43 lm 3000K = 51 lm/W	LED Path Lights		
Wiring	72" of usable #18-2, SPT-1W leads. Cable connectors supplied.			<b>16122</b> see page 55	72" of usable #18 Cable connector	<b>16123</b> see page 55			
Notes	Features decorative light-leak pattern with TZT underlay			Features decorative light-leak pattern. Copper will naturally patina over time.					
Dimensions Photometrics	2.25"	.75"	2.0'		2.69"	4" 2.13			
Mounting Height	0' .5'	1' 2'	3' 4'	5'	0' .5'	1' 2' 3' 4'	5'		
6"	14.5 7.1	.24 .02	.01 .00	.00	14.3 8.6	.19 .02 .01 .00	.00		
12"	3.0 3.1	1.6 .08	.01 .01	.00	3.40 3.70	1.90 .05 .01 .00	.00		
30"	.8 .87	.78 .4	.15 .03	.01	0.89 1.03	0.95 .45 .09 .01	.00		







Brick Light (\	with Louvers)	Brick Light (without Louvers)					
AZT (	shown)	AZT (shown)					
2700K - Warm White	3000K - Pure White	2700K - Warm White	3000K - Pure White				
15773 AZT27R	15773 AZT30R	<b>15774</b> AZT27R	15774 AZT30R				
Cast Aluminum		Cast Aluminum					
1.72 W, 3.72 VA		1.72 W, 3.72 VA					
80+	80+	80+	80+				
9V-15V AC/DC with no los	s in light output	9V-15V AC/DC with no los	s in light output				
		2 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.					
2700K = 82 lm 2700K= 100 lm/W	3000K = 86 lm 3000K = 102 lm/W	2700K = 82 lm 2700K= 100 lm/W	3000K = 86 lm 3000K = 102 lm/W				
Wire connection must be r	made inside fixture	Wire connection must be	made inside fixture				
junction box. Designed to b wall during construction. L	be integrated into brick ED version is also usable in	Included stainless steel mounting hardware and junction box. Designed to be integrated into brick wall during construction. LED version is also usable in vertical risers. Incandescent version of fixture <b>15074</b> on page 162.					
3.25"	<b>8"</b> 2.375"	3.25" 4"	8" 2.375"				
9.5"	1	9.5"					
0' .5' 1' 2'	3' 4' 5'	0' .5' 1' 2'	3' 4' 5'				
			0.10 0.03 0.03				
	2700K - Warm White         15773 AZT27R         Cast Aluminum         1.72 W, 3.72 VA         80+         9V-15V AC/DC with no loss         2 integrated high-output LE color consistency. Tested to the L70 of 40,000 hrs.         2700K = 82 Im 2700K = 100 Im/W         Wire connection must be function box. Designed to B yunction construction. Let yunction box. Designed to B yunction for the set of the s	15773 AZT27R       15773 AZT30R         15773 AZT27R       15773 AZT30R         Cast Aluminum         1.72 W, 3.72 VA         80+       80+         80+         9V-15V AC/DC vith no loct with 3-step binning for color consistency. Tested with 3-step binning for color consistency. Tested with 3-step binning for 3000K = 86 lm 3000K = 102 lm/W         2700K = 82 lm 3000K = 86 lm 3000K = 102 lm/W         2700K = 82 lm 3000K = 86 lm 3000K = 102 lm/W         Vire connection must be step binning for color K         Included stainless steel with 3-step binning for color K         Step binning for colspan="4"         Step binning for colspan="4"         Step binning for colspan="4"         Step binning for colspan="4" <td b<="" colspan="4" step="" td=""><td>AZT (shown)       AZT (shown)         2700K - Warm White       3000K - Pure White       2700K - Warm White         15773 AZT27R       15773 AZT30R       15774 AZT27R         Cast Aluminum       Cast Aluminum       Cast Aluminum         1.72 W, 3.72 VA       80+       80+         9V-15V AC/DC with no los       80+       80+         21ntegrated high-output LEDs with 3-step binning for Color consistency. Tested to LUTO of 40,000 hrs.       2100K + 86 lm 2000K + 86 lm 2000K + 86 lm 2000K + 86 lm 2000K + 102 lm/W         2700K = 82 lm 2000K = 82 lm 2000K = 102 lm/W       2700K + 82 lm 2000K + 102 lm/W       2700K + 82 lm 2000K + 102 lm/W         2700K = 00 lm/W       3000K + 86 lm 2000K + 102 lm/W       2700K + 82 lm 2000K + 102 lm/W       2700K + 82 lm 2000K + 102 lm/W         Wire connection must betwee inside fixture       Wire connection must betwee inside fixture       Wire connection must betwee inside fixture         Included stainless steel mouting hardware and ly whild uning construction. LED version is also usable in yertical risers. Incandescer age 162.       Start 4 4 5 1         0' 5' 1' 2' 3' 4' 5' 0' 5' 1' 2' 3' 0' 1' 5' 1' 2' 3' 0' 1' 5' 1' 2' 3' 0' 1' 5' 1' 2' 3' 0' 1' 5' 1' 2' 0' 1' 1' 2' 3' 0' 1' 5' 1' 2' 0' 1' 1' 2' 0' 1' 1' 2' 0' 1' 1' 2' 0' 1' 1' 2' 0' 1' 1' 1' 1' 1' 1' 1' 1' 1' 1' 1' 1' 1'</td></td>	<td>AZT (shown)       AZT (shown)         2700K - Warm White       3000K - Pure White       2700K - Warm White         15773 AZT27R       15773 AZT30R       15774 AZT27R         Cast Aluminum       Cast Aluminum       Cast Aluminum         1.72 W, 3.72 VA       80+       80+         9V-15V AC/DC with no los       80+       80+         21ntegrated high-output LEDs with 3-step binning for Color consistency. Tested to LUTO of 40,000 hrs.       2100K + 86 lm 2000K + 86 lm 2000K + 86 lm 2000K + 86 lm 2000K + 102 lm/W         2700K = 82 lm 2000K = 82 lm 2000K = 102 lm/W       2700K + 82 lm 2000K + 102 lm/W       2700K + 82 lm 2000K + 102 lm/W         2700K = 00 lm/W       3000K + 86 lm 2000K + 102 lm/W       2700K + 82 lm 2000K + 102 lm/W       2700K + 82 lm 2000K + 102 lm/W         Wire connection must betwee inside fixture       Wire connection must betwee inside fixture       Wire connection must betwee inside fixture         Included stainless steel mouting hardware and ly whild uning construction. LED version is also usable in yertical risers. Incandescer age 162.       Start 4 4 5 1         0' 5' 1' 2' 3' 4' 5' 0' 5' 1' 2' 3' 0' 1' 5' 1' 2' 3' 0' 1' 5' 1' 2' 3' 0' 1' 5' 1' 2' 3' 0' 1' 5' 1' 2' 0' 1' 1' 2' 3' 0' 1' 5' 1' 2' 0' 1' 1' 2' 0' 1' 1' 2' 0' 1' 1' 2' 0' 1' 1' 2' 0' 1' 1' 1' 1' 1' 1' 1' 1' 1' 1' 1' 1' 1'</td>				AZT (shown)       AZT (shown)         2700K - Warm White       3000K - Pure White       2700K - Warm White         15773 AZT27R       15773 AZT30R       15774 AZT27R         Cast Aluminum       Cast Aluminum       Cast Aluminum         1.72 W, 3.72 VA       80+       80+         9V-15V AC/DC with no los       80+       80+         21ntegrated high-output LEDs with 3-step binning for Color consistency. Tested to LUTO of 40,000 hrs.       2100K + 86 lm 2000K + 86 lm 2000K + 86 lm 2000K + 86 lm 2000K + 102 lm/W         2700K = 82 lm 2000K = 82 lm 2000K = 102 lm/W       2700K + 82 lm 2000K + 102 lm/W       2700K + 82 lm 2000K + 102 lm/W         2700K = 00 lm/W       3000K + 86 lm 2000K + 102 lm/W       2700K + 82 lm 2000K + 102 lm/W       2700K + 82 lm 2000K + 102 lm/W         Wire connection must betwee inside fixture       Wire connection must betwee inside fixture       Wire connection must betwee inside fixture         Included stainless steel mouting hardware and ly whild uning construction. LED version is also usable in yertical risers. Incandescer age 162.       Start 4 4 5 1         0' 5' 1' 2' 3' 4' 5' 0' 5' 1' 2' 3' 0' 1' 5' 1' 2' 3' 0' 1' 5' 1' 2' 3' 0' 1' 5' 1' 2' 3' 0' 1' 5' 1' 2' 0' 1' 1' 2' 3' 0' 1' 5' 1' 2' 0' 1' 1' 2' 0' 1' 1' 2' 0' 1' 1' 2' 0' 1' 1' 2' 0' 1' 1' 1' 1' 1' 1' 1' 1' 1' 1' 1' 1' 1'



	Mini Step	ouvers)	Mini Step Light (without Louvers) AZT (shown)							
Finishes	<b>CO</b> (shown), AZT, BBR, BKT, WHT							Additional Finishes		
Color Temperature	2700K - Warm White	3000k Pure \	-		2700K - War	m White	3000K -	- Pure White		
Item Number and Finish	15782 AZT27R 15782 BBR27R 15782 BKT27R 15782 CO27R 15782 WHT27R	15782 15782 15782	AZT30R BBR30R BKT30R CO30R WHT30R	AZT	<b>15780</b> AZT27	'R	<b>15780</b> A	ZT30R		
Housing	Aluminum, Brass or Copper with white reflector. Zinc-plated steel housing.			BBR	Aluminum w housing.	Aluminum with white reflector. Zinc-plated steel housing.				
Power Usage at 12V AC Input, VA and Watts	.86W, 1.86VA			вкт	.86W, 1.86VA					
CRI	80+	80+		(and the second	80+		80+			
Voltage Range	9V-15V AC/DC wi output	th no loss	in light	WHT	9V-15V AC/DC with no loss in light output					
Light Source	1 integrated high- color consistency. L70 of 40,000 hrs		1 integrated high-output LED with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.							
Delivered Lumens & Efficacy	2700K = 41 lm 2700K = 50 lm/W				2700K = 41 lm 2700K = 50 lm			3000K = 43 lm 3000K = 51 lm/W		
Wiring	Wire connection	must be n	nade inside i	fixture	Wire connec	tion must be	made insic	le fixture		
Notes	Included stainless junction box. Desi steps. Copper and Incandescent vers	into outdoor atina over time.	Included stainless steel mounting hardware and junction box. Designed to be integrated into outdoor steps. Incandescent version of fixture <b>15070</b> on page 163.							
Dimensions	l		2.5" 3" 2"							
Photometrics		5" 🗸				5"	$\searrow$			
Mounting Height	0' .5'	1' 2'	3' 4'	5'	0'	.5' 1' 2'	3' 4'	5'		
6" 12"	.92 .38 15 .14	.56 0 .14 .03		0		1.20 0.40 0.0 0.40 0.29 0.1				





# LED Portable Lantern

Dimmable with Bluetooth® Speaker





	South Hope <sup>™</sup> LED	Lyndon <sup>™</sup> LED				
Finishes	RZ	ВКТ				
Color Temperature	3000K - Pure White	3000K - Pure White				
Item Number and Finish	49473 RZLED	49500 BKTLED				
Description	Rubbed Bronze finish with satin-etched, cased opal glass	Textured Black finish with etched seeded glass				
CRI	80+	80+				
Light Source/Wattage	7W	7W				
Lumens per Fixture	250 lm	250 lm				
Notes	• Dimmable. Rechargeable with included power adapter. Damp-rated for indoor or covered outdoor areas. 3W audio output with independent controls for sound and lighting. Controlled by any Bluetooth®- enabled device; 30-foot range. Rechargeable NiMH 3.6V battery. Charge from 0-100% in 5 hours. 5-hour battery life at maximum volume and 100% light. Coordi- nates with our South Hope™ decorative collection.	Dimmable. Rechargeable with included power adapter. Damp-rated for indoor or covered outdoor areas. 3W audio output with independent controls for sound and lighting. Controlled by any Bluetooth®- enabled device; 30-foot range. Rechargeable NiMH 3.6V battery. Charge from 0-100% in 5 hours. 5-hour battery life at maximum volume and 100% light. Coordinates with our Lyndon™ decorative collection.				
Dimensions	6"W x 19"H x 6"L	8"W x 19"H x 8"L				



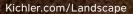


Full-function indicator buttons for audio control and light dimming.

Integrated speaker



#### Integrated LED Portable Lantern



# 12V Hardscape

### Integrated LED

Fully encapsulated design ensures the fixture will stand the test of time with no callback or replacement headaches. Ideal for adding safety and ambiance to patios, retaining walls, columns, fences, bridges, decks, steps, handrails, outdoor kitchens...you name it.



12V Integrated LED Hardscape, Deck, Step & Bench



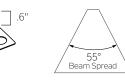
	1 LED Fixture (with Brack					ket) - 3" I	L		
Finishes	AZT (shown),	BBR	, CO, GRY	, SD,	WHT	Ad	lditiona	al Finishe	S
Color Temperature	2700K - Warm White		3000K - P	ure W	hite		BBR Bronzed Brass		
Item Number and Finish	15744 AZT27         15744 GR           15744 BBR27         15744 SD           15744 CO27         15744 WH	27	15744 AZT 15744 BBF 15744 CO3	230	<b>15744</b> GRY30 <b>15744</b> SD30 <b>15744</b> WHT30	Brass			
Housing	Cast Aluminum, Cast Brass	s (BBR	) or Copper	-Plate	d Brass (CO)	со			
Power Usage at 12V AC Input VA and Watts	.19W, .28VA						r		
CRI	80+ 80+				GRY Texture	ad		2	
Voltage Range	9V-15V AC/DC with no loss in output					Gray	eu	0.0	7
Light Source	1 integrated high-output LED with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.					SD			0
Delivered Lumens & Efficacy	2700K = 8.4 lm3000K = 8.6 lm2700K = 44 lm/W3000K = 45 lm/W					Texture Sand	ed		7
Wiring	70" of usable #18-2, SPT-1	W lead	s. Cable cor	inecto	ors supplied.	WHT			
Notes	Copper and brass will naturally patina over time. White finish has coordinating white color leads.					Texture White	ed	62	7
Accessories	15716 SS (Stainless Steel) - 1 LED Flat Mount Bracket Mounting hardware included.								
Dimensions Photometrics*	3.0"	6"		55° n Spread					
Mounting Height	0' 1'		2' 3		4'				
12"	8.65 1.1		.07 .0		.02				
24"	2.08 .98		.3 .0	6	.04				
36"	.95 .61		.3 .1	4	.06				

	3 LED Fixture (with Br					
Finishes	BBR	, WHT				
Color Temperature	2700K - Warm \	White	3	3000K - Pure White		
Item Number and Finish	15745 AZT27 15745 BBR27 15745 CO27	15745 GR 15745 SD2 15745 WH	27 1	5745 AZT30 5745 BBR30 5745 CO30	<b>15745</b> ( <b>15745</b> ( <b>15745</b> (	D30
Housing	Cast Aluminum	, Cast Brass	(BBR) or	Copper-Plat	ed Brass (	CO)
Power Usage at 12V AC Input VA and Watts	.75W, 1.3VA					
CRI	80+		8	0+		
Voltage Range	9V-15V AC/DC	with no loss	in light o	utput		
Light Source	3 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs					
Delivered Lumens & Efficacy	2700K = 34.7 lm 2700K = 46 lm/V	N	-	3000K = 44.5 lm 3000K = 59 lm/W		
Wiring	70" of usable #7	18-2, SPT-1V	V leads. C	able connec	tors suppli	ed.
Notes	Copper and bra has coordinatir			a over time. V	White finisł	٦
Accessories	<b>15717 SS</b> (Stainless Steel) - 3 LED Flat Mount Bracket Mounting hardware included.					
Dimensions		6.9"	.6		55° n Spread	
Photometrics*	2.9"	<i></i>		/ Dear		
Mounting Height	0	' 1'	2'	3'	4'	
12"	43		.31	.12	.07	
24"	10		1.29		.08	
36"	4.9	6 3.14	1.56	.67	.24	



### ket) - 6.9" L

со



### Additional Finishes

**AZT** Textured Architectural Bronze

Copper

GRY Textured Gray

SD Textured Sand

WHT Textured White



ey 6

12V Integrated LED Hardscape, Deck, Step & Bench



	6 LED Fixture (with Bracket) -					et) - 12.9" L	
Finishes	AZT	(shown), BE	BR, CO,	GRY, SD	, WHT	Additio	nal Finishes
Color Temperature	2700K - Warm V	Vhite	3000	0K - Pure W	Vhite		1
Item Number and Finish	15746 AZT27 15746 BBR27 15746 CO27	<b>15746</b> GRY27 <b>15746</b> SD27 <b>15746</b> WHT27	1574	6 AZT30 6 BBR30 6 CO30	<b>15746</b> GRY30 <b>15746</b> SD30 <b>15746</b> WHT30	BBR Bronzed Brass	
Housing	Cast Aluminum,	Cast Brass (Bl	со				
Power Usage at 12V AC Input VA and Watts	1.4W, 2.4VA		Copper				
CRI	80+ 80+					GRY	
Voltage Range	9V-15V AC/DC	with no loss in	Textured Gray	2 mg			
Light Source	6 integrated hig consistency. Te		SD				
Delivered Lumens & Efficacy	2700K = 69.5 lm 3000K = 88 lm 2700K = 49 lm/W 3000K = 63 lm/W					Textured Sand	in the second
Wiring	70" of usable #1	8-2, SPT-1W le	WHT				
Notes	Copper and brain has coordinating		Textured White				
Accessories	<b>15718 SS</b> (Stainle Mounting hardv		ED Flat N	Iount Brac	ket	211	6
Dimensions	T Pie	12.9"	.6"	55 Beam S	3° poread		
Photometrics*	2.9"			<i></i>	<u>`</u>		
Mounting Height	0'		2'	3'	4'		
12" 24"	65.1		.6 2.72	.22 .48	.14 .24		
36"	9.10		2.72	.48 1	.24 .3		

## -

		9 LE	D Fix	ture (v	vith Bracke	et) - 18.9" L	
Finishes	GRY	(shown), AZ	T, BBR	, CO, SD	, WHT	Additic	ona
Color Temperature	2700K - Warm	White	3000	)K - Pure V	AZT		
Item Number and Finish	15756 AZT27 15756 BBR27 15756 CO27	<b>15756</b> GRY27 <b>15756</b> SD27 <b>15756</b> WHT27	1575	6 AZT30 6 BBR30 6 CO30	15756 GRY30 15756 SD30 15756 WHT30	Textured Architectural Bronze	4
Housing	Cast Aluminum	BBR	1				
Power Usage at 12V AC Input VA and Watts	2.2W, 3.7VA Brass						
CRI	80+		80+			со	
Voltage Range	9V-15V AC/DC	with no loss in l	ight outp	out		Copper	
Light Source	9 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.						1
Delivered Lumens & Efficacy	2700K = 104.2 lm 2700K = 47 lm/W			)K = 132 lm )K = 60 lm,	Textured Sand		
Wiring	70" of usable #	18-2, SPT-1W lea	ads. Wire	connecto	rs supplied.	WHT	4
Notes		ass will naturally ng white color le		ver time. V	Vhite finish	Textured White	
Accessories	<b>15719 SS</b> (Stain Mounting hard	less Steel) - 9 LE ware included.	ED Flat M	lount Brac	ket		
Dimensions	2.9"	18.9"	0		.6"	Pad	
Photometrics*	2.9 [ \9						
Mounting Height	C		2'	3'	4'		
12" 24"	26		1.08 3.81	.36 .91	.21 .39		
36"	13.		4.55	.91	.39		
				-			



### nal Finishes

12V Integrated LED Hardscape, Deck, Step & Bench



### 1 LED Fixture (without Bracket) - 3" L

Finishes	<b>BBR</b> (shown), AZ	T, CO, GRY, SE	D, WHT	Additional	Finishes		
Color Temperature	3000K - Pure White			AZT	0		
Item Number and Finish	15734 AZT30         15734 C           15734 BBR30         15734 G		<b>734</b> SD30 <b>734</b> WHT30	Textured Architectural Bronze			
Housing	Cast Aluminum, Cast Brass (BB	R) or Copper-Pla	ted Brass (CO)	со			
Power Usage at 12V AC Input VA and Watts	.19W, .28VA	Copper	0-2-				
CRI	80+	<b>GRY</b> Textured Gray					
Voltage Range	9V-15V AC/DC with no loss in lig	SD	- L				
Light Source	1 integrated high-output LED w consistency. Tested to a Lumen	Textured Sand					
Delivered Lumens & Efficacy	3000K = 8.6 lm 3000K = 45 lm/W	<b>WHT</b> Textured White					
Wiring	70" of usable #18-2, SPT-1W leads. Wire connectors supplied. White finish has coordinating white col						
Notes	Stainless steel mounting screws included. Not for use with electronic transformers. Copper and brass will naturally patina over time.						
Accessories	15716 SS (Stainless Steel) - 1 LED Flat Mount Bracket Mounting hardware included.						
Dimensions	3.0"	55°					
Photometrics	.00	/ Beam Spre	ead \				
Mounting Height	0' 1'	2' 3'	4'				
12"	8.65 1.1	.07 .03	.02				
24"	2.08 .98	.3 .06	.04				

.95

.61

.30

.14

.06

	1		
	1	X	
-			
		0	

Finishes	W	<b>/HT</b> (sh	own), A	ZT, BBR	, CO, G	<b>WHT</b> (shown), AZT, BBR, CO, GRY, SD						
Color Temperature	3000K - Pure White											
Item Number and Finish	15735 AZT30         15735 CO30         15735 SD3           15735 BBR30         15735 GRY30         15735 WHT											
Housing	Cast Aluminum, Cast Brass (BBR) or Copper-Plated Brass											
Power Usage at 12V AC Input VA and Watts	.75W, 1.3VA											
CRI	80+											
Voltage Range	9V-15V AC/DC with no loss in light output											
Light Source	3 integrated high-output LEDs with 3-step binning for col consistency. Tested to a Lumen Maintenance L70 of 40,00											
Delivered Lumens & Efficacy	3000K = 44.5 lm 3000K = 59 lm/W											
Wiring	70" of usabl	e #18-2,	SPT-1W le	eads. Wire	connect	ors suppl						
Notes	Stainless ste	el masor	nry bracke	t and mour	nting scre	ews incluc						
Accessories	<b>15717 SS</b> (Stainless Steel) - 3 LED Flat Mount Bracket Mounting hardware included.											
Dimensions	66"	6.9"		.6"	55°							
Photometrics	.00			L	Beam Spro	ead \						
Mounting Height		0'	1'	2'	3'	4'						
12"		43.7	4.89	.31	.12	.07						
24"		10.7	4.87	1.29	.12	.08						
36"		4.96	3.14	1.56	.67	.24						

36"



### 3 LED Fixture (without Bracket) - 6.9" L

30 <del>1</del>T30

ss (CO)

olor 000 hrs. Additional Finishes

AZT Textured Architectural Bronze

BBR Bronzed Brass

CO Copper

GRY Textured Gray

SD Textured Sand



6.

plied. White finish has coordinating white color leads.

uded. Copper and brass will naturally patina over time.

100 12



12V Integrated LED Hardscape, Deck, Step & Bench



### 6 LED Fixture (without Bracket) - 12.9" L

.24

.3

.48

1

Finishes	<b>SD</b> (show	n), AZT, BBR	, CO, GF	Y, WHT	Addition	al Finishes	
Color Temperature	3000K - Pure White AZT Textured						
Item Number and Finish	15736 AZT30 15736 BBR30	<b>15736</b> CO30 <b>15736</b> GRY30		5736 SD30 5736 WHT30	Architectural Bronze	9	
Housing	Aluminum, Brass (BBI	R) or Copper-Pla	ated Brass	(CO)	<b>BBR</b> Bronzed Brass		
Power Usage at 12V AC Input VA and Watts	1.4W, 2.4VA		<b>CO</b> Copper				
CRI	80+		<b>GRY</b> Textured Grau	27			
Voltage Range	9V-15V AC/DC with n	o loss in light ou	SD	· -			
Light Source	6 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.						
Delivered Lumens & Efficacy	3000K = 88 lm 3000K = 61 lm/W				WHT Textured White		
Wiring	70" of usable #18-2, S	PT-1W leads. Wii	re connect	ors supplied. White	finish has coordinatii	ng white color leads.	
Notes	Stainless steel masonry bracket and mounting screws included. Copper and brass will naturally patina over time.						
Accessories	<b>15718 SS</b> (Stainless Sto Mounting hardware in		Mount Bra	acket		0	
Dimensions	12.9" .66"		.6"	55° Beam Spread			
Photometrics	.66"			<u> </u>			
Mounting Height	0'	1' 2'	3'	4'			
12"	65.1	9.74 .6	.22	.14			

2.72

2.74

19.64

9.16

9.15

5.82

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al	0				
ass					
ay					
nd					
nite	· · · · ·				
linatin	g white color leads.				



CRI

Mounting Height

12"

24"

36"

Voltage Range	9V-15V AC/DC with no loss in light output
Light Source	9 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.
Delivered Lumens & Efficacy	3000K = 132 lm 3000K = 62 lm/W
Wiring	70" of usable #18-2, SPT-1W leads. Wire connectors supplied. Whi
Notes	Stainless steel masonry bracket and mounting screws included. Cop
Accessories	<b>15719 SS</b> (Stainless Steel) - 9 LED Flat Mount Bracket Mounting hardware included.
Dimensions	18.9"
Photometrics	.66"

0

80.4

26.81

13.51

12

13.13

8.43

24"

36"



### 9 LED Fixture (without Bracket) - 18.9" L

### AZT (shown), BBR, CO, GRY, SD, WHT

**15755** CO30 15755 GRY30 15755 SD30 15755 WHT30

Bronze BBR Bronzed Brass

**Additional Finishes** 

CO Copper

AZT

Textured Architectural

GRY Textured Gray

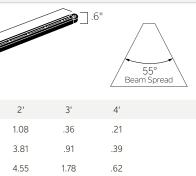
SD Textured Sand

WHT Textured White



ads. Wire connectors supplied. White finish has coordinating white color leads.

and mounting screws included. Copper and brass will naturally patina over time.



# Low-Voltage Transformers

TIMER MODULE RECEPTACLE

COM TAP1 TAP2 TAP3 TAP #1 12V 13V 14V 15V

2000

Power Supply for Landscape Lighting

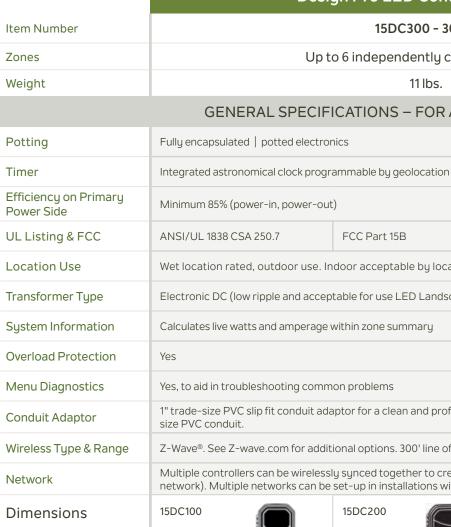
Powerful and reliable options that can drive any professional landscape lighting system from a simple lighting application to a sophisticated design.



## Design Pro LED Controller

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	Design Pro LED Controller - 100W	Design Pro LED Controller - 200W					
Item Number	15DC100 - 100W	15DC200 - 200W					
Zones	Up to 2 independently controlled zones	Up to 4 independently controlled zones					
Weight	5.5 lbs. 8 lbs.						
	GENERAL SPECIFICATIONS	- FOR ALL 3 CONTROLLERS					
Description         All-in-one power supply and controller provides personalization, versatility and efficiencies to a professional LED installation.							
Housing & Finish	UV stable and weather-proof polymeric material with textured gray finish. Non-corrosive high grade stainless steel components.						
AC or DC & Output Voltage	15V constant DC						
Input Voltage	108-132AC 50-60 Hz						
Minimum Load & Fixture Loading	None. Use Watts (not VA) to load fixtures on controller.						
Grounded Cord Type & Length	63" of usable #18-3 SJTW cord	63" of usable #18-3 SJTW cord					
Battery Back-up	Saves date and time only. All other settings saved to no	prvolatile memory.					
Terminal Lugs	Can fit up to 8, #16 GA per tap						
Breaker Protection Type/Amps.	Electronically controlled 7 Amps.						
Thermal Protection	Yes						
Surge Protection	Primary surge protection protects against surges goin	g down the line, unlike traditional transformers.					
Event Schedules	Up to 12 programmable schedules						
Vandal Resistant	Yes, with integrated locking tab – lock not included						
Temperature Range	Operates at -40° F to 140° F (-40° C to 60° C)	Operates at -40° F to 140° F (-40° C to 60° C)					
Mounting Hardware	Included. Integrated easy-positionable keyhole slot mounts allow for a simple installation.						





Height = 13.73"

Depth = 4.46"

Width = 8.62"



### Design Pro LED Controller - 300W

15DC300 - 300W

### Up to 6 independently controlled zones

11 lbs.

### GENERAL SPECIFICATIONS - FOR ALL 3 CONTROLLERS (cont.)

FCC Part 15B

Wet location rated, outdoor use. Indoor acceptable by local code.

Electronic DC (low ripple and acceptable for use LED Landscape fixtures)

1" trade-size PVC slip fit conduit adaptor for a clean and professional installation. Can also accept 1.25" trade

Z-Wave®. See Z-wave.com for additional options. 300' line of sight range. Vera Wireless Gateway compatable.

Multiple controllers can be wirelessly synced together to create a network (maximum 4 controllers in 1 network). Multiple networks can be set-up in installations with more than 4 controllers.

15DC200

Height = 13.71 Depth = 4.46" Width = 13.51"



### 15DC300

Height = 13.71" Depth = 4.46" Width = 13.51"



Z-Wave is a registered trademark of Sigma Design and its subsidiaries in the United States and other countries. For recommended third party accessories, please contact Kichler for a tested list.



### Design Pro LED Controller



	Remote	Range Extender	#14-2 Wire #16-2 Wire	
Item Number	16080 BK	16081 WH	16088 BK	16089 BK
Description	Allows the user to independently control lighting zones based on pre-defined programs. This enables the homeowner to temporarily override schedules on individual zones by turning the lights on/off at any given time. Can also be used as a secondary programmer. Compatible with Vera Plus and Edge Gateways.	Allows for wireless range extension (additional 300') between wireless devices (ex: power supply to power supply). Plugs into any standard 120V outlet (dry location). Compatible with Vera Plus and Edge Gateways.	To be used only v DesignPro LED (	ow be used sign Pro LED ble in 250' EZ ded convenience. with the Kichler Controller. See ge drop calculator
Input Voltage	Internal lithium battery charges via provided USB cable	108-132AC 50-60 Hz		
UL Listing		UL listed for dry location; must be used indoors or put in an approved enclosure	UL listed for 12V applications. UV insulated. For dir	stabilized PVC
Wireless Type	Z-Wave <sup>®</sup> . See Z-Wave.com for additional options.	Z-Wave <sup>®</sup> . See Z-Wave.com for additional options.		
Notes	Add/remove devices, create scenes and control an entire Z-Wave® network with one remote. 100' indoor and 300' outdoor range.	Amplifies Z-Wave® wireless signals. Ranges differ depending on line of sight and interior building materials used. 100' indoor range.	Use proper direc connectors with cable combinatio	the approved

Z-Wave is a registered trademark of Sigma Design and its subsidiaries in the United States and other countries. For recommended third party accessories, please contact Kichler for a tested list.

vera

	Vera <sup>™</sup> Edge	Vera <sup>™</sup> Plus
Item Number	<b>16082</b> BK	16083 BK
Number of Controllable Devices	50-75	75-125
Communication Protocols	2	4
Use Smartphone, Tablet or Computer	Yes	Yes
Wi-Fi Compatible	802.11 b/g/n (Wi-Fi or hardwire ethernet connection)	802.11 a/b/g/n/ac (Requires hardwire ethernet connection)
Z-Wave <sup>®</sup> Plus	Yes - for use with Design Pro LED Controllers	Yes - for use with Design Pro LED Controllers
ZigBee Wireless Connectivity	No	Yes
Bluetooth® Wireless Connectivity	No	Yes
Backup Battery*	Optional/External	Optional/External
Built-in 3G Cellular Backup*	Optional/External	Optional/External

### **HOW IT WORKS**





Mobile Device

Download the Vera™ app to any smartphone, tablet or computer. Plug in the Vera™ gateway and link to the home's Wi-Fi system.

Sync







The Vera™ app will locate the Kichler Pro LED Controller and link it wirelessly to the Vera™ gateway.



### **Take Control**

Using a Wi-Fi or cellular connection, homeowners can confidently control their landscape lighting anytime and anywhere. Secure cloud servers, powered by MIOS, safely broker the connection between the homeowner and their home.

1236

Includes mounting hardware. Dedicated wire loop for

testing primary voltage. 15556WH Digital Timer 15557BK Mechanical Timer

15511BK Synchronizer

15565BK Standard Photocell

21" L x 6.75" W x 6" D - 900W 17.5" L x 8" W x 7" D - 1200W

15534BK 10' Remote Photocell

**19" L x 5.5" W x 5.75" D** - 100W-300W **19" L x 6.75" W x 5.75" D** - 600W

Professional Series Contractor Series

Notes

Accessories

Dimensions

### \*\*\*\*\*

**G** The stainless steel transformer not only looks great and installs in under 10min but also has a great warranty. Highly recommend by myself and many others in my profession

Polermnky | Edwardsville,IL | 15PR300SS



Includes mounting hardware

15565BK Standard Photocell

15534BK 10' Remote Photocell

15556WH Digital Timer 15557BK Mechanical Timer

15511BK Synchronizer

16.5" L x 5.5" W x 5.75" D



CONTRACTOR OF CONTRACTOR

	Image: Notesting of the second seco	Contractor Series CS – 75W
Finish	#304 Stainless Steel	#304 Stainless Steel
ltem Number with Wattage	15PRD600SS - 600W	<b>15CS75SS</b> - 75W
Input Voltage	120V	120V
Output Multi-Taps	12/13/14/15 Volts. 2 separate sets of multi-tap output with angled terminal blocks for easy wire input.	12/15 Volts
Core and Coil	High-efficiency toroid core and coil configuration	High-efficiency fully encapsulated toroidal
Door Style	Easy magnetic flip-and-stay-open door	Removable front plate with two locking screws
Easy-Connect Terminal Lug Capacity	Up to 8, #10-gauge wires or up to 10, #12-gauge wires per tap	Up to 14, #16-gauge wires per tap
Secondary Side Protection	Magnetic breaker	Magnetic breaker
Timer/Photocell	Compatible with plug-in timers and photocells. Two timer outlets for independent zone control of 2 independent lighting zones.	Integrated mechanical timer; plug-in photocell compatible
Cord	6' of usable #16-3 SJTW cord	6' of usable #18-3 SJTW cord
Conduit Knockouts	4 pre-punched field knockouts sized for .5" or .75" conduit (trade sizes) and one large center 1.75" inlet	2 pre-punched field knockouts sized for .5" or .75" conduit (trade sizes)
Notes	Includes mounting hardware. Comprised of 2-300W independently controlled transformers.	Includes mounting hardware. Dedicated wire loop for testing primary voltage. Department of Energy certified. Safety listings: cUL 1838, CSA 22.2.
Accessories	15556WH Digital Timer 15557BK Mechanical Timer 15565BK Standard Photocell 15534BK 10' Remote Photocell 15511BK Synchronizer	15556WH Digital Timer 15557BK Mechanical Timer 15565BK Standard Photocell 15534BK 10' Remote Photocell 15511BK Synchronizer
Dimensions	21.25" L x 6.75" W x 5.75" D	8.23" L x 3.67" W x 4.59" D

Low-Voltage Transformers

Contractor Series

	Contractor Series CS – 150W	Contractor Series CS – 300W
Finish	#304 Stainless Steel	#304 Stainless Steel
ltem Number with Wattage	<b>15CS150SS</b> - 150W	<b>15CS300SS</b> -300W
Input Voltage	120V	120V
Output Multi-Taps	12/13/14/15 Volts	12/13/14/15 Volts
Core and Coil	High-efficiency fully encapsulated toroidal	High-efficiency fully encapsulated toroidal
Door Style	Fully removable hinge-style door with buckle latch	Fully removable hinge-style door with buckle latch
Easy-Connect Terminal Lug Capacity	Up to 10, #12-gauge wires per tap	Up to 10, #12-gauge wires per tap
Secondary Side Protection	Magnetic breaker	Magnetic breaker
Timer/Photocell	Compatible with plug-in timer and photocells	Compatible with plug-in timer and photocells
Cord	6' of usable #18-3 SJTW cord	6' of usable #18-3 SJTW cord
Conduit Knockouts	4 pre-punched field knockouts sized for .5" or .75" conduit (trade sizes) and one large center 1.75" inlet	4 pre-punched field knockouts sized for .5" or .75" conduit (trade sizes) and one large center 1.75" inlet
Notes	Includes mounting hardware. Dedicated wire loop for testing primary voltage. Department of Energy certified. Safety listings: cUL 1838, CSA 22.2.	Includes mounting hardware. Dedicated wire loop for testing primary voltage. Department of Energy certified. Safety listings: cUL 1838, CSA 22.2.
Accessories	15556WH Digital Timer 15557BK Mechanical Timer 15565BK Standard Photocell 15534BK 10' Remote Photocell 15511BK Synchronizer	15556WH Digital Timer 15557BK Mechanical Timer 15565BK Standard Photocell 15534BK 10' Remote Photocell 15511BK Synchronizer
Dimensions	13" L x 5.55" W x 5.51" D	13" L x 5.55" W x 5.51" D



	Contractor Series CS – 600W	Contractor Series CS – 900W
Finish	#304 Stainless Steel	#304 Stainless Steel
ltem Number with Wattage	15CS600SS - 600W	<b>15CS900SS</b> - 900W
Input Voltage	120V	120V
Output Multi-Taps	12/13/14/15 Volts	12/13/14/15 Volts
Core and Coil	High-efficiency fully encapsulated toroidal	High-efficiency fully encapsulated toroidal
Door Style	Fully removable hinge-style door with buckle latch	Fully removable hinge-style door with buckle latch
Easy-Connect Terminal Lug Capacity	Up to 10, #12-gauge wires per tap	Up to 10, #12-gauge wires per tap
Secondary Side Protection	Magnetic breaker	Magnetic breaker
Timer/Photocell	Compatible with plug-in timer and photocells	Compatible with plug-in timer and photocells
Cord	6' of usable #18-3 SJTW cord	6' of usable #18-3 SJTW cord
Conduit Knockouts	4 pre-punched field knockouts sized for .5" or .75" conduit (trade sizes) and one large center 1.75" inlet	8 pre-punched field knockouts sized for .5" or .75" conduit (trade sizes) and one large center 1.75" inlet
Notes	Includes mounting hardware. Dedicated wire loop for testing primary voltage. Department of Energy certified. Safety listings: cUL 1838, CSA 22.2.	Includes mounting hardware. Dedicated wire loop for testing primary voltage. Department of Energy certified. Safety listings: cUL 1838, CSA 22.2.
Accessories	15556WH Digital Timer 15557BK Mechanical Timer 15565BK Standard Photocell 15534BK 10' Remote Photocell 15511BK Synchronizer	15556WH Digital Timer 15557BK Mechanical Timer 15565BK Standard Photocell 15534BK 10' Remote Photocell 15511BK Synchronizer
Dimensions	14.3" L x 6.65" W x 6.1" D	15.6" L x 7.8" W x 7.16" D

Contractor Series Plus Series Manual Series



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	Contractor Series CS – 1200W	<b>Plus Series PL</b> – 100W-900W		
Finish	#304 Stainless Steel	Painted Steel with AZT finish		
Item Number with Wattage	<b>15CS1200SS</b> - 1200W	15PL100AZT - 100W         15PL600AZT - 600W           15PL200AZT - 200W         15PL900AZT - 900W           15PL300AZT - 300W         15PL900AZT - 900W		
Input Voltage	120V	120V		
Output Multi-Taps	12/13/14/15 Volts. 12V Single Tap with High/Low Switch.	12/13/14/15 Volts		
Core and Coil	High-efficiency fully encapsulated toroidal	High-efficiency E.I. core and coil configuration High-efficiency toroid core and coil (600W-900W)		
Door Style	Fully removable hinge-style door with buckle latch	Easy magnetic flip-and-stay-open door		
Easy-Connect Terminal Lug Capacity	Up to 10, #12-gauge wires per tap	Up to 8, #10-gauge wires or up to 10, #12-gauge wires per tap		
Secondary Side Protection	Magnetic breaker	Magnetic breaker		
Timer/Photocell	Compatible with plug-in timer and photocells	Compatible with plug-in timer and plug-in photocells		
Cord	6' of usable #18-3 SJTW cord	6' of usable #18-3 SJTW cord (100W-300W) 6' of usable #16-3 SJTW cord (600W-900W)		
Conduit Knockouts	8 pre-punched field knockouts sized for .5" or .75" conduit (trade sizes) and one large center 1.75" inlet	4 pre-punched field knockouts sized for .5" or .75" conduit (trade sizes) and one large center 1.75" inlet		
Notes	Includes mounting hardware. Dedicated wire loop for testing primary voltage. Department of Energy certified. Safety listings: cUL 1838, CSA 22.2.	Includes mounting hardware		
Accessories	15556WH Digital Timer 15557BK Mechanical Timer 15565BK Standard Photocell 15534BK 10' Remote Photocell 15511BK Synchronizer	15556WH Digital Timer 15557BK Mechanical Timer 15565BK Standard Photocell 15534BK 10' Remote Photocell 15511BK Synchronizer		
Dimensions	16.85" L x 8.3" W x 8.27" D	19" L x 5.5" W x 5.75" D - 100W-300W 19" L x 6.75" W x 5.75" D - 600W 21" L x 6.75" W x 6" D - 900W		



P	lus	Se	erie	es	Ρl	

Finish	AZT
Item Number with Wattage	<b>15PL75AZT</b> - 75W
Input Voltage	120V
Output Multi-Taps	15 Volts
Core and Coil	High-efficiency fully encapsulate
Door Style	Easy magnetic flip-and-stay-ope
Easy-Connect Terminal Lug Capacity	Up to 8, #10-gauge wires or up to 10, #12-gauge wires per tap
Secondary Side Protection	Magnetic breaker
Timer/Photocell	Compatible with plug-in timer a plug-in photocells
Cord	6' of usable #18-3 SJTW cord
Conduit Knockouts	4 pre-punched field knockouts s conduit (trade sizes) and one lar
Notes	Includes mounting hardware
Accessories	15556WH Digital Timer 15557BK Mechanical Timer 15565BK Standard Photocell 15534BK 10' Remote Photocell 15511BK Synchronizer
Dimensions	16.5" L x 5.5" W x 5.75" D



Low-Voltage Transformers

- 600W

- 200W

Economy Series In-Ground

### ACCESSORIES for LOW-VOLTAGE TRANSFORMERS

Along with a wide variety of transformers, Kichler<sup>®</sup> offers a full compliment of control accessories. Used separately or in tandem; light may be controlled as desired.

Photocells allow the intensity of daylight to define transformer operation. Timers can be used for more exacting requirements.



15557 BK Mechanical Transformer Timer

Plug-in timer suitable for outdoor temperatures when enclosed in an outdoor transformer enclosure. For use in all Professional Series, Contractor Series and Plus Series transformers.



15556 WH

Digital Transformer Timer

Battery backup included. Straight-forward programming and easy day light savings change over. For use with all Professional Series, Contractor Series and Plus Series transformers.



Plug-in Transformer Remote Photocell

Plug-in photocell with 10' cord is for use with all Professional Series, Contractor Series and Plus Series transformers.

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	Economy Series E – 60W-120W		<b>In-Ground</b> – 100W-600W
Finish		вк	Black All-Weather Composite
ltem Number with Wattage	<b>15E60BK</b> - 60W	<b>15E120BK</b> - 120W	15IGT100 - 100W 15IGT300 - 300W 15IGT600 - 600W
Input Voltage	120V		120V
Output Multi-Taps	12/13/14/15 Volts		12/13/14/15 Volts (100W-600W). Flying lead secondary side output wires.
Core and Coil	High-efficiency E.I. core a	and coil configuration	High-efficiency toroid core and coil configuration
Door Style	Flip-up polycarbonate se	e-through door	
Secondary Side Protection	Thermal reset breaker		Magnetic breaker
Timer/Photocell	Integral timer and photo	cell with on/off presets	For use with remote timers, photocells or other control system
Cord	6' of usable #18-2 SJTW	cord	no cord (N/A)
Notes			Color-coded, flying wire, lead multi-taps. 1.25" conduit knockouts.
Accessories			15608AZ Well Concrete Kit
Dimensions	6.75" L x 3.75" W x 3.75" D		13.25" Dia., 9.625" L



Plug-in Transformer Photocell

Plug-in photocell is for use with all Professional Series, Contractor Series and Plus Series transformers.





**15511 BK** Synchronizer Device

Synchronize all transformers used in a landscape setting so they turn on andoff at the same time. Jumper wire (not included) should be a minimum of 24 gauge.

Comparison Chart

			PRO	OFES	SIO	NAL				СС	NTR	ACT	OR				PL	US		
	15PR75 SS	15PR100 SS	15PR200 SS	15PR300 SS	15PRD600 SS 2-in-1	15PR600 SS	15PR900 SS	15PR1200 SS	15CS75 SS	15CS150 SS	15CS300 SS	15CS600 SS	15CS900 SS	15CS1200 SS	15PL75 AZT	15PL100 AZT	15PL200 AZT	15PL300 AZT	15PL600 AZT	15PL900 AZT
<ul><li>= Included</li><li>= Optional</li></ul>	16.5"× 5.5"× 5.75"	19"× 5.5"× 5.75"	19"x 5.5"x 5.75"	19"x 5.5"x 5.75"	21.25"× 6.75"× 5.75"	19"× 6.75"× 5.75"	21"× 6.75"× 6"	17.5"× 8"× 7"	8.23" x 3.67" x 4.59"	13" × 5.55" × 5.51"	13" × 5.55" × 5.51"	14.3" × 6.65" × 6.1"	15.6" × 7.8" × 7.16"	16.85" x 8.3" x 8.27"	16.5"x 5.5"x 5.75"	19"x 5.5"x 5.75"	19"x 5.5"x 5.75"	19"x 5.5"x 5.75"	19"× 6.75"× 5.75"	21"x 6.75"x 6"
Wattage (VA)	75	100	200	300	600	600	006	1200	75	150	300	600	006	1200	75	100	200	300	600	900
Automatic Timer	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Photoelectric Eye	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
High-Low Switch																				
On-Off-Auto Switch																				
Multi-Tap Connection 12V, 13V, 15V																				
Multi-Tap Connection 12V, 13V, 14V, 15V Single-Tap Connection 15V	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•
Thermal Cut-Off on Primary Side		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Thermal Reset Breaker on Secondary Side																				
Magnetic Breaker on Secondary Side	•	•	•	•	•	•	•	•	٠	•	•	•	•	•	•	•	•	•	•	•
Easy-Connect Terminal Blocks	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•
6', 3-Wire #14-GA SJTW Cord								•												
6', 3-Wire #16-3 SJTW Cord					•	•	•												•	•
6', 3-Wire #18-3 SJTW Cord	•	•	•	•					٠	•	•	•	•	•	•	•	•	•		
6', 2-Wire #18-2 SJTW Cord																				
Includes Mounting Hardware	•	•	•	•	•	•	•	•	٠	•	•	•	•	•	•	•	•	•	•	•
Textured Architectural Bronze or Powder Coat Finish															•	•	•	•	•	•
#304 Grade Stainless Steel	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
Composite Housing																				
High-Efficiency E.I. Core and Coil Configuration		•	•	•		•										•	•	•	•	
High-Efficiency Toroid Core and Coil Configuration	•				•		•	•	•	•	•	•	•	•	•					•

	MANUAL			EC	ECO		IN-GROUN		
	15M100 AZT	15M200 AZT	15M300 AZT	15M600 AZT	15E60 BK	15E120 BK	15IGT100	15IGT300	15IGT600
	8"x 3.25"x 3"	13.25"x 3.5"x 4"	13.5"x 4.5"x 4"	14.25"x 5.5"x 5"	6.75"x 3.75"x 3.75"	6.75"x 3.75"x 3.75"	9.625"x 13.25" dia.	9.625"x 13.25" dia.	9.625"x 13.25" dia.
Wattage (VA)	100	200	300	600	60	120	100	200	300
Automatic Timer					•	•	•	•	•
Photoelectric Eye					•	•	•	•	•
High-Low Switch					•	•			
On-Off-Auto Switch					•	•			
Multi-Tap Connection 12V, 13V, 15V			•	•					
Multi-Tap Connection 12V, 13V, 14V, 15V							•	•	•
Single-Tap Connection 15V									
Thermal Cut-Off on Primary Side	•	•	•	•	•	•	•	•	•
Thermal Reset Breaker on Secondary Side	•	•			•	•			
Magnetic Breaker on Secondary Side			•	•			•	•	•
Easy-Connect Terminal Blocks		•	•	•					
6', 3-Wire #14-GA SJTW Cord									
6', 3-Wire #16-3 SJTW Cord				•					
6', 3-Wire #18-3 SJTW Cord	•	•	•						
6', 2-Wire #18-2 SJTW Cord					•	•			
Includes Mounting Hardware									
Textured Architectural Bronze or Powder Coat Finish	•	•	•	•					
#304 Grade Stainless Steel									
Composite Housing					•	•	•	•	•
High-Efficiency E.I. Core and Coil Configuration	•	•	•	•	•	•			
High-Efficiency Toroid Core and Coil Configuration							•	•	•

For warranty information, visit **Kichler.com/Warranty**.

600W, 900W and 1200W Transformer models are manufactured in intervals of 300W (VA) circuits.

National Electric Code and Underwriters Laboratories require that wiring, where concealed or extended through a building wall, must be enclosed in conduit. All transformers are for use with outdoor low-voltage lighting.

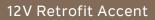
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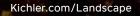
All Kichler transformers are listed or certified to ANSI/UL 1838. The listing/certification agency may vary.

Retrofit with LED Lamps

When an existing system needs an update or upgrade, Kichler offers a variety of LED or incandescent accent lights that deliver professional results.







\*\*\*\*\*

**G** ...As we are replacing all of the older lights, this has better quality and an improved lighting affect... Very good build quality, and nice brightness to the LEDs... - Anbycat66 | Bernville, PA | 15484CBR

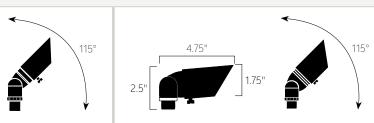


		Mini Accei	nt	
Finishes	AZT (show	n), BKT, CBR, CO		Additional Finishes
Item Number and Finish	15384 AZT 15384 AZT24 15384 BKT	<b>15384</b> BKT24 <b>15384</b> CBR <b>15384</b> CO		
Housing	Cast Aluminum, Cast Brass (CBR) or Unfinished Copper (CO) with heat-resistant flat glass lens			вкт
Lamp Base	12V Bi-Pin, high-temperature porcelain socket			
Lamp Options-Power Usage at 12V AC input	Incandescent: 50W(VA) MR16 35W(VA) Max. on 15384CO 20W(VA) Max. Canada	LED: 4W MR16 (18126-18133) Compares up to 20W Halo 5W MR16 (18134-18141) Compares up to 35W Halo 7W MR16 (18142-18149) Compares up to 50W Halo	gen	CBR
Wiring	35" of usable #18-2, SPT-1W le	eads. Cable connectors supplied	d.	<b>CO</b>
Notes	Includes 8" slotted in-ground s patina over time.	stake. Copper and brass will nat	urally	T
Accessories	Mounting: 15601 Surface Mounting Flang 15607 Surface Mounting Brack 15609 Junction Box Mounting I 15647 90° Elbow 15649 Stem Coupler 15645, 15656, 15657, 15658, 155	et 1567 Bracket 1567 1568	: 5 LIN Linear L 5 FRO Frosted 9 BK Hexcell L 6 BL Blue Len	d Lens Louver Shield
Dimensions	2.5"	6" 2"		115°



	MR8 Accent Light	MR11 Accent Light						
Finishes	CBR	CBR						
Item Number and Finish	15483 CBR	15484 CBR						
Housing	Cast Brass	Cast Brass						
Lamp Base	12V Bi-Pin, high-temperature porcelain socket							
Lamp Options-Power Usage at 12V AC input	<b>LED only:</b> 2W MR8 (18150-18157) Compares up to 15W Halogen	<b>LED only:</b> 2.5W MR11 (18158-18165) Compares up to 20W Halogen						
Wiring	30" of usable #18-2, SPT-1W leads. Cable connectors not included.							
Notes	Includes 8" slotted in-ground stake. Cowl allows for in-field beam adjustment by adjusting cowl up or down. Brass will naturally patina over time.							
Accessories	Mounting: 15609 Junction Box Mounting Bracket 15489CBR Gutter Mount 15514CBR 90° Elbow 15515CBR Two Fixture Mount 15516CBR Surface Mount 15645, 15656, 15657, 15658, 15570, 15509, 15510, 15511, 15512, 15513 Stems	Lens: 15632 LIN Linear Lens 15633 FRO Frosted Lens 15634 BK Hexcell Louver Shield 15631 BL Blue Lens						
Dimensions	4.5" 1.5"	4.75" 2.5"						







	Long C	owl Mini Accent	Architectur	al - Grade Adjustable		
Finishes		AZT	AZT			
Item Number and Finish	15484 AZT		<b>15397</b> AZT			
Housing	Cast Aluminum with glass lens	Cast Aluminum with heat-resistant, fully sealed flat		Machined Aluminum with heat-resistant, fully sealed glass and angled for easy water run-off. Cowl is fully adjustable.		
Lamp Base	12V Bi-Pin, high-ter	mperature porcelain socket				
Lamp Options-Power Usage at 12V AC input	Incandescent: 50W(VA) MR16 20W(VA) Max. Canada 35W(VA) MR11	LED: 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen	Incandescent: 50W(VA) MR16 35W(VA) Max. Canada 35W(VA) MR11	LED: 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen		
Wiring	35" of usable #18-2 Cable connectors s		51" of usable #18-2, SPT-1W leads. Cable connectors supplied.			
Notes	Includes 8" slotted i	in-ground stake	Includes 8" slotted in-ground stake. Use with the 6" (15645), 12" (15656), 18" (15657) or 24" (15658) mounting stems for dramatic results.			
Accessories	<b>15607</b> Surface Mour <b>15609</b> Junction Box <b>15647</b> 90° Elbow <b>15649</b> Stem Coupler	<b>15601</b> Surface Mounting Flange 1 <b>5607</b> Surface Mounting Bracket 1 <b>5609</b> Junction Box Mounting Bracket 1 <b>5647</b> 90° Elbow		ens I Lens ouver Shield s s		
Dimensions	3.75"	2.5"	4			

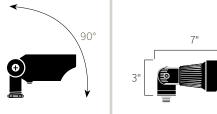


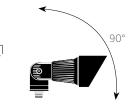
	Micro Act	cent MR11		Accent		
Finishes		ZT	<b>BKT</b> (sho	Additional Finishes		
Item Number and Finish	15398 AZT		15309 AZT 15309 AZT 12 15309 BKT			
Housing	Cast Aluminum with heat	-resistant, fully sealed glass	Cast Aluminum w fully sealed, flat g			
Lamp Base	12V Bi-Pin, high-temperat	ure porcelain socket			AZT	
Lamp Options-Power Usage at 12V AC input	<b>Incandescent:</b> 35W(VA) MR11 20W(VA) Max. Canada	Incandescent:         LED:           35W(VA) MR11         2.5W MR11 (18158-18165)		LED: 4W MR16 (18126- Compares up to 2 5W MR16 (18134- Compares up to 3 7W MR16 (18142- Compares up to 5	20W Halogen 18141) 25W Halogen 18149)	
Wiring	36" of usable #18-2, SPT- Cable connectors supplie		51" of usable #18- Cable connectors			
Notes	Includes 8" slotted in-grou smallest incandescent 1.8	und stake. This is our	Includes 20-W(VA) MR16 lamp, halogen light source. Includes 8" slotted in-ground stake			
Accessories	Mounting: 15601 Surface Mounting F 15607 Surface Mounting B 15609 Junction Box Mount 15647 90° Elbow 15649 Stem Coupler 15645, 15656, 15657, 15658	racket :ing Bracket	Lens: 15632 LIN Linear I 15633 FRO Froste 15634 BK Hexcell I 15631 BL Blue Len	ed Lens Louver Shield		

5" 1.875" •

Dimensions







Very pretty light. Bru bronze look. Comes with h duty stake for ground. Gl is thick to protect light bu Adjustible on top so you adjust where and how y want to shed the light.	lass ulb. can ou	Accent			omposite		
Finishes	BKT (sho	own), AZT	Additional	C.	вк		
Item Number and Finish	<b>15374</b> AZT <b>15374</b> AZT20L <b>15374</b> AZT20L24	15374 BKT 15374 BKT20L 15374 BKT20L24	Finishes	15382 BK			
Housing	Cast Aluminum. with heat-resistant, fully sealed flat glass lens.			Components of durable high-heat thermoplastic composite resin. Heat-resistant flat glass lens is fully sealed.			
Lamp Base	12V Bi-Pin, high-t	emperature porcela	in socket	12V Bi-Pin, high-tem	nperature porcelain socket		
Lamp Options-Power Usage at 12V AC input	Incandescent: 50W(VA) MR16 20W(VA) Max. Canada	LED: 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen		Incandescent: 35W(VA) MR16	LED: 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen		
Wiring	31" of usable #18- Cable connectors	2, SPT-1W leads.		30" of usable #18-2, SPT-1W leads. Cable connectors supplied.			
Notes		d in-ground stake		Includes 8" slotted in			
	Mounting: 15601 Surface Mo 15607 Surface Mo 15609 Junction Bo			15647 90° Elbow 15649 Stem Coupler 15645, 15656, 15657, 15658, 15570 Stems			
Accessories	Lens: 15642 LIN Linear I 15643 FRO Froste 15644 BK Hexcell I 15641 BL Blue Len	d Lens Louver Shield		Lens: 15674 LIN Linear Len 15672 FRO Frosted L 15673 BL Blue Lens			
Dimensions	7.5" 3"	2.5"	90°	6.5" 5"	3" 90°		



	MR16 Accent Fixed Socket Adjustable Cowl	MR16 Accent Fixed Socket
Finishes	CBR	CBR
Item Number and Finish	15485 CBR	15517 CBR
Housing	Cast Brass (CBR)	Cast Brass (CBR)
Lamp Base	12V Bi-Pin, high-temperature porcelain socket	
Lamp Options-Power Usage at 12V AC input	<b>LED only:</b> 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen	LED only: 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen
Wiring	30" of usable #18-2, SPT-1W leads. Cable connectors r	not included.
Notes	Flat Glass; includes 8" slotted in-ground stake. Telescoping cowl allows for in-field beam adjustment. Brass will naturally patina over time.	Convex Glass; includes 8" slotted in-ground stake. Brass will naturally patina over time.
Accessories	Mounting: 15609 Junction Box Mounting Bracket 15489CBR Gutter Mount 15514CBR 90° Elbow 15515CBR Two Fixture Mount 15516CBR Surface Mount 15645, 15656, 15657, 15658, 15570, 15509, 15510, 15511, 15512, 15513 Stems Lens: 15675 LIN Linear Lens 15676 FRO Frosted Lens 15679 BK Hexcell Louver Shield 15686 BL Blue Lens	Mounting: 15609 Junction Box Mounting Bracket 15489CBR Gutter Mount 15514CBR 90° Elbow 15515CBR Two Fixture Mount 15516CBR Surface Mount 15645, 15656, 15657, 15658, 15570, 15509, 15510, 15511, 15512, 15513 Stems
Dimensions	4" 5" 2.5" 2.5" 115° 115°	7.25" 3"

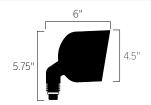
	Solic	l Brass Accent		MR16	Additional			Bi-Pin
Finishes		CBR	BBR (show	wn), AZT, BKT	Additional Finishes	Finishes		AZT
Item Number and Finish	<b>15475</b> CBR		15381 AZT	15381 BBR		Item Number and Finish	15383 AZT	
			15381 AZT6	15381 BKT		Housing	Cast Aluminum clear, flat glass le	with heat-resista ens
Housing	Cast Brass		Cast Aluminum with heat resista clear, flat glass lo		AZT	Lamp Base	12V Bi-Pin, high	-temperature poi
Lamp Base	12V Bi-Pin, high-te	emperature porcelain socket	12V Bi-Pin, high porcelain socket	-temperature	ВКТ		<b>Incandescent:</b> 75W(VA) MR16	LED: 1.2W T3/G4 Bi- Compares up t 2W T3/G4 Bi-P
Lamp Options-Power Usage at 12V AC input	Incandescent: 35W(VA) MR16	LED: 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen	Incandescent: 75W(VA) MR16	LED: 4W MR16 (18126- Compares up to 2 5W MR16 (18134- Compares up to 3	20W Halogen 18141) 35W Halogen	Lamp Options-Power Usage at 12V AC input		Compares up t
		7W MR16 (18142-18149) Compares up to 50W Halogen		7W MR16 (18142- Compares up to 5		Wiring	38" of usable #18 Cable connecto	8-2, SPT-1W lead rs supplied.
Wiring	30" of usable #18- Cable connectors		35" of usable #18 Cable connecto	B-2, SPT-1W leads. rs supplied.		Notes	Includes 8" slott	ed in-ground stat lalogen light sour
Notes	convex lens. Not re	l in-ground stake and cowl with ecommended for down light s will naturally patina over time.	Includes 8" slotted in-ground stake. Brass will naturally patina over time.			Accessories		lounting Bracket
	Mounting: 15601 Surface Mou 15607 Surface Mou 15609 Junction Bo		15647 90° Elbow 15649 Stem Cou 15645, 15656, 156 LK87CBR Lock N	pler 5 <b>57, 15658, 15570</b> Ster	ns	Dimensions	4.625	Box Mounting Bra
Accessories	Lens: 15675 LIN Linear L 15676 FRO Frostec 15679 BK Hexcell L 15686 BL Blue Len:	l Lens ouver Shield	Lens: 15692 LIN Linear 15691 FRO Frost 15680 BK Hexcer 15687 BL Blue Le	ed Lens II Louver Shield			6.25"	4.5"
Dimensions	4.625" 6.25"	4.5" 90°	5.20'	2.25"	90*			

Bi-Pin	PAR36 Uplight
AZT	CBR
	15487 CBR
with heat-resistant, fully sealed, ens	Cast Brass
temperature porcelain socket	12V PAR36 socket terminal
<b>LED:</b> 1.2W T3/G4 Bi-Pin (18200, 18201) Compares up to 10W Halogen 2W T3/G4 Bi-Pin (18206, 18207) Compares up to 20W Halogen	LED only: 4W PAR36 (18166-18173) Compares up to 20W Halogen 6W PAR36 (18174-18181) Compares up to 35W Halogen 10W PAR36 (18182-18189) Compares up to 50W Halogen 11W PAR36 (18021-18028) Compares up to 50W Halogen 14W PAR36 (18190-18197) Compares up to 75W Halogen
3-2, SPT-1W leads. 's supplied.	30" of usable #18-2, SPT-1W leads. Cable connectors supplied.
ed in-ground stake and 50W(VA) alogen light source.	Includes 8" slotted in-ground stake. Brass will naturally patina over time.

Mounting Flange Mounting Bracket n Box Mounting Bracket

### 15647 90° Elbow **15649** Stem Coupler **15645, 15656, 15657, 15658, 15570** Stems





		PAR36	Adjus	stable Wide Flood		
Finishes		AZT		AZT		
Item Number and Finish	15390 AZT		15395 AZT			
Housing	Cast Aluminum		Cast Aluminum. Heat-resistant flat glass is fully sealed.			
Lamp Base	12V PAR36 lamp		12V Bi-Pin, high-temperature porcelain socket			
Lamp Options-Power Usage at 12V AC input	Incandescent: 50W(VA) PAR36	LED: 4W PAR36 (18166-18173) Compares up to 20W Halogen 6W PAR36 (18174-18181) Compares up to 35W Halogen 10W PAR36 (18182-18189) Compares up to 50W Halogen 11W PAR36 (18021-18029) Compares up to 50W Halogen 14W PAR36 (18190-18197) Compares up to 75W Halogen	Incandescent: 75W(VA)	<b>LED:</b> 1.2W T3/G4 Bi-Pin (18200, 18201) Compares up to 10W Halogen		
Wiring	connectors supplie	e, SPT-1W leads. Cable ed. Supply wire lugs attach directly screw terminals. Light bulb se- retaining ring.	35" of usable #18 Cable connector	3-2, SPT-1W leads. rs supplied.		
Notes	Includes 8" slotted	in-around stake	Includes 8" slotted in-ground stake and 50W(VA) 050T4 (17015), Halogen light source.			



	Miniature \	Hooded Adjustable Wide Flood	Hooded Adjustable Wide Flood			
Finishes		AZT	AZT			
Item Number and Finish	15396 AZT		15385 AZT			
Housing	Cast Aluminum. H is fully sealed.	leat-resistant flat glass lens	Cast Aluminum. H is fully sealed.	Cast Aluminum. Heat-resistant flat glass lens is fully sealed.		
Lamp Base	12V Bi-Pin, high-te	emperature porcelain socket				
Lamp Options-Power Usage at 12V AC input	Incandescent: 35W(VA)	LED: 1.2W T3/G4 Bi-Pin (18200, 18201) Compares up to 10W Halogen	Incandescent: 75W(VA)	LED: 1.2W T3/G4 Bi-Pin (18200, 18201) Compares up to 10W Halogen		
Wiring	35" of usable #18- Cable connectors	·	35" of usable #18-2, SPT-1W leads. Cable connectors supplied.			
Notes	Includes 8" slotted QT3 (17013), Halog	d in-ground stake and 35W(VA) gen light source.	Includes 8" slotted in-ground stake and 50W(VA) QT4 (17015), Halogen light source.			
Accessories	Mounting: 15601 Surface Mou 15607 Surface Mou 15609 Junction Bo	5 5	<b>15647</b> 90° Elbow <b>15649</b> Stem Coupler <b>15645, 15656, 15657, 15658, 15570</b> Stems			
Dimensions	4.5' 5"	90°	6"	" 90°		

Wiring	to PAR36 light bulb screw terminals. Light bulb se- cured in place with retaining ring.	35" of usable #18-2, SPT-1W leads. Cable connectors supplied.
Notes	Includes 8" slotted in-ground stake	Includes 8" slotted in-ground stake and 50W(VA) Q50T4 (17015), Halogen light source. U.S. Patent D417,519.
Accessories	Mounting: 15601 Surface Mounting Flange 15607 Surface Mounting Bracket 15609 Junction Box Mounting Bracket	<b>15647</b> 90° Elbow <b>15649</b> Stem Coupler <b>15645, 15656, 15657, 15658, 15570</b> Stems
Dimensions	7.25" 4" 5.25" 90°	6.75" 5" 4.5"



\*\*\*\*\*

Guality product, well made, recommend for use washing wall with light

- Navy chief | Alabama | 15476CBR





Adjustable

			1.1.1		
	Solid Bras	ss Mini Wall Wash	Adjus	table Wa	ll Wash
Finishes		CBR	<b>BKT</b> (show	n), AZT	Additional Finishes
Item Number and Finish	<b>15476</b> CBR		15361 AZT 15361 BKT		
Housing	Cast Brass		Cast Aluminum with clear polycarbonate shield		5
Lamp Base	12V T5 Wedge base	socket	12V S8 Wedge bas	e socket	AZT
Lamp Options-Power Usage at 12V AC input	<b>Incandescent:</b> 16W(VA) Type 921	LED: 2W T5 Wedge (18120, 18121) Compares up to 16W Xenon 2W T5 Wedge (18204, 18205) Compares up to 20W Halogen 1.2W T5 Wedge (18198, 18199) Compares up to 10W Halogen	Incandescent: 24.4W(VA)	Compares 2W S8 We	dge (18122, 18123) s up to 18.5W Krypton dge (18203, 18203) s up to 20W Krypton
Wiring	53" of usable #18-2, SPT-1W leads. Cable connectors are not included.		42" of usable #18- Cable connectors	,	ds.
Notes	Includes 8" slotted in-ground stake. Optional lens accessories supplied: linear and clear glass options. Brass will naturally patina over time.			, Krypton light	ake and 24.4 W(VA) source. LED option
Accessories	Mounting: 15601 Surface Mounting Flange 15607 Surface Mounting Bracket LK87CBR Lock Nut		15609 Junction Bo: 15647 90° Elbow 15649 Stem Couple 15645, 15656, 1565	er	
Dimensions	4"		3.25"		<b>X</b>



	MR16 Downlight	MR16 Mini Downlight
Finishes	CBR	AZT
Item Number and Finish	15486 CBR	15087 AZT
Housing	Cast Brass	Cast Aluminum with stainless steel screen
Lamp Base	12V Bi-Pin, high-temperature porcelain socket	
Lamp Options-Power Usage at 12V AC input	LED Only: 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen	Incandescent:         LED:           50W(VA) MR16         4W MR16 (18126-18133)           20W(VA) Max.         Compares up to 20W Halogen           Canada         5W MR16 (18134-18141)           35W(VA) MR11         Compares up to 35W Halogen           7W MR16 (18142-18149)         Compares up to 50W Halogen
Wiring	30" of usable #18-2, SPT-1W leads. Cable connectors supplied.	35" of usable #18-2, SPT-1W leads. Cable connectors supplied.
Notes	Includes 8" slotted in-ground stake and Surface Mounting Bracket <b>15516CBR</b> . For downlight use only.	Includes Surface Mounting Bracket <b>15607</b> . For downlight use only.
Accessories	Mounting: 15489CBR Gutter Mount 15609 Junction Box Mounting Bracket	Mounting: 15601 Surface Mounting Flange 15609 Junction Box Mounting Bracket
Dimensions	9" 3.25"	6" 2.375" <b>3.75</b> "

Adjustable

2.5"

4.25"



	MR16 I	Mini Downlight	Long Cowl M	1ini Downlight
Finishes		WHT	F	ZT
Item Number and Finish	15093 WHT		<b>15494</b> AZT	
Housing	Cast Aluminum with	h stainless steel screen	Cast Aluminum with heat flat glass lens	r-resistant, fully sealed,
Lamp Base	12V Bi-Pin, high-ter	mperature porcelain socket		
Lamp Options-Power Usage at 12V AC input	Incandescent: 50W(VA) MR16 20W(VA) Max. Canada 35W(VA) MR11	LED: 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 35W Halogen	Incandescent: 50W(VA) MR16 20W(VA) Max. Canada 35W(VA) MR11	LED: 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 35W Halogen
Wiring	35" of usable #18-2 Cable connectors s	,	35" of usable #18-2, SPT- Cable connectors supplie	
Notes	Includes White Surface Mounting Bracket <b>15607</b> and hardware. For downlight use only.		Includes Juntion Box Mo	unting Bracket <b>15609</b>
Accessories			Mounting: 15601 Surface Mounting Flange 15607 Surface Mounting Bracket	Lens: 15675 LIN Linear Lens 15676 FRO Frosted Lens 15679 BK Hexcell Louver Shield 15686 BL Blue Lens
Dimensions	2.375"	6" ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	2.5"	0"

	Solid Hanging Light	Twinkler Hanging Light
Finishes	CBR	CBR
Item Number and Finish	15500 CBR	15501 CBR
Housing	Cast Brass	Cast Brass
Lamp Base	12V Bi-Pin, high-temperature porcelain socket	
Lamp Options-Power Usage at 12V AC input	LED only: 2W MR8 (18150-18157) Compares up to 15W Halogen 2.5W MR11 (18158-18165) Compares up to 20W Halogen 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen 1.2W Micro Ceramic (18200, 18201) Compares up to 10W Halogen 2W T3/G4 Bi-Pin (18206, 18207) Compares up to 20W Halogen	LED only: 2W MR8 (18150-18157) Compares up to 15W Halogen 2.5W MR11 (18158-18165) Compares up to 20W Halogen 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen 1.2W Micro Ceramic (18200, 18201) Compares up to 10W Halogen 2W T3/G4 Bi-Pin (18206, 18207) Compares up to 20W Halogen
Wiring	36" of usable #18-2, SPT-1W leads. Cable connectors are not included.	36" of usable #18-2, SPT-1W leads. Cable connectors are not included.
Notes	Includes mounting bracket. 72" brass chain with removable links. Brass will naturally patina over time.	Includes mounting bracket. 72" brass chain with removable links. Brass will naturally patina over time.
Dimensions	4.25" 6' Chain and Mounting Bracket Provided	5.75" 6' Chain and Mounting Bracket Provided

### 12V Retrofit Accent





Retrofit with LED Lamps

A variety of solutions and sizes assure easy retrofit installation and long-term durability.





1.3"



	MR8 Recessed Basic Trim	MR8 Recessed Louvered
Finishes	CBR	CBR
Item Number and Finish	<b>15490</b> CBR	<b>15492</b> CBR
Housing	Cast Brass with tempered glass lens	Cast Brass with tempered glass lens
Lamp Base	12V Bi-Pin, high-temperature porcelain with removable	spring-loaded socket
Lamp Options-Power Usage at 12V AC input	<b>LED only:</b> 2W MR8 (18150-18157) Compares to 15W Halogen	<b>LED only:</b> 2W MR8 (18150-18157) Compares to 15W Halogen
Wiring	48" of usable #18-2, SPT-1W leads. Cable connectors r	not included.
Notes	Includes 5.5" plastic sleeve. Works with 1.25" Schedule Walk-over and drive-over rated. Brass will naturally pat	
Dimensions	1.9" 5.5" <b>[1</b> .9" 2.85"	1.9" 5.5" <b>[1</b> .9" 2.85"

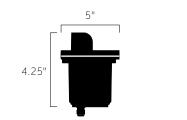
	MR8 Recessed with Cowl	Brass Trim In-Ground
Finishes	CBR	CBR
Item Number and Finish	<b>15491</b> CBR	15495 CBR
Housing	Cast Brass with tempered glass lens	Cast Brass with tempered glass lens and composite housing
Lamp Base	12V Bi-Pin, high-temperature porcelain with removable spring loaded socket	12V Bi-Pin, high-temperature porcelain socket. Articulating socket to aim light source.
Lamp Options-Power Usage at 12V AC input	<b>LED only:</b> 2W MR8 (18150-18157) Compares to 15W Halogen	<b>LED only:</b> 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen
Wiring	48" of usable #18-2, SPT-1W leads. Cable connectors n	not included.
Notes	Includes 5.5" plastic sleeve. Works with 1.25" Sched- ule 40 PVC. 1.25" core drill option without sleeve. Walk-over and drive-over rated. Brass will naturally patina over time.	Brass will naturally patina over time
Dimensions	5.5" [ ] 2.85" 1.3"	4.25"

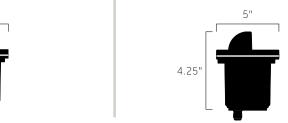
	Image: Additional and the second se	Brass Rockguard In-Ground
Finishes	CBR	CBR
Item Number and Finish	15498 CBR	<b>15497</b> CBR
Housing	Cast Brass with tempered glass lens. Composite bottom housing.	Cast Brass with tempered glass lens. Composite bottom housing.
Lamp Base	12V Bi-Pin, high-temperature porcelain socket. Articular	ting socket to aim light source.
Lamp Options-Power Usage at 12V AC input	LED only: 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen	LED only: 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen
Wiring	48" of usable #18-2, SPT-1W leads. Cable connectors n	ot included.
Notes	5-Way directional top. Brass will naturally patina over time.	Includes composite installation sleeve. Brass will naturally patina over time.
Dimensions	4.25"	4.25"



	<image/> <image/>	<image/> <image/>
Finishes	CBR	CBR
Item Number and Finish	15496 CBR	<b>15499</b> CBR
Housing	Cast Brass with tempered glass lens. Composite bottom housing.	Cast Brass with tempered glass lens. Composite bottom housing.
Lamp Base	12V Bi-Pin, high-temperature porcelain socket. Articula	ting socket to aim light source.
Lamp Options-Power Usage at 12V AC input	LED only: 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen	<b>LED only:</b> 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen
Wiring	48" of usable #18-2, SPT-1W leads. Cable connectors n	ot included.
Notes	Includes composite installation sleeve. Brass will natura	ally patina over time.

Dimensions





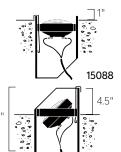
	PAR36 Well Brass Trim	With the sector of the secto
Finishes	CBR	CBR
Item Number and Finish	15507 CBR	15508 CBR
Housing	Cast Brass with tempered glass lens	Cast Brass with tempered glass lens
Lamp Base	12V PAR36 screw terminal	
Lamp Options-Power Usage at 12V AC input	LED only: 4W PAR36 (18166-18173) Compares up to 20W Halogen 6W PAR36 (18174-18181) Compares up to 35W Halogen 10W PAR36 (18182-18189) Compares up to 50W Halogen 11W PAR36 (18021-18028) Compares up to 50W Halogen 14W PAR36 (18190-18197) Compares up to 75W Halogen	LED only: 4W PAR36 (18166-18173) Compares up to 20W Halogen 6W PAR36 (18174-18181) Compares up to 35W Halogen 10W PAR36 (18182-18189) Compares up to 50W Halogen 11W PAR36 (18021-18028) Compares up to 50W Halogen 14W PAR36 (18190-18197) Compares up to 75W Halogen
Wiring	48" of usable #18-2, SPT-1W leads. Cable connectors n	ot included.
Notes	Includes composite installation sleeve. Stainless Steel la Brass will naturally patina over time.	amp holder with 25-Degree articulation.
Dimensions	5.75" 7"	6.3" 6.7"

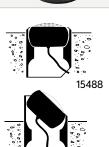
	Solid Brass In-Ground	
Finishes	CBR	
Item Number and Finish	<b>15481</b> CBR	
Housing	Cast Brass with heat-resistant frosted lens	
Lamp Base	12V Bi-Pin, high-temperature porcelain socket	
Lamp Options-Power Usage at 12V AC input	LED only: 4W PAR36 (18126-18133) Compares up to 20W Halogen 5W PAR36 (18134-18141) Compares up to 35W Halogen 7W PAR36 (18142-18149) Compares up to 50W Halogen	
Wiring	34" of usable #18-2, SPT-1W leads. Cable connectors are not included.	
Notes	Can be installed in concrete and is drive-over and walk-over rated. Includes composite installation sleeve (shown in image above). Brass will naturally patina over time.	
Accessories	Lens: 15482 CBR Rock Guard with Clear Lens	
Dimensions	4.5"	

0	
-Ground	PAR36 Well
	ВК
	<b>15088</b> BK <b>15088</b> BK 12 - bulk packed in 12 (Yoke Held) <b>15488</b> BK 12 - bulk packed in 12 (Rubber Boot)
frosted lens	Stainless steel gimble ring with silicone rubber lamp support clips. Heavy-duty polycarbonate ground support sleeve.
oorcelain socket	12V PAR36 screw terminal
res up to 20W Halogen	LED only: 4W PAR36 (18166-18173) Compares up to 20W Halogen

Stainless steel gimble ring design holds lamp securely at desired angle. Lens:







6W PAR36 (18174-18181) Compares up to 35W Halogen 10W PAR36 (18182-18189) Compares up to 50W Halogen 11W PAR36 (18021-18028) Compares up to 50W Halogen

14W PAR36 (18190-18197) Compares up to 75W Halogen

connectors supplied. Supply wire with lugs attach directly to PAR36 light bulb screw terminals.

Versatile design with reversible support sleeve to accommodate uplighting when flush mounted or angled lighting effects when semi-recessed.

42" of usable #18-2, SPT-1W leads. Cable





	Enclose	ed PAR36 In-Ground	MR16 Min	ni In-Ground	
Finishes		AZ	ВК		
Item Number and Finish	15194 AZ		15190 BK		
Housing		material. Glass lens for watertight outdoor		no-plastic composite resin. Naped glass lens. Fully sealed Sage.	
Lamp Base	12V PAR36 screv	w terminal	12V Bi-Pin, high-temper	ature porcelain socket	
Lamp Options-Power Usage at 12V AC input	Incandescent: 50W(VA) Max. PAR36	LED: 4W PAR36 (18166-18173) Compares up to 20W Halogen 6W PAR36 (18174-18181) Compares up to 35W Halogen 10W PAR36 (18182-18189) Compares up to 50W Halogen 11W PAR36 (18021-18028) Compares up to 50W Halogen 14W PAR36 (18190-18197) Compares up to 75W Halogen	Incandescent: VA Max: 50W(VA) 50W(VA) MR16 35W(VA) Max. MR11	LED: 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen	
Wiring	connectors sup	8-2, SPT-1W leads. Cable plied. Supply wire with lugs attach 16 lamp screw terminals.	36" of usable #18-2, SPT connectors supplied.	-1W leads. Cable	
Notes	reduces mainter	creates unique lighting effects and nance with Rock Guard accessory. D PAR36, must flip orientation of lamp	shed focused upward illu	e. Recommended for salt-ai	
Accessories	Lens: 15694 AZ Rock (	Guard			
Dimensions	8.2	25"	5"	4"	



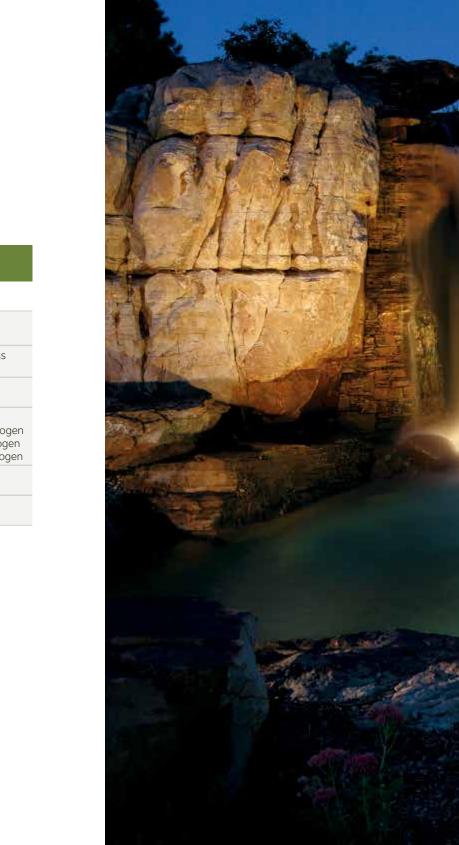
	MR16 Mini In-G	round with Cowl	MR16 Well вкт		
Finishes		ВК			
Item Number and Finish	<b>15192</b> BK		<b>15092</b> BKT		
Housing	Components of durable hi composite resin. Glare shi bulb shielded by a heat-re glass lens for better debris watertight outdoor usage	eld molded into lid. Light sistant convex shaped s run-off. Fully sealed for	Aluminum housing with is fully sealed. Heavy-du provides in-ground fixtu		
Lamp Base	12V Bi-Pin, high-tempera	ture porcelain socket			
Lamp Options-Power Usage at 12V AC input	Incandescent: VA Max: 50W(VA) 50W(VA) MR16 10W(VA) Max. Canada 35W(VA) Max. MR11	LED: 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen	Incandescent: VA Max: 50W(VA) 50W(VA) MR16	LED: 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen	
Wiring	36" of usable #18-2, SPT- connectors supplied.	1W leads. Cable	36" of usable #18-2, SP connectors supplied.	T-1W leads. Cable	
Notes	Same as 15190 with addec viewing comfort. Recomn environments.				
Accessories			Lens: 15675 LIN Linear Lens 15676 FRO Frosted Lens 15679 BK Hexcell Louver 15686 BL Blue Lens		
Dimensions	6.5"	4"		8" 5.5"	



## Retrofit Water Accent



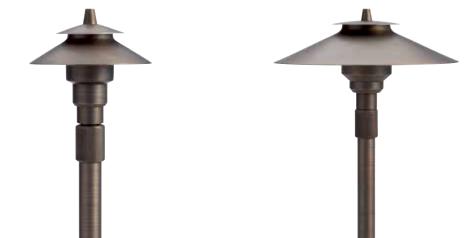
	Underwater					
Finishes		ВК				
Item Number and Finish	15191 BK					
Housing	Components of durable high-heat, thermo-plastic composite resin. Heat-resistant, fully sealed, flat glass lens. Weighted base included.					
Lamp Base	12V Bi-Pin, high temperature porcelain socket					
Lamp Options-Power Usage at 12V AC input	Incandescent: 35W(VA) Max. MR11 50W(VA) MR16	LED: 4W MR16 (18126-18133) Compares up to 20W Halogen 5W MR16 (18134-18141) Compares up to 35W Halogen 7W MR16 (18142-18149) Compares up to 50W Halogen				
Wiring	25" of usable #18-2, STW leads					
Notes	NOT for pool and spa use					
Dimensions	6"	6"				



Retrofit with LED Lamps

As landscape needs change, Kichler's extensive selection of retrofit styles and finishes has you covered, making it easy to update a walkway or light a new garden bed.

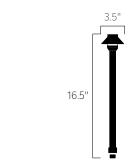




	Adjustable Height Small	Adjustable Height Large		
Finishes	CBR	CBR		
Item Number and Finish	15502 CBR	15503 CBR		
Housing	Cast Brass	Cast Brass		
Lamp Base	12V Bi-Pin, high-temperature porcelain socket	12V Bi-Pin, high-temperature porcelain socket		
Lamp Options-Power Usage at 12V AC input	LED only: 2W G4/T3 (18042, 18043) Compares up to 20W Halogen 1.2W T3/G4 (18200, 18201) Compares up to 10W Halogen 2W T3/G4 (18206, 18207) Compares up to 20W Halogen	LED only: 2W G4/T3 (18042, 18043) Compares up to 20W Halogen 1.2W T3/G4 (18200, 18201) Compares up to 10W Halogen 2W T3/G4 (18206, 18207) Compares up to 20W Halogen		
Wiring	48" of usable #18-2, SPT-1W leads. Cable connectors not included.	48" of usable #18-2, SPT-1W leads. Cable connectors not included.		
Notes	Adjustable stem up to 36". Includes 8" in-ground slotted stake. Lamp sold separately. Brass will naturally patina over time.	Adjustable stem up to 36". Includes 8" in-ground stake. Lamp sold separately. Brass will naturally patina over time.		
Accessories	15493 CBR 3" round mounting base			
Dimensions	36" 4" 19.5"	36"		

	Small Hat Brass	Small Hat Copper		
Finishes	CBR	СО		
Item Number and Finish	15506 CBR	<b>15504</b> CO		
Housing	Cast Brass	Copper with brushed finish		
Lamp Base	12V Bi-Pin, high-temperature porcelain socket	12V Bi-Pin, high-temperature porcelain socket		
Lamp Options-Power Usage at 12V AC input	LED only: 2W G4/T3 (18042, 18043) Compares up to 20W Halogen 1.2W T3/G4 (18200, 18201) Compares up to 10W Halogen 2W T3/G4 (18206, 18207) Compares up to 20W Halogen	LED only: 2W G4/T3 (18042, 18043) Compares up to 20W Halogen 1.2W T3/G4 (18200, 18201) Compares up to 10W Halogen 2W T3/G4 (18206, 18207) Compares up to 20W Halogen		
Wiring	48" of usable #18-2, SPT-1W leads. Cable connectors not included.	48" of usable #18-2, SPT-1W leads. Cable connectors not included.		
Notes	Includes 8" in-ground stake. Lamp sold separately. Brass will naturally patina over time.	Includes 8" in-ground stake. Lamp sold separately. Copper will naturally patina over time.		
Accessories	15493 CBR 3" round mounting base			
Dimensions	4.25"	3.5"		







**G** Solid fixture with a great display. Immediate response from customers how much light it gives off.

\*\*\*\*

- stagreen | Orlando, FL | 15478CBR

opper	Solid Brass Traditional

	Medium Hat Copper	Solid Brass Traditional CBR		
Finishes	СО			
Item Number and Finish	<b>15505</b> CO	15478 CBR		
Housing	Copper with brushed finish	Cast Brass		
Lamp Base	12V Bi-Pin, high-temperature porcelain socket	12V Bi-Pin, high-temperature porcelain socket		
Lamp Options-Power Usage at 12V AC input	LED only: 2W G4/T3 (18042, 18043) Compares up to 20W Halogen 1.2W T3/G4 (18200, 18201) Compares up to 10W Halogen 2W T3/G4 (18206, 18207) Compares up to 20W Halogen	Incandescent:         LED:           VA MAX:         2W G4/T3 (18042, 18043)           20W(VA) T3         Compares up to 20W Halogen           1.2W T3/G4 (18200, 18201)         Compares up to 10W Halogen           2W T3/G4 (18206, 18207)         Compares up to 20W Halogen		
Wiring	48" of usable #18-2, SPT-1W leads. Cable connectors not included.	30" of usable #18-2, SPT-1W leads. Cable connectors not included.		
Notes	Includes 8" in-ground stake. Lamp sold separately. Copper will naturally patina over time.	Includes 8" in-ground stake. Lamp sold separately. Brass will naturally patina over time.		
Accessories	15493 CBR 3" round mounting base			
Dimensions	20.25"	21"		

	Solid E	Brass Missionary	6" Dome			
Finishes	CBR		<b>CBR</b> (shown), AZT, BKT		Additional Finishes	
Item Number and Finish	15480 CBR		15470 AZT 15470 BKT	<b>15470</b> CBR		
Housing	Cast Brass		Cast Aluminum	Cast Aluminum or Cast Brass (CBR)		
Lamp Base	12V Bi-Pin, high-tei	mperature porcelain socket	12V T5 Wedge ba	ase socket	AZT	
Lamp Options-Power Usage at 12V AC input	Incandescent: VA MAX: 20W(VA) T3	LED: 2W G4/T3 (18042, 18043) Compares up to 20W Halogen 1.2W T3/G4 (18200, 18201) Compares up to 10W Halogen 2W T3/G4 (18206, 18207) Compares up to 20W Halogen	Incandescent: 11.6W(VA) 912X (17023) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 2W T5 Wedge (18039, 18040) Compares up to 16W Xenon 1.2W T3/G4 (18200, 18201) Compares up to 10W Halogen 2W T3/G4 (18206, 18207) Compares up to 20W Halogen	ВКТ	
Wiring	30" of usable #18-2, SPT-1W leads. Cable connectors not included.		24" of usable #18-2, SPT-1W leads. Cable connectors included with AZT and BKT. Cable Connectors not included with CBR		Coordinating Products	
Notes	Includes 8" in-grou patina over time.	nd stake. Brass will naturally		n-ground slotted m. LED version of page 51. Brass will	Path Lights	
Accessories	15493 CBR 3" round	d mounting base	<b>15601</b> Surface M <b>15607</b> Surface M	lounting Flange lounting Bracket	<b>15310 &amp; 15410</b> , see page 132.	
Dimensions	23.2	8.5"	21.25"			
Photometrics*						
Distance from Light			1' 2'	3' 4' 5' 6'	7' 8'	
Footcandles			4.85 4.34	2.51 1.58 1.35 .77	.43 .28	

### 12V Retrofit Path & Spread



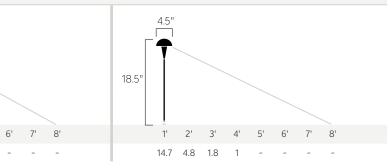
				I		
	8" C	ome		ome Short	Stem	
Finishes	BKT (shown), AZ	ZT Additional Finishes		AZT		
Item Number and Finish	15310 AZT         15310           15310 BKT         (pack		15410 AZT			
Housing	Cast Aluminum		Cast Aluminum			
Lamp Base	12V T5 Wedge base socket	AZT		12V T5 Wedge base socket		
Lamp Options-Power Usage at 12V AC input	Incandescent:         LED:           11.6W(VA) 912X         2W T5 Wedge (18039, 18040)           (17023)         Compares up to 16W Xenon           6.5W(VA) 918X         1.2W T5 Wedge (18198, 18199)           (17022)         Compares up to 10W Halogen           4W(VA) 901X         2W T5 Wedge (18204, 18205)           (17021)         Compares up to 20W Halogen		Incandescent:         LED:           11.6W(VA) 912X         2W T5 Wedge (18039, 180           (17023)         Compares up to 16W Xen           6.5W(VA) 918X         1.2W T5 Wedge (18198, 18'           (17022)         Compares up to 10W Hald           4W(VA) 901X (17021)         2W T5 Wedge (18204, 182           Compares up to 20W Hald         Compares up to 20W Hald		up to 16W Xenon Age (18198, 18199) up to 10W Halogen ge (18204, 18205)	
Wiring	24" of usable #18-2, SPT- leads. Cable connectors supplied.	1W Coordinatin Products	30" of usable #18- leads. Cable conne		Coordinating Products	
Notes	Includes 16.25W(VA) 921X Xenon lamp and 8" in-ground stake. LED version of fixture <b>15810</b> on page 52.	(17025) Path Lights 15410 & 15470, see pages 131, 13		" slotted ED version	Path Lights 15310 & 15470, see pages 131, 132	
Accessories	<b>15601</b> Surface Mounting F <b>15607</b> Surface Mounting E					
Dimensions	8.25"		8.25"			
Photometrics*	1' 2' 3' 4'	5' 6' 7' 8'	1' 2'	3' 4' 5' 6'	' 7' 8'	
Distance from Light Footcandles	8 4.1 1.6 .5	.4 .1		3° 4° 5° 6° 1.1 .03 .1 -	/ O	

	Large Eclipse <sup>™</sup>			Eclipse <sup>™</sup>		
Finishes	<b>BKT</b> (shov	vn), TZT	Additional Finishes	AZT (show	vn), BKT, TZT	Additional Finishes
Item Number and Finish	15336 BKT 15336 TZT			15323 AZT 15323 BKT	<b>15323</b> TZT	
Housing	Cast Aluminum wit	n clear glass	TZT	Cast Aluminum		
Lamp Base	12V S8 Wedge base	socket		12V S8 Wedge ba	se socket	ВКТ
Lamp Options-Power Usage at 12V AC input	Incandescent: 18.5W(VA) 3155K (15599 CLR)	LED: 2W S8 Wedge (1 Compares up to 2W S8 Wedge (1 Compares up to	) 18.5W Krypton 18202, 18203)	Incandescent: 18.5W(VA) 3155K (15599 CLR)	LED: 2W S8 Wedge (18036, 18037) Compares up to 18.5W Krypton 2W S8 Wedge (18202, 18203) Compares up to 20W Halogen	Tzt
Wiring	35" of usable #18-2, SPT-1W leads. Cable connectors supplied.			34" of usable #18-2, SPT-1W leads. Cable connectors supplied.		
Notes	Includes 24.4W(VA) 3156K (15598 CLR) Krypton lamp.			Includes 24.4W(VA) 3156K (15598 CLR) Krypton lamp, 8" in-ground slotted stake and 18" stem.		
Accessories	15601 Surface Mou 15607 Surface Mou					
Dimensions	25"			4.5"		
Photometrics*				i.		
Distance from Light	1' 2' 3	' 4' 5' 6'	7' 8'	1' 2'	3' 4' 5' 6'	7' 8'
Footcandles	8.7 3.3 1.	1 .4 .1 -		14.7 4.8	1.8 1	

### 12V Retrofit Path & Spread



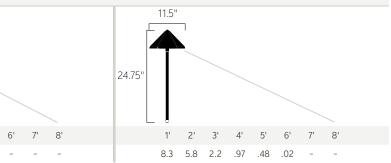




	Side N	Mount Eclip			Side Mount	
Finishes	AZT (show	n), BKT	Additional Finishes	BKT (sh	own), AZT	Additional Finishes
Item Number and Finish	15423 AZT 15423 BKT			15315 AZT 15315 BKT	<b>15315</b> AZT6 (pack of 6)	
Housing	Cast Aluminum				Cast Aluminum	
Lamp Base	12V S8 Wedge base	socket	BKT	12V S8 Wedge base socket		AZT
Lamp Options-Power Usage at 12V AC input	Incandescent:         LED:           18.5W(VA) 3155K         2W S8 Wedge (18036, 18037)           (15599 CLR)         Compares up to 18.5W Krypton           2W S8 Wedge (18122, 18123)         Compares up to 18.5W Krypton           2W S8 Wedge (1820, 18203)         Compares up to 200 Halogen		<b>Incandescent:</b> 18.5W(VA) 3155K (15599 CLR)	LED: 2W S8 Wedge (180 Compares up to 1 2W S8 Wedge (180 Compares up to 1 2W S8 Wedge (182 Compares up to 2	o 18.5W Krypton 18122, 18123) o 18.5W Krypton 18202, 18203)	
Wiring	34" of usable #18-2, Cable connectors s			35" of usable #18 Cable connector	8-2, SPT-1W leads. is supplied.	Coordinating Products
Notes	Includes 24.4W(VA) 3156K (15598 CLR) Krypton lamp and 8" in-ground slotted stake.			Includes 24.4W(\ CLR) Krypton lar slotted stake and version of fixture 49. Photometrics supplied 18" sten	np, 8" in-ground d 18" stem. LED <b>15815</b> on page s given below with	Deck Lights 15065 & 15765, see pages 156, 65
Accessories	<b>15601</b> Surface Mour <b>15607</b> Surface Mour					
Dimensions Photometrics <sup>*</sup>	4.5"			20"		
Distance from Light	L 🖥 1' 2' 3'	4' 5' 6'	7' 8'	1' 2'	3' 4' 5' 6'	7' 8'
Footcandles	8.7 3.3 1.1	.8 .4 .1		15 5.2	1.8 .8 .27 .03	

	Center Mount			Large (	Center M	ount
Finishes	<b>BKT</b> (shown	), AZT	Additional Finishes		AZT	
Item Number and Finish	15326 AZT 15326 BKT			15328 AZT		
Housing	Cast Aluminum			Aluminum		
Lamp Base	12V S8 Wedge base s	ocket	AZT	12V S8 Wedge base sc	ocket	
Lamp Options-Power Usage at 12V AC input	<b>Incandescent:</b> 18.5W(VA) 3155K (15599 CLR)	Compares 0 2W S8 Wedg	) 3) Compares	Incandescent: 18.5W(VA) 3155K (15599 CLR)	Compares 2W S8 Wed	03)Compares
Wiring	35" of usable #18-2, SPT-1W leads. Cable connectors sup- plied.			35" of usable #18-2, SPT-1W leads. Cable connectors sup- plied.		
Notes	with supplied 18" stem 15065 & 1576		Deck Lights 15065 & 15765, see pages 156, 65	Includes 24.4W(VA) 3156K (15598 CLR) Krypton lamp and 8" in-ground slotted stake. Photometrics given below with supplied 24" stem.		Deck Lights 15065 & 15765, see pages 156, 65
Accessories	15601 Surface Moun 15607 Surface Moun					
Dimensions Photometrics*	22.75"			24.75"		
Distance from Light	1' 2' 3'	4' 5' 6	5' 7' 8'	1' 2' 3'	4' 5' 6	
Footcandles	16.6 6.3 2.2	.87 .1 -		8.3 5.8 2.2	.97 .48 .0	2







	One Tier				Three Tier	
Finishes		AZT		<b>BKT</b> (sho	own), AZT	Additional Finishes
Item Number and Finish	15011 AZT			15005 AZT 15005 BKT		
Housing	Cast Aluminum with molded ribbed diffuser of clear UV stabilized, high-impact resistant polycarbonate. <b>Mounting stems and bollard kits not included.</b>			diffuser of clear U	stant polycarbon- ems and bollard	AZT
Lamp Base	12V S8 Wedge base	socket		12V S8 Wedge ba	se socket	-
Lamp Options-Power Usage at 12V AC input	<b>Incandescent:</b> 18.5W(VA) 3155K (15599 CLR)	LED: 2W S8 Wedge (1 Compares up to 2W S8 Wedge (1 Compares up to	) 18.5W Krypton 18202, 18203)	Incandescent: LED: 18.5W(VA) 3155K (15599 CLR) Compares up to 18 2W S8 Wedge (182 2W S8 Wedge (182 Compares up to 2		3.5W Krypton 202, 18203)
Wiring	52" of usable #18-2, SPT-1W leads. Cable connectors supplied.			52" of usable #18-2, SPT-1W leads. Cable connectors supplied.		
Notes	Includes 24.4W(VA) 3156K (15598 CLR) Krypton lamp. Stem mount not included. Available in stem mount, deck mount or as a bollard. Mounting stem and bollard kit sold separately. Photometrics given below with 18" stem.		· · · ·	np. Stem mount ilable in stem unt or as a bollard. nd bollard kit sold ometrics given	Deck Lights 15065 & 15765, see pages 156, 65	
Accessories	15656, 15657, 15658 or 15570 Stems 15575, 15576 or 15578 Stakes 15665, 15666 or 15667 Bollard 15671 Bollard Template Kit			15601 Surface Mo 15602 Flange Mo 15607 Surface Mo	unting Nipple	
Dimensions	9.25"	Stem C Stem C	nting Bollard Kit	9.25"	Stem O	ting Bollard Kit
Photometrics*						
Distance from Light	1' 2' 3	4' 5' 6'	7' 8'	1' 2'	3' 4' 5' 6'	7' 8'
Footcandles	5.3 1.8 .9	.68 .13 -		1.8 .73	.4 .27 .3 -	

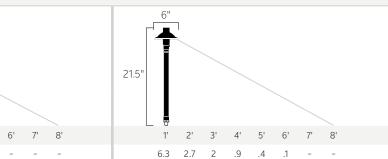
3	W
	T

		Galaxy	Adjus	stable Copper	
Finishes		AZT		СО	
Item Number and Finish	15318 AZT		<b>15350</b> CO		
Housing	Aluminum		Copper		
Lamp Base	12V S8 Wedge base s	socket	12V S8 Wedge base s	ocket	
Lamp Options-Power Usage at 12V AC input	<b>Incandescent:</b> 18.5W(VA) 3155K (15599 CLR)	LED: 2W S8 Wedge (18036, 18037) Compares up to 18.5W Krypton 2W S8 Wedge (18202, 18203) Compares up to 20W Halogen	Incandescent: 18.5W(VA) 3155K (15599 CLR)	LED: 2W S8 Wedge (18202, 18203) Compares up to 20W Halogen	
Wiring	35" of usable #18-2, connectors supplied	SPT-1W leads. Cable d.	21" of usable #18-2, SPT-1W leads. Cable connectors supplied.		
Notes	Includes 24.4W(VA) 3156K (15598 CLR) Krypton lamp and 8" in-ground slotted stake.		Includes 24.4W(VA) 3156K (15598 CLR) Krypton lamp, 8" in-ground slotted stake and has an adjustable head. Copper will naturally patina over time.		
Accessories	<b>15601</b> Surface Mour <b>15607</b> Surface Mour				
Dimensions Photometrics*	23"		21.5"		
Distance from Light	1' 2' 3'	4' 5' 6' 7' 8'	1' 2' 3'	4' 5' 6' 7' 8'	
Footcandles	2.6 3.2 1.2		6.3 2.7 2	.9 .4 .1	

### 12V Retrofit Path & Spread







Wiring

Notes

Accessories

Dimensions

Photometrics\*

Distance from Light

Footcandles

Lamp Options-Power Usage at 12V AC input



	Decorative Hammered Roof			Cast Hammered Roo			
Finishes	<b>TZT</b> (shov	vn), CO, OB	Additic Finish		BBR (sho	own), TZT	Add Fin
Item Number and Finish	<b>15443</b> CO <b>15443</b> OB <b>15443</b> OB12 (pack <b>15443</b> TZT	6		15471 BBR 15471 TZT			
Housing	Brass or Copper (	Brass or Copper (CO)		со	Cast Brass (BBR)	or Cast Aluminum	
Lamp Base	12V S8 Wedge bas	se socket			12V S8 Wedge bas	se socket	
	Incandescent: 18.5W(VA) 3155K	LED: 2W S8 Wedge			Incandescent: 18.5W(VA) 3155K	LED: 2W S8 Wedge (180	36, 1803

	<b>15443</b> OB12 (pack <b>15443</b> TZT	of 12)		<b>15471</b> TZT		
	Brass or Copper (	CO)	со	Cast Brass (BBR)	or Cast Aluminum	ттт
	12V S8 Wedge bas	e socket		12V S8 Wedge bas	se socket	
	<b>Incandescent:</b> 18.5W(VA) 3155K (15599 CLR)	LED: 2W S8 Wedge (18036, 18037) Compares up to 18.5W Krypton 2W S8 Wedge (18202, 18203) Compares up to 20W Halogen	ов	Incandescent: 18.5W(VA) 3155K (15599 CLR)	LED: 2W S8 Wedge (180 Compares up to 18 2W S8 Wedge (182 Compares up to 20	8.5W Krypton 202, 18203)
	35" of usable #18- Cable connectors			35" of usable #18 Cable connectors	-2, SPT-1W leads. s supplied.	
	lamp and 8" in-gro decorative light-le <b>15843</b> on page 44.	A) 3156K (15598 CLR) ound slotted stake. F eak pattern. LED vers Brass and Copper v U.S. Patent No. D40	eatures ion of fixture vill naturally	lamp and 8" in-gr decorative light-le	A) 3156K (15598 CLF ound slotted stake. eak pattern. LED ver Brass will naturally	Features sion of fixture
ĺ	15601 Surface Mo 15607 Surface Mo					
	22"			22"		

Additional

Finishes

1' 2' 3' 4' 5' 6' 7' 8'

-

- -

8.9 2.8 .6 .15

	Fundamentals <sup>™</sup>			Ribbed Roof		
Finishes	TZT (shov	vn), CO, OB	Additional Finishes		AZT	
Item Number and Finish	15439 CO 15439 OB 15439 TZT			15418 AZT		
Housing	Brass or Copper (	CO)	со	Cast Aluminum	Cast Aluminum with clear glass sprinkler shield	
Lamp Base	12V S8 Wedge bas	se socket		12V T3 Bi-Pin, hig	gh-temperature porcelain socke	
Lamp Options-Power Usage at 12V AC input	Incandescent: 18.5W(VA) 3155K (15599 CLR)	LED: 2W S8 Wedge (18036, 18037) Compares up to 18.5W Krypton 2W S8 Wedge (18202, 18203) Compares up to 20W Halogen	ОВ	Incandescent: 10W(VA) T3 (17011)	LED: 2W G4/T3 (18042, 18043) Compares up to 20W Halogen 1.2W T3/G4 (18200, 18201) Compares up to 10W Halogen 2W T3/G4 (18206, 18207) Compares up to 20W Halogen	
Wiring	35" of usable #18- Cable connectors			20" of usable #18-2, SPT-1W leads. Cable connectors supplied.		
Notes	and 8" in-ground	A) 3156K (15598 CLR slotted stake. LED v . Brass and Copper v	ersion of fixture	Includes 20W(VA 8" in-ground slot	A) T3 (17012) Halogen lamp and tted stake.	
Accessories	15601 Surface Mo 15607 Surface Mo					
Dimensions Photometrics*	20"			21.5"		
Distance from Light	1' 2'	3' 4' 5' 6'	7' 8'	1' 2'	3' 4' 5' 6' 7' 8'	
	40.4					

- - -

1' 2' 3' 4' 5' 6' 7' 8'

-

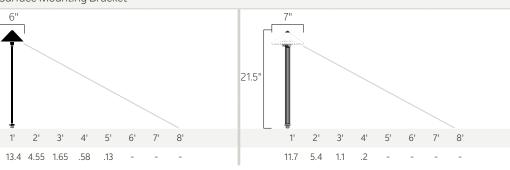
8.9 2.8 .6 .15

Footcandles

### 12V Retrofit Path & Spread









Simplicity Side Mount

**Glass & Metal** 

		Mic	a Missi
	Finishes		TZT
	Item Number and Finish	<b>15450</b> TZT	
	Housing	Cast Aluminum with N	/lica finished
	Lamp Base	12V T5 Wedge base so	cket
ing	Lamp Options-Power Usage at 12V AC input	Incandescent: 16.25W(VA) 921X (17025) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 1.2WT5W Compare 2WT5We Compare
t	Wiring	22" of usable #18-2, S Cable connectors sup	
ht	Notes	Includes 11.6W(VA) 912 in-ground slotted stal	
57.	Accessories	<b>15601</b> Surface Mounti <b>15607</b> Surface Mounti	
	Dimensions	22.5"	

Photometrics\* Distance from Light

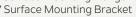
Footcandles

Finishes	AZT (sho	wn), BN	Additional Finishes		AZT	
Item Number and Finish	15317 AZT 15317 BN			15360 AZT		
Housing	Aluminum or Brush with glass diffuser	ned Nickel (BN)	BN	Aluminum		
Lamp Base	12V S8 Wedge base	socket		12V S8 Wedge b	ase socket	
Lamp Options-Power Usage at 12V AC input	<b>Incandescent:</b> 18.5W(VA) 3155K (15599 CLR)	LED: 2W S8 Wedge (1 Compares up to		Incandescent: 18.5W(VA) 3155K (15599 CLR)	LED: 2W S8 Wedge (18 Compares up to 1 2W S8 Wedge (18 Compares up to 1	18.5W Krypton 122, 18123)
Wiring	35" of usable #18-2 Cable connectors s	·		35" of usable #1 Cable connecto	8-2, SPT-1W leads. rs supplied.	Coordinating Product
Notes	Includes 24.4W(VA) and 8" in-ground sl <b>15817</b> on page 51.			Includes 24.4W( (15598 CLR) Kry 8" in-ground slo	ipton lamp and	Deck Light 15064, see page 157.
Accessories	15601 Surface Mou 15607 Surface Mou					
Dimensions Photometrics <sup>*</sup>	22"			20"		
Distance from Light	1' 2' 3	4' 5' 6'	7' 8'	1' 2'	3' 4' 5' 6'	7' 8'
Footcandles	9.4 4.8 2	2 .72 .32 .16		10.8 3.5	1.1 .4 .1 -	



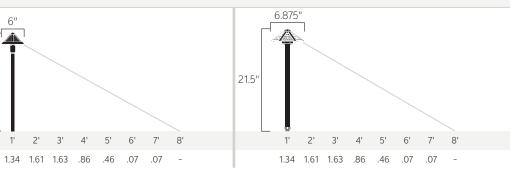


	1 2				
Mic	a Mission	Thatched Roof			
	ттт		ттт		
O TZT		15401 AZT			
Aluminum with N	Aica finished glass panels	Cast Aluminum with clear glass sprinkler shield			
75 Wedge base socket		12V T3 Bi-Pin, high-temperature porcelain socket			
ndescent: W(VA) 921X (5) (VA) 918X (2) (A) 901X (17021)	LED: 1.2W T5 Wedge (18198, 18199) Compares up to 10W Halogen 2W T5 Wedge (18204, 18205) Compares up to 20W Halogen	<b>Incandescent:</b> 10W(VA) T3 (17011)	LED: 2W G4/T3 (18042, 18043) Compares up to 20W Halogen 1.2W T3/G4 (18200, 18201) Compares up to 10W Halogen 2W T3/G4 (18206, 18207) Compares up to 20W Halogen		
of usable #18-2, SPT-1W leads. e connectors supplied.		20" of usable #18-2, SPT-1W leads. Cable connectors supplied.			
des 11.6W(VA) 912X (17023) Xenon lamp and 8" round slotted stake.		Includes 20W(VA) T3 (17012) Halogen lamp and 8" in-ground slotted stake.			



1'

2' 3' 4' 5'





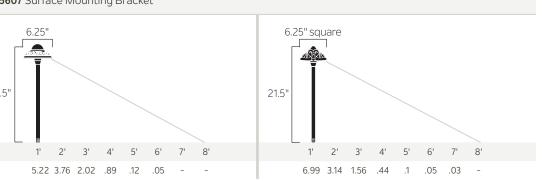
	G	ate House <sup>™</sup>	Single-Tier Leaf			
Finishes		OZ	MST (sho	own), AZT	Additional Finishes	
Item Number and Finish	15379 OZ		15314 AZT 15314 MST			
Housing	Cast Brass		Cast Aluminum		44	
Lamp Base	12V S8 Wedge base	socket	12V S8 Wedge bas	se socket	AZT	
Lamp Options-Power Usage at 12V AC input	<b>Incandescent:</b> 18.5W(VA) 3155K (15599 CLR)	LED: 2W S8 Wedge (18036, 18037) Compares up to 18.5W Krypton 2W S8 Wedge (18202, 18203) Compares up to 20W Halogen	<b>Incandescent:</b> 18.5W(VA) 3155K (15599 CLR)	LED: 2W S8 Wedge (180 Compares up to 1 2W S8 Wedge (183 Compares up to 2	8.5W Krypton 202, 18203)	
Wiring	34" of usable #18-2 Cable connectors s		35" of usable #18-2, SPT-1W leads. Cable connectors supplied.			
Notes	Includes 24.4W(VA) 3156K (15598 CLR) Krypton lamp and 14" in-ground slotted stake. Fixture head is oval in shape. Brass will naturally patina over time. U.S. Patent No. D561,371.		Includes 24.4W(VA) 3156K (15598 CLR) Krypton lamp and 8" in-ground slotted stake.			
Accessories	15601 Surface Mou 15607 Surface Mou					
Dimensions Photometrics <sup>*</sup>	5.25" x 7.375" Oval		23"			
Distance from Light	1' 2' 3	' 4' 5' 6' 7' 8'	1' 2'	3' 4' 5' 6'	7' 8'	
Footcandles	3.43 3.43 1.4	46 .33	2.6 3.2	1.2 .5 .2 -		

Pie	rced Dome	Pierced Scrollwork		
AZT		TZT		
5457 AZT		15437 TZT		
Cast Aluminum		Cast Aluminum		
2V T5 Wedge base socket		12V T5 Wedge base socket		
ncandescent: 1.6W(VA) 912X 17023) 5.5W(VA) 918X 17022) 2W(VA) 901X 17021)	LED: 2W T5 Wedge (18039, 18040) Compares up to 16W Xenon 1.2W T5 Wedge (18198, 18199) Compares up to 10W Halogen 2W T5 Wedge (18204, 18205) Compares up to 20W Halogen	Incandescent: 11.6W(VA) 912X (17023) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 2W T5 Wedge (18039, 18040) Compares up to 16W Xenon 1.2W T5 Wedge (18198, 18199) Compares up to 10W Halogen 2W T5 Wedge (18204, 18205) Compares up to 20W Halogen	
4" of usable #18-2, SPT-1W leads. Cable connectors supplied.		24" of usable #18-2, SPT-1W leads. Cable connectors supplied.		
ncludes 16.25W(VA) 921X (17025) Xenon lamp and " in-ground slotted stake. Features decorative ght-leak pattern. LED version of fixture <b>15857</b> on age 57.		Includes 16.25W(VA) 921X (17025) Xenon lamp and 8" in-ground slotted stake. Features decorative light-leak pattern. Fixture head is square in shape.		

	Pierced Dome		Pierced Scrollwork	
Finishes	AZT		TZT	
Item Number and Finish	<b>15457</b> AZT		15437 TZT	
Housing	Cast Aluminum		Cast Aluminum	
Lamp Base	12V T5 Wedge base socket		12V T5 Wedge base socket	
Lamp Options-Power Usage at 12V AC input	Incandescent: 11.6W(VA) 912X (17023) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 2W T5 Wedge (18039, 18040) Compares up to 16W Xenon 1.2W T5 Wedge (18198, 18199) Compares up to 10W Halogen 2W T5 Wedge (18204, 18205) Compares up to 20W Halogen	Incandescent: 11.6W(VA) 912X (17023) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 2W T5 Wedge (18039, 18040) Compares up to 16W Xenon 1.2W T5 Wedge (18198, 18199) Compares up to 10W Halogen 2W T5 Wedge (18204, 18205) Compares up to 20W Halogen
Wiring	24" of usable #18-2, SPT-1W leads. Cable connectors supplied.		24" of usable #18-2, SPT-1W leads. Cable connectors supplied.	
Notes	Includes 16.25W(VA) 921X (17025) Xenon lamp and 8" in-ground slotted stake. Features decorative light-leak pattern. LED version of fixture <b>15857</b> on page 57.		Includes 16.25W(VA) 921X (17025) Xenon lamp and 8" in-ground slotted stake. Features decorative light-leak pattern. Fixture head is square in shape.	
Accessories	15601 Surface Mounting Flange 15607 Surface Mounting Bracket			
Dimensions	6.25"		6.25" square	
Photometrics*				
Distance from Light	1' 2' 3'	4' 5' 6' 7' 8'	1' 2' 3'	4' 5' 6' 7' 8'
Footcandles	5.22 3.76 2.03	2 .89 .12 .05	6.99 3.14 1.56	.44 .1 .05 .03 -









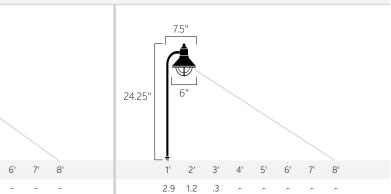




	Cotswold <sup>™</sup> Convertible-Height Tiki		Rou	und Lantern		
Finishes		AGZ	TZT			
Item Number and Finish	15421 AGZ		15367 TZT			
Housing	Cast Aluminum with	weathered white glass	Cast Aluminum with	etched sunset glass		
Lamp Base	12V T5 Wedge base so	ocket	12V S8 Wedge base s	socket		
Lamp Options-Power Usage at 12V AC input	Incandescent: 16.25W(VA) 921X (17025) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 2W T5 Wedge (18039, 18040) Compares up to 16W Xenon 1.2W T5 Wedge (18198, 18199) Compares up to 10W Halogen 2W T5 Wedge (18204, 18205) Compares up to 20W Halogen	Incandescent: 18.5W(VA) 3155K (15599 CLR)	LED: 2W S8 Wedge (18036, 18037) Compares up to 18.5W Krypton 2W S8 Wedge (18202, 18203) Compares up to 20W Halogen		
Wiring	24" of usable #18-2, 9 Cable connectors su		51" of usable #18-2, SPT-1W leads. Cable connectors supplied.			
Notes	Includes 11.6W(VA) 912X (17023) Xenon lamp and 8" in-ground slotted stake. Photometrics below at 32" stem height. Stem extends out to 59".		Includes 24.4W(VA) 3156K (15598 CLR) Krypton lamp and 8" in-ground slotted stake.			
Accessories	15601 Surface Mount 15607 Surface Mount					
Dimensions	32"		26"			
Photometrics*						
Distance from Light	1' 2' 3'	4' 5' 6' 7' 8'	1' 2' 3'	4' 5' 6' 7' 8'		
Footcandles	.3 .2 .1		7.3 1.7 .76	.16		

	Con	cord Lantern	Traditior	al Marine l	
Finishes		ОВ	<b>OZ</b> (show	n), OB	Additional Finishes
Item Number and Finish	<b>15334</b> OB		15438 OB 15438 OZ		ĺ٦,
Housing	Brass with stainless steel rods and seedy glass		Brass with white polycarbonate diffuser		
Lamp Base	12V T5 Wedge base s	ocket	12V S8 Wedge base socket OI		ОВ
Lamp Options-Power Usage at 12V AC input	Incandescent:         LED:           4W(VA) 901X         2W T5 Wedge (18039, 18040)           (17022)         Compares up to 16W Xenon           1.2W T5 Wedge (18198, 18199)         Compares up to 10W Halogen           2W T5 Wedge (18204, 18205)         Compares up to 20W Halogen		Incandescent: 18.5W(VA) 3155K (15599 CLR)	2WS8Wedge	to 18.5W Krypton
Wiring	20" of usable #18-2, Cable connectors su		26" of usable #18-2, SPT-1W leads. Cable connectors supplied.		
Notes	Includes 6.5W(VA) 9 <sup>-</sup> in-ground slotted st	8X (17022) Xenon lamp and 8" ake.	Includes 18.5W(VA) and 8" in-ground sl patina over time.		
Accessories	15601 Surface Moun 15607 Surface Mour				
Dimensions Photometrics <sup>*</sup>	27.5"		24.25"		
Distance from Light	1' 2' 3'	4' 5' 6' 7' 8'	1' 2' 3	' 4' 5' 6'	7' 8'
Footcandles	4.7 .6 .2		2.9 1.2 .3	3	

### 12V Retrofit Path & Spread



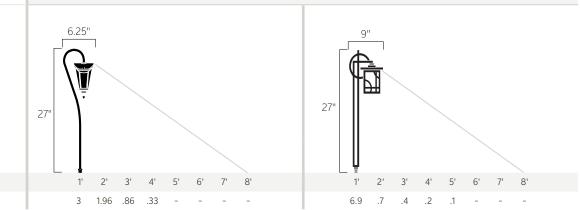


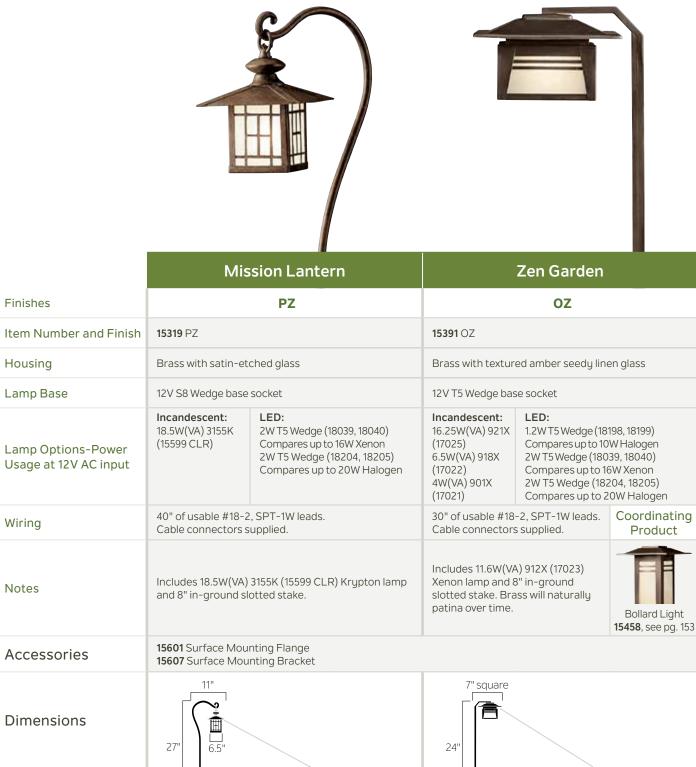


Lafayett	e <sup>™</sup> Lantern	Larkin Estate <sup>™</sup>			
٦	ΓZG	OZ			
		<b>15444</b> OZ			
num with liner	n seedy glass	Cast Brass with umber etched glass			
lge base socket		12V T5 Wedge base so	cket		
<b>ent:</b> 12X (17023) 18X (17022) IX (17021)	LED: 2W T5 Wedge (18039, 18040) Compares up to 16W Xenon 2W T5 Wedge (18204, 18205) Compares up to 20W	Incandescent: 11.6W(VA) 921X (17023) 6.5W(VA) 918X (17022)	LED: 2W T5 Wedge (18039, 18040) Compares up to 16W Xenon 2W T5 Wedge (18204, 18205) Compares up to 20W Halogen		

	Cross Creek <sup>™</sup> Lantern		Intaglio Bra	Intaglio Brass Crook Neck		
Finishes		AGZ	OZ			
Item Number and Finish	<b>15322</b> AGZ		15436 OZ			
Housing	Cast Aluminum with tex seedy glass panels	tured amber linen	Brass			
Lamp Base	12V T5 Wedge base sock	tet	12V T5 Wedge base sock	ket		
Lamp Options-Power Usage at 12V AC input	Incandescent: 11.6W(VA) 912X (17023) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 2W T5 Wedge (18039, 18040) Compares up to 16W Xenon 2W T5 Wedge (18204, 18205) Compares up to 20W Halogen	Incandescent: 16.25W(VA) 921X (17025) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 1.2W T5 Wedge (18198, 18199) Compares up to 10W Halogen 2W T5 Wedge (18039, 18040) Compares up to 16W Xenon 2W T5 Wedge (18204, 18205) Compares up to 20W Halogen		
Wiring	35" of usable #18-2, SP Cable connectors suppl		26" of usable #18-2, SPT-1W leads. Cable connectors supplied.			
Notes	Includes 16.25W(VA) 92 <sup>,</sup> 8" in-ground slotted sta	IX (17025) Xenon lamp and ke. U.S. Patent No. D580,084.	Includes 11.6W(VA) 912X (17023) Xenon lamp and 8" in-ground slotted stake. Etched floral pattern on brass shade. Brass will naturally patina over time.			
Accessories	<b>15601</b> Surface Mounting <b>15607</b> Surface Mounting					
Dimensions Photometrics*	27"		27"			
Distance from Light	1' 2' 3' 4	4' 5' 6' 7' 8'	1' 2' 3'	4' 5' 6' 7' 8'		
Footcandles	1.2 .26 -		0	68 .3 .13 .03 -		

Finishes	-	ſZG	OZ		
Item Number and Finish	<b>15313</b> TZG		<b>15444</b> OZ		
Housing	Cast Aluminum with liner	n seedy glass	Cast Brass with umbe	er etched glass	
Lamp Base	12V T5 Wedge base socke	t	12V T5 Wedge base so	cket	
Lamp Options-Power Usage at 12V AC input	Incandescent: 11.6W(VA) 912X (17023) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 2W T5 Wedge (18039, 18040) Compares up to 16W Xenon 2W T5 Wedge (18204, 18205) Compares up to 20W Halogen	Incandescent: 11.6W(VA) 921X (17023) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 2W T5 Wedge (18039, 18040) Compares up to 16W Xenon 2W T5 Wedge (18204, 18205) Compares up to 20W Halogen	
Wiring	35" of usable #18-2, SPT- Cable connectors supplie		40" of usable #18-2, SPT-1W leads. Cable connectors supplied.		
Notes	Includes 16.25W(VA) 921X (17025) Xenon lamp and 8" in-ground slotted stake.		Includes 16.25W(VA) 921X (17025) Xenon lamp and 8" in-ground slotted stake. Brass will naturally patina over time.		
Accessories	<b>15601</b> Surface Mounting <b>15607</b> Surface Mounting				
Dimensions	6.25"		27" 9"		
Photometrics*					
Distance from Light	1' 2' 3' 4'	5' 6' 7' 8'	1' 2' 3'	4' 5' 6' 7' 8'	
Footcandles	3 1.96 .86 .33		6.9 .7 .4	.2 .1	







		The second			
	Cathedral		AI	meria™	
Finishes	TZT			ВКТ	
Item Number and Finish 15429 TZT	<b>15429</b> TZT		<b>15426</b> BKT		
Housing Aluminum			Aluminum with light umber glass		
Lamp Base 12V T5 Wedge ba	ase socket		12V T5 Wedge base socket		
	16.25W(VA) 921X (17025)2W S8 Wedge (18122, 18123)6.5W(VA) 918X (17022)Compares up to 18.5W		Incandescent: 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	<b>LED:</b> 2W T5 Wedge (18039, 18040) Compares up to 16W Xenon	
Wiring24" of usable #18leads. Cable con	8-2, SPT-1W nectors supplied.	Coordinating Product	34" of usable #18-2, SP Cable connectors supp		
Includes 11.6W(V Notes (17023) Xenon Iai 8" in-ground slot	mp and	Bollard Light 15449, see pg. 153		X (17023) Xenon lamp and 8" e. U.S. Patent No. D578,238.	
Accessories 15601 Surface M 15607 Surface M	lounting Flange lounting Bracket				
Dimensions			25"		
Photometrics*		71 01	11 21 21		
Distance from Light1'2'Footcandles5.42.47	3' 4' 5' 6' 1.15 .32 .05 -	7' 8'	1' 2' 3' 5.2 .8 .2	4' 5' 6' 7' 8'	

2' 3' 4' 5' 6' 7' 8'

\_ \_ \_ \_ \_

1'

3.2 1.2 .26

1' 2'

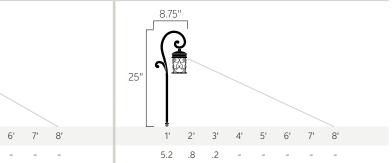
4' 5' 6' 7' 8'

2.11 7.3 1.7 .7 .5 - - -

Photometrics\* Distance from Light

Footcandles

### 12V Retrofit Path & Spread







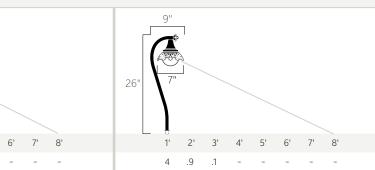
		Tulip	Adjustable Crescent			
Finishes		MST	OZ			
Item Number and Finish	15349 MST		15330 OZ			
Housing	Aluminum		Brass			
Lamp Base	12V S8 Wedge base so	ocket	12V S8 Wedge base	socket		
Lamp Options-Power Usage at 12V AC input	<b>Incandescent:</b> 18.5W(VA) 3155K (15599 CLR)	LED: 2W S8 Wedge (18036, 18037) Compares up to 18.5W Krypton	<b>Incandescent:</b> 18.5W(VA) 3155K (15599 CLR)	LED: 2W S8 Wedge (18036, 18037) Compares up to 18.5W Krypton 2W S8 Wedge (18122, 18123) Compares up to 18.5W Krypton		
Wiring	37" of usable #18-2, S Cable connectors su		42" of usable #18-2, SPT-1W leads. Cable connectors supplied.			
Notes	Includes 18.5W(VA) 3155K (15599 CLR) Krypton lamp and 8" in-ground slotted stake.		Includes 24.4W(VA) 3156K (15598 CLR) Krypton lamp and 8" in-ground slotted stake. Adjustable shade on this versatile fixture allows it to be used as a path light, accent light or for wall washing. Brass will naturally patina over time.			
Accessories	<b>15601</b> Surface Mount <b>15607</b> Surface Mount					
Dimensions Photometrics*	9.75" 25.25" 9.75" 8.25"		26.5" 9"			
Distance from Light	1' 2' 3'	4' 5' 6' 7' 8'	1' 2' 3'	4' 5' 6' 7' 8'		
Footcandles	12.7 4.1 1	.2 .07 .02	9.98 4.13 1.5	2 .6 .22 .03		

	ĸ	Centucky	Vintage Park <sup>™</sup>			
Finishes		oz	ттт			
Item Number and Finish	15393 OZ		15369 TZT			
Housing	Cast Brass with light	linen glass	Cast Aluminum with tea dust glass			
Lamp Base	12V T5 Wedge base so	ocket	12V S8 Wedge base socket			
Lamp Options-Power Usage at 12V AC input	Incandescent: 16.25W(VA) 921X (17025) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 1.2W T5 Wedge (18198, 18199) Compares up to 10W Halogen 2W T5 Wedge (18204, 18205) Compares up to 20W Halogen	LED only: 2W S8 Wedge (18036, 18037) Compares up to 18.5W Krypton 2W S8 Wedge (18122, 18123) Compares up to 18.5W Krypton			
Wiring	41" of usable #18-2, S Cable connectors su		32" of usable #18-2, SPT-1W leads. Cable connectors supplied.			
Notes	Includes 11.6W(VA) 912X (17023) Xenon lamp and 8" in-ground slotted stake. Brass will naturally patina over time.		Includes 18.5W(VA) 3155K (15599 CLR) Krypton lamp and 8" in-ground slotted stake. U.S. Patent No. D570,517			
Accessories	<b>15601</b> Surface Mount <b>15607</b> Surface Mount					
Dimensions	27" 8" 27" 27"		9" 26" 7"			
Photometrics*						
Distance from Light	1' 2' 3'	4' 5' 6' 7' 8'	1' 2' 3' 4' 5' 6' 7' 8'			
Footcandles	3 1.96 .86	.33	4 .9 .1			

### 12V Retrofit Path & Spread







	Co	otswold™	Cotsw	vold <sup>™</sup> Lantern	
Finishes		AGZ		AGZ	
Item Number and Finish	<b>15422</b> AGZ		15420 AGZ		
Housing	Cast Aluminum		Cast Aluminum with weathered white glass		
Lamp Base	12V T5 Wedge base socket		12V T5 Wedge base socket		
Lamp Options-Power Usage at 12V AC input	Incandescent: 16.25W(VA) 921X (17025) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 1.2W T5 Wedge (18198, 18199) Compares up to 10W Halogen 2W T5 Wedge (18204, 18205) Compares up to 20W Halogen	Incandescent: 16.25W(VA) 921X (17025) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 1.2W T5 Wedge (18198, 18199) Compares up to 10W Halogen 2W T5 Wedge (18204, 18205) Compares up to 20W Halogen	
Wiring	26" of usable #18-2, S Cable connectors sup		28" of usable #18-2, SPT-1W leads. Cable connectors supplied.		
Notes	Includes 11.6W(VA) 912 8" in-ground slotted s	2X (17023) Xenon lamp and take.	Includes 11.6W(VA) 912X (17023) Xenon lamp and 8" in-ground slotted stake.		
Accessories	<b>15601</b> Surface Mounti <b>15607</b> Surface Mounti				
Dimensions Photometrics*	26"		25" 9"		
Distance from Light	1' 2' 3'	4' 5' 6' 7' 8'	L I 1' 2' 3'	4' 5' 6' 7' 8'	
Footcandles	7 3.6 1.4	.4	2.5 1.3 .5	.1	

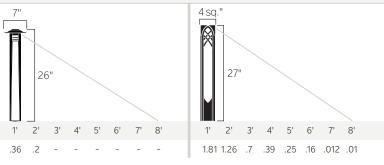


M	lission	Bol	lard

	Mission Bollard		Zen Garden Bollard		Cathedral <sup>™</sup> Bollard	
Finishes		OZ	oz		TZT	
Item Number and Finish	15458 OZ		<b>15392</b> OZ		<b>15449</b> TZT	
Housing	Brass with hone	y beige glass	Brass with texture linen glass	d amber seedy	Aluminum with dar	k citrine glass
Lamp Base	12V T5 Wedge ba	se socket	12V T5 Wedge base	e socket	12V T5 Wedge base	socket
Lamp Options- Power Usage at 12V AC input	Incandescent:         LED:           16.25W(VA)         2W T5 Wedge           921X         (18039, 18040)           (17025)         Compares up to           6.5W(VA) 918X         16W Xenon           (17022)         1.2W T3/G4           4W(VA) 901X         (18200, 18201)           (17021)         Compares up to           10W Halogen         2W T3/G4           2W T3/G4         (18206, 18207)           Compares up to         20W Halogen		Incandescent: 16.25W(VA) 921X (17025) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 2W T5 Wedge (18039, 18040) Compares up to 16W Xenon 1.2W T3/G4 (18200, 18201) Compares up to 10W Halogen 2W T3/G4 (18206, 18207) Compares up to 20W Halogen	Incandescent: 16.25W(VA) 921X (17025) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 2W T5 Wedge (18039, 18040) Compares up to 16W Xenon 1.2W T3/G4 (18200, 18201) Compares up to 10W Halogen 2W T3/G4 (18206, 18207) Compares up to 20W Halogen
Wiring	22" of usable #18-2, SPT-1W leads. Cable connectors supplied.		35" of usable #18-2, SPT-1W leads. Cable con- nectors supplied.	Coordinating Product	22" of usable #18-2, SPT-1W leads. Cable con- nectors supplied.	Coordinating Product
Notes	Includes 11.6W(VA) 912X (17023) Xenon lamp and 8" in-ground slotted stake. Brass will naturally patina over time.		Includes 11.6W(VA) 912X (17023) Xenon lamp and 8" in- ground slotted stake. Brass will naturally patina over time.	Path Light 15391, see page 148	Includes 11.6W(VA) 912X (17023) Xenon lamp and 8" in-ground slotted stake.	Path Light 15429, see page 149
Accessories	15601 Surface Mounting Flange, 15607 Surface Mounting Bracket					
Dimensions Photometrics*	9"		26"		4 sq."	
Distance from Light	1' 2' 3' 4'	5' 6' 7' 8'	1' 2' 3' 4'	5' 6' 7' 8'	1' 2' 3' 4' 5	5' 6' 7' 8'
Footcandles	5.3 2.1 .5 .02		.36 .2		1.81 1.26 .7 .39 .2	25 .16 .012 .01







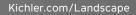


Retrofit with LED Lamps

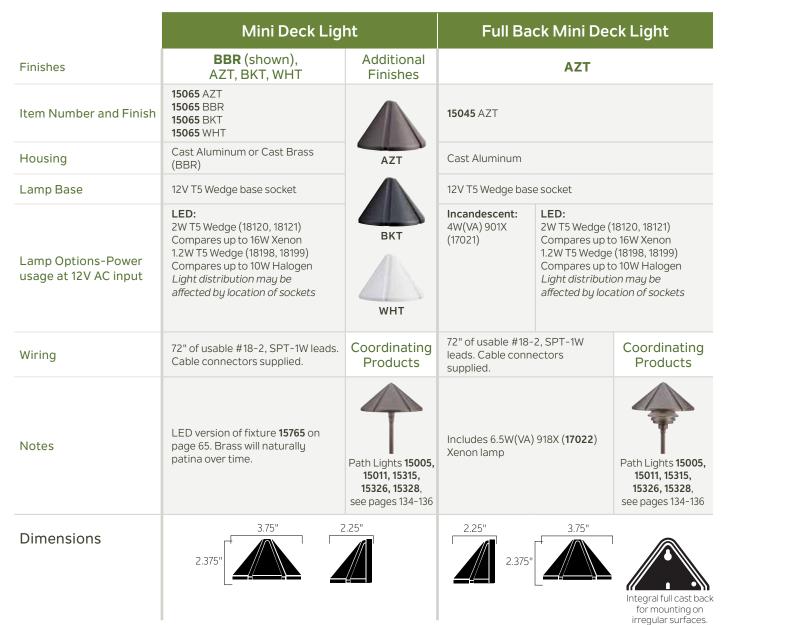
Adding on to a deck or patio? Need additional lighting solutions? Kichler delivers affordable and versatile lights that enhance gathering areas and provide essential navigation.













	Br	ass Deck Light	Half Moon Deck Light		
Finishes		CBR	<b>BBB</b> (shown) A/I WHI		Additional Finishes
Item Number and Finish	<b>15477</b> CBR		15064 AZT 15064 BBR 15064 WHT		AZT
Housing	Cast Brass		Cast Aluminum or Cast Brass (BBR)		
Lamp Base	12V T5 Wedge base socket		12V T3 Bi-Pin, high-temperature porcelain socket		WHT
Lamp Options-Power usage at 12V AC input	Incandescent: Max: 13W(VA)LED: 2W T5 Wedge (18120, 18121) Compares up to 16W Xenon 1.2W T5 Wedge (18198, 18199) Compares up to 10W Halogen		Incandescent:LED:4W(VA) 901X2W T3/G4 Bi-Pin (18124, 18)(17021)Compares up to 20W Halo1.2W T3/G4 Bi-Pin (18200,Compares up to 10W HaloLight distribution may be aby location of sockets		0W Halogen (18200, 18201) DW Halogen may be affected
Wiring	72" of usable #18 not included.	-2, SPT-1W leads. Cable connectors	72" of usable #18-2, SPT-1W leads. Cable connectors supplied.		Coordinating Products
Notes	Includes two #8 screws for mouting. Brass will naturally patina over time.		Includes 10W(V/ Halogen lamp. L fixture <b>15764</b> on naturally patina	ED version of page 65. Brass will	Path Light <b>15360</b> , see page 140
Dimensions	3.43	"dia. 1.93"		4" dia.	2"

1.75"

Finishes

Housing

Lamp Base

Wiring

Notes

Dimensions

Item Number and Finish

Lamp Options-Power

usage at 12V AC input





N	/ini Deck Light	Oa	ak Trail <sup>™</sup> Accent	
AZ			OZ	
15165 AZ		15047 OZ		
one-piece const	rable thermo-plastic composite resin, e-piece construction. Extremely resistant mpact, weathering and the effects of UV.		Cast Brass	
12V T5 Wedge base socket		12V T5 Wedge base socket		
Incandescent: 4W(VA) 901X (17021)	LED: 2W T5 Wedge (18120, 18121) Compares up to 16W Xenon 1.2W T5 Wedge (18198, 18199) Compares up to 10W Halogen Light distribution may be affected by location of sockets	Incandescent: 4W(VA) 901X (17021)	LED: 1.2W T5 Wedge (18198, 18199) Compares up to 10W Halogen Light distribution may be affected by location of sockets	
71" of usable #18 Cable connector	3-2, SPT-1W leads. rs supplied.	71" of usable #18-2, SPT-1W leads. Cable connectors supplied.		
Includes stainless steel surface mounting bracket and 6.5W(VA) 918X ( <b>17023</b> ) Xenon lamp.		and 6.5W(VA) 918	Includes stainless steel surface mounting bracket and 6.5W(VA) 918X ( <b>17023</b> ) Xenon lamp. Brass will naturally patina over time. U.S. Patent No. D573,293	
	3.75" 2.375"		3.5"	

6.75'



	Finishes		ΟZ	
	Item Number and Finish	15071 OZ		
	Housing	Brass with texture	d linen seedy	JQ
	Lamp Base	12V T5 Wedge base	esocket	
dge (18198, 18199) up to 10W Halogen bution may be affected of sockets	Lamp Options-Power usage at 12V AC input	Incandescent: 16.25W(VA) 921X (17025) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 2W T5 Wedg Compares ( 1.2W T3/G4 Compares ( 2W T3/G4 ( Compares ( Light distrik affected by	- - - - - - - - - - - - - - - - - - -
ads. e mounting bracket	Wiring	59" of usable #18- leads. Cable conne supplied.	2, SPT-1W	
on lamp. Brass will . Patent No. D573,293	Notes	Includes stainless adaptor and rail ad standard 4"x4" pos 16.25W(VA) 912X (1 Xenon lamp. Brass naturally patina ov	laptor, fits st. Includes 1 <b>7023</b> ) s will	F
	Dimensions	 	7"	

158	See page 169 for compatible incandescent lamps and pages 167-168 for LED lamps. Each product lists compatible item number(s) for reference.
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Zen G	arden <sup>™</sup> D	eck Post	Larkin Estate <sup>™</sup> Deck Post			
	OZ		OZ			
OZ			<b>15474</b> OZ			
with texture	ed linen seedy	glass	Brass with umber	r-etched glass		
Wedge base	e socket		12V T5 Wedge bas	se socket		
descent:         LED:           V(VA) 921X         2W T5 Wedge (18039, 18040)           )         Compares up to 16W Xenon           /A) 918X         1.2W T3/G4 (18200, 18201)           .)         Compares up to 10W Halogen           .) 901X         2W T3/G4 (18206, 18207)           )         Compares up to 20W Halogen <i>Light distribution may be</i> affected by location of sockets			Incandescent: 16.25W(VA) 921X (17025) 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 2W T5 Wedge (18039, 18040) Compares up to 16W Xenon 1.2W T3/G4 (18200, 18201) Compares up to 10W Halogen 2W T3/G4 (18206, 18207) Compares up to 20W Halogen Light distribution may be affected by location of sockets		
usable #18-2, SPT-1W Cable connectors ed.				Coordinating Product		
es stainless steel post or and rail adaptor, fits ard 4"x4" post. Includes V(VA) 912X ( <b>17023</b> ) I lamp. Brass will ally patina over time. Path Light <b>15391</b> page 148, Bollard <b>15392</b> page 153				Path Light <b>15444</b> , page 147		
5"	7"		5.75'	6.25"		



E	

	Adjustable Under Deck Rail	Louve	red Down	Deck Rail
Finishes	AZT	AZT (show	n), WHT	Additional Finishes
Item Number and Finish	15077 AZT	15066 AZT 15066 WHT		
Housing	Aluminum	Aluminum		WHT
Lamp Base	12V S8 Wedge base socket	12V T5 Wedge ba	se socket	
Lamp Options-Power usage at 12V AC input	<b>LED only:</b> 2W S8 Wedge (18202, 18203) Compares up to 20W Halogen	Incandescent: 4W(VA) 901X (17021)		lge (18198, 18199) Ip to 10W Halogen
Wiring	72" of usable #18-2, SPT-1W leads. Cable connectors supplied.	72" of usable #18 connectors supp		ads. Cable
Notes	Includes 18.5W(VA) 3155K ( <b>15599</b> ) Krypton lamp and mounting hardware.	Includes 6.5W(VA stainless steel mo D437,445	, , ,	
Dimensions	4" 2.5" 4" Wall mount option		6"	

	Up/Dov	wn Accent Deck Light	Barbecue Light		
Finishes		AZT	ВК		
Item Number and Finish	15079 AZT		15123 BK		
Housing	Aluminum		Aluminum		Components of durable, high-heat, thermo-plastic resin. Lamp shielded by a high-heat resistant flat glass lens sealed for watertight outdoor use. Flexible stem is durable chrome-plated steel with heat shrink rubber sleeving. On/off switch is proteded by waterproof rubber boot.
Lamp Base	12V T5 Wedge b	ase socket	12V Bi-Pin, high-temperature porcelain socket		
Lamp Options-Power usage at 12V AC input	Incandescent: 4W(VA) 901X (17021) 6.5W(VA) 918X (17022)	LED: 1.2W T5 Wedge (18198, 18199) Compares up to 10W Halogen	<b>LED only:</b> 2.5W MR11 (18158-18165)		
Wiring	70" of usable #1 Cable connecto	8-2, SPT-1W leads. rs supplied.	25" of usable #18-2, SPT-1W leads. Cable connectors supplied.		
Notes		ss steel surface mounting plate /A) 912X ( <b>17023</b> ) Xenon lamps.	Includes one set of wood screws, one set of machine screws and nuts. For rail or outdoor countertop mount only.		
Accessories	15659 AZT Heat	-Resistant Lens			
Dimensions		24"			





4"

9.5'



	Louvered Brick Light	Acrylic Lens Brick Light
Finishes	AZT	AZT
Item Number and Finish	15073 AZT	15074 AZT
Housing	Cast Aluminum with a fully sealed, heat-resistant glass lens	Cast Aluminum with a fully sealed, heat-resistant glass lens
Lamp Base	(2) 12V T3 Bi-Pin, high-temperature porcelain sockets	(2) 12V T3 Bi-Pin, high-temperature porcelain sockets
Lamp Options-Power usage at 12V AC input	LED only: 2W T3/G4 Bi-Pin (18042, 18043) Compares up to 20W Halogen 1.2W T3/G4 Bi-Pin (18200, 18201) Compares up to 10W Halogen 2W T3/G4 Bi-Pin (18206, 18207) Light distribution may be affected by location of sockets	LED only: 2W T3/G4 Bi-Pin (18042, 18043) Compares up to 20W Halogen 1.2W T3/G4 Bi-Pin (18200, 18201) Compares up to 10W Halogen 2W T3/G4 Bi-Pin (18206, 18207) Light distribution may be affected by location of sockets
Wiring	Wire connection must be made inside fixture housing. 75° supply wire required.	Wire connection must be made inside fixture housing 75° supply wire required.
Notes	Includes stainless steel mounting bracket and two 10W(VA) Q10T3 ( <b>17011</b> ) Halogen lamps. LED version of fixture <b>15773</b> on page 68. For masonry or concrete use, outdoors only.	Included stainless steel mounting hardware and junction box. Designed to be integrated into brick wall during construction. LED version is also usable in vertical risers. LED version of fixture <b>15774</b> on page 68.
Dimensions	3.25"	3.25"

2.625"

2.625"

9.5"



	Mini Louvered Step Light				: Lens Step Light	
Finishes	<b>WHT</b> (shown), A	AZT	Additional Finishes		AZT	
Item Number and Finish	15072 AZT 15072 WHT			15070 AZT		
Housing	Aluminum faceplate v white reflector. Zinc p steel housing.		·=-	Aluminum faceplate wisteel housing with white	ith white reflector. Zinc plated ae acrylic diffuser.	
Lamp Base	12V T5 Wedge base so	ocket	AZT	12V T5 Wedge base soc	ket	
Lamp Options-Power usage at 12V AC input	Incandescent: 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	Com 1.2W Com Light	5 Wedge (18204, 18205) pares to 20W Halogen T5 Wedge (18198, 18199) pares up to 10W Halogen t distribution may be ted by location	Incandescent: 6.5W(VA) 918X (17022) 4W(VA) 901X (17021)	LED: 2W T5 Wedge (18204, 18205) Compares to 20W Halogen 1.2W T5 Wedge (18198, 18199) Compares up to 10W Halogen Light distribution may be affected by location of sockets	
Wiring		Wire connection must be made inside fixture housing. 90° supply wire required.		Wire connection must be made inside fixture housing. 90° supply wire required.		
Notes	Includes mounting hardware and junction box. For recessed installation and outdoor use only. LED version of fixture <b>15782</b> on page 69.		Includes mounting hardware and junction box. For recessed installation and outdoor use only. LED version of fixture <b>15780</b> on page 69.			
Dimensions	2.5" 3" 2"		2	3" 2"		









# 12V Lamps

LED, Incandescent and more

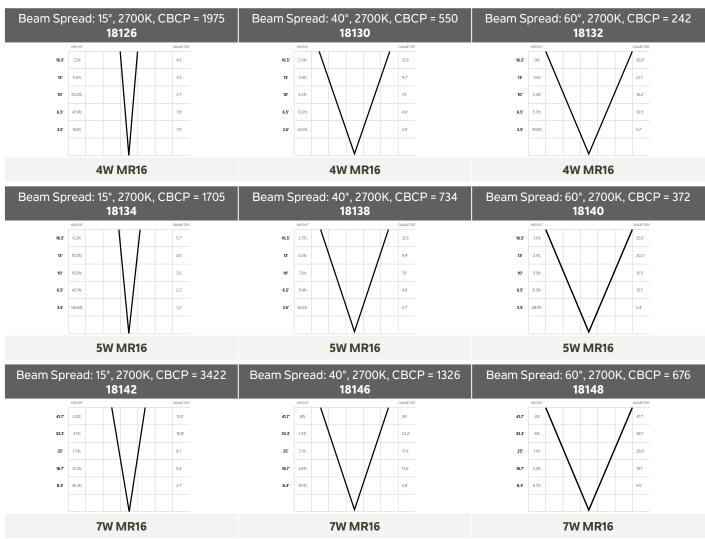
LED or incandescent choices are designed to illuminate and perform with Kichler dependability. Superior optics and fully potted electronics generate consistent light output across a 9V to 15V operating range.



# 12V LED LAMPS Features

- Potted and/or coated electronics protect against moisture
- Generate consistent light output for systems with an operating range from 9V to 15V with no loss in light output
- $\cdot$  Designed and listed for outdoor use in enclosed fixtures/damp locations m O or wet locations m O
- Cast aluminum heat sink, anodized black, for increased thermal management
- Integrated, high-output LEDs are tightly binned for high CRI, color consistency and color quality
- 30,000 hour life in an enclosed fixture
- FCC compliance ensures no interference with other electronic devices
- High total lumens and lumens per watt (efficacy)
- Custom optics deliver center-to-edge beam uniformity
- 6-year warranty

### Photometrics: 12V LED Lamps



The curves indicate the illuminated area and the average illumination when the luminaire is at different distances. Stated footcandles are for bare lamps only. For additional photometrics, visit **Kichler.com/Landscape**.

### 12V LED Lamps

LAMP	ITEM #	BASE/	WATTS	KELVIN/LUMENS		BEAM ANG	LE/ITEM	#
		LAMP TYPE		(Im for Bare Lamps)	15° Spot	25° Narrow Flood	40° Flood	60° Wide Flood
0	18150, 18152, 18154, 18156	MR8 Bi-Pin Damp Location	2W, 3.1VA Compares	2700K - Warm White 140 lm	18150	18152	18154	18156
¥	18151, 18153, 18155, 18157	D	up to 15W Halogen	3000K - Pure White 150 lm	18151	18153	18155	18157
	18158, 18160, 18162, 18164	MR11 Bi-Pin Damp Location	2.5W, 3.8VA Compares	2700K - Warm White 180 lm	18158	18160	18162	18164
	18159, 18161, 18163, 18165		up to 20W Halogen	3000K - Pure White 180 lm	18159	18161	18163	18165
0	18126, 18128, 18130, 18132	MR16 Damp Location	4W, 5.4VA Compares	2700K - Warm White 285 Im	18126	18128	18130	18132
The second secon	18127, 18129, 18131, 18133	Damp Location	up to 20W Halogen	3000 - Pure White 285 Im	18127	18129	18131	18133
	18134, 18136, 18138, 18140	MR16 Damp Location	5W, 6.6VA Compares	2700K - Warm White 365 Im	18134	18136	18138	18140
T.	18135, 18137, 18139, 18141	D	up to 35W Halogen	3000K - Pure White 365 Im	18135	18137	18139	18141
	18142, 18144, 18146, 18148	MR16 Damp Location	7.2W, 9.9VA Compares	2700K - Warm White 615 lm	18142	18144	18146	18148
	18143, 18145, 18147, 18149	D	up to 50W Halogen	3000K - Pure White 615 lm	18143	18145	18147	18149
	18166, 18168, 18170, 18172	PAR36 Wet Location	4.2W, 6.3VA Compares	2700K - Warm White 290 Im	18166	18168	18170	18172
	18167, 18169, 18171, 18173	W	up to 20W Halogen	3000K - Pure White 290 lm	18167	18169	18171	18173
0	18174, 18176, 18178, 18180	<b>PAR36</b> Wet Location	6W, 8.5VA Compares	2700K - Warm White 475 Im	18174	18176	18178	18180
	18175, 18177, 18179, 18181		up to 35W Halogen	3000K - Pure White 475 lm	18175	18177	18179	18181
	18182, 18184, 18186, 18188	<b>PAR36</b> Wet Location	10W, 13.2VA Compares	2700K - Warm White 700 Im	18182	18184	18186	18188
2002	18183, 18185, 18187, 18189	W	up to 50W Halogen	3000K - Pure White 700 Im	18183	18185	18187	18189
-	18021, 18024, 18027	PAR36/AR111 Wet Location	10W, 13.2VA Compares	2700K - Warm White 620 Im	18021	18024	18027	
	18022, 18025, 18028	W	up to 50W Halogen	3000K - Pure White 620 Im	18022	18025	18028	
	18190, 18192, 18194, 18196	<b>PAR36</b> Wet Location	14W, 19.2VA Compares	2700K - Warm White 1090 lm	18190	18192	18194	18196
9	18191, 18193,		up to 75W	3000K - Pure White				

### 12V LED Lamps

LAMP	ITEM #	BASE/ LAMP TYPE	WATTS	KELVIN/LUMENS (Im for Bare Lamps)	BEAM ANGLE/ITEM #s 300° Omni-Directional
	18036	<b>S8 Wedge</b> Wet Location	2W, 2.9VA	2700K - Warm White / 95 Im	18036
	18037	Wet Location	Compares up to 18.5W Krypton	3000K - Pure White / 95 Im	18037
	18039	<b>T5 Wedge</b> Wet Location	2W, 2.9VA	2700K - Warm White / 95 Im	18039
	18040	W	Compares up to 16W Xenon	3000K - Pure White / 95 lm	18040
		G4/T3 Bi-Pin Wet Location	2W, 2.9VA	2700K - Warm White / 95 Im	18042
	18043	W	Compares up to 20W Halogen	3000K - Pure White / 95 Im	18043
					120° Beam Angle
m	18122	S8 Wedge* Wet Location	1.5W, 2.4VA	2700K - Warm White / 130 Im	18122
	18123	Wet Location	Compares up to 18.5W Krypton	3000K - Pure White / 130 lm	18123
	18120	<b>T5 Wedge*</b> Wet Location	1.5W, 2.4VA	2700K - Warm White / 130 lm	18120
	18121 Wet Location 7	Compares up to 16W Xenon	3000K - Pure White / 130 lm	18121	
	18124	G4/T3 Bi-Pin* Wet Location	1.5W, 2.4VA	2700K - Warm White / 130 lm	18124
	18125	Wet Location	Compares up to 20W Halogen	3000K - Pure White / 130 Im	18125

LAMP	ITEM #	BASE/	WATTS	KELVIN/LUMENS	BEAM ANG	LE/ITEM #s
LAWP		LAMP TYPE	WAITS	(Im for Bare Lamps)	180°	300°
	18198	<b>T5 Wedge</b> Mini Ceramic	1W, 1.2VA	2700K - Warm White / 85 Im	18198	
0.0	18199	Wet Location	Compares up to 10W Halogen	3000K - Pure White / 85 Im	18199	
0	18200	T3/G4 Bi-Pin Micro Ceramic	1W, 1.2VA	2700K - Warm White / 85 lm	18200	
	18201	Wet Location	Compares up to 10W Halogen	3000K - Pure White / 85 lm	18201	
	18204	<b>T5 Wedge</b> High Lumen Mini	2.3W, 3.3VA	2700K - Warm White / 215 Im		18204
	18205	Wet Location	Compares up to 20W Halogen	3000K - Pure White / 215 Im		18205
	18202	S8 Wedge High Lumen Mini	en Mini 2.3W, 3.3VA	2700K - Warm White / 215 Im		18202
	18203	Wet Location	Compares up to 20W Halogen	3000K - Pure White / 215 Im		18203
	18206	T3/G4 Bi-Pin High Lumen Mini	2.3W, 3.3VA	2700K - Warm White / 215 Im		18206
	18207	Wet Location	Compares up to 20W Halogen	3000K - Pure White / 215 lm		18207
	18208	BA15 Single Contact High Lumen Mini	2.3W, 3.3VA	2700K - Warm White / 215 Im		18208
	18209	Wet Location	Compares up to 20W Halogen	3000K - Pure White / 215 Im		18209

### 12V Incandescent Lamps

LAMP/BULB	ITEM #	12V BULB TYPE	WATTS	BEAM SPREAD	BASE	AVERAGE LIFE
	15599 CLR	3155K Krypton	18.5		Wedge	5,700 hrs.
	15598 CLR	3156K Krypton	24.4		Wedge	5,000 hrs.
বিট	17011	Q10T3 Halogen	10		Bi-Pin	10,000 hrs.
	17012	Q20T3 Halogen	20		Bi-Pin	5,000 hrs.
	17021	901X Xenon	4		Wedge	19,000 hrs.
	17022	918X Xenon	6.5		Wedge	8,000 hrs.
	17023	912X Xenon	11.6		Wedge	10,000 hrs.
	17025	921X Xenon	16.25		Wedge	10,000 hrs.
	17033	PAR36 Halogen	20	Flood 30°	Screw Terminal	4,000 hrs.
R	17040	PAR36 Halogen	35	Flood 30°	Screw Terminal	4,000 hrs.
A	17046	PAR36 Halogen	50	Narrow Flood 20°	Screw Terminal	4,000 hrs.
	17047	PAR36 Halogen	50	Flood 30°	Screw Terminal	4,000 hrs.
	17052	MR11 Halogen	20	Flood 30°	Bi-Pin	2,000 hrs.
	17057	MR11 Halogen	35	Flood 30°	Bi-Pin	2,000 hrs.
	17062	MR16 Halogen	20	Flood 36°	Bi-Pin	5,000 hrs.
	17072	MR16 Halogen	35	Flood 36°	Bi-Pin	5,000 hrs.
	17082	MR16 Halogen	50	Flood 36°	Bi-Pin	5,000 hrs.
	17083	MR16 Halogen	50	Wide Flood 60°	Bi-Pin	5,000 hrs.
	17077	MR16 Halogen	35	Flood 36°	Bi-Pin	10,000 hrs.
	17087	MR16 Halogen	50	Flood 36°	Bi-Pin	10,000 hrs.
	15572 FRO	A19 12 V	25		Medium	

\*Ideal for side mount path, deck/step, wall wash fixtures and more.

Multiply fixture VA by the number of fixtures used to determine size of transformer.

Stated lumens are for bare lamps only. Using lamps in enclosed fixtures can result in up to 30-40% loss in lumen output based on test data.

ore.

All lamps are listed or certified by UL, ETL, and/or CSA to the appropriate ANSI/standard for both the United States and Canada and have tested for FCC compliance, assuring they won't interfere with other home electronic devices. So, you don't have to worry about inadvertent interference.

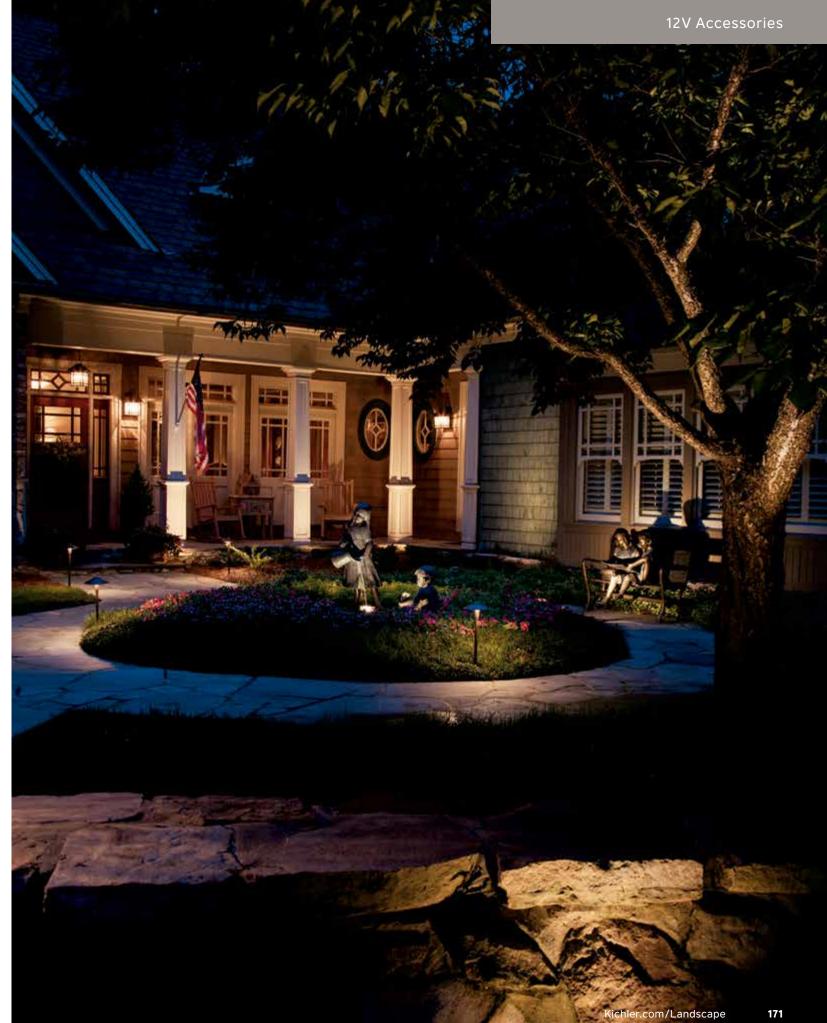




# 12V Accessories

### LED and Incandescent

Weights, mounting kits, stems and more – all specifically engineered for 12V LED or incandescent projects. Not sure what accessories your job might require? Contact our Product Solutions and Layout team (pg. 8) for expert advice.



Mounting Accessories	ltem N	lumber	Notes	Mounting Accessories	Item Number	Notes
Concrete Installation Kit	16501 BBRP		<ul> <li>Drive-over and walk-over rated to 4,500 lbs.</li> <li>Throw-away debris lid</li> <li>Includes two steel support rods</li> <li>For use with fixtures 4W, 6.5W &amp; 14W –</li> <li>16030, 16031, 16032, 16033, 16034, 16035, 16036, 16037, 16038</li> </ul>	Elbow 1.18" W 2.09" H 1.35" L	<b>15647</b> AZT, BBR, BKT	When combined with a stem, this accessory creates a 90° angle to offer more ways to utilize our accent fixtures as a path, area or down light. Cast Aluminum or Cast Brass housing. Textured Architectural Bronze (AZT), Bronzed Brass (BBR) or Textured Black (BKT) finish. Stabilizer set screw included.
Fixture Mounting Stems	.25-18 NPSM Thd. Stems .5" Dia.	.5-14 NPSM Thd. Stems .75" Dia.	All stems made of corrosion-resistant aluminum alloy (except BBR, which is Cast Brass) with	Stem Coupler .5-14 NPSM Thd. 1.5" H	<b>15649</b> AZT, BBR, BKT	Aluminum (except BBR, which is Brass) coupler. For use with .5" NPSM stems.
	Overall	Overall	baked thermoset powder coating to match fixtures.			
	12" <b>15651</b> AZT, BKT	6" <b>15645</b> AZT, BBR, BKT	Used with: • In-ground support stakes (low-voltage only) • Surface mounting flange (low or line voltage)	Surface Mounting Flange	<b>15601</b> AZT, BBR, BKT, WHT	For 12V or 120V installations, surface flange must be used with junction box (not included). Neoprene gasket supplied to ensure
	18" <b>15652</b> AZT, BKT	12" <b>15656</b> AZT, BBR, BKT	.5-14 NPSM stems will require additional Coupler (15649) or Elbow (15647) for accent	4"D .5-14 NPSM Thd.	13001 AZ1, DDR, DK1, WH1	water-tight seal. BBR is Bronzed Cast Brass. AZT, BKT and WHT are Cast Aluminum.
	24" <b>15653</b> AZT, BKT <i>Reference fixture</i>	18" <b>15657</b> AZT, BBR, BKT 24" <b>15658</b> AZT,	light use.	Flange Mounting Nipple	<b>15602</b> AL	Anodized aluminum nipple. Used when attaching fixture directly to 15601 Flange and 15607 Bracket.
	specifications for proper stem	BBR, BKT		NPSM Thd.		
				Surface Mounting Bracket		For use with low-voltage fixtures.
Adjustable Height Stems			For use with most 12V accent fixtures. Corrosion-resistant aluminum alloy with baked		<b>15607</b> AZT, BBR, BKT, WHT	Corrosion-resistant Cast Aluminum alloy with baked thermoset powder coat finish. Low voltage only.
			thermoset powder coat finish.	1.5" x 2.5" x 1" .5-14 NPSM Thd.		BBR is Bronzed Cast Brass.
Extends from 18"	<b>15570</b> AZT, BKT		Stem allows fixture height to be extended for plant growth. Used with in-ground support stakes (order separately).	Out of Water Bracket		Stainless Steel easy-mount bracket for use above ground on any surface – ideal for wood and
to 33" e			.5-14 NPSM stems will require additional Coupler (15649) or Elbow (15647) for accent light use.	2.52" W	<b>15777</b> SS For use with fixture: 15711 SS	masonry when used on decks, patios or overhangs.
Bollard Mounting Kit	18" <b>15665</b> AZT, BKT		Bollard kit is supplied with cast aluminum internal mounting plate including lag bolts for			
4.0625" ID 4.25" OD	24" <b>15666</b> AZT, BKT 36" <b>15667</b> AZT, BKT	For use with fixtures: 15005, 15011, 15205, 15211	deck or surface mounting. Extruded aluminum bollard finished with baked thermoset powder coat. Order separate bollard template kit for installation into concrete or bollard mounting stake for installation in soil. UL and CSA listed.	Multi-Fixture Weighted Base 3.375" W	<b>15776</b> BK For use with fixture: 15711 SS	Heavy-weighted, three-pronged underwater accessory for two or three fixtures to give maximum flexibility and directional capability.
Bollard Template Kit		For use with	For use with all bollard mounting kits. For permanent installation into concrete.	Single Fixture Weighted Base		Heavy-weight, one-prong underwater light accessory for standard installations. Provides
*3.8° 	<b>15671</b> ST	fixtures: 16130, 16131, 16132, 16133	Template kit includes positioning template, anchor bolts and mounting hardware.	3.375" W	<b>15778</b> BK For use with fixture: 15711 SS	advanced directional capability.
Bollard Mounting Stake	<b>15578</b> BK	For use with fixtures: 16130 AZT, BKT 16131 AZT, BKT 16132 AZT, BKT 16133 AZT, BKT	For use with all bollard mounting kits on 12V and 120V fixtures.* Improved extruded PVC stake is corrosion-resistant and 23" length has increased support and stability. Fitting provided to mount bollard in soil. *As allowed by local electrical codes.	Junction Box Mounting Bracket 2.39" W 5.56" H	<b>15609</b> AZT, BKT, CBR, WHT	Corrosion-resistant Cast Aluminum alloy with baked thermoset powder coat finish. Use with 12V and 120V fixtures.
Polymeric Support Stakes	<b>15575</b> BK - 8" In-gra <b>15576</b> BK - 14" In-gr		For use with 12V fixtures. Injection molded stakes are corrosion-resistant and provide maximum support and stability. U.S. Patent No. D415,018	1LED Hardscape Bracket .66" W .6" H 3" L	<b>15716</b> SS For use with fixtures: 15744 or 15734	Brackets mount to parallel surfaces and hold fixture in place. For use in hardscape installations where the masonry plate cannot be used or in non-hardscape applications where there is no or inadequate overhang surface area. Mounting hardware included.

Mounting Accessories	Item Number	Notes	Lens Accessories	Item Number	Notes
3 LED Flat Mounting Bracket	<b>15717</b> SS	Brackets mount to parallel surfaces and hold fixture in place. For use in hardscape installations where the masonry plate cannot be used or in non-hardscape applications where there is no, or an inadequate, overhang surface area. Mounting hardware included.	Amber Lens	Integrated LED:           16071 AMB         For use with: 16015-16017           16072 AMB         For use with: 16018-16020           15875 AMB         For use with: 16150-16158	Warms light to an amber hue at around 2500K. Designed specifically for LED lighting
6 LED Flat Mounting Bracket	<b>15718</b> SS	Brackets mount to parallel surfaces and hold fixture in place. For use in hardscape installations where the masonry plate cannot be used or in non-hardscape applications where there is no, or an inadequate, overhang surface area. Mounting hardware included.	Green Foliage Lens	Integrated LED:           16071 GRN         For use with: 16015-16017           16072 GRN         For use with: 16018-16020           15885 GRN         For use with: 16150-16158	Intensifies the green color of foliage and is an option for moon lighting for a cooler effect. Designed specifically for LED lighting
9 LED Flat Mounting Bracket	<b>15719</b> SS	Brackets mount to parallel surfaces and hold fixture in place. For use in hardscape installations where the masonry plate cannot be used or in non-hardscape applications where there is no, or an inadequate, overhang surface area. Mounting hardware included.	Frosted Lens	Integrated LED:           16071 FRO         For use with: 16015-16017           16072 FRO         For use with: 16018-16020           15895 FRO         For use with: 16150-16158	Creates a soft focus and diffuses the light to provide even, clean illumination
Gutter Mount 2.75" W .75" H 4" L	<b>15489</b> CBR	Surface mount accessory sits cleanly above a gutter for second story or dormer lighting. Mounting hardware included.		Retrofit:         For use with: 15382           15672 FRO         For use with: 15092, 15384, 15484, 15494           15633 FRO         For use with: 15398           15643 FRO         For use with: 15374           15691 FRO         For use with: 15381	
3" Round Mounting Base	<b>15493</b> CBR	Simple mounting base for a variety of surfaces. Mounting hardware included.	Red Lens	Integrated LED:           16071 RD         For use with: 16015-16017           16072 RD         For use with: 16018-16020           15875 RD         For use with: 16150-16158	Colorizes the light beam for a holiday red effect.
Male/Female Riser	3" <b>15509</b> CBR 6" <b>15510</b> CBR 12" <b>15511</b> CBR	Dual male and female stems give you height where you need upward extension. No couplers needed.	Holiday Green Lens	Integrated LED: 16071 HGRN For use with: 16015-16017 16072 HGRN For use with: 16018-16020 15875 HGRN For use with: 16150-16158	Colorizes the light beam for a holiday green effect.
	<ul> <li>18" 15512 CBR</li> <li>24" 15513 CBR</li> </ul>		Blue Lens	Retrofit:         For use with: 15398           15631 BL         For use with: 15398           15641 BL         For use with: 15374           15673 BL         For use with: 15382           15686 BL         For use with: 15092, 15384,	Brings out the true rich green color in foliage, especially in evergreens.
90° Elbow	<b>15514</b> CBR	Creates a 90 degree angle which can be used for area or path lighting with an accent light.		15484, 15485, 15494 <b>15687</b> BL       For use with: 15381 <b>15693</b> BL       For use with: 15397	
2.75" L <b>Two Fixture Mount</b> 2" W 1" H 2" L	<b>15515</b> CBR	Two fixture mount allows for up and down lighting, dual fixture sign or wall applications, or area lighting.	Linear Lens	Retrofit:         For use with: 15382           15674 LIN         For use with: 15382           15675 LIN         For use with: 15092, 15384, 15484, 15494           15632 LIN         For use with: 15398           15642 LIN         For use with: 15374           15692 LIN         For use with: 15381	Create a directional beam to highlight or elongate the beam spread on columns, arches, taller trees and wider objects. Turns a circular accent light beam into a rectangular shape.
<b>Tree Bracket</b> 1.5" W 1.25" H 6" L	<b>15516</b> CBR	Inexpensive mounting solution for tree or surface mounting applications.			

Lens/Shield Accessories	Item Number	Notes	Shield Accessories	Item Number	Notes
Polycarbonate Lens	Integrated LED:           15677 CLR         For use with: 15827           15695 CLR         For use with: 15815           Retrofit:         15695 CLR           15695 CLR         For use with: 15315	Provides additional internal protection from lawn sprinklers, etc.	Rock Guard - Polycarbonate	<b>16051</b> BBRP For use with: 16030-16038	Feature water-weeping channels for drainage. Easy, two-screw installation. Walk-over rated.
Heat-Resistant Lens	Retrofit:           15659 AZT         For use with: 15079           15689 BK         For use with: 15088, 15388	Heat-resistant glass lens held in an aluminum ring.	Rock Guard - Cast Brass	<b>16051</b> BBR For use with: 16030-16038	Drive-over and walk-over rated up to 4,500 lbs.
Cowl - Polycarbonate 2.5"	<b>16050</b> BBRP For use with: 16030-16038	Feature water-weeping channels for drainage. Easy, two-screw installation.	Rock Guard 5.9" Dia. 1.686" H	Integrated LED: 15787 BK For use with: 15767, 15769, 15728, 15748, 15729, 15757, 15758	Rock Guard/Glare Shield accessory for LED wel lights. High-strength, UV and corrosion-resistar polycarbonate housing. Black Polycarbonate finish.
Cowl - Cast Brass	<b>16050</b> BBR For use with: 16030-16038	Feature water-weeping channels for drainage. Easy, two-screw installation.	6.97" Dia. 1.29" H	<b>Retrofit:</b> <b>15694</b> AZ For use with: 15194, 15268	Rock Guard/Glare Shield corrosion-resistant for use with incandescent well lights. Architectural Bronze polycarbonate finish.
Small Long Cowl	<b>16067</b> AZT, BKT, CBR For use with: 16015-16017	Ideal solution for downlighting where increased glare control is needed.	5.9" Dia. 1.686" H	<b>Retrofit:</b> <b>15690</b> BK For use with: 15088, 15388	Rock Guard/Glare Shield accessory for incandescent well lights. High-strength, UV and corrosion-resistant polycarbonate housing. Black polycarbonate finish.
Large Long Cowl 5.75"	<b>16068</b> AZT, BKT, CBR For use with: 16018-16020	Ideal solution for downlighting where increased glare control is needed.	Rock Guard - Solid Brass with Clear Lens 4.5" Dia. 1" H	Retrofit: 15482 CBR For use with: 15481	Rock Guard/Glare Shield accessory for Centennial Brass in-ground fixture. Optional clear lens provided.
Small 360° Cowl	<b>16069</b> AZT, BKT, CBR For use with: 16015-16017	Full cut-off shrouding for expanded glare control at all viewing angles.	Hexcell Louver	Retrofit:           15634 BK         For use with: 15398           15644 BK         For use with: 15374           15679 BK         For use with: 15092, 15384, 15484, 15494           15680 BK         For use with: 15381	Expanded aluminum shield with high temperature black finish. Provides maximum glare reduction for accent lights.
Large 360° Cowl 4.4"	<b>16074</b> AZT, BKT, CBR For use with: 16018-16020	Full cut-off shrouding for expanded glare control at all viewing angles.		Ison as with: 1501           15683 BK         For use with: 15397           Integrated LED:         16073 BK           16075 BK         For use with: 16015-16017           16075 BK         For use with: 16018-16020	
Long Cowl	<b>16076</b> AZT, BKT, CBR For use with: 16150-16158	Ideal solution for downlighting where increased glare control is needed.		<b>FM127265</b> For use with: 15810, 15811, 15826, 15839, 15850, 15870, 16120, 16121, 16125	For glare control if on extreme elevations. Held in place with included reflector. For use with LED Path Lights utilizing the downward module

LED Controller Accessories	Item Number	Notes	Connection Accessories	Item Number	Notes
Remote 3.93" L 1.33" W	<b>16080</b> BK	Allows the user to independently control lighting zones based on pre-defined programs. This enables the homeowner to temporarily override schedules on individual zones by turning the lights on/off at any given time. Can also be used as a secondary programmer.	Low-Voltage Cable	15501 BK 100'12-gauge15502 BK 250'12-gauge15503 BK 250'8-gauge15504 BK 250'10-gauge15505 BK 500'12-gauge15506 BK 1000'12-gauge	#12-2, #10-2, 8-2 conductor SPT cable. UL listedfor 12V outdoor lighting applications. UV stabilized PVC insulation. For direct burial.
Range Extender 1.83" L 1.83" W	<b>16081</b> WH	Allows for wireless range extension (additional 300 ft.) between wireless devices (ex. power supply-to-power supply) Plugs into any standard 120V outlet (dry location, indoors only).	Gel-Filled Wire Connector	15579BK - blue8 & 10-gauge cable15589BK - red12-gauge cable	Wire connector offers one-step, twist-on, waterproof, in-line cable splicing for direct burial. Services both 12V or 120V line voltage.
Wire EZPull 250' Boxes	<b>16088</b> BK - #14-2 Wire <b>16089</b> BK - #16-2 Wire	14 and 16 gauge direct burial wire can now be used with Kichler's Design Pro LED Controller. Available in 250' EZ Pull boxes for added convenience. To be used only with the Design Pro LED Controller. See Kichler DC voltage drop calculator to calculate wire runs.	QUIK DISC <sup>®</sup> Connector	<b>15509</b> BK	<b>For use with #12-2 or #10-2 low-voltage cable</b> <b>only.</b> Joins #18-2 SPT-1W fixture leads with #12-2 or #10-2 low-voltage cable. Injection molded polycarbonate with nickel-plated brass contacts to provide maximum corrosion protection and improved conductivity.
Vera <sup>™</sup> Edge	<b>16082</b> BK	Allows for wireless app control and advanced schedules with plug in relays and Design Pro LED Controllers.	Pro Series Wire Connector	15529 BL	Bulk pack of 100 connectors, packed in sealed bags of 10. Gel-filled wire connector provides watertight long-lasting connection. Suitable for direct burial. Connects two #12 gauge to one #18 gauge.Two connectors required per connection.
Vera <sup>™</sup> Plus	<b>16083</b> BK	Allows for wireless app control and advanced schedules with plug in relays and Design Pro LED Controllers.	Low-Voltage Power Conditioner (LVPC)	<b>16059</b> BK	<b>Master pack of 5.</b> Protects against electrical spikes and power irregularities. Ensures safe power levels to fixture. Precautionary sacrificial barrier in the event of surges over 3000 volts. For use with all LED 12V products.

Transfo	rmer Accessories	Item Number	Notes
Mechanical Transformer Timer	3" W 3.09" H 2.75" L	<b>15557</b> BK	Plug-in timer suitable for outdoor temperatures when enclosed in an outdoor transformer enclosure. For use in all Professional, Contractor & Plus series transformers.
Digital Transformer Timer	2.73" W 3.84" H 1.89" L	15556 WH	Plug-in digital timer for use in all Professional, Contractor & Plus series transformers. Battery backup included. Straight forward programming and easy day light savings change over.
Plug-in Transformer Remote Photocell	Q	<b>15534</b> BK	Plug-in photocell with 10' cord is for use in all Professional, Contractor & Plus series transformers.
Plug-in Transformer Photocell		<b>15565</b> BK	Plug-in photocell is for use in all Professional, Contractor & Plus series transformers.
Synchronizer Device		<b>15511</b> BK	Synchronize all transformers used in a landscape setting so they turn on and off at the same time. Jumper wire (not included) should be a minimum of 24 gauge.



ltem Number	Notes
	A great tool for designing your landscape lighting system. Plot out your landscape lighting needs with these green marker flags.
	Specially formulated, non-conductive sealant and corrosion preventative for all types of electrical contacts. Its grease-like consistency helps prevent intrusion of dust, moisture and rust. Apply to socket shell and bulb base. Acts to increase bulb and socket life. 2-oz. tube.

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# 120V Lighting

Kichler<sup>®</sup> 120V integrated LED and incandescent lighting is available in accent, flood and in-ground options for a variety of new or retrofit commercial landscape lighting applications. Each offers exceptional durability, a clear and clean quality of light, sleek designs, and incredible energy savings: all while keeping your project budget in line.

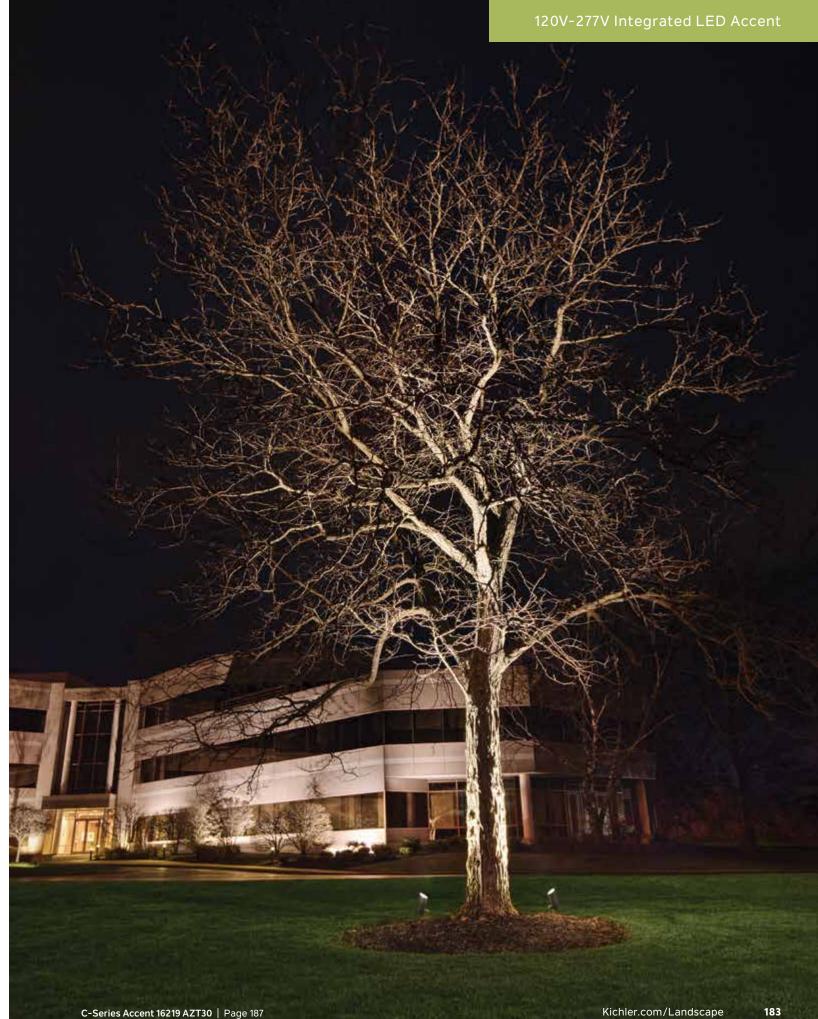
### 120V-277V Integrated LED Accent



# 120V-277V Accent

Integrated LED C-Series (Commercial)

You can count on our LED fixtures to pay for themselves on average in less than two years with a lower cost of ownership than traditional light sources. Incandescent options provide additional solutions to meet client demands.



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# LED Commercial Outdoor Lighting that lives up to the Kichler name and your reputation.

### **ACCENT & FLOOD LIGHTING**

### Center-to-edge optics

C-Series Accents and Floods offer center-to-edge optics for precise and uniform beam spread with no artifacts. In addition, each fixture is designed with 3-step binning to deliver a consistent color from fixture to fixture.

### Potted driver

is fully potted to protect against water ingression, which ensures long-lasting performance.

### Plugged knuckle cavity with strain relief and internal cord grip

sustem prevents movement to reinforce a secure connection at the source.

Multi-layer front lens seal ensures a moistureresistant seal

### Dual cavity design

with cast aluminum housing divided into two independent compartments to protect the optical chamber and the LED from the operating heat of the driver.

### Internal thermal management

happens with internal cast heat sinking to repel heat from the driver to maximize lifetime and performance.

Built-in draining

the fixture.

### Machined threads and lock nuts for simple

installations and adjustability.



with deep grooved teeth for stronger engagement that is less likely to wear down.





### The sturdy design of the Kichler C-Series line delivers years of quality light performance.

### **Exceptionally Engineered**

The C-Series line provides 120V-277V universal voltage from one fixture and contains built-in surge protection (4kV). The durable knuckle features clean-cut, deep ridges for a stronger engagement and comes equipped with vandal-resistant hardware for extended durability. And, our sleek designs feature die-cast, all-metal housings finished with a polyester powder coating that stands up to environmental demands.





Sleek and coordinating designs

Thick-gauge, cast metal housings

### These integrated fixtures come in a variety of beam spreads.

Use the 15-degree beam spread for tall, thin applications, 40-degree for medium height and width elements, and 55-degree for short, wide beams on broad structures or trees.

### **Designed for Performance**

Our C-Series LED fixtures feature the latest in LED technology with center-to-edge optics for a precise beam spread that is uniform and crisp. Our 3-step binning process also assures the color you choose -3000K or 4000K - is consistent from fixture to fixture.



Textured powder coat finish



Center-to-edge optics







### C-Series Accent

	Small Acc	c <b>ent</b> – 5.3W	Small Ac	c <b>ent</b> – 10W
Finishes	AZT (sh	own), BKT	BKT (sl	nown), AZT
Color Temperature	3000K - Pure White	4000K - Cool White	3000K - Pure White	4000K - Cool White
	15° Beam Spread 16209 AZT30 16209 BKT30	<b>15° Beam Spread</b> <b>16209</b> AZT40 <b>16209</b> BKT40	<b>15° Beam Spread</b> <b>16212</b> AZT30 <b>16212</b> BKT30	<b>15° Beam Spread</b> <b>16212</b> AZT40 <b>16212</b> BKT40
Item Number by Beam Spread and Finish	40° Beam Spread 16210 AZT30 16210 BKT30	40° Beam Spread 16210 AZT40 16210 BKT40	<b>40° Beam Spread</b> <b>16213</b> AZT30 <b>16213</b> BKT30	40° Beam Spread 16213 AZT40 16213 BKT40
	55° Beam Spread 16211 AZT30 16211 BKT30	55° Beam Spread 16211 AZT40 16211 BKT40	55° Beam Spread 16214 AZT30 16214 BKT30	55° Beam Spread 16214 AZT40 16214 BKT40
Housing	Cast Aluminum		Cast Aluminum	
Wattage/pf, Delivered Lumens & Efficacy	5.3W, .9pf 478 lm, 93 lm/W	5.3W, .9pf 514 lm, 100 lm/W	10W, .9pf 831 lm, 82 lm/W	10W, .9pf 942 lm, 91 lm/W
CRI	80+		80+	
Voltage Range	120V-277V, 50-60Hz. Surg	e protection up to 4kV.		
Light Source	1 integrated high-output Tested to a Lumen Mainte	LED with 3-step binning for ( enance L70 of 40,000 hrs.	color consistency. Custom r	eflector optics.
Notes	Replaces the equivalent o with 3 gel-filled wire nuts. hardware installed. Photo	IP66 rated. Vandal-proof		of a 50W Halogen. Comes s. IP66 rated. Vandal-proof cometrics on page 218.
Accessories	15276 Power Post® 15601 Surface Mounting 15609 Junction Box Mou 15645, 15656, 15657, 1565	nting Bracket		
Dimensions		2.46"	2.87"	

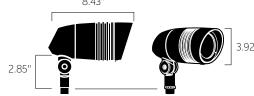


Finishes	AZT (sh	own), BKT	<b>BKT</b> (shown), AZT		
Color Temperature	3000K - Pure White	4000K - Cool White	3000K - Pure White	4000K - Cool White	
ltem Number	<b>15° Beam Spread</b> <b>16215</b> AZT30 <b>16215</b> BKT30 <b>33° Beam Spread</b>	<b>15° Beam Spread</b> <b>16215</b> AZT40 <b>16215</b> BKT40 <b>33° Beam Spread</b>	15° Beam Spread 16218 AZT30 16218 BKT30 33° Beam Spread	15° Beam Spread           16218 AZT40           16218 BKT40           33° Beam Spread	
by Beam Spread and Finish	16216 AZT30 16216 BKT30	16216 AZT40 16216 BKT40	16219 AZT30 16219 BKT30	<b>16219</b> AZT40 <b>16219</b> BKT40	
	<b>55° Beam Spread</b> <b>16217</b> AZT30 <b>16217</b> BKT30	<b>55° Beam Spread</b> <b>16217</b> AZT40 <b>16217</b> BKT40	<b>55° Beam Spread</b> <b>16220</b> AZT30 <b>16220</b> BKT30	55° Beam Spread 16220 AZT40 16220 BKT40	
Housing	Cast Aluminum		Cast Aluminum		
Wattage/pf, Delivered Lumens & Efficacy	14W, .9pf 1263 lm, 90 lm/W	14W, .9pf 1374 Im, 96 Im/W	21W, .9pf 2015 lm, 97 lm/W	21W, .9pf 2111 lm, 99 lm/W	
CRI	80+		80+		
Voltage Range	120V-277V, 50-60Hz. Surg	e protection up to 4kV.			
Light Source	1 integrated high-output Tested to a Lumen Mainte	LED with 3-step binning for c enance L70 of 40,000 hrs.	olor consistency. Custom re	eflector optics.	
Notes	Replaces the equivalent of with 3 gel-filled wire nuts. hardware installed. Photo	IP66 rated. Vandal-proof	Replaces the equivalent of a 35W Metal Halide. Comes with 3 gel-filled wire nuts. IP66 rated. Vandal-proof hardware installed. Photometrics on page 218.		
Accessories	15276 Power Post <sup>®</sup> 15601 Surface Mounting Flange 15609 Junction Box Mounting Bracket 15645, 15656, 15657, 15658 Stems				
Dimensions		8.43"	3.92"		



### Large Accent – 21W





# Accent

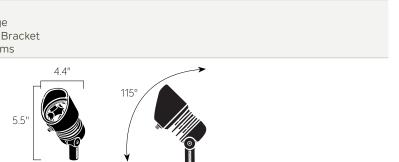


	S	Small Accent – 12.5W			Large Accent – 19.5W				
Finish	BBR				BBR				
Color Temperature	3000K - Pure	e White	4250K - Coo	l White	3000K - Pur	e White	4250K - Coo	l White	
	<b>10° Beam Sp 16200</b> BBR3		<b>10° Beam S</b> p <b>16200</b> BBR4			<b>10° Beam Spread</b> <b>16202</b> BBR30		<b>10° Beam Spread</b> <b>16202</b> BBR40	
Item Number by Beam Spread and Finish	<b>35° Beam Sp</b> <b>16201</b> BBR30		35° Beam Spread 16201 BBR40		<b>35° Beam Spread</b> <b>16203</b> BBR30		<b>35° Beam Spread</b> <b>16203</b> BBR40		
	<b>60° Beam S</b> r <b>16206</b> BBR3		60° Beam Spread 16206 BBR40		60° Beam S 16207 BBR3		60° Beam Spread 16207 BBR40		
Housing	Cast Brass				Cast Brass	Cast Brass			
Wattage/VA, Delivered Lumens & Efficacy	12.5W .13VA, .85pf	590 lm 47 lm/W	12.5W .13VA, .85pf	646 lm 52 lm/W	19.5W .18VA, .90pf	947 lm 49 lm/W	19.5W .18VA, .90pf	993 lm 51 lm/W	
CRI	80+				80+				
Voltage Range	108V-132V, 5	0-60Hz. Surg	e protection up	to 4kV.					
Light Source	for color cor		LEDs with 3-sta ted to a Lumen 00 hrs.		8 integrated high-output LEDs with 3-step binning for color consistency. Tested to a Lumen Maintenance L70 of 40,000 hrs.				
Notes			of a 50W Haloge patina over tim		Replaces the equivalent of a 75W Halogen. IP66 rated. Brass will naturally patina over time.				
Accessories	15601 Surfac 15609 Junct	15276 Power Post <sup>®</sup> 15601 Surface Mounting Flange 15609 Junction Box Mounting Bracket 15645, 15656, 15657, 15658 Stems							
Dimensions	4.75"	3.0"	115°		5.5"	4.4"	115°		

Finish		В	BR			
Color Temperature	3000K - Pure White		4250K - Cool White			
ltem Number by Beam Spread and Finish	16204 BBR30       35° Beam Spread       35° Beam Spread       35° Beam Spread       35° Beam Spread         60° Beam Spread       36° Beam Spread       36° Beam Spread       36° Beam Spread       36° Beam Spread		10° Beam Spread         16204 BBR40         35° Beam Spread         16205 BBR40         60° Beam Spread         16208 BBR40			
Housing	Cast Brass					
Wattage/VA, Delivered Lumens & Efficacy	29W .27VA, .90pf	1131 lm 39 lm/W	29W .27VA, .90pf	1368 lm 47 lm/W		
CRI	80+					
Voltage Range	108V-132V, 50-60Hz. Surge protection up to 4kV.					
Light Source	8 integrated high-outp L70 of 40,000 hrs.	but LEDs with 3-step binning for	color consistency. Test	ed to a Lumen Maintenance		
Notes	Replaces the equivaler	nt of a 100W Halogen. IP66 ratec	d. Brass will naturally pa	tina over time.		
Accessories	15276 Power Post <sup>®</sup> 15601 Surface Mounting Flange 15609 Junction Box Mounting Bracket 15645, 15656, 15657, 15658 Stems					
Dimensions		5.5"	115°			



### Large Accent – 29W



# 120V-277V Flood

Integrated LED C-Series (Commercial)

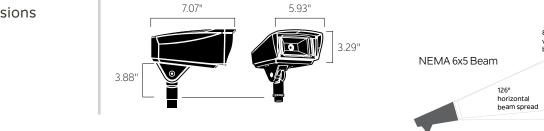
Optimum performance for large areas. Bring a full wash of light to large features: marquee signs, walls, fountains and more.



### 120V-277V Integrated LED Flood

# C-Series Flood

	Small F	ilood – 12W	Small F	<b>Flood</b> – 23W	
Finishes	AZT (shown), BKT		BKT (	shown), AZT	
Color Temperature	3000K - Pure White	4000K - Cool White	3000K - Pure White	4000K - Cool White	
ltem Number by Mounting Type and Finish	Knuckle Mount:           16221 AZT30           16221 BKT30           Trunnion Mount:           16221 AZT30TR           16221 BKT30TR           Slip-Fit Mount:           16221 AZT30SL           16221 BKT30SL	Knuckle Mount:           16221 AZT40           16221 BKT40           Trunnion Mount:           16221 AZT40TR           16221 BKT40TR           Slip-Fit Mount:           16221 AZT40SL           16221 BKT40SL	Knuckle Mount:           16222 AZT30           16222 BKT30           Trunnion Mount:           16222 AZT30TR           16222 BKT30TR           Slip-Fit Mount:           16222 AZT30SL           16222 BKT30SL	Knuckle Mount:         16222 AZT40         16222 BKT40         Trunnion Mount:         16222 AZT40TR         16222 BKT40TR         Slip-Fit Mount:         16222 AZT40SL         16222 BKT40SL	
Housing	Cast Aluminum		Cast Aluminum		
Wattage/pf, Delivered Lumens & Efficacy	12W, .9pf 1120 lm, 89 lm/W	12W, .9pf 1210 lm, 100 lm/W	23W, .9pf 2050 lm, 86 lm/W	23W, .9pf 2080 lm, 89 lm/W	
CRI	80+		80+		
Voltage Range		irge protection up to 4kV			
Light Source	Tested to a Lumen Mai	ut LED with 3-step binning for ntenance L70 of 40,000 hrs.	, ,	· ·	
Notes	Replaces the equivaler Comes with 3 gel-filled Vandal proof hardware page 218.		Replaces the equivalent of a 35W Metal Halide. Comes with 3 gel-filled wire nuts. IP66 rated. Vandal proof hardware installed. Photometrics on page 218.		
Accessories	15276 Power Post® 15601 Surface Mountin 15609 Junction Box M 15645, 15656, 15657, 15	ounting Bracket			
Dimensions	7.07"	5.93"		88°	



vertical beam

AT?	

Medium Flood – 33.5W

Finishes	AZT (sh	own), BKT	<b>BKT</b> (shown), AZT		
Color Temperature	3000K - Pure White	4000K - Cool White	3000K - Pure White	4000K - Cool White	
ltem Number by	Knuckle Mount: 16223 AZT30 16223 BKT30 Trunnion Mount:	<b>Knuckle Mount:</b> 16223 AZT40 16223 BKT40 Trunnion Mount:	Knuckle Mount:           16224 AZT30           16224 BKT30           Trunnion Mount:	Knuckle Mount:           16224 AZT40           16224 BKT40           Trunnion Mount:	
Mounting Type and Finish	16223 AZT30TR 16223 BKT30TR	16223 AZT40TR 16223 BKT40TR	16224 AZT30TR 16224 BKT30TR	16224 AZT40TR 16224 BKT40TR	
	Slip-Fit Mount: 16223 AZT30SL 16223 BKT30SL	Slip-Fit Mount: 16223 AZT40SL 16223 BKT40SL	Slip-Fit Mount: 16224 AZT30SL 16224 BKT30SL	Slip-Fit Mount: 16224 AZT40SL 16224 BKT40SL	
Housing	Cast Aluminum		Cast Aluminum		
Wattage/pf, Delivered Lumens & Efficacy	33W, .9pf 3285 lm, 99 lm/W	33W, .9pf 3495 lm, 104 lm/W	50W, .9pf 4496 lm, 89 lm/W	50W, .9pf 4795 lm, 92 lm/W	
CRI	80+		80+		
Voltage Range	120V-277V, 50-60Hz. Surg	e protection up to 4kV	120V-277V, 50-60Hz. Sur	ge protection up to 4kV	
Light Source		LEDs with 3-step binning for enance L70 of 40,000 hrs.	color consistency. Custor	n reflector optics.	
Notes	Replaces the equivalent of Comes with 3 gel-filled w Vandal proof hardware in page 218.	ire nuts. IP66 rated.	Replaces the equivalent Comes with 3 gel-filled v Vandal proof hardware i page 218.		
Accessories	15276 Power Post® 15601 Surface Mounting 15609 Junction Box Mou 15656, 15657, 15658 Ster	nting Bracket			
Dimensions	4.26"	8.89" 3.58	NEMA 7x5 Beam	88° vertical beam	
	4.26"			131º horizontal beam spread	



### Medium Flood – 52W



# C-Series Flood

		Large Flood – 85W						
Finishes	AZT	(shown), BKT	Additional Finishes					
Color Temperature	3000K - Pure White	4000K - Cool White						
Item Number by	Knuckle Mount:           16225         AZT30           16225         BKT30           Trunnion Mount:	Knuckle Mount: 16225 AZT40 16225 BKT40 Trunnion Mount:	le contra de la co					
Mounting Type	16225 AZT30TR 16225 BKT30TR	16225 AZT40TR 16225 BKT40TR						
and Finish	Slip-Fit Mount: 16225 AZT30SL 16225 BKT30SL	Slip-Fit Mount: 16225 AZT40SL 16225 BKT40SL	вкт					
Housing	Cast Aluminum							
Wattage/pf, Delivered Lumens & Efficacy	85W, .9pf 7529 lm, 89 lm/W	85W, .9pf 8613 lm, 102 lm/W						
CRI	80+							
Voltage Range	120V-277V, 50-60Hz. Surge	protection up to 4kV						
Light Source	2 integrated high-output L Tested to a Lumen Mainter	EDs with 3-step binning for color cor nance L70 of 40,000 hrs.	nsistency. Custom reflector optics.					
Notes		a 200W Metal Halide. Comes with 3 <u>c</u> alled. Photometrics on page 218.	gel-filled wire nuts. IP66 rated.					
Accessories	15276 Power Post® 15601 Surface Mounting F 15609 Junction Box Mount 15645, 15656, 15657, 15658	ing Bracket						
Dimensions	9.56"	11.06"	NEMA 7x6 Beam NEMA 7x6 Beam 131° horizontal beam spread					

The C-Series Floods offer a post with photoeye option and .5" Knuckle, Slip-Fit or Trunnion mounting capabilities.

### Accessories:

15276 Power Post® **15601** Surface Mounting Flange **15609** Junction Box Mounting Bracket **15645**, **15656**, **15657**, **15658** Stems Knuckle Mount .5" NPSM trade size fittings

### **C-Series ACCENT LIGHTS** are ideal for:



Between Windows



Entry-Way Architecture





### **C-Series Delivers**

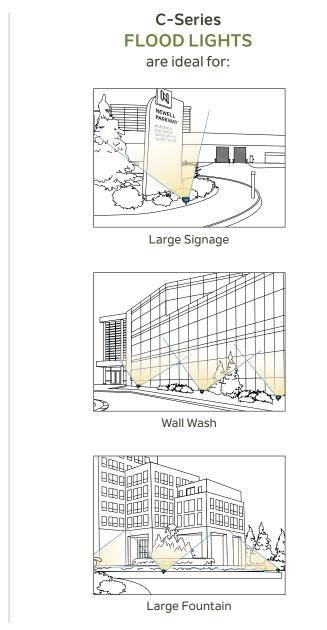




Slip-Fit Mount (SL) 2" trade size for post mount



Trunnion Mount (TR) Surface mount for variety of different mounting options.



# Outdoor Wall Lights





50.9 12.7 5.7 3.2

2

	Outdoor Up & Down Lantern				Outdoc	or Lan	tern			
Finishes	BKT (	shown),	AZT	-	ditional nishes	AZT (	shown), I	вкт	1	Additional Finishes
Color Temperature	3000K - Pure White					3000K - Pure White				
Item Number and Finish	<b>11251</b> AZT30 <b>11251</b> BKT30					<b>11250</b> AZT30 <b>11250</b> BKT30				
Housing	Cast Aluminum with powder coat finish and polycarbonate top shield				Cast Aluminum with powder coat finish		vder			
Power Usage at 120V AC Input VA and Watts	15W	15W				11W				
CRI	90+				AZT	90+				BKT
Voltage Range	120V-277V AC, 50-60 Hz					120V-277V AC, 50-60 Hz				
Light Source	Integrated hig Tested to a Lu				)0 hrs.	Integrated high-output LEDs and drivers. Tested to a Lumen Maintenance L70 of 40,000 hrs.				
Delivered Lumens & Efficacy	550 lm		37 lm/W	/		350 lm		32 lm	ı/W	
Wiring	8" of usable 10	)5°C, 18 AW	G wire leads			8" of usable 105°C, 18 AWG wire leads				
Notes	🕲 Energy-ef	ficient				<b>W ()</b> Perfectence energy-efficie		ky applic	ations a	and
Dimensions Photometrics	5" sq.				5" sq.	5"	7.0"			
Distance from Light (ft.)	4.2'	8.4'	12.5'	16.7'	20.9'	4'	8.3'	12.4'	16.5	20.6'

2.1

3.3

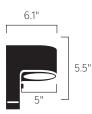
52.1 13 5.8

	Outdoor Wall						
Finishes			BI	KT (show	vn), AZT		Additional Finishes
Color Temperature	3000K - Pure	White					
Item Number and Finish	11077 AZT 11077 BKT						
Housing	Cast Aluminu	m with pov	vder coat	finish			
Power Usage at 120V AC Input VA and Watts	15W						
CRI	80+						AZT
Voltage Range	120V-277V AC	120V-277V AC, 50-60 Hz					
Light Source	Integrated hig	Ih-output I	_EDs and (	drivers. Te	sted to a Lu	men Maintenance L70 of 40,000	) hrs.
Delivered Lumens & Efficacy	400 lm					27 lm/W	
Wiring	8" of usable 10	95°C, 18 AW	'G wire lea	ds			
Notes	🛛 🕲 Perfect	for Dark S	iky applica	ations			
Dimensions Photometrics					6.	1" 5.5"	
Distance from Light (ft.)	2.7'	5.5'	8.2'	11'	13.7'		
Foot-candles	82.5	20.6	9.2	5.2	3.3		

Foot-candles



# Outdoor Wall





# 120V Retrofit Accent

Retrofit with LED Lamps

Choose from retrofit options for a variety of applications. Each delivers the powerful quality of light needed for high-traffic walkways, commercial buildings and retail complexes.







# Retrofit Accent

	Small	Accent	Medium	n Accent
Finishes	AZT (shown), BKT	Additional Finishes	<b>BKT</b> (shown), AZT	Additional Finishes
Item Number and Finish	15231 AZT 15231 BKT		<b>15241</b> AZT <b>15241</b> BKT	()+
Housing	Cast Aluminum with tempered convex glass lens.	вкт	Cast Aluminum with tempered convex glass lens.	AZT
Lamp Base	4000V (4kV) pulse-rated,	medium base porcelain sock	et	
Lamp Options-Power usage at 120V AC input	Incandescent: 35W Max. PAR20 Metal Halide or 50W Max. PAR20/R20 Incandescent	LED: 7W PAR20 Wet (18081-18086) Compares up to 35W Halogen	Incandescent: 35W Max. PAR30L Metal Halide or 75W Max. PAR30L/R30 Incandescent	LED: 12W PAR30L Wet (18111-18116) Compares up to 50W Halogen
Wiring	8" of usable 200°C, 18 AW	G wire leads		
Notes	Accents require remote b see page 212.	allasts for High Intensity Disc	harge. For 120V lamp guide a	and lamp photometrics,
Accessories	Mounting: 15276 BK Power Post® 15601 Surface Mounting E 15609 Junction Box Moun		Lenses: 15640 Medium Cowl 15648 Long Cowl 15624 Blue Filter 15638 Hexcell Louver	
Dimensions	7.25" 6.5"	" 90°	9" 7"	



Large <i>i</i>	Accent	Small Compact				
nown), BKT	Additional Finishes	AZT				
		<b>15230</b> AZT				
inum with convex	вкт	Cast Aluminum				
V) pulse-rated, r	nedium base porcelain socke	et				
cent: PAR38 de, 100W Max. Halide or . PAR38/R40 ent. Reflector: h E17 lamp. e for PAR38/	LED: 17W PAR38 Wet (18093-18098) Compares up to 75W Halogen	Incandescent: 35W Max. PAR20 Metal Halide or 50W Max. PAR20 Incandescent				
e 200°C, 18 AWG	wire leads					
equire remote ba 212.	llasts for High Intensity Discl	harge. For 120V lamp guide and lamp photometrics,				
: Power Post® ace Mounting Br ction Box Mount						
dium Cowl g Cowl	15623 Blue Filter 15637 Hexcell Louver	Lenses: 15630 Cowl with tempered glass lens				
10"	90°	6" 90°				

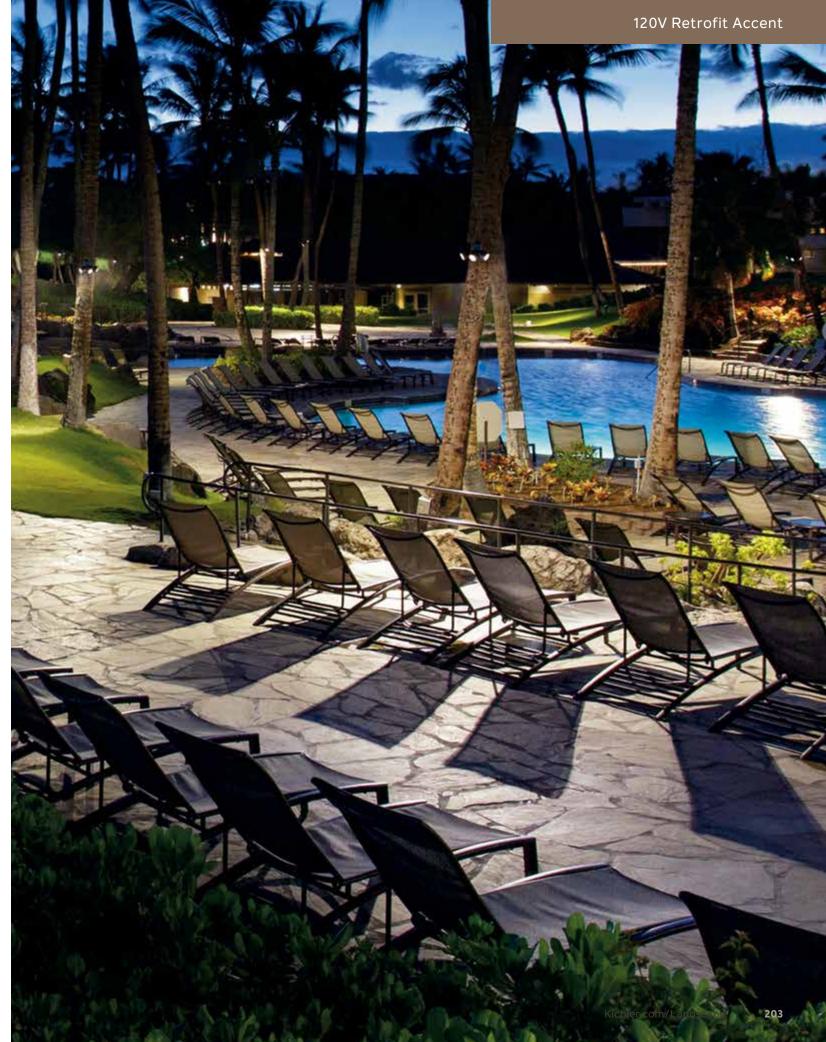
	Large	Accent	Small Compact
Finishes	AZT (shown), BKT	Additional Finishes	AZT
Item Number and Finish	<b>15251</b> AZT <b>15251</b> BKT	1-	<b>15230</b> AZT
Housing	Cast Aluminum with tempered convex glass lens.	вкт	Cast Aluminum
Lamp Base	4000V (4kV) pulse-rated, i	medium base porcelain socke	et
Lamp Options-Power usage at 12V AC input	Incandescent: 175W Max. PAR38 Metal Halide, 100W Max. E17 Metal Halide or 150W Max. PAR38/R40 Incandescent. Reflector: for use with E17 lamp. Removable for PAR38/ R40 use.	LED: 17W PAR38 Wet (18093-18098) Compares up to 75W Halogen	Incandescent: 35W Max. PAR20 Metal Halide or 50W Max. PAR20 Incandescent
Wiring	8" of usable 200°C, 18 AWG	) wire leads	
Notes	Accents require remote ba see page 212.	allasts for High Intensity Discl	harge. For 120V lamp guide and lamp photometrics,
Accessories	Mounting: 15276 BK Power Post® 15601 Surface Mounting B 15609 Junction Box Mount Lenses: 15620 Medium Cowl		Lenses:
Dimensions	15628 Long Cowl 8"	15637 Hexcell Louver	<b>15630</b> Cowl with tempered glass lens

# Retrofit Accent



	Large C	Compact	Downlight			
Finishes	A	ZT	A	AZT		
Item Number and Finish	15250 AZT		15255 AZT			
Housing	Cast Aluminum		Cast Aluminum			
Lamp Base	4000V (4kV) pulse- rated,	medium base porcelain sock				
Lamp Options-Power usage at 120V AC input	Incandescent: 100W Max. PAR38 Metal Halide or 100W Max. PAR38 Incandescent	LED: 12W PAR30L Wet (18111-18116) Compares up to 50W Halogen	Incandescent: 175W Max. PAR38 Metal Halide, 100W Max. E17 Metal Halide or 150W Max. PAR38/R40 Incandescent Reflector: for use with E17 Iamp. Removable for PAR38/R40 use.	LED: 17W PAR38 Wet (18093-18098) Compares up to 75W Halogen		
Wiring	8" of usable 200°C 18 AWG	8" of usable 200°C 18 AWG wire leads				
Notes	Accents require remote ba Discharge. For 120V lamp ( photometrics, see page 21	guide and lamp	Available as surface or tree mounted. Accents require remote ballasts for High Intensity Discharge. For 120V lamp guide and lamp photometrics, see page 212.			
Accessories	Mounting: 15276 BK Power Post® 15601 Surface Mounting Bracket 15609 Junction Box Mounting Bracket Lens/Shield: 15620 Medium Cowl 15628 Long Cowl 15623 Blue Filter 15637 Hexcell Louver		Mounting: 15601 Surface Mounting Bracket 15609 Junction Box Mounting Bracket Shield: 15660 Medium Cowl 15668 Long Cowl			
Dimensions	7" 5"	90°	8" 9" 6.6"	90°		





# Retrofit In-Ground

120V LED & Incandescent Fixtures





	In-Gi	round PAR38	Small In-Ground PAR20/PAR30		
Finishes		AZ	AZ		
Item Number and Finish	15295 AZ		15268 AZ		
Housing		ic composite resin. Tempered y sealed against water.	Durable thermoplastic convex glass lens fully	c composite resin. Tempered sealed against water.	
Lamp Base	4000V (4kV) pulse-ra	ated, medium base porcelain sock	et		
Lamp Options-Power usage at 120V AC input	Incandescent:LED:150W Max. PAR387W PAR20 Wet (18081-18086)IncandescentCompares up to 35W Halogen12W PAR30 Wet (18087-18092)Compares up to 50W Halogen12W PAR30L Wet (18111-18116)Compares up to 50W Halogen		Incandescent: 75W Max. PAR20 or PAR30 Longneck Incandescent	LED: 7W PAR20 Wet (18081-18086) Compares up to 35W Halogen 12W PAR30 Wet (18087-18092) Compares up to 50W Halogen 12W PAR30L Wet (18111-18116) Compares up to 50W Halogen	
Adjustable Lamp Assembly	15° vertical tilt, 358° ro locking mechanism	otation with wing-nut	25° vertical tilt, 358° rotation		
Notes	Drive over capacity 15626 BL to intensify	3,000 lbs. Use with blue lens J green color.	U.S. Patent No. 5,230,559. Korea Patent No. 126459. For use with PAR20 and PAR30 lamps.		
Accessories	15616 WH10 Gel Enca Lens/Shield:	Mounting: 15608 Concrete Pour Kit (Drive-over) 15616 WH10 Gel Encapsulant 10-pack Lens/Shield: 15626 BL Blue Lens with gasket			
Dimensions	13.5" 13.5"		8.25"		

Finishes	
Item Number and Finish	<b>15266</b> AZ
Housing	Durable thermoplastic composite
Lamp Base	Internal ANSI M98 Metal Halide b
Lamp Options-Power usage at 120V AC input	Incandescent: 70W Max. PAR30 Metal Halide or 70W Max. E17 Metal Halide
Adjustable Lamp Assembly	15° vertical tilt, 358° rotation with
Notes	Drive-over capacity 3,000 lbs. U
Accessories	Mounting: 15608 Concrete Pour Kit (Drive-ov 15616 WH10 Gel Encapsulant 10-p Lens/Shield: 15626 BL Blue Lens with gasket 15688 Rock Guard
Dimensions	



### In-Ground 70W MH Quad-Tap

AZ

te resin. Tempered convex glass lens fully sealed against water.

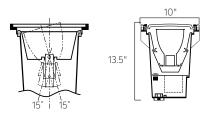
e ballast with 120V, 208V, 240V & 277V taps

LED: 7W PAR20 Wet (18081-18086) Compares up to 35W Halogen 12W PAR30 Wet (18087-18092) Compares up to 50W Halogen 12W PAR30L Wet (18111-18116) Compares up to 50W Halogen

### th wing-nut locking mechanism

Use with blue lens **15626 BL** to intensify green color.

over) -pack



Retrofit with LED Lamps

Add decorative style to commercial and retail walkways or garden beds with Kichler's durable and on-trend options.

### 120V Retrofit Path & Spread

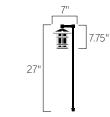


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		Three Tier		Larg	ge One Tie	er
Finishes	BKT (sho	own), AZT	Additional Finishes	<b>AZT</b> (shown), BKT		Additional Finishes
Item Number and Finish	15205 AZT 15205 BKT			15211 AZT 15211 BKT		
Housing	Cast Aluminum with molded ribbed diffuser of clear UV stabilized high-impact resistant polycarbonate. <b>Mounting stems</b> and bollard kits not included.		AZT	Cast Aluminum with molded ribbed diffuser of clear UV stabilized high-impact resistant polycarbonate. <b>Mounting stems</b> and bollard kits not included.		вкт
Lamp Base	120V medium base porcelain socket with nickel plated screw shell			4000V (4KV) pulse rated medium base porcelain socket		
Lamp Options-Power usage at 120V AC input	<b>Incandescent:</b> 75W Max. A19 Iamp	LED: A19 Damp Location	Coordinating Product	Incandescent: Internal ANSI M98 Metal Halide ballast with 120V tap	<b>LED:</b> A19 Damp Location	Coordinating Product
Wiring	30" of usable 105° wire leads	C, #18 AWG		30" of usable 105°C, # wire leads	18 AWG	
Notes	Available as stem mount, deck mount or as a bollard. Mounting stems and bollard kits sold separately.		12V Deck Lights 15065 & 15765, see pgs. 156, 65	Available as stem mou mount or as a bollard. stems and bollard kits separately.	Mounting	12V Deck Lights 15065 & 15765, see pgs. 156, 65
Accessories	15645, 15656, 15657 or 15658 Stems 15276 BK Power Post® 15665, 15666 or 15667 Bollard Mounting Kits 15578 Bollard Mounting Stakes			15671 Bollard Templai 15601 Surface Mounti (needed for attachme 15602 AL Flange Mou 15616WH10 Gel Enca	ing Flange ent to junction I inting Nipple	
Dimensions	9.25"	Stem/Mou	nting Bollard Kits	9.25"	A A A A A A A A A A A A A A A A A A A	Dunt Options

	Eclipse <sup>™</sup>		Cross Creek <sup>™</sup> Lantern		
Finishes	<b>BKT</b> (shown), TZT		Additional Finishes	AGZ	
Item Number and Finish	15236 BKT 15236 TZT			15232 AGZ	
Housing	Cast Aluminum with clear g	glass		Aluminum with textured amber seedy linen glass side panels and clear glass bottom panel	
Lamp Base	120V medium base porcelai with nickel plated screw she		TZT	120V medium base porcelain socket	
Lamp Options-Power usage at 120V AC input	Incandescent: 100W Max. A19 lamp	LED: A19 Dam Locatior		<b>Incandescent:</b> 25W Max. A19 lamp	LED: A19 Damp Location
Wiring	6" of usable 105°C, #18 AWG wire leads		6" of usable 105°C, #18 AWG wire leads		
Notes			U.S. Patent No. D580,084		
Accessories	<b>15276 BK</b> Power Post <sup>®</sup> <b>15601</b> Surface Mounting Flange (needed for attachment to junction box)				
Dimensions	25"		27"		





# Outdoor





	Traditional Marine Lantern		
Finishes	OZ		
Item Number and Finish	15239 OZ		
Housing	Brass		
Lamp Base	120V medium base porcelain socket with nickel plated screw shell		
Lamp Options-Power usage at 120V AC input	Incandescent: 25W Max. A19 lamp	LED: A19 Damp Location	
Wiring	6" of usable 105°C, 18 AWG wire leads		
Accessories	<b>15276 BK</b> Power Post <sup>®</sup> <b>15601</b> Surface Mounting Flange (needed for attachment to junction box)		
Dimensions	26.25"		

	Outdoor Wall		Outdoor Wall 2-Light		
Finishes	<b>AZ</b> (shown), WH	Additional Finishes	<b>WH</b> (shown), AZ	Additional Finishes	
Item Number and Finish	6051 AZ 6051 WH		6052 AZ 6052 WH		
Housing	Aluminum	25	Aluminum		
Lamp Base	120V medium base lamp	WH	120V medium base lamp	AZ	
Lamp Options-Power usage at 120V AC input	<b>LED only:</b> 12W PAR30 Wet (18087-18092) Compares up to 50W Halogen 12W PAR30L Wet (18111-18116) Compares up to 50W Halogen 17W PAR38 Wet (18093-18098) Compares up to 75W Halogen		LED only: 12W PAR30 Wet (18087-18092) Compares up to 50W Halogen 12W PAR30L Wet (18111-18116) Compares up to 50W Halogen 17W PAR38 Wet (18093-18098) Compares up to 75W Halogen		
Wiring	8" of usable 105°C, 18 AWG wire leads		8" of usable 105°C, 18 AWG wire leads		
Notes	W Uses (1) 120W Max. BR40 or 150W Max. PAR38. For lamp photometrics, see page 212.		W Uses (2) 120W Max. BR40 or 150W Max. PAR38. For lamp photometrics, see page 212.		
Dimensions	4.87" dia.		4.87" dia.		

# 120V-277V Lamps

LED & Incandescent, plus Photometrics

Potted/coated electronics protect against moisture while the cast aluminum construction assures proper thermal management. Operating range from 120V to 277V with 30,000 hour life (in an enclosed fixture) for years of performance.



120V-277V Lamps & Photometrics

# 120V-277V LED LAMPS Features

- Potted and/or coated electronics protect against moisture
- Operating range from 120V to 277V
- Design & listed for wet location & enclosed fixtures
- Can be used in open fixtures or outdoor sockets
- Cast aluminum heat sink, anodized black, for increased thermal management
- Integrated driver and transformer with high output LEDs tightly binned for high CRI, color uniformity and color quality
- 30,000 hour life in an enclosed fixture
- FCC compliance ensures no interference with other electronic devices
- High total lumens and lumens per watt (efficacy)
- Custom optics deliver center-to-edge beam uniformity and glare reduction
- Interior use as well
- 6-year warranty



PAR20 Wet Location

PAR30 Wet Location



Longneck Wet Location

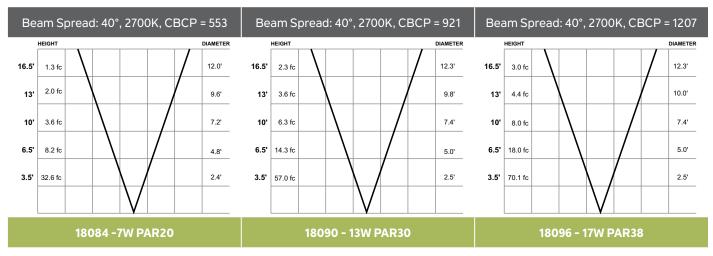






Wet location versions designed and listed for use in an enclosed or open fixture. Using lamp in enclosed fixtures can result in up to 30-40% loss in lumen output based on test data.

### Photometrics: 120V-277V LED Lamps



\* The curves indicate the illuminated area and the average illumination when the luminaire is at different distances. Stated footcandles are for bare lamps only. For additional photometrics, visit Kichler.com/Landscape

S	KELVIN / LUMENS	BEAM ANGLE/ITEM #	
<b>-</b>		25° Spot	40° Flood
res W m	2700K – Warm White 310 lm	18081	18084
	3000K – Pure White 330 lm	18082	18085
	4200K – Cool White 350 lm	18083	18086
		25° Spot	40° Flood
res IW m	2700K – Warm White 580Lm	18087	18090
	3000K – Pure White 610Lm	18088	18091
	4200K – Cool White 640Lm	18089	18092
		25° Spot	40° Flood
res IW m	2700K – Warm White 580Lm	18111	18114
	3000K – Pure White 610Lm	18112	18115
	4200K – Cool White 640Lm	18113	18116
		25° Spot	40° Flood
	2700K – Warm White 800Lm	18093	18096
res W m	3000K – Pure White 850Lm	18094	18097
	4200K – Cool White 900Lm	18095	18098

### 120V Incandescent Lamps (reference only)

INCANDESCENT	LAMP TYPE	WATTS	BEAM SPREAD	BASE	LUMENS	AVERAGE LIFE (HRS.)
	30R20-SP	30W	Spot	Medium	300	2,000
$\bigcirc$	30R20-FL	30W	Flood	Medium	300	2,000
₩	50R20-SP	50W	Spot	Medium	550	2,000
ŧ	50R20-FL	50W	Flood	Medium	550	2,000
$\square$	75R30-SP	75W	Spot	Medium	770	2,000
Ę	75R30-FL	75W	Flood	Medium	770	2,000
	65R40-SP	65W	Spot	Medium	500	2,000
$\left( \longrightarrow \right)$	65R40-FL	65W	Flood	Medium	500	2,000
	85R40-SP	85W	Spot	Medium	700	2,000
	85R40-FL	85W	Flood	Medium	700	2,000
Æ	120R40-SP	120W	Spot	Medium	1,000	2,000
	120R40-FL	120W	Flood	Medium	1,000	2,000

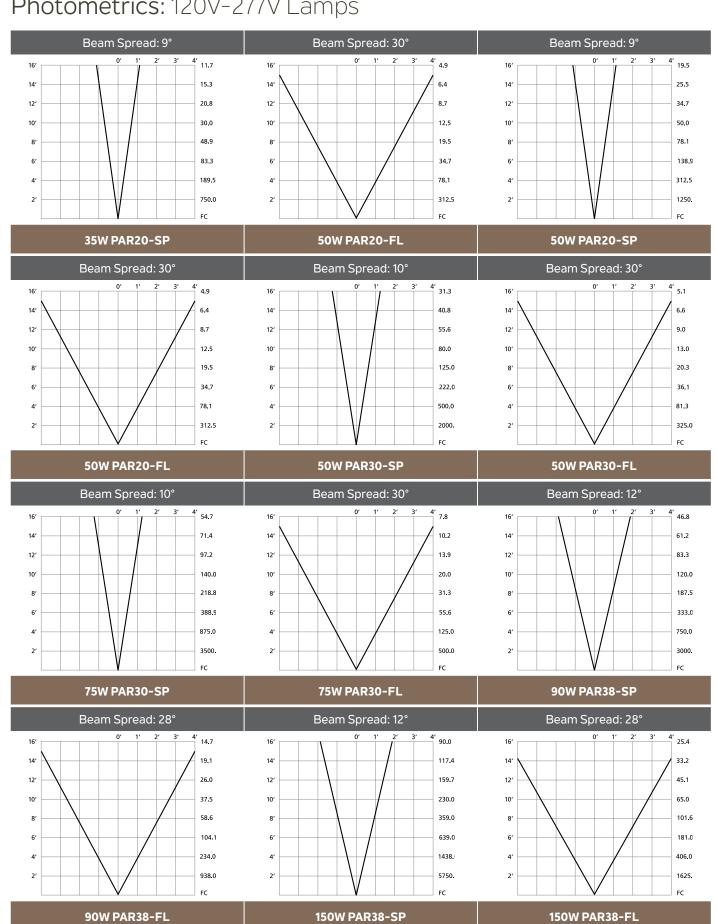
HALOGEN	LAMP TYPE	WATTS	BEAM SPREAD	BASE	LUMENS	AVERAGE LIFE (HRS)
	30PAR20-SP	35W	9°	Medium	350	2,000
	30PAR20-FL	35W	30°	Medium	350	2,000
₩ ₩	50PAR20-SP	50W	9°	Medium	550	2,000
ŧ	50PAR20-FL	50W	30°	Medium	550	2,000
$\square$	50PAR30L-SP	50W	10°	Medium	630	2,000
Y	50PAR30L-FL	50W	30°	Medium	630	2,000
u an	75PAR30L-SP	75W	10°	Medium	965	2,000
	75PAR30L-FL	75W	30°	Medium	965	2,000
$\searrow$	90PAR38-SP	90W	12°	Medium	1,280	2,500
	90PAR38-FL	90W	28°	Medium	1,280	2,500
	150PAR38-SP	150W	12°	Medium	2,200	2,500
	150PAR38-FL	150W	28°	Medium	2,200	2,500

METAL HALIDE	LAMP TYPE	WATTS	BEAM SPREAD	BASE	LUMENS	AVERAGE LIFE (HRS)
$\frown$	70-ED17	70W	-	Medium	4,000	10,000
( )	100-ED17	100W	-	Medium	5,580	10,000
Ų	35PAR20-SP	35W	10°	Medium	2,000	9,000
	35PAR20-FL	35W	30°	Medium	2,000	9,000
$\square$	35PAR30L-SP	35W	10°	Medium	2,200	9,000
L ■	35PAR30L-FL	35W	30°	Medium	2,200	9,000
$\square$	70PAR30L-SP	70W	10°	Medium	4,850	9,000
H	70PAR30L-FL	70W	40°	Medium	4,850	9,000
u and a second	70PAR38-SP	70W	15°	Medium	4,800	10,000
	70PAR38-FL	70W	25°	Medium	4,800	10,000
$\vdash$	100PAR38-SP	100W	15°	Medium	6,800	12,500
	100PAR38-FL	100W	25°	Medium	6,800	12,500
	175PAR38-FL	175W	65°	Medium	10,000	7,500

Code: VNSP - Very narrow spot, NSP - Narrow spot, SP - Spot, NFL - Narrow flood, FL - Flood, WFL - Wide flood VWFL – Very wide flood, MEDIUM – Medium screwshell

Note: Lumens and lamp life may vary by manufacturer. Stated lumens are of bare lamp.

### Photometrics: 120V-277V Lamps



Note: Foot-candle (FC) values may differ amongst lamp manufacturers.

### Photometrics: 120V-277V Integrated LED C-Series

	120V-277V Integrated LED Accent - Small											
ltem Number	16	209	16	210	16	211	16	212	16	213	16	214
Beam Angle	15°	Spot	40°	Flood	55° Wio	le Flood	15° :	Spot	40°	Flood	55° Wie	de Flood
Ft. Away	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width
3.3'	172	1	79.4	2.1	41.1	3.4	321.3	1	137	2.1	76.4	3.3
6.6'	43	1.9	19.9	4.3	10.3	6.8	80.3	1.9	34.3	4.3	19.1	6.5
9.8'	19	2.9	8.8	6.4	4.6	10.2	35.7	2.9	15.2	6.4	8.5	9.8
13.1'	10.8	3.8	5	8.5	2.6	13.6	20.1	3.8	8.6	8.6	4.8	13.1
16.4'	6.9	4.8	3.2	10.6	1.6	17	12.9	4.8	5.5	10.7	3.1	16.3
19.7'	4.8	5.8	2.2	12.8	1.1	20.3	8.9	5.7	3.8	12.9	2.1	19.6
23'	3.5	6.8	1.6	14.9	.8	23.7	6.6	6.7	2.8	15	1.6	22.9
26.3'	2.7	7.7	1.2	17	.6	27.1	5	7.6	2.1	17.2	1.2	26.1
29.5'	2.1	8.7	1	19.1	.5	30.5	4	8.6	1.7	19.3	1	29.4
32.8'	1.7	9.7	.8	21.3	.4	33.9	3.2	9.5	1.4	21.5	.8	32.7

		120V-277V Integrated LED Accent - Large											
	ltem nber	16	215	16	216	16	217	16	218	16	219	16	220
Beam A	ngle	15°	Spot	33° F	lood	55° Wic	le Flood	15°	Spot	33° F	lood	55° Wio	le Flood
Ft. A	Away	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width
	3.3'	967.7	.7	244	1.7	115.4	3.3	924.2	.9	324.2	2	165.9	3.2
	6.6'	241.9	1.3	61	3.4	28.9	6.5	231	1.7	81.1	4	41.5	6.4
	9.8'	107.5	2	27.1	5.2	12.8	9.7	102.7	2.6	36	6	18.4	9.7
	13.1'	60.5	2.7	15.2	6.9	7.2	13	57.8	3.5	20.3	8	10.4	12.9
1	16.4'	38.7	3.4	9.8	8.6	4.6	16.3	37	4.3	13	10	6.6	16.1
	19.7'	26.9	4	6.8	10.3	3.2	19.5	25.7	5.2	9	12	4.6	19.3
	23'	19.8	4.7	5	12	2.4	22.8	18.9	6.1	6.6	14	3.4	22.5
2	26.3'	15.1	5.4	3.8	13.7	1.8	26	14.4	6.9	5.1	16	2.6	25.7
2	29.5'	12	6	3	15.5	1.4	29.3	11.4	7.8	4	18	2	29
3	32.8'	9.7	6.7	2.4	17.2	1.2	32.5	9.2	8.7	3.2	20	1.7	32.2

ltem Number	16221 ·	- Small	16222	- Small	16223 -	Medium	16224 -	Medium	16225	- Large
Beam Angle	NEM	A 6x5	NEMA 6x5		NEM	1A 7x5	NEM	A 7x5	NEM	1A 7x6
Ft. Away	Foot- candles	Beam Width								
3.3'	37.1	4.9	70.8	4.6	129.7	4	171.6	4.2	155	6.6
6.6'	9.3	9.8	17.7	9.3	32.4	8.2	42.9	8.4	38.7	13.2
9.8'	4.1	14.7	7.9	14	14.4	12.2	19.1	12.6	17.2	19.8
13.1'	2.3	19.6	4.4	18.6	8.1	16.3	10.7	16.8	9.7	26.5
16.4'	1.5	24.5	2.8	23.2	5.2	20.4	6.9	21	6.2	33
19.7'	1	29.4	2	27.9	3.6	24.5	4.8	25.2	4.3	39.7
23'	.8	34.3	1.4	32.5	2.6	28.5	3.5	29.4	3.2	46.3
26.3'	.6	39.2	1.1	37.2	2	32.6	2.7	33.6	2.4	52.9
29.5'	.5	44.1	.9	41.8	1.6	36.7	2.1	37.8	1.9	59.5
32.8'	.4	49	.7	46.5	1.3	40.8	1.7	42	1.6	66.1

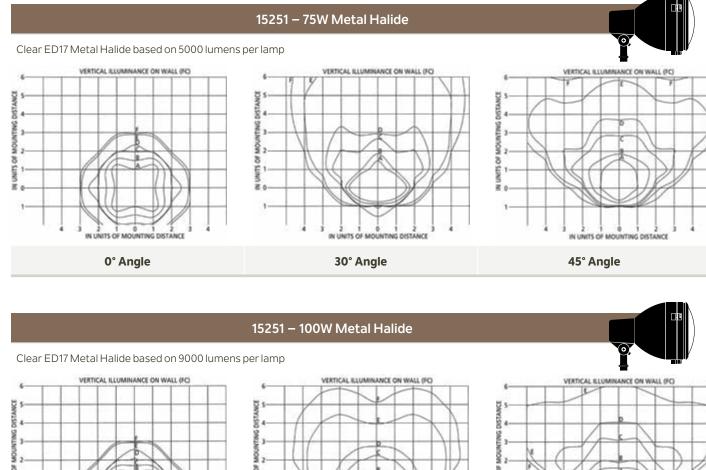
All Foot-candle values shown for 3000K color temperature.

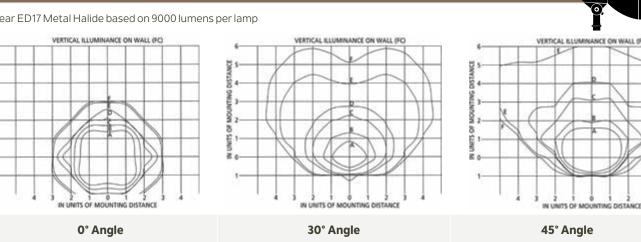
### Photometrics: 120V Integrated LED Accent

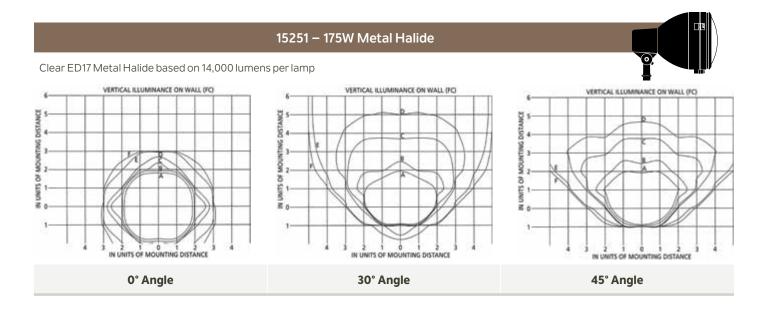
					120\	/ Integrate	ted LED Accent					
ltem Number	162	200	162	202	16	204	16	201	16	203	16	205
Beam Angle	10° \$	Spot	10°	Spot	10° Spot		35° Flood		35° Flood		35° Flood	
Ft. Away	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width
8'	238.9	1.4	313.3	1.6	394.5	1.6	112.6	2.3	153.2	2.5	205.8	2.4
12'	106.2	2.1	139.2	2.4	175.3	2.5	28.1	4.5	38.3	4.9	51.5	4.8
24'	26.5	4.1	34.8	4.9	43.8	4.9	7	9	9.6	9.9	13.2	9.6
36'	11.8	6.2	15.5	7.3	19.5	7.4	3.1	13.6	4.3	14.8	5.9	14.4
48'	6.6	8.3	8.7	9.7	11	9.8	1.8	18.1	2.4	19.8	3.3	19.2
60'	4.2	10.3	5.6	12.1	7	12.3	1.1	22.6	1.5	24.7	2.1	24
ltem Number	162	206	16	207	162	208						
Beam Angle	60° Wid	le Flood	60° Wio	le Flood	60° Wid	de Flood						
Ft. Away	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width						
8'	26	4.2	43.4	4.1	53.5	4.2						
12'	6.5	8.4	10.8	8.1	13.4	8.3						
24'	1.6	16.9	2.7	16.3	3.4	16.7						
36'	.7	25.3	1.2	24.4	1.5	25						
48'	.4	33.7	.7	32.6	.8	33.3						
60'	.3	42.4	.4	40.7	.5	41.6						

Foot-candle values shown for 4250K color temperature.

### Photometrics: 120V Retrofit Accent







### Photometrics: 12V Integrated LED Accent

		12V Integ	rated L	ED Accent with	VLO - Small			
ltem Number	16015	(low)		16016	(low)		16017	(low)
Beam Angle	15° S			35° FI			60° Wid	
	21			45			17	
Max Candela Ft. Away 8' 12' 24'	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width
8'	19.3	1.8	4'	16.5	2.5	4'	6.8	4.6
12'	8.6	2.7	8'	4.1	4.9	8'	1.7	9.2
24'	2.1	5.5	16'	1	9.8	16'	.4	18.5
36'	1	8.2	24'	.5	14.7	24'	.4	27.7
48'	.5		32'		14.7	32'		37
		10.9		.3			.1	
60'	.3	13.7	40'	.2	24.5	40'	.1	46.2
ltem Number	16015	(mid)		16016	(mid)		16017	(mid)
Beam Angle	15° S	Spot		35° FI	lood		60° Wid	e Flood
Max Candela	38	27		78	9		31	11
Max Candela           Ft. Away           8'           12'           24'	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width
8'	32.6	1.8	4'	30.9	2.5	4'	12.3	4.6
12'	14.5	2.7	8'	7.7	4.9	8'	3.1	9.2
24'	3.6	5.5	16'	1.9	9.8	16'	.8	18.5
36'	1.6	8.2	24'	.9	14.7	24'	.3	27.7
48'	.9	10.9	32'	.5	19.6	32'	.2	37
60'	.6	13.7	40'	.3	24.5	40'	.1	46.2
Item								
Number	16015			16016 (			16017	
Beam Angle	15° S			35° FI	lood		60° Wid	e Flood
Max Candela	53	82		111	8	_	43	38
Max Candela Ft. Away 8' 12' 24'	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width
8'	47.2	1.8	4'	44.5	2.5	4'	17.6	4.6
12'	21	2.7	8'	11.1	4.9	8'	4.4	9.2
24'	5.2	5.5	16'	2.8	9.8	16'	1.1	18.5
36'	2.3	8.2	24'	1.2	14.7	24'	.5	27.7
48'	1.3	10.9	32'	.7	19.6	32'	.3	37
60'	.8	13.7	40'	.5	24.5	40'	.2	46.2
			_			_		
		12V	LED Ac	cent with VLO ·	- Large			
ltem Number	16018	(low)		16019	(low)		16020	(low)
Beam Angle	15° S			35° FI			60° Wid	· · · ·
	35			94			39	
Ft. Away	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width
8'	40.2	2.1	4'	37.3	2.5	4'	17.1	4.9
12'			8'	9.3	4.9	8'	4.3	9.8
	1/9	32					4.5	
24'	17.9 4 5	3.2				16'	11	19.6
	4.5	6.3	16'	2.3	9.8	16' 24'	1.1 5	19.6 29.4
36'	4.5 2	6.3 9.5	16' 24'	2.3 1	9.8 14.7	24'	.5	29.4
36' 48'	4.5 2 1.1	6.3 9.5 12.6	16' 24' 32'	2.3 1 .6	9.8 14.7 19.6	24' 32'	.5 .3	29.4 39.2
36' 48' 60'	4.5 2 1.1 .7	6.3 9.5 12.6 15.8	16' 24'	2.3 1 .6 .4	9.8 14.7 19.6 24.5	24'	.5 .3 .2	29.4 39.2 49
36' 48' 60' Item Number	4.5 2 1.1 .7 <b>16018</b>	6.3 9.5 12.6 15.8 (mid)	16' 24' 32'	2.3 1 .6	9.8 14.7 19.6 24.5	24' 32'	.5 .3	29.4 39.2 49
36' 48' 60' Item Number Beam Angle	4.5 2 1.1 .7 <b>16018</b> 15° S	6.3 9.5 12.6 15.8 (mid) Spot	16' 24' 32'	2.3 1 .6 .4 <b>16019</b> 35° Fl	9.8 14.7 19.6 24.5 (mid)	24' 32'	.5 .3 .2 <b>16020</b> 60° Wid	29.4 39.2 49 (mid) e Flood
36' 48' 60' Item Number Bean Angle	4.5 2 1.1 .7 <b>16018</b> 15° S 38	6.3 9.5 12.6 15.8 (mid) Spot 27	16' 24' 32' 40'	2.3 1 .6 .4 <b>16019</b> 35° F 78	9.8 14.7 19.6 24.5 (mid) lood 9	24' 32' 40'	.5 .3 .2 <b>16020</b> 60° Wid 31	29.4 39.2 49 (mid) e Flood
36' 48' 60' Item Number Bean Angle	4.5 2 1.1 .7 <b>16018</b> 15° S 38 Foot-candles	6.3 9.5 12.6 15.8 (mid) Spot 27 Beam Width	16' 24' 32' 40'	2.3 1 .6 .4 16019 35° Fi 78 Foot-candles	9.8 14.7 19.6 24.5 (mid) lood 9 Beam Width	24' 32' 40' Ft.	.5 .3 .2 <b>16020</b> 60° Wid 31 Foot-candles	29.4 39.2 49 (mid) e Flood 11 Beam Width
36' 48' 60' Item Number Bean Angle	4.5 2 1.1 .7 <b>16018</b> 15° S 38 Foot-candles 74.7	6.3 9.5 12.6 15.8 (mid) Spot 27 Beam Width 2.1	16' 24' 32' 40' Ft.	2.3 1 .6 .4 16019 35° FI 78 Foot-candles 65.6	9.8 14.7 19.6 24.5 (mid) lood 9 Beam Width 2.5	24' 32' 40' Ft. 4'	.5 .3 .2 <b>16020</b> 60° Wid 31 Foot-candles 29.1	29.4 39.2 49 (mid) e Flood 11 Beam Width 4.9
36' 48' 60' Item Number Bean Angle	4.5 2 1.1 .7 <b>16018</b> 15° S 38 Foot-candles 74.7 33.2	6.3 9.5 12.6 15.8 (mid) 5pot 27 Beam Width 2.1 3.2	16' 24' 32' 40' Ft. 4' 8'	2.3 1 .6 .4 <b>16019</b> 35° FI 78 Foot-candles 65.6 16.4	9.8 14.7 19.6 24.5 (mid) 000 9 Beam Width 2.5 4.9	24' 32' 40' Ft. 4' 8'	.5 .3 .2 <b>16020</b> 60° Wid 31 Foot-candles 29.1 7.3	29.4 39.2 49 (mid) e Flood 11 Beam Width 4.9 9.8
36' 48' 60' <u>Item</u> Number Beam Angle Max Candela Ft. Away 8' 12' 24'	4.5 2 1.1 .7 <b>16018</b> 15° S 38 Foot-candles 74.7 33.2 8.3	6.3 9.5 12.6 15.8 (mid) 5pot 27 Beam Width 2.1 3.2 6.3	16' 24' 32' 40' <b>Ft.</b> 4' 8' 16'	2.3 1 .6 .4 <b>16019</b> 35° FI 78 Foot-candles 65.6 16.4 4.1	9.8 14.7 19.6 24.5 (mid) 000 9 Beam Width 2.5 4.9 9.8	24' 32' 40' Ft. 4' 8' 16'	.5 .3 .2 <b>16020</b> 60° Wid 31 Foot-candles 29.1 7.3 1.8	29.4 39.2 49 (mid) e Flood 11 Beam Widtl 4.9 9.8 19.6
36' 48' 60' <u>Item</u> Number Beam Angle Max Candela Ft. Away 8' 12' 24' 36'	4.5 2 1.1 .7 <b>16018</b> 15° S 38 Foot-candles 74.7 33.2 8.3 3.7	6.3 9.5 12.6 15.8 (mid) Spot 27 Beam Width 2.1 3.2 6.3 9.5	16' 24' 32' 40' Ft. 4' 8' 16' 24'	2.3 1 .6 .4 <b>16019</b> 35° FI 78 Foot-candles 65.6 16.4	9.8 14.7 19.6 24.5 (mid) 000 9 Beam Width 2.5 4.9 9.8 14.7	24' 32' 40' Ft. 4' 8' 16' 24'	.5 .3 .2 <b>16020</b> 60° Wid 37 Foot-candles 29.1 7.3 1.8 .8	29.4 39.2 49 (mid) e Flood 11 Beam Width 4.9 9.8 19.6 29.4
36' 48' 60' <u>Item</u> Number Beam Angle Max Candela Ft. Away 8' 12' 24'	4.5 2 1.1 .7 <b>16018</b> 15° S 38 Foot-candles 74.7 33.2 8.3 3.7 2.1	6.3 9.5 12.6 15.8 (mid) 5pot 27 Beam Width 2.1 3.2 6.3	16' 24' 32' 40' <b>Ft.</b> 4' 8' 16'	2.3 1 .6 .4 <b>16019</b> 35° FI 78 Foot-candles 65.6 16.4 4.1 1.8 1	9.8 14.7 19.6 24.5 (mid) 000 9 Beam Width 2.5 4.9 9.8	24' 32' 40' Ft. 4' 8' 16'	.5 .3 .2 <b>16020</b> 60° Wid 37 Foot-candles 29.1 7.3 1.8 .8 .8 .5	29.4 39.2 49 (mid) e Flood 11 Beam Width 4.9 9.8 19.6
36' 48' 60' <u>Item</u> Number Beam Angle Max Candela Ft. Away 8' 12' 24' 36' 48' 60'	4.5 2 1.1 .7 <b>16018</b> 15° S 38 Foot-candles 74.7 33.2 8.3 3.7	6.3 9.5 12.6 15.8 (mid) Spot 27 Beam Width 2.1 3.2 6.3 9.5	16' 24' 32' 40' Ft. 4' 8' 16' 24'	2.3 1 .6 .4 <b>16019</b> 35° Fl 78 Foot-candles 65.6 16.4 4.1 1.8	9.8 14.7 19.6 24.5 (mid) 000 9 Beam Width 2.5 4.9 9.8 14.7	24' 32' 40' Ft. 4' 8' 16' 24'	.5 .3 .2 <b>16020</b> 60° Wid 37 Foot-candles 29.1 7.3 1.8 .8	29.4 39.2 49 (mid) e Flood 11 Beam Width 4.9 9.8 19.6 29.4
36' 48' 60' Item Number Beam Angle Max Candela Ft. Away 8' 12' 24' 36' 48' 60'	4.5 2 1.1 .7 <b>16018</b> 15° S 38 <b>Foot-candles</b> 74.7 33.2 8.3 3.7 2.1 1.3	6.3 9.5 12.6 15.8 (mid) 27 Beam Width 2.1 3.2 6.3 9.5 12.6 15.8	16' 24' 32' 40' Ft. 4' 8' 16' 24' 32'	2.3 1 .6 .4 <b>16019</b> 35° Fl 78 Foot-candles 65.6 16.4 4.1 1.8 1 .7	9.8 14.7 19.6 24.5 (mid) 9 Beam Width 2.5 4.9 9.8 14.7 19.6 24.5	24' 32' 40' Ft. 4' 8' 16' 24' 32'	.5 .3 .2 <b>16020</b> 60° Wid 3° <b>Foot-candles</b> 29.1 7.3 1.8 .8 .8 .5 .3	29.4 39.2 49 (mid) e Flood 11 Beam Width 4.9 9.8 19.6 29.4 39.2 49
36' 48' 60' Item Number Beam Angle Max Candela Ft. Away 8' 12' 24' 36' 48' 60' Item Number	4.5 2 1.1 .7 <b>16018</b> 15° S 38 <b>Foot-candles</b> 74.7 33.2 8.3 3.7 2.1 1.3 <b>16018</b>	6.3 9.5 12.6 15.8 (mid) 27 Beam Width 2.1 3.2 6.3 9.5 12.6 15.8 (high)	16' 24' 32' 40' Ft. 4' 8' 16' 24' 32'	2.3 1 .6 .4 <b>16019</b> 35° F 78 Foot-candles 65.6 16.4 4.1 1.8 1 .7 <b>16019</b>	9.8 14.7 19.6 24.5 (mid) lood 9 Beam Width 2.5 4.9 9.8 14.7 19.6 24.5 (high)	24' 32' 40' Ft. 4' 8' 16' 24' 32'	.5 .3 .2 <b>16020</b> 60° Wid 3° <b>Foot-candles</b> 29.1 7.3 1.8 .8 .8 .5 .3 <b>16020</b>	29.4 39.2 49 (mid) e Flood 11 Beam Width 4.9 9.8 19.6 29.4 39.2 49 (high)
36' 48' 60' Item Number Beam Angle Max Candela Ft. Away 8' 12' 24' 36' 48' 60' Item Number Beam Angle	4.5 2 1.1 .7 <b>16018</b> 15° S 38 <b>Foot-candles</b> 74.7 33.2 8.3 3.7 2.1 1.3 <b>16018</b> 15° S	6.3 9.5 12.6 15.8 (mid) 5pot 27 Beam Width 2.1 3.2 6.3 9.5 12.6 15.8 (high) 5pot	16' 24' 32' 40' Ft. 4' 8' 16' 24' 32'	2.3 1 .6 .4 16019 35° F 78 Foot-candles 65.6 16.4 4.1 1.8 1 .7 16019 35° F	9.8 14.7 19.6 24.5 (mid) lood 9 Beam Width 2.5 4.9 9.8 14.7 19.6 24.5 (high)	24' 32' 40' Ft. 4' 8' 16' 24' 32'	.5 .3 .2 <b>16020</b> 60° Wid 31 Foot-candles 29.1 7.3 1.8 .8 .5 .3 <b>16020</b> 60° Wid	29.4 39.2 49 (mid) e Flood 11 Beam Width 4.9 9.8 19.6 29.4 39.2 49 (high) e Flood
36' 48' 60' Item Number Beam Angle Max Candela Ft. Away 8' 12' 24' 36' 48' 60' Item Number Beam Angle	4.5 2 1.1 .7 <b>16018</b> 15° S 38 <b>Foot-candles</b> 74.7 33.2 8.3 3.7 2.1 1.3 <b>16018</b> 15° S 38	6.3 9.5 12.6 15.8 (mid) 5pot 27 Beam Width 2.1 3.2 6.3 9.5 12.6 15.8 (high) 5pot 27	16' 24' 32' 40' <b>Ft.</b> 4' 8' 16' 24' 32' 40'	2.3 1 .6 .4 <b>16019</b> 35° F 78 Foot-candles 65.6 16.4 4.1 1.8 1 .7 <b>16019</b> 35° F 35° F 78 78 78 78 78 78 78 78 78 78	9.8 14.7 19.6 24.5 (mid) 0ood 9 <b>Beam Width</b> 2.5 4.9 9.8 14.7 19.6 24.5 (high) 0ood 9	24' 32' 40' Ft. 4' 8' 16' 24' 32' 40'	.5 .3 .2 <b>16020</b> 60° Wid 31 <b>Foot-candles</b> 29.1 7.3 1.8 .8 .5 .3 <b>16020</b> 60° Wid 31	29.4 39.2 49 (mid) e Flood 11 Beam Width 4.9 9.8 19.6 29.4 39.2 49 (high) e Flood 11
36' 48' 60' Item Number Beam Angle Max Candela Ft. Away 8' 12' 24' 36' 48' 60' Item Number Beam Angle	4.5 2 1.1 .7 <b>16018</b> 15° 5 38 Foot-candles 74.7 33.2 8.3 3.7 2.1 1.3 <b>16018</b> 15° 5 38 Foot-candles	6.3 9.5 12.6 15.8 (mid) 5pot 27 Beam Width 2.1 3.2 6.3 9.5 12.6 15.8 (high) 5pot 27 Beam Width	16' 24' 32' 40' Ft. 4' 8' 16' 24' 32' 40' Ft.	2.3 1 .6 .4 <b>16019</b> 35° F 78 Foot-candles 65.6 16.4 4.1 1.8 1 .7 <b>16019</b> 35° F 78 Foot-candles 78 78 78 78 78 78 78 78 78 78	9.8 14.7 19.6 24.5 (mid) 0ood 9 Beam Width 2.5 4.9 9.8 14.7 19.6 24.5 (high) 0ood 9 Beam Width	24' 32' 40' Ft. 4' 8' 16' 24' 32' 40'	.5 .3 .2 <b>16020</b> 60° Wid 31 Foot-candles 29.1 7.3 1.8 .8 .5 .3 <b>16020</b> 60° Wid 31 Foot-candles	29.4 39.2 49 (mid) e Flood 11 Beam Width 4.9 9.8 19.6 29.4 39.2 49 (high) e Flood 11 Beam Width
36' 48' 60' Item Number Beam Angle Max Candela Ft. Away 8' 12' 24' 36' 48' 60' Item Number Beam Angle	4.5 2 1.1 .7 <b>16018</b> 15° 5 38 <b>Foot-candles</b> 74.7 33.2 8.3 3.7 2.1 1.3 <b>16018</b> 15° 5 38 <b>Foot-candles</b> 100.8	6.3 9.5 12.6 15.8 (mid) 5pot 27 Beam Width 2.1 3.2 6.3 9.5 12.6 15.8 (high) 5pot 27 Beam Width 2.1	16' 24' 32' 40' Ft. 4' 8' 16' 24' 32' 40' Ft. 4'	2.3 1 .6 .4 <b>16019</b> 35° F 78 Foot-candles 65.6 16.4 4.1 1.8 1 .7 <b>16019</b> 35° F 78 Foot-candles 35° F 78 78 500 - 200	9.8 14.7 19.6 24.5 (mid) 0ood 9 Beam Width 2.5 4.9 9.8 14.7 19.6 24.5 (high) 0ood 9 Beam Width 2.5	24' 32' 40' Ft. 4' 8' 16' 24' 32' 40' Ft. 4'	.5 .3 .2 <b>16020</b> 60° Wid 31 <b>Foot-candles</b> 29.1 7.3 1.8 .8 .5 .3 <b>16020</b> 60° Wid 31 <b>Foot-candles</b> 40.8	29.4 39.2 49 (mid) e Flood 11 Beam Width 4.9 9.8 19.6 29.4 39.2 49 (high) e Flood 11 Beam Width 4.9
36' 48' 60' Item Number Beam Angle Max Candela Ft. Away 8' 12' 24' 36' 48' 60' Item Number Beam Angle	4.5 2 1.1 .7 <b>16018</b> 15° S 38 Foot-candles 74.7 33.2 8.3 3.7 2.1 1.3 <b>16018</b> 15° S 38 Foot-candles 100.8 44.8	6.3 9.5 12.6 15.8 (mid) 5pot 27 Beam Width 2.1 3.2 6.3 9.5 12.6 15.8 (high) 5pot 27 Beam Width 2.1 3.2	16' 24' 32' 40' Ft. 4' 8' 16' 24' 32' 40' Ft. 4' 8'	2.3 1 .6 .4 <b>16019</b> 35° F 78 Foot-candles 65.6 16.4 4.1 1.8 1 .7 <b>16019</b> 35° F 78 Foot-candles 86 21.5	9.8 14.7 19.6 24.5 (mid) lood 9 Beam Width 2.5 4.9 9.8 14.7 19.6 24.5 (high) lood 9 Beam Width 2.5 4.9	24' 32' 40' Ft. 4' 8' 16' 24' 32' 40' Ft. 4' 8'	.5 .3 .2 <b>16020</b> 60° Wid 31 <b>Foot-candles</b> 29.1 7.3 1.8 .8 .5 .3 <b>16020</b> 60° Wid 31 <b>Foot-candles</b> 40.8 10.2	29.4 39.2 49 (mid) e Flood 11 Beam Width 4.9 9.8 19.6 29.4 39.2 49 (high) e Flood 11 Beam Width 4.9 9.8
36' 48' 60' Item Number Beam Angle Max Candela Ft. Away 8' 12' 24' 36' 48' 60' Item Number Beam Angle Max Candela Ft. Away 8' 12' 24'	4.5 2 1.1 .7 <b>16018</b> 15° S 38 Foot-candles 74.7 33.2 8.3 3.7 2.1 1.3 <b>16018</b> 15° S 38 Foot-candles 100.8 44.8 11.2	6.3 9.5 12.6 15.8 (mid) 5pot 27 Beam Width 2.1 3.2 6.3 9.5 12.6 15.8 (high) 5pot 27 Beam Width 2.1 3.2 6.3	16' 24' 32' 40' Ft. 4' 8' 16' 24' 32' 40' Ft. 4' 8' 16'	2.3 1 .6 .4 <b>16019</b> 35° F 78 Foot-candles 65.6 16.4 4.1 1.8 1 .7 <b>16019</b> 35° F 78 Foot-candles 86 21.5 5.4	9.8 14.7 19.6 24.5 (mid) lood 9 Beam Width 2.5 4.9 9.8 14.7 19.6 24.5 (high) lood 9 Beam Width 2.5 4.9 9.8	24' 32' 40' Ft. 4' 8' 16' 24' 32' 40' Ft. 4' 8' 16'	.5 .3 .2 <b>16020</b> 60° Wid 31 <b>Foot-candles</b> 29.1 7.3 1.8 .8 .5 .3 <b>16020</b> 60° Wid 33 <b>Foot-candles</b> 40.8 10.2 2.6	29.4 39.2 49 (mid) e Flood 11 Beam Width 4.9 9.8 19.6 29.4 39.2 49 (high) e Flood 11 Beam Width 4.9 9.8 19.6
36'           48'           60'           Item Number           Beam Angle           Max Candela           Ft. Away           8'           12'           24'           36'           48'           60'           Item Number           Beam Angle           Max Candela           Ft. Away           8'           12'           24'           36'           Hem Number           Beam Angle           Max Candela           Ft. Away           8'           12'           24'           36'	4.5 2 1.1 .7 <b>16018</b> 15° S 38 <b>Foot-candles</b> 74.7 33.2 8.3 3.7 2.1 1.3 <b>16018</b> 15° S 38 <b>Foot-candles</b> 100.8 44.8 11.2 5	6.3 9.5 12.6 15.8 (mid) 5pot 27 Beam Width 2.1 3.2 6.3 9.5 12.6 15.8 (high) 5pot 27 Beam Width 2.1 3.2 6.3 9.5 12.6 15.8	16' 24' 32' 40' Ft. 4' 8' 16' 24' 32' 40' Ft. 4' 8' 16' 24'	2.3 1 .6 .4 <b>16019</b> 35° F 78 Foot-candles 65.6 16.4 4.1 1.8 1 .7 <b>16019</b> (35° F) 78 Foot-candles 86 21.5 5.4 2.4	9.8 14.7 19.6 24.5 (mid) lood 9 Beam Width 2.5 4.9 9.8 14.7 19.6 24.5 (high) lood 9 Beam Width 2.5 (A.9 9.8 14.7 19.6 24.5 (high) lood 9 Beam Width 2.5 4.9 9.8 14.7 19.6 24.5 14.7 19.6 14.7 1	24' 32' 40' Ft. 4' 8' 16' 24' 32' 40' Ft. 4' 8' 16' 24'	.5 .3 .2 <b>16020</b> 60° Wid 31 <b>Foot-candles</b> 29.1 7.3 1.8 .8 .5 .3 <b>16020</b> 60° Wid 33 <b>Foot-candles</b> 40.8 10.2 2.6 1.1	29.4 39.2 49 (mid) e Flood 11 Beam Width 4.9 9.8 19.6 29.4 39.2 49 (high) e Flood 11 Beam Width 4.9 9.8 19.6 29.4
36' 48' 60' Item Number Beam Angle Max Candela Ft. Away 8' 12' 24' 36' 48' 60' Item Number Beam Angle Max Candela Ft. Away 8' 12' 24'	4.5 2 1.1 .7 <b>16018</b> 15° S 38 Foot-candles 74.7 33.2 8.3 3.7 2.1 1.3 <b>16018</b> 15° S 38 Foot-candles 100.8 44.8 11.2	6.3 9.5 12.6 15.8 (mid) 5pot 27 Beam Width 2.1 3.2 6.3 9.5 12.6 15.8 (high) 5pot 27 Beam Width 2.1 3.2 6.3	16' 24' 32' 40' Ft. 4' 8' 16' 24' 32' 40' Ft. 4' 8' 16'	2.3 1 .6 .4 <b>16019</b> 35° F 78 Foot-candles 65.6 16.4 4.1 1.8 1 .7 <b>16019</b> 35° F 78 Foot-candles 86 21.5 5.4	9.8 14.7 19.6 24.5 (mid) lood 9 Beam Width 2.5 4.9 9.8 14.7 19.6 24.5 (high) lood 9 Beam Width 2.5 4.9 9.8	24' 32' 40' Ft. 4' 8' 16' 24' 32' 40' Ft. 4' 8' 16'	.5 .3 .2 <b>16020</b> 60° Wid 31 <b>Foot-candles</b> 29.1 7.3 1.8 .8 .5 .3 <b>16020</b> 60° Wid 33 <b>Foot-candles</b> 40.8 10.2 2.6	29.4 39.2 49 (mid) e Flood 11 Beam Width 4.9 9.8 19.6 29.4 39.2 49 (high) e Flood 11 Beam Width 4.9 9.8 19.6

All Foot-candle values shown for 3000K color temperature.

2.0

### Photometrics: 12V Integrated LED Accent

				12V Integrate	d LED Accent				
ltem Number	161	50		16	151		16	152	
Beam Angle	10° S	Spot		35° F	lood		60° Wide Flood		
Max Candela	38	67		527			221		
Ft. Away	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	
8'	38.4	1.5	4'	21.7	2.5	4'	8.3	4.2	
12'	17.1	2.2	8'	5.4	4.9	8'	2.1	8.3	
24'	4.3	4.5	16'	1.4	9.8	16'	.5	16.7	
36'	1.9	6.7	24'	.6	14.7	24'	.2	25	
48'	1.1	8.9	32'	.3	19.6	32'	.1	33.3	
60'	.7	11.1	40'	.2	24.5	40'	.1	41.7	
ltem Number	161	153		161	154		16	155	
Beam Angle	10° S	Spot		35° Flood			60° Wide Flood		
Max Candela	52	13		73	38		2	82	
Ft. Away	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	
8'	66.2	1.5	4'	30.5	2.5	4'	10.7	4.3	
12'	29.4	2.3	8'	7.6	5	8'	2.7	8.7	
24'	7.4	4.6	16'	1.9	9.9	16'	.8	17.4	
36'	3.3	6.9	24'	.9	14.9	24'	.3	26.1	
48'	1.8	9.2	32'	.5	19.8	32'	.2	34.8	
60'	1.2	11.5	40'	.3	24.8	40'	.1	43.4	
ltem Number	<b>1</b> 61	156		16 <sup>-</sup>	157		16	158	
Beam Angle	10° S	Spot		35° F	lood		60° Wid	le Flood	
Max Candela	92	36		12	98		51	4.4	
Ft. Away	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	
8'	111	1.5	4'	54	2.4	4'	19.2	4.2	
12'	49.3	2.2	8'	13.5	4.8	8'	4.8	8.4	
24'	12.3	4.4	16'	3.4	9.7	16'	1.2	16.8	
36'	5.5	6.6	24'	1.5	14.5	24'	.5	25.2	
48'	3.1	8.7	32'	.8	19.3	32'	.3	33.6	
60'	2	10.9	40'	.5	24.2	40'	.2	42	

	12V Integrated LED Water Accent								
ltem Number	15711LED								
Beam Angle	60° Wid	de Flood							
Ft. Away	Foot-candles	Beam Width							
8'	5.6	3.3							
12'	1.5	6.5							
24'	.4	13							
36'	.2	19.5							
48'	.1	26							
60'	.1	32.5							

### Photometrics: 12V Integrated LED In-Ground

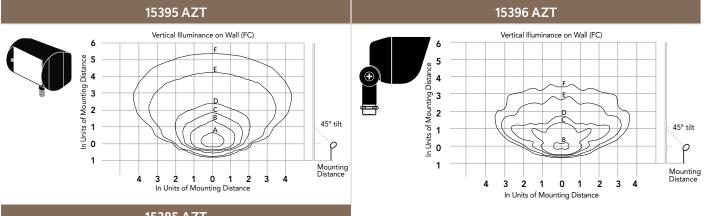
		12V Integrated LED Well											
ltem Number			728	15729		15768		15	747	15757			
Beam Angle	10°	Spot	10° 3	Spot	10°	Spot	35° F	Flood	35° I	=lood	35° F	lood	
Ft. Away	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width	
8'	33.6	1.2	68.3	1.2	100.6	1.3	35.8	1.9	66.9	1.8	98.1	2.1	
12'	14.9	1.8	30.4	1.9	44.7	1.9	9	3.9	16.8	3.6	24.5	4.1	
24'	3.7	3.6	7.6	3.8	11.2	3.8	2.2	7.8	4.2	7.3	6.1	8.2	
36'	1.7	5.4	3.4	5.7	5	5.7	1	11.7	1.8	11	2.7	12.3	
48'	.9	7.2	1.9	7.6	2.8	7.6	.6	15.6	1	14.6	1.5	16.4	
60'	.6	9	1.2	9.5	1.8	9.5	.4	19.5	.7	18.3	1	20.5	

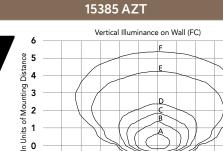
### Photometrics: 12V Integrated LED In-Ground

		12V Integrated LED Well									
ltem Number	157	769	157	748	15758						
Beam Angle	60° Wid	e Flood	60° Wid	e Flood	60° Wide Flood						
Ft. Away	Foot-candles	Beam Width	Foot-candles	Beam Width	Foot-candles	Beam Width					
8'	18.5	2.4	36.9	2.4	47	2.4					
12'	4.7	4.8	9.3	4.8	11.8	4.8					
24'	1.2	9.6	2.3	9.6	2.9	9.6					
36'	.5	14.4	1	14.4	1.3	14.4					
48'	.3	19.2	.6	19.2	.7	19.2					
60'	.2	24	.4	24	.5	24					

I	12V Integrated LED In-Ground											
ltem Number	16030		16033 16036		036	16031		16034		16037		
Beam Angle	10° :	Spot	10° :	Spot	10°	Spot	35° Flood		35° Flood		35° Flood	
Ft. Away	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width
8'	32.6	1.6	113.8	1.4	214.7	1.4	21.7	2.3	53	2.4	98.5	2.3
12'	14.5	2.3	50.6	2.1	95.4	2	5.4	4.5	13.3	4.7	24.6	4.5
24'	3.6	4.7	12.6	4.3	23.8	4.1	1.4	9	3.3	9.4	6.1	9.1
36'	1.6	7	5.6	6.4	10.6	6.1	.6	13.5	1.5	14.1	2.7	13.6
/Q\	.9	9.3	3.2	8.6	6	8.1	.3	18	.8	18.9	1.5	18.1
	.6	11.7	2	10.7	3.8	10.1	.2	22.5	.5	23.6	1	22.6
ltem Number	160	032	160	035	16	038						
Beam Angle	60° Wid	le Flood	60° Wic	le Flood	60° Wic	le Flood						
Ft. Away	Foot- candles	Beam Width	Foot- candles	Beam Width	Foot- candles	Beam Width						
8'	11.2	4.3	14.7	4.5	25.1	4.4						
12'	2.8	8.6	3.7	9.1	6.3	8.8						
24'	.7	17.3	.9	18.1	1.6	17.7						
36'	.3	25.9	.4	27.2	.7	26.5						
48'	.2	34.6	.2	36.2	.4	35.3						
60'	.1	43.2	.1	45.3	.3	44.2						

### Photometrics: 12V Retrofit Accent with LED/Incandescent





3 2 1 0 1 2

In Units of Mounting Distance

3

1



# 120V Accessories

LED & Incandescent

Durable in design and versatile in application–120V accessories are engineered to perform in any weather or high-use application.



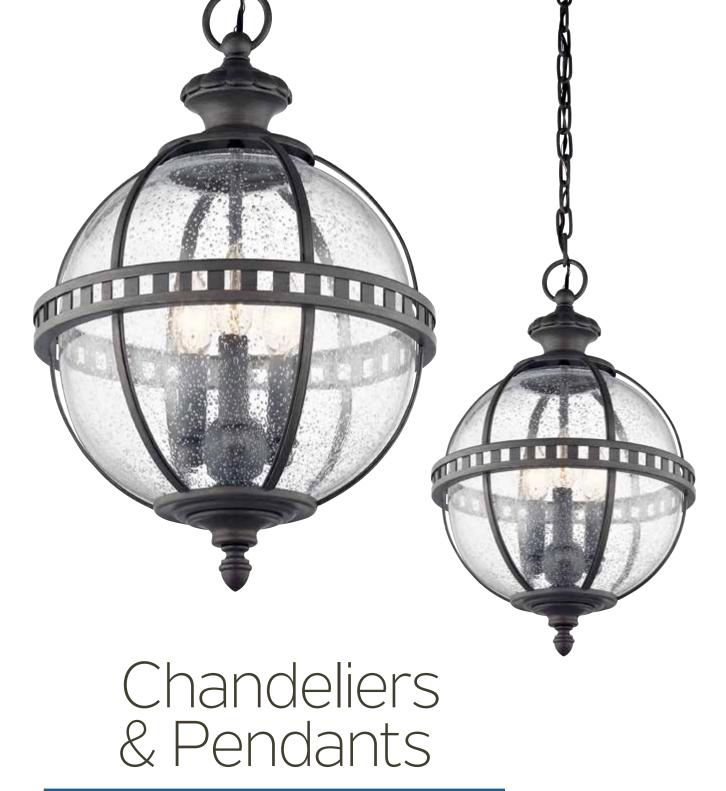
Mounting Accessories	Item Number	Notes	Lens/Shield Accessories	lt	em Number	Notes
Concrete Installation Kit 7" D 5.19" H	For use with: 15262, 15608 AZ 5563, 15266, 15295, 15IGT100, 15IGT300, 15IGT600	Injection molded concrete pour kit.	Blue Lens	<b>15623</b> BL	For use with: 15231	Well Light Blue Lens Filter 15626 BL also available (for use with: 15262, 15263, 15266, 15295)
Fixture Mounting Stems	6" – <b>15645</b> AZT, <b>15645</b> BBR, <b>15645</b> BKT 12" – <b>15656</b> AZT, <b>15656</b> BBR, <b>15656</b> BKT 18" – <b>15657</b> AZT, <b>15657</b> BBR, <b>15657</b> BKT 24" – <b>15658</b> AZT, <b>15658</b> BBR, <b>15658</b> BKT	All stems made of corrosion resistant aluminum alloy (except BBR, which is Bronzed Brass) with baked thermoset powder coating to match fixtures. Used with: • In-ground support stakes (low voltage only)	45° Hexcell Louver	<b>15638</b> BK	For use with: 15241	Expanded aluminum shield with high temperature black finish.
<u>e</u>		• Surface mounting flange (low or line voltage) .5-14 NPSM stems will require additional Coupler (15649) or Elbow (15647) for accent	Rock Guard 9.63" Dia. 1.29" H	15688 AZ	For use with: 15263, 15264, 15265, 15295	
.5-14 NPSM Thd. stems .75 Dia. overall		light use	LED Long Cowl	<b>16060</b> BBR	For use with 12.5W fixtures: 16200, 16201, 16206	Ideal solution for downlighting where increased glare control is needed. <i>For use with 120V Radiax</i> <i>LED accent lights only.</i>
Power Post <sup>®</sup> 4.375"	For use with fixtures: 15205 AZT, 15205 BKT,	Fast, one-step connection. 2.25" inside diameter accepts conduit of different sizes. Made of impact and corrosion resistant PVC, suitable		16062 BBR	For use with 19.5W & 29W fixtures: 16202, 16203, 16204, 16205, 16207, 16208	
19"	15276 ВК 15211 АZТ, 15211 ВКТ, 15232 АGZ, 5236 ВКТ, 15236 ТZ, 15239 ОВ,	for wet locations. No unsightly junction boxes or time-taking assembly, just a trouble-free installation. Designed for line voltage (120V) landscape lighting. Eliminates need for above or	LED 360° Short Cowl	16061 BBR	For use with 12.5W fixtures: 16200, 16201, 16206	Full shroud for expanded glare conrol. Great option for downlighting to recess light source back. For use with 120V Radiax LED accent lights only.
2.25"	15239 OZ and all other .5" NPSM threaded fixtures	below ground boxes. Built-in stabilizer removes need for concrete. Accepts .5 NPSM thread. UL and cUL listed.	16061: 2.5" H 16063: 3.25" H	16063 BBR	For use with 19.5W & 29W fixtures: 16202, 16203, 16204, 16205, 16207, 16208	16061 - 3" Diameter 16063 - 4.5" Diameter
Bollard Mounting Stake 23" H	For use with all bollard mounting kits on 12V and 120V fixtures: 15005, 15205, 15211	Improved extruded PVC stake is corrosion resistant and 23" length has increased support and stability. Fitting provided to mount bollard in soil. <i>As allowed by local electrical codes</i>	PAR20 Medium Cowl 3.32" L	<b>15620</b> AZT <b>15620</b> BKT	For use with: 15231	Lens cowl sold with fixture. 360° rotation for precise light cutoff.
Bollard Template Kit		For use with all bollard mounting kits. For	PAR20 Long Cowl 7.45" L	15628 AZT 15628 BKT	For use with: 15231	
\$ <u></u> \$.80	<b>15671</b> STFor use with all bollard mounting kits on 12V and 120V fixtures: 15005, 15205, 15211	permanent installation into concrete. Template kit includes positioning template, anchor bolts, and mounting hardware.	PAR30 Medium Cowl 3.87" L	<b>15640</b> AZT <b>15640</b> BKT	For use with: 15241	
Surface Mounting Flange 4" D 1.5-14 NPSM Thd.	15601 AZT 15601 BBR 15601 BKT 15601 WHT	On 120V installations, Cast Aluminum surface flange must be used with junction box (not included). Neoprene gasket supplied to ensure water tight seal. BBR is Bronzed Cast Brass.	PAR30 Long Cowl 8.99" L	<b>15648</b> AZT <b>15648</b> BKT	For use with: 15241	
Flange Mounting Nipple	15602 AL	Anodized aluminum nipple. Used when attaching fixture directly to 15601 flange and 15607 bracket.	PAR38 Medium Cowl 4.92" L	<b>15660</b> AZT <b>15660</b> BKT	For use with: 15251, 15255	
NPSM Thd.	<b>15609</b> AZT	For use with low voltage and line voltage fixtures Corrosion resistant Cast Aluminum alloy with	PAR38 Long Cowl	15668 AZT	For use with: 15251, 15255	
2.39" W 5.56" H	15609 BKT 15609 CBR 15609 WHT	baked thermoset powder coat finish.	PAR20 Cowl 3.58" L	15630 AZT	For use with: 15230	Heat-resistant clear lens
Gel Encapsulant	<b>15616</b> WH10 10-pack	Re-enterable encapsulant gel for in-ground installations. Two-part field mixable material in one convenient package.	PAR38 Cowl 3.58" L	<b>15650</b> AZT	For use with: 15250	Heat-resistant clear lens

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Outdoor Living

Bring decorator-inspired style to customers' outdoor entertaining spaces. Our comprehensive offering features premium materials designed to withstand rain, wind, UV exposure and more for years of worryfree performance. You'll find everything your project needs: post lights, wall lanterns, outdoor-rated ceiling fans and more. 10 - 10



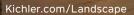


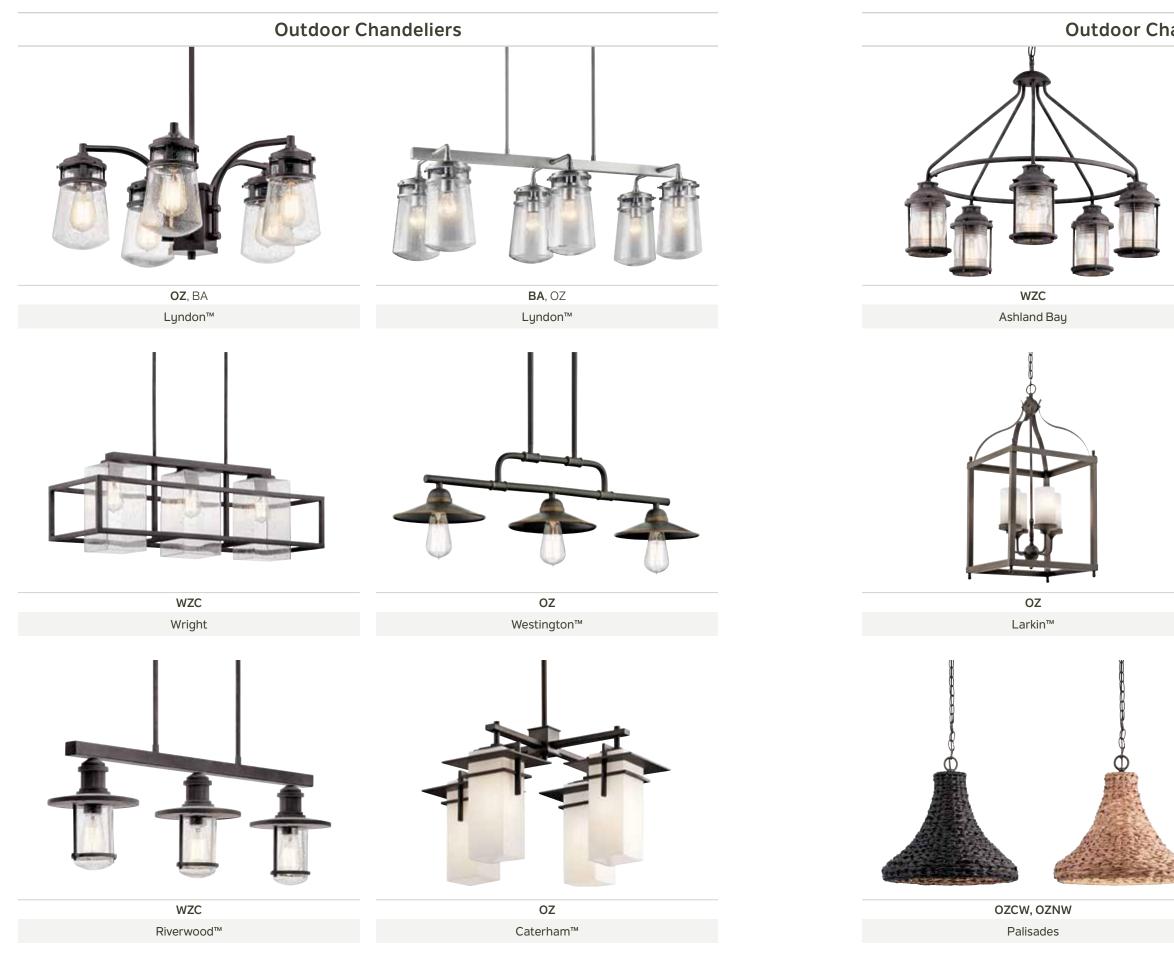
120V Damp-Rated for Outdoor Covered Areas

With finishes that handle the elements, and styles that match a variety of homeowner tastes, Kichler chandeliers and pendants create an essential focal point over dining areas, inside a gazebo, over an entryway and more.









### **Outdoor Chandeliers & Pendants**



BKT

Vandalia™



LD Halleron™







# Outdoor Ceiling Fans

120V Damp-Rated & Wet-Rated

Designed and constructed to withstand the elements, Kichler ceiling fans are the perfect way to enhance a client's outdoor leisure and entertainment experiences — bringing light and airflow to gathering spaces. Our wide selection of styles assures you can offer homeowners the look they're after.



### Wet-Rated & Climates Outdoor Fans

### Wet-Rated & Damp-Rated Outdoor Fans

### WET-RATED:

### For open or direct exposure to sun, rain or water spray

- $\boldsymbol{\cdot}$  Ideal for pergolas, open porches and more
- Highly durable finishes tested against rain and snow
- Feature stainless steel mounting hardware
- Include all-weather ABS plastic blades



54" Seaside <sup>™</sup> LED						
AIR PERFORMANCE						
Airflow Cubic Ft. Per Minute on High	Power Usage Watts on High (Excludes Lights)	Airflow Efficiency Cubic Ft. Per Minute Per Watt				
5627	60	93				



60" Szeplo™ II LED (Available in Multiple Sizes)						
AIR PERFORMANCE						
Airflow Cubic Ft. Per Minute on High	Power Usage Watts on High (Excludes Lights)	Airflow Efficiency Cubic Ft. Per Minute Per Watt				
7154	32	225				



52" Eads <sup>™</sup> Patio (Available in Multiple Sizes)						
AIR PERFORMANCE						
Airflow Cubic Ft. Per Minute on High	Power Usage Watts on High (Excludes Lights)	Airflow Efficiency Cubic Ft. Per Minute Per Wat				
5904	78	76				

### CLIMATES:

### Built to withstand open exposure to the harshest elements

- Ideal for areas with extreme heat, saltwater spray, intense cold and consistent UV exposure
- Have superior corrosion and warp-resistant finishes: fan bodies and select blades crafted from all-weather ABS plastic or aluminum
  Feature a weather-hardy aluminum support system



44" Sola LED (Available in Multiple Sizes)						
AIR PERFORMANCE						
Airflow Cubic Ft. Per Minute on High	Power Usage Watts on High (Excludes Lights)	Airflow Efficiency Cubic Ft. Per Minute Per Watt				
3911 68 57						



52" <b>Canfield™ Climates™</b> (Available in Multiple Sizes and Blade Sets)						
AIR PERFORMANCE						
Airflow         Power Usage         Airflow Efficiency           Cubic Ft. Per Minute on High         Watts on High (Excludes Lights)         Cubic Ft. Per Minute Per Watt						
6231 73 86						



60" Rana <sup>∞</sup> LED						
AIR PERFORMANCE						
Airflow Cubic Ft. Per Minute on High	Power Usage Watts on High (Excludes Lights)	Airflow Efficiency Cubic Ft. Per Minute Per Watt				
8536	70	121				

### DAMP-RATED: Engineered for high-humidity areas

- Ideal for enclosed porches, sunrooms, bathrooms and more
- Water-resistant durable finishes
- Incorporate galvanized undercoating
- Include stainless steel mounting hardware
- Feature all-weather ABS plastic or sealed wood blades



18" <b>Pola</b> ™ (Available in Multiple Sizes)						
	AIR PERFORMANCE					
Airflow Cubic Ft. Per Minute on High	Power Usage Watts on High (Excludes Lights)	Airflow Efficiency Cubic Ft. Per Minute Per N				
_	-	-				



65" Maor™ Patio LED						
	AIR PERFORMANCE					
Airflow Cubic Ft. Per Minute on High	Power Usage Watts on High (Excludes Lights)	Airflow Efficiency Cubic Ft. Per Minute Per Watt				
8093	90	90				



52" Monarch <sup>∞</sup> II Patio			52" Lyndon <sup>™</sup> Patio (Available in Multiple Sizes)			
	AIR PERFORMANCE			AIR PERFORMANCE		
Airflow Cubic Ft. Per Minute on High	Power Usage Watts on High (Excludes Lights)	Airflow Efficiency Cubic Ft. Per Minute Per Watt	Airflow Cubic Ft. Per Minute on High	Power Usage Watts on High (Excludes Lights)	Airflow Efficiency Cubic Ft. Per Minute Per Watt	
5532	82	68	4946	65	77	

For more details, see our Ceiling Fan Catalog K418 or visit Kichler.com





	56" Phree <sup>™</sup> LED	
	AIR PERFORMANCE	
Airflow Cubic Ft. Per Minute on High	Power Usage Watts on High (Excludes Lights)	Airflow Efficiency Cubic Ft. Per Minute Per Watt
6467	87	75



	70" Monarch <sup>™</sup> Patio	
	AIR PERFORMANCE	
Airflow Cubic Ft. Per Minute on High	Power Usage Watts on High (Excludes Lights)	Airflow Efficiency Cubic Ft. Per Minute Per Watt
8339	94	89



Kichler.com/Landscape



# Wall Lanterns & Posts

120V Wet-Rated for Outdoor Areas

Kichler decorative lantern lights and posts add curb appeal and architectural interest around doorways, garages and more. Many match Kichler interior collections for total home coordination — a major selling feature for homeowners. Each fixture is also outdoor-rated to perform in the harshest of elements.





### **Outdoor Posts Outdoor Wall Lanterns** BKT, OZ BKT BKT BKT BKT BKT River Path™ LED Manhatten LED Ashbern LED Amber Valley LED Amber Valley LED Wakefield LED BKT BA, BKT

AVI Mill Lane™

WZC

Argyle

BKT, LD

Tournai™

RZ South Hope™



Lyndon™



AZ, SS Pacific Edge™







For more details, see our Outdoor Catalog K818 or visit Kichler.com

ΟZ Beacon Square



WZC Andover

Wakefield LED



RST Rustic™





ΟZ Harbor Row™

240



WZC

Argyle



BKT, LD Tournai™



Ashland Bay





Salisbury™



DBK Royal Marine™



















Northland™

RZ

South Hope™

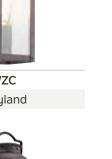
BA, AZ

Lyndon™

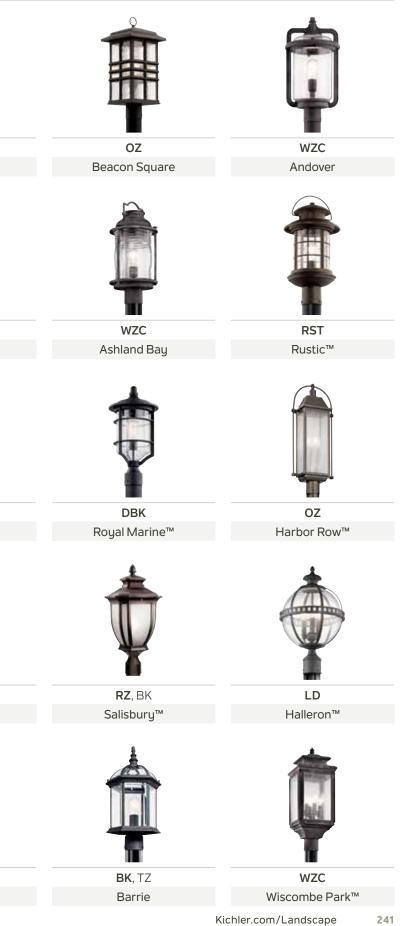
AZ, SS

Pacific Edge™









# LED Portable Lantern

Dimmable with Bluetooth<sup>®</sup> Speaker



RZ (Rubbed Bronze) South Hope™ LED



Full-function indicator buttons for audio control and light dimming.

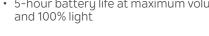




• Dimmable • 3000K pure white light



• Rechargeable NiMH 3.6V battery • Charge from 0-100% in 5 hours • 5-hour battery life at maximum volume





• 3W audio output • Independent controls for sound and lighting



BKT (Textured Black) Lyndon™ LED







Integrated Speaker

Full-function indicator buttons for audio control and light dimming.



• Controlled by any Bluetooth-enabled device • 30-foot range



• Damp rated • Indoor or covered outdoor areas





## **Finishes Guide**



AGZ Aged Bronze



BK Black



CO Copper



OB Olde Brick



SS Stainless Steel



ΑZ Architectural Bronze



BKT Textured Black



CW Crimson Wood



ΟZ Olde Bronze



TZG Tanneru Bronze with Gold Accents



AZT Textured Architectural Bronze



BN Brushed Nickel



GRY Textured Gray



ΡZ Patina Bronze



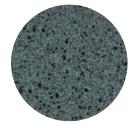
TZT Textured Tannery Bronze



**Bronzed Brass** 



CBR **Centennial Brass** 



MST **Textured Midnight** Spruce



SD **Textured Sand** 



WHT Textured White

# Symbols Guide



Wet Rating: Suitable for direct contact with rain, snow or excessive moisture (such as fog or ocean spray).

Line Extension: Additional product added to an existing product line.

Dark Sky compliant: Aligns with the International Dark-Sky Association (IDA) standards of reducing light pollution, protecting the night skies for present and future generations.

016 Title 24, Part 6: A document that contains the California Building Energy Efficiency Standards as regulated by the California Energy Commission. Products marked with this logo and labelled as JA8-2016 or JA8-2016-E have been found to meet the requirements stated in 2016 T24, Part 6. For more information, visit www.energy.ca.gov/title24.



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Federal Communications Commission devices designated with this logo comply with part 15 of the FCC Rules.

### Ceiling Fans Iconography:



4: Damp-Rated 5: Wet-Rated 6: ENERGY STAR®



All electrical products are UL/CSA/ or ETL Listed and Certified to UL/CSA Standards for use in U.S.A. and Canada except where noted.



Kichler is a member of the American Lighting Association (ALA), a trade association representing the residential lighting and ceiling fan industries in the

United States and Canada. Its membership includes leading lighting and fan manufacturers, showrooms (retailers), manufacturers representatives and designers. ALA members are dedicated to providing the public with the proper application of quality residential lighting.

To serve you better, Kichler® reserves the right to make improvements to products in this catalog. Therefore, some products may change during the life of the catalog and the product information contained in this catalog may also have changed.

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### Abbreviation Key

AC	Alternating Current
ADA	Americans with Disabilities Act
ANSI	American National Standards Institute
AWG	American Wire Gauge system
СВСР	Center Beam Candlepower
CLR	Clear
CRI	Color Rendering Index
D	Depth
DC	Direct Current
FC, fc	Foot-candles
FL	Flood Light
FRO	Frosted
н	Height
hrs.	Hours
Hz	Hertz
ID	Inside Diameter
К	Kelvin temperature
kV	Kilovolt
L	Length
LED	Light Emitting Diode
Im	Lumens
lm/W	Lumens per Watt
lpw	Lumens per Wat
LVPC	Low Voltage Power Conditioner
Max.	Maximum
NFL	Narrow Flood Light
NSP	Narrow Spot Light
NPSM	National Pipe & Thread - Straight, Male
OD	Outside Diameter
pf	Power Factor
SP	Spot Light
V	Volt
VA	Volt-Amp
VNSP	Very Narrow Spot Light
VWFL	Very Wide Flood Light
w	Watt, when directly next to a number
w	Width, when paired with L and/or H
WFL	Wide Flood Light
Thd.	Thread

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1959 BK12194 K2198 K198 K2 K2 T BKT AC227 K2	15123 BK	161	15458 OZ	153	15623 BL	227
H91 PK174174 C194196 AAT272193 PAL154 C154 C153 T153 T153 T155 T194 A212154 C BR10153 T153 T155 T152 AAT, FK28154 T C BR10153 BAT177153 BAT2011540 C BR10153 BAT177153 BAT2011540 C BR178153 BAT178153 BAT2011540 C BR178154 BAT178153 BAT2011544 C BR171178178153 BAT2011544 C BR171174178153 BAT2011544 C BR171174177153 BAT2011544 C BR171174174154 BAT, FK2011544 AT, FK BR, BK T172174154 BAT, FK2011544 AT, FK BR, BK T172174154 BAT, FK2011544 C BR174174174154 BAT, FK2011544 C BR174174174154 BAT, FK2011544 C BR174174174155 AAT2011544 C BR174174174155 AAT2011544 C BR174174174155 AAT2011544 C BR174174174155 AAT1541544 C BR174174174155 AAT1541544 C BR174174174155 AAT1541544 C BR174 </td <td>15165 AZ</td> <td>158</td> <td>15470 AZT, BKT, CBR</td> <td>131</td> <td>15626 BL</td> <td>227</td>	15165 AZ	158	15470 AZT, BKT, CBR	131	15626 BL	227
H91 PK174174 C194196 AAT272193 PAL154 C154 C153 T153 T153 T155 T194 A212154 C BR10153 T153 T155 T152 AAT, FK28154 T C BR10153 BAT177153 BAT2011540 C BR10153 BAT177153 BAT2011540 C BR178153 BAT178153 BAT2011540 C BR178154 BAT178153 BAT2011544 C BR171178178153 BAT2011544 C BR171174178153 BAT2011544 C BR171174177153 BAT2011544 C BR171174174154 BAT, FK2011544 AT, FK BR, BK T172174154 BAT, FK2011544 AT, FK BR, BK T172174154 BAT, FK2011544 C BR174174174154 BAT, FK2011544 C BR174174174154 BAT, FK2011544 C BR174174174155 AAT2011544 C BR174174174155 AAT2011544 C BR174174174155 AAT2011544 C BR174174174155 AAT1541544 C BR174174174155 AAT1541544 C BR174174174155 AAT1541544 C BR174 </td <td>15190 BK</td> <td>122</td> <td>15471 BBR. TZT</td> <td>138</td> <td>15628 AZT. BKT</td> <td>227</td>	15190 BK	122	15471 BBR. TZT	138	15628 AZT. BKT	227
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1211 ACT, BIT20815478 CGR10015634 BK07218230 AZT, BKT20015480 CGR12115640 AZT, BKT22618232 AGZ20915480 CGR10115642 LM11618232 AGZ20015480 CGR10115642 LM11618232 AGZ20115480 CGR10115642 LM11718232 AGZ20115480 CGR10115642 AZT, BGR, BM, T172, 26118232 AGZ20115460 CGR10115643 AZT, BGR, BM, T172, 26118253 AZT, CM, T20215480 CGR10115643 AZT, BGR, BM, T172, 26118253 AZT, CM, T20215480 CGR10115643 AZT, BGR, BM, T172, 26118263 AZT, CM, T20315490 CGR10115643 AZT, BM, T172, 26118263 AZT, AZT, BKT20415490 CGR10115650 AZT, CT, BKT172, 2261830 AZT, AZT, BKT10215490 CGR11415650 AZT, BKT, BKT172, 2261830 AZT, AZT, BKT10215490 CGR11815663 AZT, BKT, BKT172, 2261830 AZT, AZT, BKT10215490 CGR11815663 AZT, BKT, BKT172, 2261830 AZT, AZT, BKT12415490 CGR11815663 AZT, BKT, BKT172, 2261830 AZT, BKT, BKT12415490 CGR11815663 AZT, BKT, BKT172, 2261830 AZT, BKT, BKT12415490 CGR11815663 CGR11815663 CGR1181830 AZT, BKT, BKT1261560 BK, CT <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1223 AZT, KTT     201     15480 CBR     11     15638 BK     222       1523 AZ, KTK     209     15480 CBR     17     15641 AL     175       1523 AZ, KT, TZT     209     15480 CBR     101     15643 FR0     175       1523 AZT, KKT     209     15484 CBR     101     15643 FR0     175       1524 AZT, KKT     200     15484 CBR     101     15643 FR0     177       1526 AZT, KKT     200     15484 CBR     101     15643 FR0     172       1526 AZT, KKT     201     15486 CBR     101     15643 AZT, BRR, BKT     172       1526 AZT, KKT     201     15486 CBR     101     15647 AZT, BRR, BKT     172       1526 AZT, KKT     201     15480 CBR     111     15647 AZT, BRR, BKT     172       1526 AZT, KKT, KT     201     15480 CBR     116     15640 AZT, BTR, BKT     172       1526 AZT, KKT, KT     103     15690 CBR     116     15630 AZT, BKT     172       1530 AZT, AZTB, BKT     103     15630 AZT, BKT     172     172       1530 AZT, AZTB, BKT     103     15663 AZT, BKT     172     172       1530 AZT, AZTB, BKT     172     1563     1566 AZT, BKT     172     172       1530 AZT, AZTB, BKT     172     1						
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1522 ADZ     208     15482 CBR     171     15461 B.     175       1523 ADX T, TZT     209     15484 CBR     101     15643 FNO.     175       1524 ADX T, BKT     200     15484 CBR     101     15644 AXT, BBR, BKT     172, 255       1525 AZT, BKT     200     15485 CBR     101     15644 AZT, BBR, BKT     172, 255       1525 AZT, BKT     200     15486 CBR     101     15646 AZT, BBR, BKT     172, 255       1526 AZT, BKT     200     15486 CBR     101     15646 AZT, BBR, BKT     172, 255       1526 AZT, BKT     200     15486 CBR     101     15666 AZT, BBR, BKT     172, 255       1526 BAZ     200     15480 CBR     106     15650 AZT, BBR, BKT     172, 255       1526 BAZ, AZT, BKT     130     15492 CBR     116     15650 AZT, BBR, BKT     172, 255       1530 AZT, AZT, BKT     132     15493 CBR     117     15650 AZT, BBR, BKT     172, 256       1531 AZT, AZT, BKT     132     15493 CBR     117     15650 AZT, BKT     172, 256       1531 AZT, AZT, BKT     132     15493 CBR     117     15650 AZT, BKT     172, 256       1531 AZT, AZT, BKT, MAT     138     15493 CBR     117     15650 AZT, BKT     172, 256       1531 AZT, AZT, BKT, MAT     1549 CBR <td>15230 AZT</td> <td>201</td> <td>15480 CBR</td> <td>131</td> <td>15638 BK</td> <td>227</td>	15230 AZT	201	15480 CBR	131	15638 BK	227
1928 DCT TT1948 CBR1011964 LN1751928 DC1964 CBR1011964 FPO1751928 AZT, BKT2021968 CBR1011964 AZT, BBR, BKT172 2021926 AZT, BKT2021968 CBR1011964 AZT, BBR, BKT172 2021926 AZT, BKT2021968 CBR1011964 AZT, BBR, BKT172 2021926 AZT, BKT2021968 CBR1741969 AZT, BBR, BKT172 2021926 AZT, BKT2021968 CBR1741969 AZT, BKT172 2021926 AZT, BKT2031969 CBR1741969 AZT, BKT172 2021926 AZT, BKT2041969 CBR1761969 AZT, BKT172 2021930 AZT, AZTD, BKT1021969 CBR1761969 AZT, BKT172 2021930 AZT, AZTD, BKT1021969 CBR1761965 AZT, BKT172 2021931 AZT, BKT1021969 CBR1761965 AZT, BKT172 2021931 AZT, BKT1031969 CBR1761966 AZT, BKT172 2021931 AZT, BKT1041969 CBR1961966 AZT, BKT172 2021931 AZT, BKT1031960 CBR1960 CBR1961966 AZT, BKT172 2021930 AZT, BKT, TZT1931960 CBR	15231 AZT, BKT	200	15481 CBR	121	15640 AZT, BKT	227
12230.Z2001544 AZT (MC)1546 FRO17515230 AZT (MT)20015486 CBR10115464 AZT (MT)172.23615231 AZT, KMT20115486 CBR10115464 AZT, BKR, MT172.23615250 AZT20215486 CBR10115464 AZT, BKR, MT172.23615260 AZ20315488 CBR10715690 AZT, BBR, BKT172.23615260 AZ20315488 CBR17415500 AZT272.13615260 AZ20315489 CBR17415500 AZT, BKR, MT172.23615270 BK22615490 CBR17615500 AZT, BKR, MT172.23615270 BK22615490 CBR17615500 AZT, BKR, MT172.23615370 AZT, AZTA, BKT10315492 CBR17615500 AZT, BKR, MT172.23615370 AZT, AZTA, BKT13215493 CBR17615500 AZT, BKR, MT172.23615380 AZT, AZTA, BKR13415496 CBR17915665 AZT, BKR, MT172.23615380 AZT, AZTA, BKR13415497 CBR13615600 AZT, BKR177.23715390 AZT, BKR13415497 CBR13615600 CBR13615600 AZT, BKR177.23715390 AZT, BKR13615497 CBR13615600 CBR13615600 AZT, BKR177.23715390 AZT, BKR13515500 CBR1361567 LBR177.237178.23815390 AZT, BKR13615500 CBR13600 CBR13600 CBR1367 LBR137.267137.25715390 AZT	15232 AGZ	209	15482 CBR	177	15641 BL	175
12230.Z2001544 AZT (MC)1546 FRO17515230 AZT (MT)20015486 CBR10115464 AZT (MT)172.23615231 AZT, KMT20115486 CBR10115464 AZT, BKR, MT172.23615250 AZT20215486 CBR10115464 AZT, BKR, MT172.23615260 AZ20315488 CBR10715690 AZT, BBR, BKT172.23615260 AZ20315488 CBR17415500 AZT272.13615260 AZ20315489 CBR17415500 AZT, BKR, MT172.23615270 BK22615490 CBR17615500 AZT, BKR, MT172.23615270 BK22615490 CBR17615500 AZT, BKR, MT172.23615370 AZT, AZTA, BKT10315492 CBR17615500 AZT, BKR, MT172.23615370 AZT, AZTA, BKT13215493 CBR17615500 AZT, BKR, MT172.23615380 AZT, AZTA, BKR13415496 CBR17915665 AZT, BKR, MT172.23615380 AZT, AZTA, BKR13415497 CBR13615600 AZT, BKR177.23715390 AZT, BKR13415497 CBR13615600 CBR13615600 AZT, BKR177.23715390 AZT, BKR13615497 CBR13615600 CBR13615600 AZT, BKR177.23715390 AZT, BKR13515500 CBR1361567 LBR177.237178.23815390 AZT, BKR13615500 CBR13600 CBR13600 CBR1367 LBR137.267137.25715390 AZT	15236 BKT. TZT	209	15483 CBR	101	15642 LIN	175
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1925 AZT     202     1447 CBR     107     1948 AZT, BAT     222       1526 AZ     205     1548 BK12     12     1564 AZT, BBR, BKT     172       1527 BK     226     15490 CBR     16     1556 AZT, BKT     172       1527 BK     226     15490 CBR     176     1555 AZT, BKT     172       1530 AZT, AZT6, BKT     103     15492 CBR     116     1555 AZT, BKT     172       1530 AZT, AZT6, BKT     103     15492 CBR     116     1555 AZT, BKT     172       1531 AZT, AZT6, BKT     123     15493 CBR     116     1555 AZT, BRR, BKT     172       1531 AZT, AZT6, BKT     132     15493 CBR     117     1555 AZT, BBR, BKT     172       1531 AZT, AZT6, BKT     147     15493 CBR     119     1555 AZT, BKT     172       1531 AZT, AZT6, BKT     149     15493 CBR     119     1555 AZT, BKT     172       1531 AZT, AZT6, BKT     149     15493 CBR     119     1555 AZT, BKT     172       1531 AZT, AZT6, BKT     149     15493 CBR     119     1555 AZT, BKT     172       1531 AZT, AZT6, BKT     149     15493 CBR     119     1566 AZT, BKT     172       1531 AZT, AZT6, BKT     159     159     1567 AZT, BKT     172     155						
15266 AZ     205     15489 DK12     121     15669 AZT, BBR, BKT     173       15266 AZ     204     15489 CBR     174     15650 AZT     227       15276 BK     226     15490 CBR     116     15653 AZT, BKT     172       15309 AZT, AZTE, BKT     133     15491 CBR     116     15633 AZT, BKT     172       15319 AZT, AZTE, BKT     132     15493 CBR     114     15656 AZT, BSR, BKT     172, 226       15313 AZT, AZTE, BKT     134     15494 CBR     117     15656 AZT, BBR, BKT     172, 226       15314 AZT, MST     134     15494 CBR     117     15656 AZT, BBR, BKT     172, 226       15314 AZT, MST     134     15496 CBR     119     15669 AZT, BKT     172, 226       15318 AZT, BKR, BKT     134     15496 CBR     119     15666 AZT, BKT     172       15318 AZT, BKT     135     15496 CBR     119     15666 AZT, BKT     172       1532 AAZT, BKT     135     15500 CBR     119     15666 AZT, BKT     172       1533 AZT, BKT, BTT     135     15500 CBR     119     1567 CBR     172       1533 AZT, BKT, BKT     135     15500 CBR     139     1567 CBR     175       1533 AZT, BKT, BTT     135     15500 CBR     128     1567 ST     <						
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1522 6 k         226         15490 CBR         16         1551 AZT, BRT         172           15295 AZ         204         15491 CBR         117         1562 AZT, BKT         121           15309 AZT, AZTL, BKT         133         15492 CBR         16         1562 AZT, BKT         172           15310 AZT, AZTE, BKT         132         15493 CBR         174         15656 AZT, BBR, BKT         172, 226           15311 AZT, AZTE, BKT         132         15494 CBR         117         15656 AZT, BBR, BKT         172, 226           15315 AZT, AZTE, BKT         134         15495 CBR         117         15656 AZT, BBR, BKT         172, 226           15315 AZT, AZTE, BKT         134         15495 CBR         119         15656 AZT, BKT         172           15317 AZT, BKT         134         15495 CBR         118         15666 AZT, BKT         172           15318 AZT, BKT, TET         133         15500 CBR         113         15666 AZT, BKT         172           15318 AZT, BKT, TET         133         15500 CBR         119         15670 AZT, BKT         172           1532 AZT, BKT, TET         133         15500 CBR         179         15670 SK         179           15326 AZT, BKT         1350         15500 CBR	15266 AZ	205	15488 BK12	121	15649 AZT, BBR, BKT	173
b2g5 AZ     204     15491 CBR     117     15622 AZT, BKT     112       1530 AZT, AZTL2, BKT     103     15492 CBR     116     15633 AZT, BKT     172       1531 AZT, AZTL6, BKT     112     15493 CBR     117     15655 AZT, BBR, BKT     172, 226       1531 AZT, AZTL, BKT     112     15495 CBR     117     15656 AZT, BBR, BKT     172, 226       1531 AZT, AZT, BK, BKT     114     15496 CBR     119     15656 AZT, BBR, BKT     172, 226       1531 AZT, AZT, BN     140     15496 CBR     119     15656 AZT, BKT, BKT     172       1531 AZT, AZT, BN     140     15496 CBR     118     15666 AZT, BKT     172       1531 AZT, AZT, BN     140     15496 CBR     118     15666 AZT, BKT     172       1532 AZT, BKT, TZT     137     15496 CBR     113     15666 AZT, BKT     172       1532 AZT, BKT, TZT     138     15501 CBR     113     15670 CBK     179       1532 AZT, BKT, TZT     135     15502 BK     179     1567 AZK     175       1533 AZT, BKT, TZT     135     15502 CBR     136     1575     172       1533 AZT, BKT, TZT     135     15502 CBR     136     1567 AZK     175       1533 AZT, BKT, TZT     135     15502 CBR     176     1	15268 AZ	204	15489 CBR	174	15650 AZT	227
15309 AZT, AZT 12, BKT     103     15492 CBR     116     15503 AZT, BKT     172       15310 AZT, AZT6, BKT     123     15494 CBR     14     15656 AZT, BBR, BKT     172, 226       15314 AZT, MST     142     15494 CBR     117     15658 AZT, BBR, BKT     172, 226       15315 AZT, AZT6, BKT     134     15496 CBR     117     15658 AZT, BBR, BKT     172, 226       15316 AZT, AZT6, BKT     134     15496 CBR     118     15656 AZT, BKR, BKT     172, 226       15317 AZT, BKT     134     15496 CBR     118     15656 AZT, BKT     172       15318 AZT     137     15498 CBR     118     15656 AZT, BKT     172       15326 AZT, BKT, TZT     135     15501 CBR     118     15666 AZT, BKT     172       15326 AZT, BKT, TZT     135     15501 CBR     118     15667 AZT, BKT     172       15326 AZT, BKT, TZT     135     15501 CBR     118     15667 AZT, BKT     172       15330 AZT, BKT, TZT     135     15501 CBR     118     1567 AZT, BKT     172       15330 AZT, BKT, TZT     135     15502 CBR     179     1567 AZT, BKT     177       15330 AZT, BKT     1550 CBR     179     1567 AZT, BKR     177       15340 AZT, BKT     1550 CBR     179 <t< td=""><td>15276 BK</td><td>226</td><td>15490 CBR</td><td>116</td><td>15651 AZT, BKT</td><td>172</td></t<>	15276 BK	226	15490 CBR	116	15651 AZT, BKT	172
1530 AZT, AZT6, BKT       132       1449 CBR       174       15494 AZT       112       15656 AZT, BBR, BKT       172, 226         1531 TAZ5, MST       144       15495 CBR       111       15657 AZT, BBR, BKT       172, 226         1531 AZT, MST       144       15496 CBR       119       15656 AZT, BBR, BKT       172, 226         1531 AZT, BN       134       15496 CBR       119       15656 AZT, BKR, KT       172         1531 AZT, BN       130       15498 CBR       119       15666 AZT, BKT       172         1531 AZT, BN, LKT, TZT       134       15498 CBR       119       15666 AZT, BKT       172         1532 AZT, BKT, TZT       136       1500 CBR       119       15676 BZT, BKT       172         1532 AZT, BKT, TZT       135       15501 CBR       113       15671 ST       172, 226         1532 AZT, BKT, TZT       135       15502 CBR       139       15674 BLN       175         1533 AZT, TZT       135       15502 CBR       139       15674 BLN       175         1533 AZT, TZT       135       15504 CC       139       15674 BLN       176         1533 AZT, TZT       139       15504 CC       139       15674 BLN       177         1534 AZT, BKT	15295 AZ	204	15491 CBR	117	15652 AZT, BKT	172
1530 AZT, AZT6, BKT       132       1449 CBR       174       15494 AZT       112       15656 AZT, BBR, BKT       172, 226         1531 TAZ5, MST       144       15495 CBR       111       15657 AZT, BBR, BKT       172, 226         1531 AZT, MST       144       15496 CBR       119       15656 AZT, BBR, BKT       172, 226         1531 AZT, BN       134       15496 CBR       119       15656 AZT, BKR, KT       172         1531 AZT, BN       130       15498 CBR       119       15666 AZT, BKT       172         1531 AZT, BN, LKT, TZT       134       15498 CBR       119       15666 AZT, BKT       172         1532 AZT, BKT, TZT       136       1500 CBR       119       15676 BZT, BKT       172         1532 AZT, BKT, TZT       135       15501 CBR       113       15671 ST       172, 226         1532 AZT, BKT, TZT       135       15502 CBR       139       15674 BLN       175         1533 AZT, TZT       135       15502 CBR       139       15674 BLN       175         1533 AZT, TZT       135       15504 CC       139       15674 BLN       176         1533 AZT, TZT       139       15504 CC       139       15674 BLN       177         1534 AZT, BKT	15309 AZT AZT12 BKT	103	15492 CBR	116	15653 AZT BKT	172
1533 TZG     147     1549 AZT     112     15657 AZT, BBR, BKT     172.256       1531 AZT, AZT, NST     142     1549 GCB     117     15658 AZT, BBR, BKT     172.256       1531 AZT, AZT, BKN     140     1549 GCB     118     15665 AZT, BKT     172       1531 AZT, AZT, BN     140     1549 GCB     118     15665 AZT, BKT     172       1532 AZT, SKT     137     1549 GCB     118     15666 AZT, BKT     172       1532 AZT, BKT, TZT     138     1549 GCB     119     1567 AZT, BKT     172       1532 AZT, BKT, TZT     138     1549 GCB     119     1567 AZT, BKT     172       1532 AZT, BKT, TZT     138     1550 GBR     113     1567 GBK     179       1533 ADZ     1550 CBR     113     1567 FACT, BKT     172.226       1533 ADZ     150     1550 CBR     113     1567 FACT, BKT     172.226       1533 ADKT, TZT     135     1550 CBR     129     1567 FACT, BKT     175       1533 ADKT, TZT     133     1550 CBR     129     1567 FAC     175       1534 AZT, AZT, MAT     150     1550 ABK     179     1567 FAC     177       1533 ADKT, TZT     133     1550 CBR     129     1567 FAC     177       1536 AZT, AZTA						
15314 AZT, MST       142       15498 CBR       117       15658 AZT, BBR, BKT       172, 226         15315 AZT, AZT6, BKT       134       15496 CBR       119       15659 AZT       172         15317 AZT, BN       140       15496 CBR       118       15666 AZT, BKT       172         15318 AZT       137       15498 CBR       118       15666 AZT, BKT       172         15319 AZT, BKT       137       15498 CBR       118       15666 AZT, BKT       172         15322 AZZ       146       15500 CBR       113       15666 AZT, BKT       172         1532 AZZ, BKT, TZT       138       15501 CBR       113       15670 BK       179         1532 AZZ, BKT, TZT       135       15502 CBR       133       15673 BL       172, 226         1533 AD Z       150       15503 CBR       128       15674 LIN       175         1533 AD Z       150       15504 CBR       179       15674 LIN       175         1533 AD Z       150       15503 CBR       128       15674 LIN       175         1534 AZ       1500 CBR       179       15676 FRO       175       175         15360 AZT       1500 CBR       179       15676 FRO       176       176						
15315 AZT, AZT, 6, KHT       134       15496 CBR       199       15695 AZT, 6KT       176         15317 AZT, 6, KHT       136       15665 AZT, 6KT       172         15318 AZT       1549< CBR						
15317 AZT, BN       140       15497 CBR       118         15318 AZT       137       15498 CBR       118       15666 AZT, BKT       172         15319 PZ       148       15600 CBR       119       15666 AZT, BKT       172         15322 AZZ, BKT, TZT       133       15501 CBR       113       15670 BK       179         15326 AZT, BKT, TZT       133       15501 CBR       113       15670 BK       179         15328 AZT, BKT, TZT       135       15502 CBR       199       15670 BK       175         15330 OZ       1500       15502 CBR       128       15673 BL       175         15334 OB       145       15503 BK       179       15676 FRO       175         15336 DKT, TZT       130       15504 BK       179       15676 FRO       175         15360 AZT       15504 BK       179       15676 FRO       176         15360 AZT, BKT       15505 CO       130       15670 FRO       176         15360 AZT, BKT       15505 CBK       179       15678 BK       177         15360 AZT, BKT, AZT20, AZ						
15318 AZT     137     15498 CBR     118     15666 AZT, BKT     172       15329 AZT     148     15499 CBR     119     15667 AZT, BKT     172       15322 AZT, BKT, TZT     133     15501 CBR     113     15670 BK     179       15328 AZT, BKT, TZT     135     15501 CBR     113     15671 ST     172, 226       15328 AZT, BKT, TZT     135     15501 CBR     113     15672 FRO     175       15328 AZT     135     15502 CBR     128     15673 BL     175       15334 OB     145     15503 BK     179     15674 LIN     175       15348 BKT, TZT     133     15503 CBR     128     15675 FRO     175       15340 BST, TZT     133     15504 CBR     128     15676 FRO     175       15340 AZT     137     15504 CBR     129     15676 LIN     175       15340 AZT, BKT     140     15505 BK     179     15670 BK     177       15361 AZT, AZTOL, AZTOLA, ZATOL, AZTOLA, ALTOL, ALTOLA, ALT	15315 AZT, AZT6, BKT	134	15496 CBR	119	15659 AZT	176
15319 PZ     148     15499 CBR     119     15667 AZT, BKT     172       15322 AGZ     146     15500 CBR     113     15668 AZT     227       15323 AZT, BKT     133     15501 BK     179     15670 DK     179       15326 AZT, BKT     135     15501 CBR     113     15671 ST     122       15328 AZT     155     15502 CBR     128     15673 BL     175       15330 OZ     150     15502 CBR     128     15673 BL     175       15330 OZ     150     15502 CBR     128     15674 LN     175       15330 OZ     150     15502 CBR     128     15674 LN     175       15330 OZ     1500 CBR     128     15677 LN     175       15330 OZ     1500 CBR     128     15675 LN     175       15330 CO     137     15504 CO     129     15677 CLR     176       15300 CO     137     15504 CO     129     15677 CLR     176       15360 AZT     140     15505 BK     177     1567 BK     177       15361 AZT, AZT20L, AZ	15317 AZT, BN	140	15497 CBR	118	15665 AZT, BKT	172
15322 AGZ       146       15500 CBR       113       15668 AZT       227         15323 AZT, BKT, TZT       133       15501 CBR       179       15670 BK       179         15326 AZT, BKT, TZT       135       15501 CBR       113       15670 BK       179         15326 AZT, BKT       135       15501 CBR       113       15672 FRO       175         15330 OZ       150       15502 CBR       128       15673 BL       175         15334 OB       145       15503 CBR       128       15674 LIN       175         1534 BKT, TZT       133       15503 CBR       128       15675 LIN       175         1534 BKT, TZT       133       15504 CBR       179       15676 FRO       175         1534 BKT, TZT       133       15504 CBR       179       15676 FRO       176         15350 CO       137       15504 CBR       179       15676 FRO       177         15360 AZT       100       15505 CD       130       15677 CLR       176         15367 TZT       101       15505 CD       130       15687 BL       177         1537 OZ       15       15507 CBR       129       15688 AZ       227         15370 CL, BKT, DL, BKT, DL,	15318 AZT	137	15498 CBR	118	15666 AZT, BKT	172
15323 AZT, BKT, TZT       133       15501 BK       179       15670 BK       179         15326 AZT, BKT       135       15501 CBR       113       15671 ST       172, 226         15328 AZT       1550       15502 CBR       179       15672 FRO       175         15330 OZ       150       15502 CBR       128       15673 BL       175         15334 OB       155       15503 BK       179       15674 LN       175         15340 BKT, TZT       133       15504 CBR       128       15675 LN       175         15340 MST       150       15504 CBR       128       15676 FRO       175         15360 AZT       150       15504 CBR       129       15677 CLR       176         15360 AZT       140       15505 BK       179       15678 BK       177         15360 AZT       140       15506 CBR       179       15680 BK       177         15360 AZT       140       15506 CBR       129       15680 BK       177         15360 AZT       151       15506 CBR       129       15680 BK       177         15360 AZT       151       15507 CBR       129       15680 BK       177         15370 AZT       151       <	15319 PZ	148	15499 CBR	119	15667 AZT, BKT	172
15323 AZT, BKT, TZT       133       15501 BK       179       15670 BK       179         15326 AZT, BKT       135       15500 CBR       113       15671 ST       172, 226         15328 AZT       1550       15502 BK       179       15672 FRO       175         15330 OZ       150       15502 CBR       128       15673 FL       175         15334 OB       155       15503 BK       179       15674 LN       175         15336 BKT, TZT       133       15504 CBR       128       15675 LN       175         1534 OB       1550       15504 CBR       128       15676 KO       175         15360 AZT       150       15504 CBR       129       15676 FRO       175         15360 AZT       140       15505 BK       179       15678 BK       177         15360 AZT       140       15506 CBR       179       15680 BK       177         15360 AZT       150       15506 CBR       129       15688 BK       177         15360 AZT       150       15506 CBR       129       15687 BL       177         15360 AZT       150       15507 CBR       129       15688 BK       177         15370 AZT       151	15322 AGZ	146	15500 CBR	113	15668 AZT	227
15326 AZT, BKT       135       15501 CBR       113       15671 ST       172, 226         15328 AZT       135       15502 BK       179       15672 FRO       175         15330 OZ       150       15502 CBR       128       15673 BL       175         15334 OB       145       15503 BK       179       15674 LIN       175         15349 MST       150       15504 BK       179       15675 LIN       175         15350 CO       137       15504 BK       179       15676 FRO       175         15360 AZT       137       15504 CO       129       15677 CLR       176         15360 AZT       140       15505 CO       130       15608 DK       177         15360 AZT       140       15505 CO       130       15608 DK       177         15367 AZT, BKT       104       15505 CO       130       15608 DK       177         15367 AZT, AZT 20 L, AZT 2	15323 AZT. BKT. TZT					
15328 AZT       135       1550 BK       179       15672 FRO       175         15330 OZ       150       15502 CBR       128       15673 BL       175         15334 OB       145       15503 BK       179       15674 LIN       175         15336 DKT, TZT       133       15503 CBR       128       15675 LIN       175         15349 MST       130       15503 CBR       128       15676 FRO       175         15349 MST       150       15504 CO       129       15676 FRO       176         15360 AZT       140       15505 BK       179       15676 FRO       177         15361 AZT, BKT       110       15505 CO       130       15680 BK       177         15367 TZT       144       15506 CBR       179       15680 BK       177         15367 DZT       151       15506 CBR       129       15677 BL       177         1537 0Z       144       15506 CBR       129       15687 BL       177         1537 0Z       142       15507 ONG       15697 BL       177       15687 BL       177         1538 AZT, AZT6, BBR, BKT       106       15509 BK       179       15690 BK       177         15384 AZT, AZT24, BKT,						
15330 OZ       150       1502 CBR       128       15673 BL       175         15334 OB       145       15503 BK       179       15674 LIN       175         15335 BKT, TZT       133       15503 CBR       128       15675 LIN       175         15349 MST       1500       1504 BK       179       15676 FRO       175         15350 CO       137       15504 CC       129       15677 CLR       176         15360 AZT       140       15505 CO       130       15680 BK       177         15367 TZT       140       15505 CO       130       15660 BK       177         15367 TZT       140       15506 CBR       129       15680 BK       177         15367 TZT       144       15506 CBR       129       15680 BK       177         15367 TZT       144       15506 CBR       129       15680 BK       177         15367 AZT, AZT20L24, BKT, BKT, AZT20L24, BKT, BKT, CD       144       15508 CBR       179       15680 BL       175         15379 OZ       142       15508 CBR       179       15680 BL       175         15381 AZT, AZT24, BKT, BKT24, CBR, CO       107       15509 CBR       179       15690 BK       175						
15334 OB       145       15503 BK       179       15674 LIN       175         15336 BKT, TZT       133       15503 CBR       128       15675 LIN       175         15349 MST       150       15504 BK       179       15676 FRO       175         15350 CO       137       15504 CO       129       15677 CLR       176         15360 AZT       140       15505 BK       179       15679 BK       177         15361 AZT, BKT       110       15506 BK       179       15680 BK       177         15367 TZT       144       15506 BK       179       15680 BK       177         15367 TZT       144       15506 CBR       129       15680 BK       177         15367 TZT       151       15506 CBR       129       15680 BL       175         15367 TZT       151       15506 CBR       129       15680 BL       175         15374 AZT, AZT20L, AZT20L, ABKT, BKT20L, BKT20L24       104       15507 CBR       120       15680 BL       175         15387 AZT       104       15507 CBR       15507 CBR       120       15680 BL       176         15384 AZT, AZT24, BKT, BKT24, CBR, CO       100       15500 CBR       174       15690 BK       177<						
15336 BKT, TZT       133       15503 CBR       128       15675 LIN       175         15349 MST       150       1504 BK       179       15676 FRO       175         15350 CO       137       1504 CO       129       15677 CLR       176         15360 AZT       140       1505 BK       179       15679 BK       177         15361 AZT, BKT       110       1505 CO       130       15680 BK       177         15367 TZT       140       1506 CBR       130       15680 BK       177         15367 TZT       141       1506 CBR       129       15680 BK       177         15367 TZT       151       1506 CBR       129       15686 BL       177         15374 AZT, AZT20L, AZT20L24, BKT, BKT20L, BKT20L24       104       15507 CBR       120       15687 BL       176         15374 AZT, AZT6, BBR, BKT       104       15508 CBR       120       15689 BK       176         15384 AZT, AZT6, BBR, BKT       107       15690 CBR       179       15680 BL       177         15384 AZT, AZT24, BKT, BKT24, CBR, CO       100       15501 CBR       179       15690 BK       177         15385 AZT       107       15501 CBR       174       15693 BL       1						
15349 MST       150       15504 BK       179       15676 FRO       175         15350 CO       137       15504 CO       129       15677 CLR       176         15360 AZT       140       15505 BK       179       15679 BK       177         15361 AZT, BKT       110       15505 CO       130       15680 BK       177         15367 TZT       144       15505 CBR       179       15680 BK       177         15367 TZT       144       15506 CBR       179       15680 BK       177         15367 TZT       151       15506 CBR       129       15686 BL       175         15374 AZT, AZT20L, AZT20L4, BKT, BKT20L2, BKT20L24       104       15507 CDR       120       15687 BL       175         15379 OZ       142       15507 CDR       179       15680 BK       179       15688 AZ       227         15381 AZT, AZT6, BBR, BKT       106       15509 CBR       170       15690 BK       177         15383 AZT       107       15500 CBR       179       15690 BK       177         15385 AZT       109       15510 CBR       174       15693 BL       177         15380 AZT       109       15511 CBR       174       15693 BL       17	15334 OB	145	15503 BK	179	15674 LIN	175
15350 CO       137       15504 CO       129       15677 CLR       176         15360 AZT       140       15505 BK       179       15679 BK       177         15361 AZT, BKT       110       15505 CO       130       15680 BK       177         15367 TZT       144       15505 CBR       179       15683 BK       177         15369 TZT       151       15506 CBR       129       15686 BL       175         15374 AZT, AZT20L, AZT20L24, BKT, BKT20L, BKT20L24       104       15507 CBR       129       15687 BL       175         15379 OZ       142       15507 CBR       120       15688 AZ       227         15381 AZT, AZT6, BBR, BKT       106       15509 CBR       176       15699 BK       176         15383 AZT       107       15509 CBR       179       15698 BK       176         15384 AZT, AZT24, BKT, BKT24, CBR, CO       100       15509 CBR       177       15693 BL       177         15385 AZT       109       15510 CBR       174       15693 BL       176         15390 AZT       109       15510 CBR       174       15693 BL       175         15391 OZ       148       15511 CBR       174       15693 CLR       177 <td>15336 BKT, TZT</td> <td>133</td> <td>15503 CBR</td> <td>128</td> <td>15675 LIN</td> <td>175</td>	15336 BKT, TZT	133	15503 CBR	128	15675 LIN	175
15360 AZT       140       15505 BK       179       15679 BK       177         15361 AZT, BKT       110       15505 CO       130       1680 BK       177         15367 TZT       144       15506 BK       179       15683 BK       177         15369 TZT       151       15506 CBR       129       15686 BL       175         15367 ZZT, AZT20L24, BKT, BKT20L, BKT20L24, BKT, BKT20L, BKT20L24       165       15507 CBR       129       15687 BL       175         15379 OZ       142       15507 CBR       120       15688 AZ       227         15379 OZ       142       15508 CBR       179       15688 BK       176         15381 AZT, AZT6, BBR, BKT       106       15509 BK       179       15690 BK       176         15383 AZT       107       15509 CBR       179       15690 BK       177         15385 AZT       107       15500 CBR       174       15693 BL       176         15390 AZT       108       1551 CBR       174       15693 BL       176         15391 OZ       148       1551 CBR       174       15693 CLR       177         15391 OZ       148       15512 CBR       174       15695 CLR       176         <	15349 MST	150	15504 BK	179	15676 FRO	175
15361 AZT, BKT       110       15505 CO       130       1680 BK       177         15367 TZT       144       15506 BK       179       1683 BK       177         15369 TZT       151       15506 CBR       129       1686 BL       175         15374 AZT, AZT20L24, BKT, BKT20L2, BKT20L24       167       15507 CBR       120       15687 BL       175         15379 OZ       142       15507 CBR       120       15688 AZ       227         15379 OZ       142       15508 CBR       179       15688 BK       176         15381 AZT, AZT6, BBR, BKT       106       15509 DK       179       15690 BK       176         15383 AZT       107       15509 CBR       1590 CBR       179       15690 BK       176         15385 AZT       107       15509 CBR       174       15693 BL       176         15385 AZT       109       15511 CBR       174       15693 AL       176         15390 AZT       108       15512 CBR       174       15695 CLR       176         15391 OZ       148       15512 CBR       174       15695 CLR       176         15391 OZ       148       15512 CBR       174       15695 CLR       176   <	15350 CO	137	15504 CO	129	15677 CLR	176
15361 AZT, BKT       110       15505 CO       130       1680 BK       177         15367 TZT       144       15506 BK       179       1683 BK       177         15369 TZT       151       15506 CBR       129       1686 BL       175         15374 AZT, AZT20L24, BKT, BKT20L2, BKT20L24       167       15507 CBR       120       15687 BL       175         15379 OZ       142       15507 CBR       120       15688 AZ       227         15379 OZ       142       15508 CBR       179       15688 BK       176         15381 AZT, AZT6, BBR, BKT       106       15509 DK       179       15690 BK       176         15383 AZT       107       15509 CBR       1590 CBR       179       15690 BK       176         15385 AZT       107       15509 CBR       174       15693 BL       176         15385 AZT       109       15511 CBR       174       15693 AL       176         15390 AZT       108       15512 CBR       174       15695 CLR       176         15391 OZ       148       15512 CBR       174       15695 CLR       176         15391 OZ       148       15512 CBR       174       15695 CLR       176   <	15360 AZT	140	15505 BK	179	15679 BK	177
15367 TZT       144       15506 BK       179       1688 BK       177         15369 TZT       151       15506 CBR       129       1686 BL       175         15374 AZT, AZT20L24, BKT, BKT20L2, BKT20L24       104       15507 CBR       120       15687 BL       175         15379 OZ       142       15507 CBR       107       15688 AZ       227         15381 AZT, AZT6, BBR, BKT       106       15509 BK       179       15690 BK       176         15383 AZT       107       15509 CBR       15509 CBR       16690 BK       177         15384 AZT, AZT24, BKT, BKT24, CBR, CO       100       15509 CBR       174       15690 BK       175         15385 AZT       109       15510 CBR       174       15693 BL       175         15390 AZT       108       15511 CBR       174       15695 CLR       176         15391 OZ       148       15512 CBR       174       15695 CLR       176         15302 CBR       174       15695 CLR       176       176         15391 OZ       148       15512 CBR       174       15695 CLR       176         15302 CBR       176       15691 BK       176       176       176         15391 OZ						
15369 TZT       151       15506 CBR       129       15686 BL       175         15374 AZT, AZT20L24, BKT, BKT20L2, BKT20L24       104       15507 CBR       120       15687 BL       175         15379 OZ       142       15507 ONG       179       15688 AZ       227         15381 AZT, AZT6, BBR, BKT       106       15509 BK       170       15690 BK       176         15383 AZT       107       15509 CBR       15509 CBR       179       15690 BK       177         15384 AZT, AZT24, BKT, BKT24, CBR, CO       100       15509 CBR       174       15693 BL       175         15385 AZT       109       15510 CBR       174       15693 BL       175         15390 AZT       108       15511 CBR       174       15695 CLR       176         15391 OZ       148       15512 CBR       174       15695 CLR       176         15391 OZ       148       15512 CBR       174       15711 SS, SS27, SS42       40, 222						
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