

Project name:		
Fixture type:		
Date:		

# 1" Round Recessed Oak™ Downlight

Small aperture 12V AC Downlight delivers over 600 lumens. More than a traditional 50W MR16 Halogen Lamp. Requires 12V AC Transformer (daisy chain up to 6). Dimmable ELV, MLV or 0-10V depending on transformer used.



### **Features**

- Requires 12V AC transformer. Dimmable ELV, MLV or 0-10V depending on transformer used.
- IC Airtight for use with direct contact to insulation
- Height allows for use in ceilings with under 3" depth.
   Ceiling thickness can be reduced from fixture depth.
- Daisy chain up to 6 fixtures with E1LDRV60
- 38° Standard beam with optional 28° and 50°
- Remodel requires no frame. New construction E1LF1 frame available.
- Wet Location Rated for Indoor and Outdoor Use
- JA8-2016-E & UL listed.
- Life Span 50,000 Hours L70

### **Specifications**

Wattage	6.1W
Lumens	450 lm
Voltage	12V AC
Color Temp.	SunsetK
Dimmable	Yes
Lamp Type	LED
Beam Angle	38°
CRI	93+
Wet Location	UL Listed

# Technical Details

**Optics**: PC Lens for even lumen distribution. Standard 38° lens. Optional 28° (EP713C) and 50° (EP715C) available

**Construction**: Diecast construction for lasting quality and greater heat dissipation. High quality powder coat finish prevents rust and paint cracking.

**Installation:** Requires 12V AC transformer. Can be installed on E1LF1 new construction frame. Remodel requires no frame. Hole cutout size: 2" (50 mm). Height allows for use in ceilings with under 3" depth. Ceiling thickness can be reduced from fixture depth.

**LED Technology:** Extremely accurate color rendering with 93+ CRI. Efficacy of up to 110 lumens per watt. Lumen Maintenance of 50,000 hours L70 based on LM80. Superior Thermal Management by utilizing diecast aluminum body as heat sink.

**Electrical:** Requires 12V AC transformer. Can be daisy chained up to 6 fixtures with E1LDRV60 or can be wired 1 fixture per transformer.

#### **Delivered Lumens:**

**E1L02F27** 600 lm/2700K **E1L02F30** 625 lm/3000K **E1L02F35** 650 lm/3500K **E1L02F40** 675 lm/4000K **E1L02FSD** 450 lm/Sunset

**Dimming:** Dims with MLV dimmers when powered by dimmable magnetic 12V AC transformer. Works with ELV dimmers when powered by dimmable electronic 12V AC transformer. Dims with 0-10V systems with 0-10V dimmable 12V AC transformer. Check transformer and dimmer compatibility before installation .

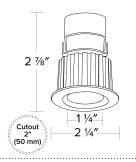
**Listings**: cUL Listed. UL Listed for WET Location. UL Listed for direct contact with insulation. Airtight per ASTM E-283. California Title 24 (JA8-2016-E).

Warranty: ELCO Products are built to last with a 5-year Limited warranty.

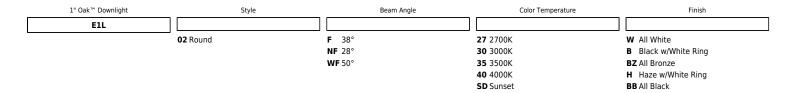
### **Options**



### **Dimensions**



# Product Number Builder Example: E1L02F27W



Distance from Transformer to 1st Fixture	#12 Gauge  Number of Fixtures				#12 Gauge #14 Gauge  ormer  Number of Fixtures Number of Fixtures			#18 Gauge  Number of Fixtures										
13t Tixture	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
1'	12.0	11.9	11.6	11.5	11.1	10.8	12.0	11.9	11.6	11.5	10.9	10.7	11.9	11.8	11.3	11.1	9.9	9.6
2'	11.9	11.9	11.6	11.4	10.8	10.7	11.9	11.8	11.5	11.3	10.7	10.5	11.9	11.6	11.1	10.9	9.7	9.1
4'	11.9	11.8	11.5	11.3	10.6	10.4	11.9	11.8	11.4	11.2	10.2	10.2	11.8	11.5	11.0	10.8	9.5	8.7
6'	11.9	11.8	11.4	11.3	10.5	10.3	11.9	11.7	11.3	11.2	10.3	10.0	11.7	11.3	10.8	10.5	9.3	8.2
8'	11.8	11.7	11.3	11.1	10.3	9.9	11.7	11.6	11.5	10.9	9.8	9.5	11.5	11.2	10.4	9.8	8.6	7.4
10'	11.7	11.6	11.2	10.9	10.1	9.4	11.7	11.6	11.1	10.9	9.7	9.2	11.4	11.0	10.4	9.3	8.1	6.9
16'	11.7	11.7	11.3	10.7	9.9	8.9	11.5	11.4	10.9	10.2	9.0	8.2	11.3	10.9	10.1	8.8	7.6	6.6
20'	11.4	11.3	10.9	10.1	9.2	8.2	11.5	11.3	10.8	9.9	8.6	7.6	10.8	10.0	8.5	7.1	5.9	4.4

### Notes:

- 1. Max 6 fixtures.
- 2. For this analysis, 3' of wire was used between fixtures.
- 3. There will be an additional drop of ~1V if a dimmer is used.
- 4. Recommended maximum voltage drop is to 10.5V.

# **Compatible** Products



For use with 1" Oak™ Light Engines

## 1" Oak™ New Construction IC Frames



IC Rated Frame\*
New Construction



C	Rated	Multiple Frame*
	New (	Construction

CAT NO.	SPECIFICATIONS	CAT NO.	SPECIFICATIONS
E1LF1	2" Cutout for E1L02, E1L12, E111F	E1LF1-M2	2 Set for E1L02, E1L12, E111F
		E1LF1-M3	3 Set for E1L02, E1L12, E111F
		E1LF1-M4	4 Set for E1L02, E1L12, E111F
		E1LF1-M5	5 Set for E1L02, E1L12, E111F

<sup>\*</sup>Requires 12V AC transformer (not included)

# 1" Oak™New Construction IC Rated



Specialty R-60

1" IC Housing - Includes transformer

New Construction

CAT NO.	SPECIFICATIONS
E1LF1ICAJ	2" Cutout for E1L02, E1L12, E111F

PRODUCT NUMBER BUILDER						
	1" Oak™ IC Rated Housing			Dimming		
E1LF1ICAJ	R60 IC New Construction Housing		(blank)	120V Input, ELV Dimmable		
			-7	277V Input, Non-Dimmable		
			DX	120V Input, 0-10V Dimmable		
			DX-7	277V Input, 0-10V Dimmable		

# **Compatible** Products



For use with 1" Oak™ Light Engines

# 1" Oak™ 12V AC Transformers



Enclosed Electronic Transformer

CAT NO.	SPECIFICATIONS
E1LDRV60	ELV Dimmable



**Electronic Transformer** 

CAT NO.	SPECIFICATIONS
LET-60	120V Input
LET-60H	120V Input, Hatch
LET-60-277	277 Input



0-10V Dimmable Electronic Transformer

CAT NO.	SPECIFICATIONS
LET-60DX	120V Input
LET-60DX-277	277V Input



Magnetic Transformer

CAT NO.	SPECIFICATIONS
ETR12	50W, Daisy Chain 2-6
ETR12-20	20W, Daisy Chain 1-3

# 1" Oak™ Accessories



Downlight Trims For E1L02 & E1L12

CAT NO.	SPECIFICATIONS
RM1W	All White
RM1B	Black w/ White Ring
RM1BZ	All Bronze
RM1H	Haze w/ White Ring
RM1BB	All Black



Downlight Trims For E1L02 & E1L12

	CAT NO.	SPECIFICATIONS
	RM11W	All White
	RM11B	Black w/ White Ring
	RM11BZ	All Bronze
	RM11H	Haze w/ White Ring
	RM11BB	All Black



Optional Lenses for E1L02, E1L12, & E1L32

CAT NO.	SPECIFICATIONS
EP713C	28°
EP715C	50°

# Photometric Report

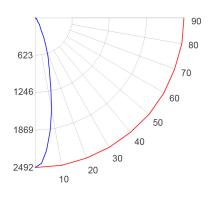
### Oak™ LED Light Engine

#### PHOTOMETRIC REPORT **CANDLE POWER SUMMARY ILLUMINANCE AT A DISTANCE** Product #: E1L02F30 Degress Vertical 0° Distance to Target Plane Center Beam Footcandles Beam Diameter Wattage / Lumens: 6W / 600 lm Luminaire LPW: 100 lm/W 1315 113 1272 6' 40.0 4.2' 15 884 8' 20.5 5.6' 25 382 10' 14.1 6.9' 35 106 **ZONAL LUMEN SUMMARY** 45 33 %Luminaire Zone Lumens 55 14 65 8 532.8 0-30° 81.2 75 4 0-40° 603.4 91.9 85 0-60° 642.9 98 90 0 0-90° 100 656.4

# 1" Round Recessed Downlight

### PHOTOMETRIC REPORT

Product #: E1L02NF30 Wattage/Lumens: 6.3W/ 642 lm Luminaire LPW: 101 Lm/W



### **CANDLE POWER SUMMARY**

Degrees Vertical	0°	
0	2492	
5	2207	
15	922	
25	257	
35	62	
45	19	
55	7	
65	4	
75	2	
85	0	
90	0	

### **ILLUMINANCE AT A DISTANCE**

Distance to Target Plane	Footcandles Beam Center	Beam Diameter
4'	156	1.7'
6'	69.2	2.6'
8'	38.9	3.5'
10'	24.9	4.4'

### **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
0-30°	570.33	88.90
0-40°	612.62	95.50
0-60°	634.75	98.9
0-90°	641.58	100.00