

# 1" Square Recessed Oak™ Pull Down

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 for use with direct contact to insulation
- Height allows for use in ceilings with under 4" depth. Ceiling thickness can be reduced from fixture depth.
- Daisy chain up to 6 fixtures with E1LDRV60
- 28°, 38° and 50° beam options, not recommended for in field changes.
- Remodel requires no frame. New construction E1LF2 frame available.
- UL Damp Location Rated
- UL Listed, Meets California Title 24 JA8-2016-E and Energy Star standards.
- Life Span 50,000 Hours L70

## Specifications

<b>Wattage</b>	6W
<b>Lumens</b>	650 lm
<b>Voltage</b>	12V AC
<b>Color Temp.</b>	3000K
<b>Dimmable</b>	Yes
<b>Lamp Type</b>	LED
<b>Beam Angle</b>	28°

## Options



White



Black



Bronze

## Technical Details

**Optics:** PC Lens for even lumen distribution. 28°, 38° and 50° beam options, not recommended for in field changes.

**Adjustability:** 360° rotation with 30° gimbal adjustability. Gimbal can be locked into place by tightening locking screw.

**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 E1LF2 new construction frame. Remodel requires no frame. Hole cutout size: 2 3/8" (61 mm). Height allows for use in ceilings with under 4" 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.

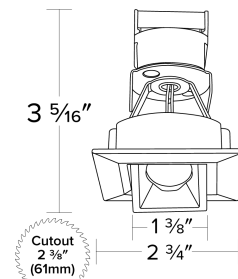
### Delivered Lumens:

**E1L22F27** 625 lm/2700K **E1L22F30** 650 lm/3000K **E1L22F35** 675 lm/3500K **E1L22F40** 700 lm/4000K

**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 DAMP Location. UL Listed for direct contact with insulation. Meets California Title 24 JA8-2016-E and Energy Star standards.

## Dimensions



## Product Number

Item	Lamp type	Lumens	CCT	Watts	Voltage	Dimming	Beam Angle	Finish
<b>E1L22NF30BZ</b>	LED	650 lm	3000K	6W	12V AC	Yes	28°	All Bronze

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

## Product Number Builder Example: E1L22F27W

Trim	Style	Beam Angle	Color Temperature	Finish
<b>E1L</b>	22 Square	<b>F</b> 38° <b>NF</b> 28° <b>WF</b> 50°	<b>27</b> 2700K <b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K	<b>W</b> All White <b>BZ</b> All Bronze <b>BB</b> All Black

Distance from Transformer to 1st Fixture	#12 Gauge						#14 Gauge						#18 Gauge					
	Number of Fixtures						Number of Fixtures						Number of Fixtures					
	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™ Adjustable Light Engines

## 1" Oak™ New Construction IC Frames



IC Rated Frame\*  
New Construction



IC Rated Multiple Frame\*  
New Construction

CAT NO.	SPECIFICATIONS
E1LF2	2 3/8" Cutout for E1L32 and E1I22

CAT NO.	SPECIFICATIONS
E1LF2-M2	2 Set for E1L32 and E1I22
E1LF2-M3	3 Set for E1L32 and E1I22
E1LF2-M4	4 Set for E1L32 and E1I22
E1LF2-M5	5 Set for E1L32 and E1I22

\*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
E1LF2ICAJ	2 3/8" Cutout for E1L32 and E1I22

### PRODUCT NUMBER BUILDER

#### 1" Oak™ IC Rated Housing

<b>E1LF2ICAJ</b>	R60 IC New Construction Housing
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#### Dimming

<b>(blank)</b>	120V Input, ELV Dimmable
<b>-7</b>	277V Input, Non-Dimmable
<b>DX</b>	120V Input, 0-10V Dimmable
<b>DX-7</b>	277V Input, 0-10V Dimmable

# Compatible Products

For use with 1" Oak™ Light Engines



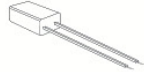
## 1" Oak™ 12V AC Transformers

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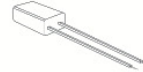
**Enclosed Electronic Transformer**

CAT NO.	SPECIFICATIONS
E1LDRV60	ELV Dimmable



**Electronic Transformer**

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

# Photometric Report

## Oak™ LED Light Engine

### PHOTOMETRIC REPORT

Product #: E1L22F30  
 Wattage / Lumens: 6.4W / 600 lm  
 Luminaire LPW: 93.7 lm/W



### CANDLE POWER SUMMARY

Degree Vertical	0°
0	1302
5	1259
15	869
25	368
35	108
45	39
55	13
65	6
75	3
85	0
90	0

### ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	81.4	2.8'
6'	36.2	4.2'
8'	20.3	5.6'
10'	13.0	7.0'

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	529.5	88.3
0-40°	608.0	91.7
0-60°	653.2	98.5
0-90°	663.2	100