

# 1" Round Recessed Adjustable Oak™ Gimbal

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
- 38° Standard beam with optional 28° and 50°
- 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>     | 6.1W   |
| <b>Lumens</b>      | 675 lm |
| <b>Voltage</b>     | 12V AC |
| <b>Color Temp.</b> | 3500K  |
| <b>Dimmable</b>    | Yes    |
| <b>Lamp Type</b>   | LED    |
| <b>Beam Angle</b>  | 38°    |

## Options



White

Bronze

Black

## Technical Details

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

**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.

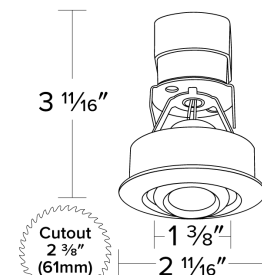
### Delivered Lumens:

**E1L32F27** 625 lm/2700K **E1L32F30** 650 lm/3000K **E1L32F35** 675 lm/3500K **E1L32F40** 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

## Dimensions



## Product Number

| Item             | Lamp type | Lumens | CCT   | Watts | Voltage | Dimming | Beam Angle | Finish |
|------------------|-----------|--------|-------|-------|---------|---------|------------|--------|
| <b>E1L32F35B</b> | LED       | 675 lm | 3500K | 6.1W  | 12V AC  | Yes     | 38°        | Black  |

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

## Product Number Builder Example: E1L32F27W

|            |          |  |  |  |
|------------|----------|--|--|--|
| Trim       | Style    | Beam Angle                                     | Color Temperature  | Finish   |
| <b>E1L</b> | 32 Round | <b>F</b> 38°<br><b>NF</b> 28°<br><b>WF</b> 50° | <b>27</b> 2700K<br><b>30</b> 3000K<br><b>35</b> 3500K<br><b>40</b> 4000K | <b>W</b> White<br><b>BZ</b> Bronze<br><b>B</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



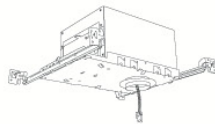
IC Rated Multiple Frame\*  
New Construction

| 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 |
|------------------|---------------------------------|

#### 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

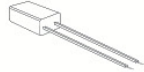
For use with 1" Oak™ Light Engines



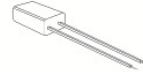
## 1" Oak™ 12V AC Transformers



**Enclosed Electronic Transformer**



**Electronic Transformer**



**0-10V Dimmable Electronic Transformer**



**Magnetic Transformer**

| CAT NO.  | SPECIFICATIONS | CAT NO.    | SPECIFICATIONS    | CAT NO.      | SPECIFICATIONS | CAT NO.  | SPECIFICATIONS       |
|----------|----------------|------------|-------------------|--------------|----------------|----------|----------------------|
| E1LDRV60 | ELV Dimmable   | LET-60     | 120V Input        | LET-60DX     | 120V Input     | ETR12    | 50W, Daisy Chain 2-6 |
|          |                | LET-60H    | 120V Input, Hatch | LET-60DX-277 | 277V Input     | ETR12-20 | 20W, Daisy Chain 1-3 |
|          |                | LET-60-277 | 277 Input         |              |                |          |                      |

## 1" Oak™ Accessories



Optional Lenses for EIL02, EIL12, & EIL32

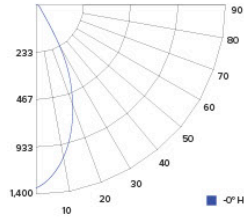
| CAT NO. | SPECIFICATIONS |
|---------|----------------|
| EP713C  | 28°            |
| EP715C  | 50°            |

# Photometric Report

## Oak™ LED Light Engine

### PHOTOMETRIC REPORT

Product #: E1L32F30  
 Wattage / Lumens: 6.2W / 600 lm  
 Luminaire LPW: 96 lm/W



### CANDLE POWER SUMMARY

| Degree Vertical | 0°   |
|-----------------|------|
| 0               | 1319 |
| 5               | 1276 |
| 15              | 887  |
| 25              | 383  |
| 35              | 106  |
| 45              | 33   |
| 55              | 14   |
| 65              | 8    |
| 75              | 4    |
| 85              | 1    |
| 90              | 0    |

### ILLUMINANCE AT A DISTANCE

| Distance to Target Plane | Center Beam Footcandles | Beam Diameter |
|--------------------------|-------------------------|---------------|
| 4'                       | 82.4                    | 2.8'          |
| 6'                       | 36.6                    | 4.2'          |
| 8'                       | 20.6                    | 5.6'          |
| 10'                      | 13.2                    | 6.9'          |

### ZONAL LUMEN SUMMARY

| Zone  | Lumens | %Luminaire |
|-------|--------|------------|
| 0-30° | 534.4  | 81.2       |
| 0-40° | 605.2  | 91.9       |
| 0-60° | 644.9  | 98         |
| 0-90° | 658.4  | 100        |