

Project name:

Fixture type:

Date:

# 1″ Square Recessed Architectural Oak™ Downlight

Small aperture downlight delivers up to 1000 lumens. More than a traditional 50W MR16 halogen lamp. Style options, beam options and color finish options offer maximum flexibility in design. Drivers and housings are specified separately for maximum flexibility per your project's needs. The patented engine offers auto-release clips that make installation a breeze.



#### Features

- IC Airtight for use with Direct Contact to insulation
- Works with compatible ceilings up to 1<sup>1</sup>/<sub>4</sub>"
- Height allows for use in ceilings with under 2" depth.
- Ceiling thickness can be reduced from fixture depth. • Remodel requires no frame. New construction E1LDWN1 frame available
- 38° Standard beam with optional 28° and 50°
- Wet Location Rated for Indoor and Outdoor Use
- JA8-2022-E, UL Listed, and Energy Star Qualified
- Life Span 50,000 Hours L70

#### **Technical Details**

**Optics**: PC Lens for even light 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:** Hole cutout size: 2" (50 mm). Oak™ LED Light engines require driver. Can be utilized in new construction and remodel applications.

**LED Technology:** Extremely accurate color rendering with 93+ CRI. Efficacy of up to 104 lumens per watt. Lumen Maintenance of 50,000 hours L70 based on LM80. Superior Thermal Management by utilizing diecast aluminum body as heat sink.

**Sunset:** Sunset color temperature is our dim-to-warm LED technology that allows the color temperature to become warmer as the product is dimmed. Our SUNSET items start at 2700K and go as low as 1800K when dimmed. For Sunset dim technology be sure to order an item with "Sunset" in the Color Temperature (CCT) attribute.

**Electrical:** Requires driver. Driver and housing can be specified with voltage (120V or 120/277V) and dimming (ELV/Triac or 0-10V/Triac/ELV)

**Compatible Housings/Delivered Lumens: Architectural Oak**<sup>™</sup> Light Engines are compatible with 120/277V 0-10V/Triac/ELV or 120V Triac/ELV Architectural Oak<sup>™</sup> Housings.

• Delivered Lumens: 2700K: 850 lm, 3000K: 900 lm, 3500K: 950 lm, 4000K: 1000 lm, Sunset: 850 lm

Dimming: See Oak<sup>™</sup> Housings and drivers for specific dimming information.

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

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

#### Specifications

Wattage	8W
Lumens	850 lm
Color Temp.	2700К
Lamp Type	LED
Beam Angle	28°
CRI	93+
Wet Location	Listed

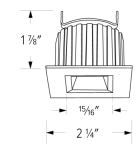
#### Options



Black with White H Trim

te Haze with White Trim

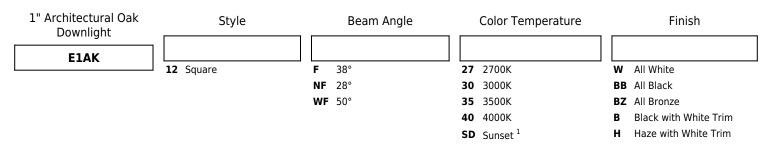
#### Dimensions



#### **Aperture Dimensions**



## Product Number Builder Example: E1AK12F27B



<sup>1</sup> Sunset, Dim to Warm technology, automatically transitions from 2700K to 1800K when dimmed

# **Compatible** Products



For use with 1" Oak™ Architectural Recessed Downlights

## 1" Oak<sup>™</sup> New Construction Housings, Frames & Power Packs

CAT NO.

E1DWN08IC



R-60 IC Airtight Housing - Driver Included -New Construction

# CAT NO. SPECIFICATIONS E1DWN08AJIC 120V, Triac/ELV E1DWN08AJICDX 120/277V, 0-10V/Triac/ELV



IC Rated Frame - Driver Included -New Construction

E1DWN08ICDX 120/277V, 0-10V/Triac/ELV

SPECIFICATIONS

120V, Triac/ELV



IC Rated Power Pack - Fits through 2″ hole -Remodel

CAT NO.	SPECIFICATIONS
E1LA08RIC	120V, Triac/ELV
E1LA08RICDX	120/277V, 0-10V/Triac/ELV

## Accessories for Remodel IC Power Pack



Single Downlight Frames New Construction

CAT NO.	SPECIFICATIONS
E1LF1	2" Cutout, 4 5⁄8" Sq. frame
*Require	s Power Pack (not included)



Multiple Downlight Frames New Construction

CAT NO.	SPECIFICATIONS
E1LF1-M2	2-Set, 8 ¾" total length of frame
E1LF1-M3	3-Set, 13" total length of frame
E1LF1-M4	4-Set, 17 ½" total length of frame
E1LF1-M5	5-Set, 21 ¾" total length of frame

\*Requires Power Pack (not included)

## 1″ Oak™ Accessories



Downlight Round Trims

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

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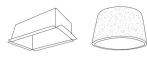
# Downlight Square Trims CAT NO. SPECIFICATIONS RM11W All White RM11B Black/White Ring

RM11BZ All Bronze RM11H Haze/White Ring RM11BB All Black



Lens & Optics

CAT NO.	SPECIFICATIONS
EP713C	28° Lens
EP714C	38° Lens
EP715C	50° Lens
L60	Frosted Diffuser
L61	Hex Louver



Fire Rated Products

CAT NO.	SPECIFICATIONS	
FIREENCL	Standard - 9″ H x 20 ¾″ L x 14 ¾″ W	
FIREENCL-S	Shallow - 7 ¼″ H x 16″ L x 14 ¾″ W	
1-Hr Fire Enclosure for Recessed Fixtures		
FIRECVR	9 ¾" H × 17" O.D. × 13" I.D.	
2-Hr Fire Cover for Recessed Fixtures		

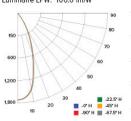
# Photometric Report

### 1" Square Recessed Architectural Oak™ Downlight

**Degress Vertical** 

#### PHOTOMETRIC REPORT

Product #: E1AK12F27 Wattage / Lumens: 8W / 853 lm Luminaire LPW: 106.6 lm/W



#### CANDLE POWER SUMMARY Degress Vertical 0°

0°

#### ILLUMINANCE AT A DISTANCE

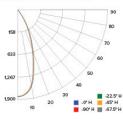
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	107	2.7'
6'	47.4	4.0'
8′	26.7	5.4′
10'	17.1	6.7′

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	678.5	79.8
0-40°	767.3	90.3
0-60°	827.6	97.3
0-90°	850.1	100

#### PHOTOMETRIC REPORT

Product #: E1AK12F30 Wattage / Lumens: 8W / 906 lm Luminaire LPW: 113.2 lm/W



#### CANDLE POWER SUMMARY

#### ILLUMINANCE AT A DISTANCE

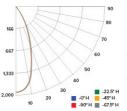
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	113	2.7′
6'	50.4	4.0'
8'	28.3	5.4′
10′	18.1	6.7′

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	720.9	79.8
0-40°	815.3	90.3
0-60°	879.3	97.3
0-90°	903.3	100

#### PHOTOMETRIC REPORT

Product #: E1AK12F35 Wattage / Lumens: 8W / 960 lm Luminaire LPW: 120 lm/W



#### CANDLE POWER SUMMARY

#### **ILLUMINANCE AT A DISTANCE**

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	120	2.7′
6'	53.3	4.0'
8′	30.0	5.4′
10'	19.2	6.7′

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire	
0-30°	763.3	79.8	_
0-40°	863.2	90.3	
0-60°	931.0	97.3	_
0-90°	956.4	100	
0-60°	931.0	97.3	-

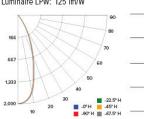
# Photometric Report

## 1" Round Recessed Architectural Oak™ Downlight

Degress Vertical

#### PHOTOMETRIC REPORT

Product #: E1AK12F40 Wattage / Lumens: 8W / 1000 lm Luminaire LPW: 125 lm/W



# CANDLE POWER SUMMARY Degress Vertical 0°

0°

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#### ILLUMINANCE AT A DISTANCE

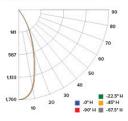
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	125	2.7′
6'	55.4	4.0'
8'	31.2	5.4′
10'	19.9	6.7'

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	792.9	79.8
0-40°	896.8	90.3
0-60°	967.2	97.3
0-90°	993.6	100

#### PHOTOMETRIC REPORT

Product #: E1AK12FSD Wattage / Lumens: 8W / 850 lm Luminaire LPW: 106.2 lm/W



#### CANDLE POWER SUMMARY

#### ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	106	2.7′
6'	47.0	4.0'
8'	26.4	5.4'
10′	16.9	6.7'

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	672.1	79.8
0-40°	760.1	90.3
0-60°	819.8	97.3
0-90°	842.2	100