

The Oak™ System

1″ Miniature LED Downlights

ELCO Lighting
The Best Choice in Lighting



The **Oak**™ 1″ Miniature LED Downlights

The 1″ Oak™ System contains our smallest LED recessed fixtures. These 12V AC downlights and gimbals are engineered to squeeze into the tiniest of spaces, indoors or outdoors, yet still provide enough power to light up the surroundings. With over 600 lumens delivered, they produce more brilliant white light than a traditional 50W halogen product. The 1″ Oak™ System is IC rated for insulated ceilings, and can be easily daisy-chained for simple installation.

The **Oak™ System**

1″ Miniature **LED Downlights**



Up to 6 Oak™ fixtures can be daisy-chained to one **E1LDRV60**

INTEGRATED LED · 90+ CRI · DIMMABLE

WET LOCATION · DAMP LOCATION · AIRTIGHT

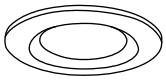
IC RATED · 50,000 HOURS · 5 YEAR WARRANTY

TITLE 24 COMPLIANT · ENERGY STAR · c UL us LISTED

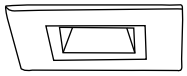
DIMS TO WARM
SUNSET DIMMING TECHNOLOGY

Small Aperture, Big Light!

STYLES



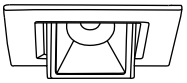
Round



Square



Round Adjustable



Square Adjustable

FINISHES

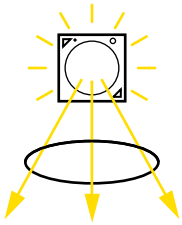
White

Black

Bronze

Haze

LUMENS



450 lm to 700 lm

COLOR TEMPERATURE



2700K - 5000K & Sunset

Oak™ Recessed Downlights

Small aperture 12V AC Downlight delivers up to 675 lumens. More light than a traditional 50W MR16 Halogen Lamp. Requires 12V AC Transformer (daisy chain up to 6). Dimmable MLV or ELV depending on transformer used.

- IC Airtight for use with direct contact with insulation
- Height allows for use in 2 x 4 construction
- Daisy chain up to 6 fixtures with E1LDRV60
- 38° Standard beam with optional 28° and 50°
- Remodel requires no frame
- New construction frame available
- Wet Location Rated for Indoor and Outdoor Use
- JA8-2016-E, UL Listed, and Energy Star Listed
- Life Span 50,000 Hours L70



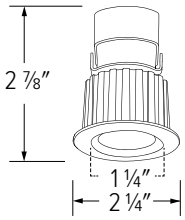
DIMS TO WARM
SUNSET DIMMING TECHNOLOGY

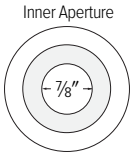


(W) All White **(B)** Blk/Wht Ring **(BZ)** All Bronze **(H)** Haze/Wht Ring **(BB)** All Black

1" Round Downlight

Input Power: 6W
Lumens: 450 - 675 lm
Color Temp: 2700K - Sunset
CRI: 93+
Input Volt: 12V AC
Wet Loc: UL Listed
Dimmable: ELV/MLV





Finish	2700K 600 lm	3000K 625 lm	3500K 650 lm	4000K 675 lm	Sunset* 450 lm
W	E1L02F27W	E1L02F30W	E1L02F35W	E1L02F40W	E1L02FSDW
B	E1L02F27B	E1L02F30B	E1L02F35B	E1L02F40B	E1L02FSDB
BZ	E1L02F27BZ	E1L02F30BZ	E1L02F35BZ	E1L02F40BZ	E1L02FSDBZ
H	E1L02F27H	E1L02F30H	E1L02F35H	E1L02F40H	E1L02FSDH
BB	E1L02F27BB	E1L02F30BB	E1L02F35BB	E1L02F40BB	E1L02FSDBB

* Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed



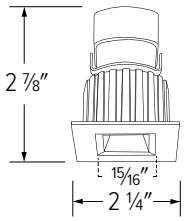
DIMS TO WARM
SUNSET DIMMING TECHNOLOGY

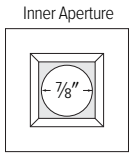


(W) All White **(B)** Blk/Wht Ring **(BZ)** All Bronze **(H)** Haze/Wht Ring **(BB)** All Black

1" Square Downlight

Input Power: 6W
Lumens: 450 - 675 lm
Color Temp: 2700K - Sunset
CRI: 93+
Input Volt: 12V AC
Wet Loc: UL Listed
Dimmable: ELV/MLV





Finish	2700K 600 lm	3000K 625 lm	3500K 650 lm	4000K 675 lm	Sunset* 450 lm
W	E1L12F27W	E1L12F30W	E1L12F35W	E1L12F40W	E1L12FSDW
B	E1L12F27B	E1L12F30B	E1L12F35B	E1L12F40B	E1L12FSDB
BZ	E1L12F27BZ	E1L12F30BZ	E1L12F35BZ	E1L12F40BZ	E1L12FSDBZ
H	E1L12F27H	E1L12F30H	E1L12F35H	E1L12F40H	E1L12FSDH
BB	E1L12F27BB	E1L12F30BB	E1L12F35BB	E1L12F40BB	E1L12FSDBB

* Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed

Product Number Builder

1" Oak™ Downlight	Style	Beam Angle	Color Temperature	Finish
E1L	02 Round 12 Square	F 38° (Standard) NF 28° WF 50°	27 2700K 30 3000K 35 3500K 40 4000K SD Sunset	W All White B Black/White Ring BZ All Bronze H Haze/White Ring BB All Black

Example: **E1L02F40B** [1" Oak™ Round Downlight, 38° Beam Angle, 4000K, Black/White Ring]

Oak™ Recessed Adjustables

Small aperture 12V AC Adjustable downlight delivers up to 700 lumens with 30° adjustability. More light than a traditional 50W MR16 Halogen Lamp. Requires E1LDRV60 (daisy chain up to 6). Dimmable MLV or ELV depending on transformer used.

- IC for use with direct contact with insulation
- 30° Gimbal adjustability
- Height allows for use in 2 x 4 construction
- Daisy chain up to 6 fixtures with E1LDRV60
- 38° Standard beam with optional 28° and 50°
- Remodel requires no frame
- New construction frame available
- JA8-2016-E, UL Listed, and Energy Star Listed
- Life Span 50,000 Hours L70

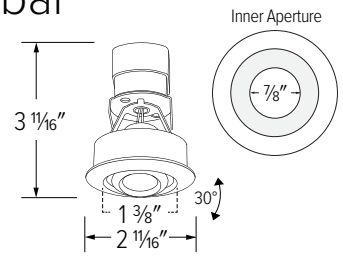




(W) All White **(B)** All Black **(BZ)** All Bronze

1″ Round Gimbal

Input Power: 6W
Lumens: 625 - 700 lm
Color Temp: 2700K - 4000K
CRI: 93+
Input Volt: 12V AC
Damp Loc: UL Listed
Dimmable: ELV/MLV



Finish	2700K 625 lm	3000K 650 lm	3500K 675 lm	4000K 700 lm
W	E1L32F27W	E1L32F30W	E1L32F35W	E1L32F40W
B	E1L32F27B	E1L32F30B	E1L32F35B	E1L32F40B
BZ	E1L32F27BZ	E1L32F30BZ	E1L32F35BZ	E1L32F40BZ

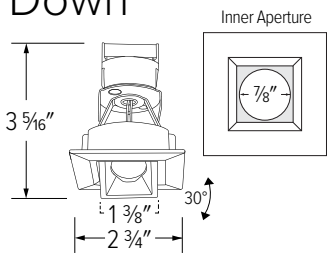




(W) All White **(B)** All Black **(BZ)** All Bronze

1″ Square Pull Down

Input Power: 6W
Lumens: 625 - 700 lm
Color Temp: 2700K - 4000K
CRI: 93+
Input Volt: 12V AC
Damp Loc: UL Listed
Dimmable: ELV/MLV



Finish	2700K 625 lm	3000K 650 lm	3500K 675 lm	4000K 700 lm
W	E1L22F27W	E1L22F30W	E1L22F35W	E1L22F40W
B	E1L22F27B	E1L22F30B	E1L22F35B	E1L22F40B
BZ	E1L22F27BZ	E1L22F30BZ	E1L22F35BZ	E1L22F40BZ

Product Number Builder

1″ Oak™ Downlight	Style	Beam Angle	Color Temperature	Finish
E1L	**32** Round Gimbal **22** Square Pull Down	**F** 38° (Standard) **NF** 28° **WF** 50°	**27** 2700K **30** 3000K **35** 3500K **40** 4000K	**W** All White **B** All Black **BZ** All Bronze

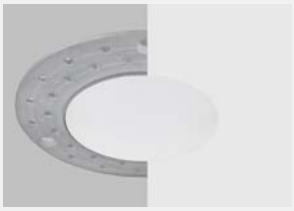
Example: **E1L22NF35BZ** [1″ Oak™ Square Pull Down, 28° Beam Angle, 3500K, All Bronze]

Oak™ Trimless Downlight

Designed to seamlessly make the trim ring invisible showing only the reflector and lens with no visible trim ring. Slides in-&-out of a finished ceiling with the ease of a click. Requires 12V AC Transformer (daisy chain up to 6). Dimmable MLV or ELV depending on transformer used.

- Trimless Downlight Requires: 1″ Trimless LED Light Engine (E1L61F) plus 1″ Trimless Spackle Frame (EL01SFR) sold separately
- IC for use with direct contact with insulation
- Daisy chain up to 6 fixtures with E1LDRV60
- 38° Standard beam with optional 28° and 50°
- Remodel requires no frame
- New construction frame available (E1LF2 Series)
- JA8-2016-E, UL Listed, and Energy Star Listed





Mount Spackle Frame

Well engineered extra thin spackle frame for a easy mudding and lasting quality

Oak™ Trimless Design

Designed to seamlessly make the trim ring invisible showing only the reflector and lens





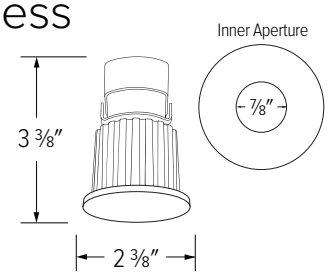
(W) All White



(B) All Black

1″ Round Trimless

Input Power:	6W
Lumens:	450 - 675 lm
Color Temp:	2700K - Sunset
CRI:	93+
Input Volt:	12V AC
Wet Loc:	UL Listed
Dimmable:	ELV/MLV



Finish	2700K 600 lm	3000K 625 lm	3500K 650 lm	4000K 675 lm	Sunset* 450 lm
W	E1L61F27W	E1L61F30W	E1L61F35W	E1L61F40W	E1L61FSDW
B	E1L61F27B	E1L61F30B	E1L61F35B	E1L61F40B	E1L61FSDB
BZ	E1L61F27BZ	E1L61F30BZ	E1L61F35BZ	E1L61F40BZ	E1L61FSDBZ
H	E1L61F27H	E1L61F30H	E1L61F35H	E1L61F40H	E1L61FSDH
BB	E1L61F27BB	E1L61F30BB	E1L61F35BB	E1L61F40BB	E1L61FSDBB

* Sunset, Dim to Warm technology, automatically transitions from 3000K to 1800K when dimmed



1″ Trimless Spackle Frame

EL01SFR 2 ⅜″ I.D. - 4″ O.D.

Oak™ R-60 New Construction Housings



AIRTIGHT

IC RATED

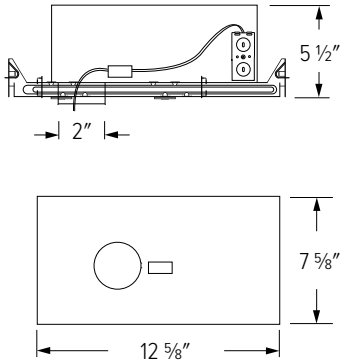
Oak™ New Construction Housings with 12V AC Transformer

- Double Wall IC Airtight R-60 foam insulation housing
- Includes individual electronic transformer
- Suitable for Chicago Plenum Construction

E1LF1ICAJ Series Compatible with:
E1L02, E1L12 & E111F Downlights

E1LF1ICAJ
(120V Input, ELV Dimmable)
E1LF1ICAJ-7
(277V Input)

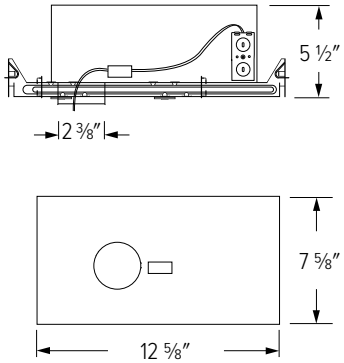
E1LF1ICAJDX
(120V Input, 0-10V Dimmable)
E1LF1ICAJDX-7
(277V Input, 0-10V Dimmable)



E1LF2ICAJ Series Compatible with:
E1L22, E1L32 Adjustables & E1L61 Trimless Downlight

E1LF2ICAJ
(120V Input, ELV Dimmable)
E1LF2ICAJ-7
(277V Input)

E1LF2ICAJDX
(120V Input, 0-10V Dimmable)
E1LF2ICAJDX-7
(277V Input, 0-10V Dimmable)



Oak™ New Construction Frames





Oak™ Single Downlight Frame

- Requires transformer
- IC rated

E1LF1 2″ Cutout - 4 5⁄8″ Sq. frame
Compatible with E1L02 and E1L12 Downlights

E1LF2 2 3⁄8″ Cutout - 4 5⁄8″ Sq. frame
Compatible with E1L22, E1L32 Adjustables

E2LF2 2 11⁄16″ Cutout
Compatible with E1L61 Trimless

Oak™ Multiple Downlight Frame

- Requires transformer
- IC rated
- For row mounting fixtures

E1LF1-M2 2 Set - total length of frame: 8 ¾″
E1LF1-M3 3 Set - total length of frame: 13″
E1LF1-M4 4 Set - total length of frame: 17 ½″
E1LF1-M5 5 Set - total length of frame: 21 ¾″
Compatible with E1L02 and E1L12 Downlights

E1LF2-M2 2 Set - total length of frame: 8 ¾″
E1LF2-M3 3 Set - total length of frame: 13″
E1LF2-M4 4 Set - total length of frame: 17 ½″
E1LF2-M5 5 Set - total length of frame: 21 ¾″
Compatible with E1L22, E1L32 Adjustables & E1L61 Trimless

Oak™ Accessories



Power Supplies



Enclosed Electronic Transformer

E1LDRV60

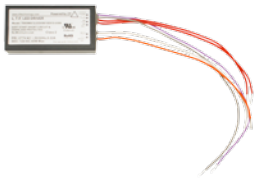
- Fits through ceiling hole
- Electronic Low Voltage (ELV) dimmable
- 12V AC output, 120V Input
- 60W
- Daisy chain up to 6 Oak Fixtures on one transformer
- Dimensions: 5 ⅛″ L x 1 ⅜″ W x 1″ H



Electronic Transformer

LET-60 (120V Input)
LET-60H (120V Input, Hatch)
LET-60-277 (277V Input)

- Electronic Low Voltage (ELV) dimmable (120V Only)
- 12V AC output
- 60W
- For remote installation
- Daisy chain up to 6 Oak Fixtures on one transformer
- Dimensions:
  LET-60 - 2 ¼″ L x 1 ¼″ W x ¾″ H
  LET-60H - 2 ¾″ L x 1 ¼″ W x ¾″ H



0-10V Dimmable Electronic Transformer

LET-60DX (120V Input)
LET-60DX-277 (277V Input)

- 0-10V dimmable
- 12V AC output
- 60W
- For remote installation
- Daisy chain up to 6 Oak Fixtures on one transformer
- Dimensions:
  3 ¼″ L x 1 ½″ W x ¾″ H



Magnetic Transformer

ETR12 (50W, Daisy Chain 2-6)
ETR12-20 (20W, Daisy Chain 1-3)

- Magnetic Low Voltage (MLV) dimmable
- 12V AC output, 120V input
- For remote installation
- Daisy chain up to 6 Oak Fixtures on one transformer
- Dimensions:
  2 ¼″ L x 1 ⅞″ W x 3″ H

Trims (for use with E1L02 and E1L12 only)



RM1W All White
RM1B Black/Wht Ring
RM1BZ All Bronze
RM1H Haze/Wht Ring
RM1BB All Black



RM11W All White
RM11B Black/Wht Ring
RM11BZ All Bronze
RM11H Haze/Wht Ring
RM11BB All Black

Optional Lenses

(field changeable for E1L02, E1L12 & E1L32)



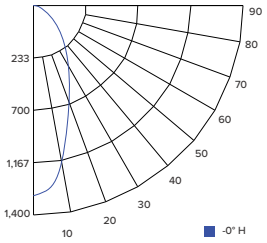
EP713C (28°)
EP714C (38°)
EP715C (50°)

Photometric Report

Oak™ LED Light Engine

PHOTOMETRIC REPORT

Product #: E1L02F30
Wattage / Lumens: 6W / 600 lm
Luminaire LPW: 100 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	1315
5	1272
15	884
25	382
35	106
45	33
55	14
65	8
75	4
85	1
90	0

ILLUMINANCE AT A DISTANCE

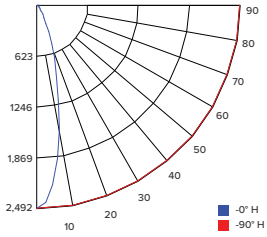
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	113	2.8′
6′	40.0	4.2′
8′	20.5	5.6′
10′	14.1	6.9′

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	532.8	81.2
0-40°	603.4	91.9
0-60°	642.9	98
0-90°	656.4	100

PHOTOMETRIC REPORT

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



CANDLE POWER SUMMARY

Degress 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	Center Beam Footcandles	Beam Diameter
4′	156	1.7′
6′	69.2	2.6′
8′	38.93	.5′
10′	24.94	.4′

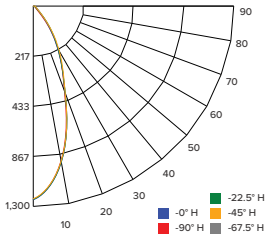
ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	570.3	88.9
0-40°	612.6	95.5
0-60°	634.7	98.9
0-90°	641.6	100

Oak™ LED Light Engine

PHOTOMETRIC REPORT

Product #: E1L12F30
Wattage / Lumens: 6W / 600 lm
Luminaire LPW: 100 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	1269
5	1235
15	846
25	322
35	93
45	31
55	18
65	10
75	5
85	0
90	0

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4′	79.3	2.7′
6′	35.3	4.0′
8′	19.8	5.3′
10′	12.7	6.7′

ZONAL LUMEN SUMMARY

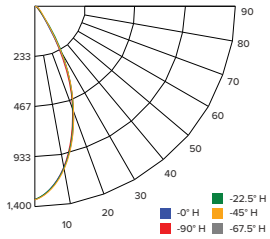
Zone	Lumens	%Luminaire
0-30°	504.7	79.8
0-40°	570.7	90.3
0-60°	615.6	97.3
0-90°	632.4	100

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

Degress 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′

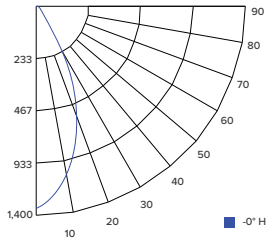
ZONAL LUMEN SUMMARY

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

Oak™ LED Light Engine

PHOTOMETRIC REPORT

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



CANDLE POWER SUMMARY

Degress 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

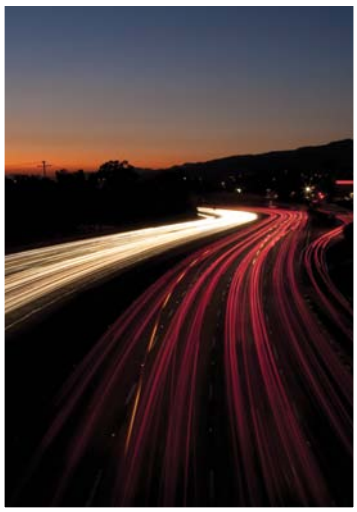
The **Quality** Choice



The **Leading** Choice



The **Timely** Choice







The **Contractor's** Choice



The **Trusted** Choice

Over two and a half decades ago, in the heart of Los Angeles, ELCO Lighting was founded on the philosophy that high quality lighting products should be sold at a fair market price. Our commitment to this philosophy and dedication to exceptional customer service serve as the very soul of our company. We take pride in our perpetual commitment to such standards that enable us to continually prosper in a highly competitive and unpredictable industry. With our expanding LED product line that entails recessed, track, undercabinet, outdoor and emergency lighting, we are ready to fulfill a variety of lighting demands. Quality engineering, fair market value, professional customer service, and micro-managed inventory are the cornerstones of ELCO Lighting.

ELCO Lighting

The Best Choice in Lighting

ELCAT1055_A

ELCO Lighting

Corporate Headquarters
2042 E. Vernon Ave.
Vernon, CA 90058
Tel: 323.231.2600
Fax: 323.231.3200
elcolighting.com

Customer Service
Tel: 800.522.2626
Fax: 800.644.2626
orderdesk@elcolighting.com
customerservice@elcolighting.com
sales@elcolighting.com

Printed in the U.S.A. 12/22
$8.00

© ELCO Lighting. The marks appearing in this catalog are registered trademarks of ELCO Lighting. Other marks used herein are recognized trademarks of their respective companies. Products shown in this brochure may be covered by U.S. and international patents. Specifications subject to change without notice.