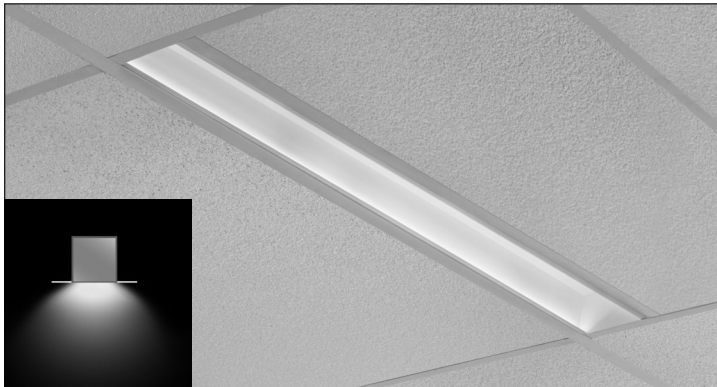


# FINELITE

## H04 - Recessed



**Declare.**



### DESCRIPTION

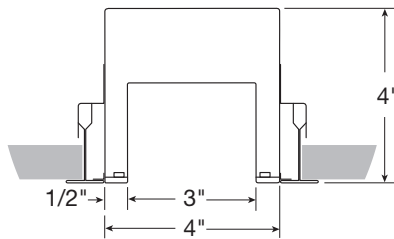
H04 Recessed (H04-R) luminaire delivers unparalleled performance and comfortable illumination. A state-of-the-art rectilinear reflector provides depth and seamless uniformity to recessed applications. Designed to accommodate most ceiling types and tailorable in 1-foot increments. This product is enrolled in the International Living Future Institute (ILFI) Declare 2.0 Program and is third-party verified with options achieving Red List Approved and Declared status.

Date

Project

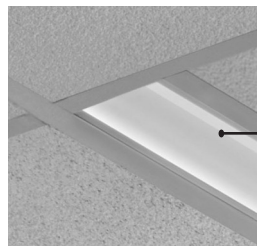
Type

Comments



### DIMENSIONS & LIGHT ENGINE

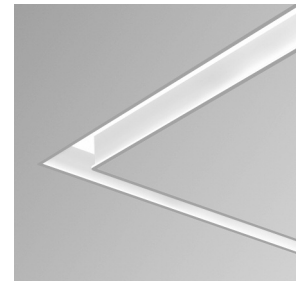
Mid-powered, micro LED arrays are tucked into the thin bottom rail for seamless illumination.



State-of-the-art polymer reflector material

### UNIQUE POLYMER REFLECTOR

State-of-the-art lightweight reflector material features high reflectivity, reduced presence of seams, and is tailorable for maximum flexibility and performance.



### 90 DEGREE CORNERS

H04 is now available with 90 degree corners. (See page 5 for measurement specifications)

**ORDERING GUIDE:** Sample Number: H04-R - RO - 32' - S - 835 - OPN - 120V - SC - SE - C1 - OBO - RLA



Finelite **H04-R**

Luminaire Style (**RO** - Rectilinear)

Length (Minimum 2', in 1' increments) <sup>1</sup>

Downlight Output (**S** - Standard, **B** - Boosted Standard, **H** - High, **V** - Very High)

LED CRI/CCT (**830** - 80 CRI min, 3000K **930** - 90 CRI min, 3000K

**835** - 80 CRI min, 3500K **935** - 90 CRI min, 3500K

**840** - 80 CRI min, 4000K **940** - 90 CRI min, 4000K)

Downlight Option (**OPN** - Open)

Voltage (**120V**, **277V**, **347V**)

Circuiting (**SC** - Single Circuit) <sup>2</sup>

Endcap (**SE** - Solid Endcap (standard)) <sup>3</sup>

Ceiling Type (**C1** - 1" T-Bar, **C2** - 9/16" T-Bar, **C3** - screw slot, **C3F** - flush screw slot, **C2T** - 9/16" tegular,

**SF** - Spackle Flange), **VF** - Visible Flange, **TZ6** (C1, C2, C2T, C3, C3T) - Tech Zone 6")

Integrated Sensor (**OBO** - Occupancy Sensor, **OBD** - Daylight) <sup>3</sup>

Special Options (**RLA** - Red List Approved, **RLD** - Declared Label)

<sup>1</sup> Standard section lengths: 4', 8' and 12' (maximum). See page 5 for configuration information

<sup>2</sup> Contact factory for switching options

<sup>3</sup> Solid Endcap (**SE**) required at end with a sensor/battery pack

Patent Pending

A brand of **legrand**

Finelite, Inc. • 30500 Whipple Road • Union City, CA 94587-1530 • (510) 441-1100 • Fax: (510) 441-1510 • www.finelite.com

# FINELITE

## H04 - Recessed

### PHOTOMETRY

H04-R-RO-4ft-V-835-OPN

Very High Output - 4' Luminaire

Efficacy: 114 lumens per watt

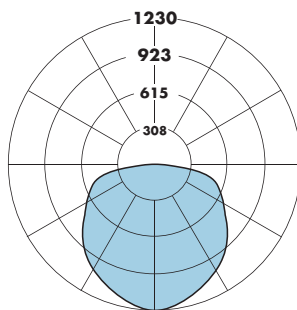
Total luminaire output: 3991 Lumens (998 lumens/foot)

35 Watts (8.8 watts/foot)

Peak Candela Value: 1230 @ 0°

CCT: 3500K; CRI: 80

ITL LM79 Report 89351



CANDELA DISTRIBUTION

	0.0	22.5	45	67.5	90	Flux
0	1230	1230	1230	1230	1230	1230
5	1227	1223	1217	1212	1212	116
15	1196	1170	1161	1155	1150	329
25	1126	1085	1078	1077	1073	501
35	1022	974	975	980	979	615
45	884	840	852	860	862	661
55	717	685	706	708	715	631
65	528	514	542	597	618	552
75	316	329	425	484	502	432
85	95	178	159	98	72	155
90	0	0	0	0	0	

#### Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire

S*	B*	H*	V**
1634	2054	3104	3991

#### Light Output, 3500K, 80 CRI (Lumens Per Foot)

S*	B*	H*	V**
408	513	776	998

#### Power (Watts Per Foot)

S*	B*	H*	V**
3.4	4.4	6.7	8.8

#### Efficacy, 3500K, 80 CRI (Lumens Per Watt)

S*	B*	H*	V**
119	118	115	114

**S** - Standard Output, **B** - Boosted Standard Output, **H** - High Output, **V** - Very High Output

\* Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

\*\* Based on ITL report: 89351

#### Lumen Adjustment Factors - 80 CRI

<b>3000K</b>	0.985
<b>3500K</b>	1.000
<b>4000K</b>	1.032

#### Lumen Adjustment Factors - 90 CRI

<b>3000K</b>	0.746
<b>3500K</b>	0.760
<b>4000K</b>	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

#### SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H), 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

$$\text{Total Light Output} = 3104 \text{ lm} \times 0.789 = 2449 \text{ lm}$$

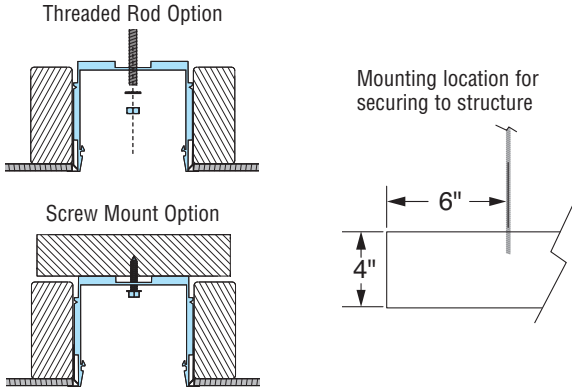
$$\text{Total Light Output per Foot} = 776 \text{ lm/ft} \times 0.789 = 612 \text{ lm/ft}$$

$$\text{watts/foot} = 6.7 \text{ W/ft}$$

$$\text{Efficacy} = \frac{612 \frac{\text{lm}}{\text{ft}}}{6.7 \frac{\text{W}}{\text{ft}}} = 91 \text{ lm/W}$$

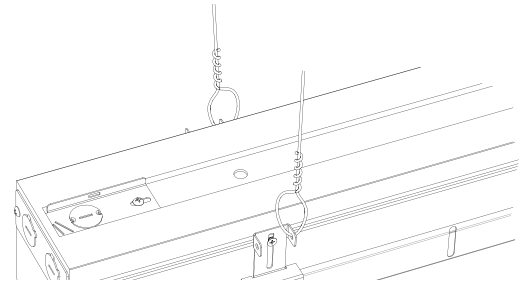
# FINELITE

## H04 - Recessed



### HARD CEILING MOUNTING OPTIONS

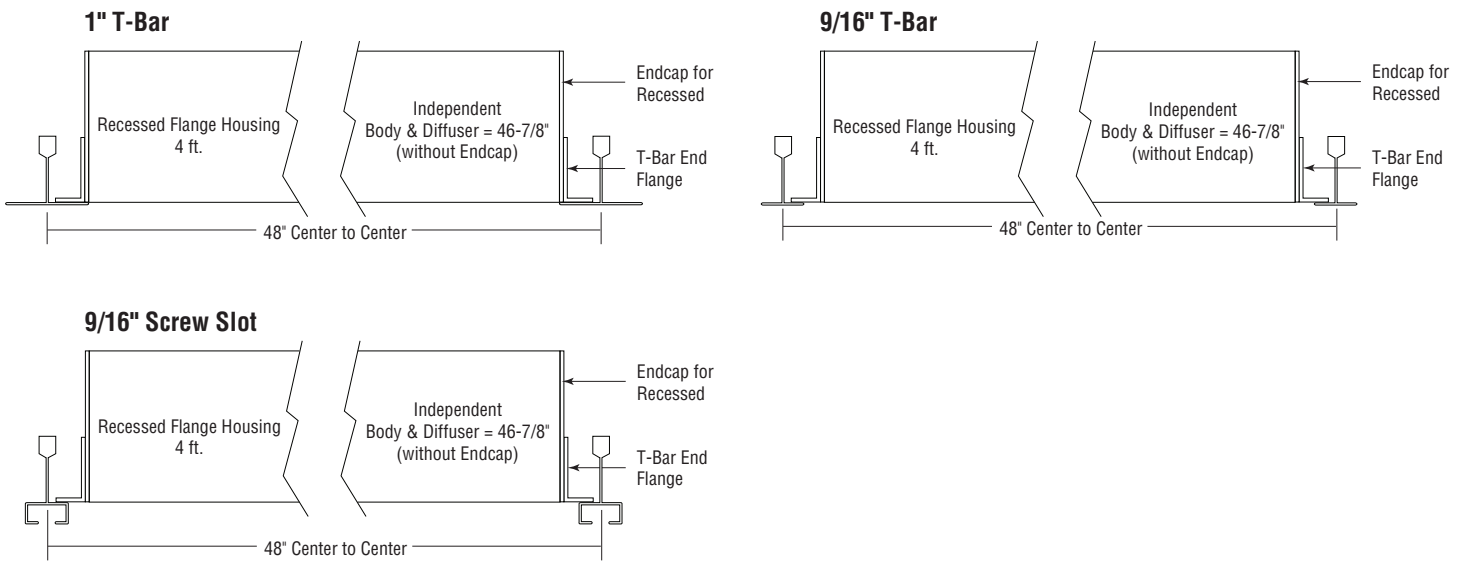
Two mounting options: threaded rod and screw mounting options. Mounting locations are located on each end of the luminaire. Mounting location is 6" away from each end of luminaire.



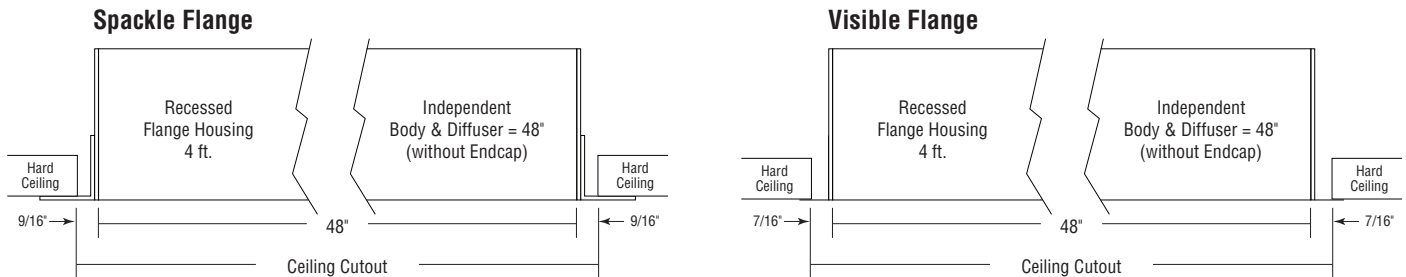
### T-BAR INSTALLATION:

H04-R for T-Bar installations comes standard with a conduit plate at the end, and at the top of the luminaire. Mounting brackets (supplied) secure the luminaire to T-Bar and provide support to structure location. All even foot length (2, 4, 6, ...) luminaire runs are reduced in length by an appropriate amount to fit within typical 2x2 and 2x4 T-Bar systems. Please consult factory for uncommon T-Bar systems.

### GRID LENGTH DETAIL - 4' example



### HARD CEILING LENGTH DETAIL - 4' example

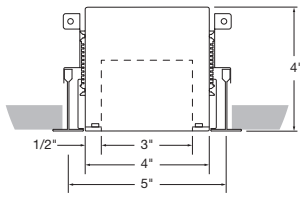


# FINELITE

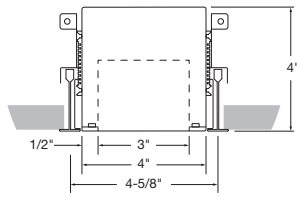
## H04 - Recessed

### MOUNTING TYPES: T-BAR

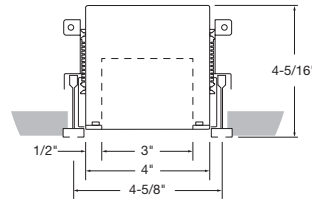
Rough-In Dimensions



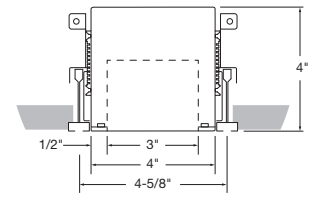
1" T-Bar (C1)



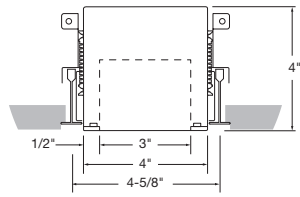
9/16" T-Bar (C2)



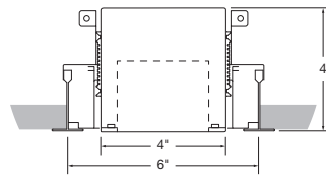
Standard Screw Slot (C3)



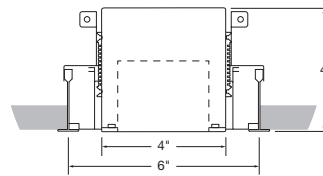
Flush Screw Slot (C3F)



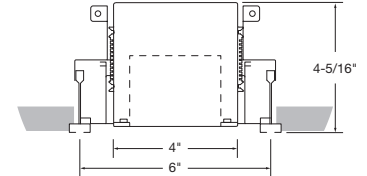
9/16" Tegular (C2T)



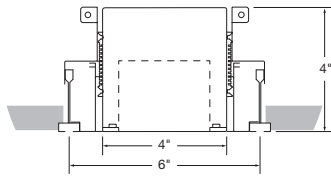
Tech Zone 6" (TZ6)  
1" T-Bar (C1)



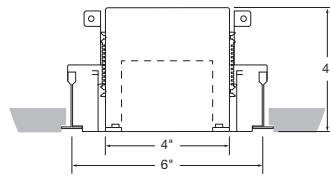
Tech Zone 6" (TZ6)  
9/16" T-Bar (C2)



Tech Zone 6" (TZ6)  
Standard Screw Slot (C3)

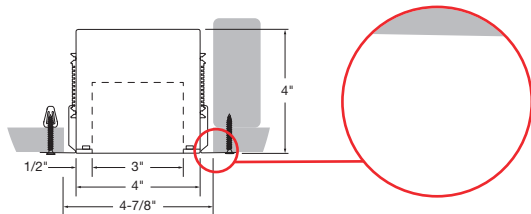


Tech Zone 6" (TZ6)  
Flush Screw Slot (C3F)

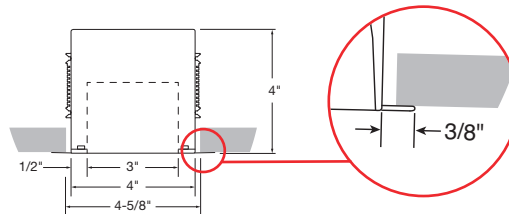


Tech Zone 6" (TZ6)  
9/16" Tegular (C2T)

### MOUNTING TYPES: CUTOUT DIMENSIONS



Spackle Flange (SF)



Visible Flange (VF)

# FINELITE

## H04 - Recessed

### SPECIFICATIONS

**CONSTRUCTION:** Precision-cut extruded aluminum body. Internal joiner system, Plug-together wiring, standard.

**ENDCAPS:** Solid diecast aluminum endcaps close in form and add 1/4" to each end of luminaire.

**MITERED CORNER:** Corners are secured with joining brackets for tight connection. Square and rectangular configurations are available. Minimum 4' length for each leg of configurations. Each corner is made up of two reflector sections 2' long.

**REFLECTORS:** High diffuse reflectance film with matte white finish. UV stable, abrasion resistant, and anti-static.

**DOWNLIGHT OPTION:** Direct distribution is totally open with unique polymer reflector material that helps define the rectilinear form.

**LIGHT OUTPUT:** Four lumen packages available, Standard (S), Boosted Standard (B), High (H), and Very High (V). A separate chart summarizes lumen distribution and wattage. Light engines are replaceable.

**LUMEN MAINTENANCE:** 90% of initial light output (L90) at 100,000+ hours; 70% of initial light output (L70) at 200,000+ hours.

**DRIVER:** Replaceable 120V/277V and 347V Constant Current Reduction dimming driver standard. Can be wired dimming or non-dimming. 0-10v dimming

controls with a range of 10%-100%. Dimming to 1% is available; consult factory. Expected driver lifetime: 100,000 hours.

**LUTRON DRIVER OPTIONS:** **LUTES1** (Hi-lume 1% EcoSystem with Soft-On, Fade to Black dimming (LDE1 series)); **LUTES5** (5-Series 5% EcoSystem (LDE5 Series)); **LUT2W** (Hi-lume 1% 2-wire, 120V forward phase dimming (LTEA series)); Contact factory for availability of discontinued Lutron drivers, L3DA-3-wire and L3DA EcoSystem.

**ELECTRICAL:** Optional emergency to generator/inverter wiring, internal generator transfer switch, nightlight wiring, step-dimming driver, backup battery. Factory-choice low-profile backup battery available. Chicago Plenum option. 8' minimum luminaire length for low profile battery pack. Bodine BSL722 battery pack also available; 4' minimum luminaire length. Backup batteries deliver 2030 lumens. Half of a 4' (one side) section will be illuminated in EM mode. Solid Endcap (SE) required at end with a battery pack.

**INTEGRATED SENSORS:** Integrated PIR Occupancy and Daylight sensors from a variety of manufacturers can be integrated into the luminaire. Solid Endcap (SE) required at end with a sensor.

**MOUNTING:** Standard bracket design works with most lay-in ceiling types. Brackets secure luminaire to the ceiling grid from above. Tie-in T-Bar brackets connect the luminaire to the T-Bar for securing to structure. Consult local codes for tie-wire recommendations.

**FINISHES:** Finelite Signal White powder coat standard. Optional Adders: 185 RAL colors.

**FEED:** Standard with one 18-gauge/5-conductor single-circuit feed. 14-gauge feed used when luminaire current exceeds 5 amps. Optional 6' flex conduit whips available.

**LENGTHS:** Any lengths, 2-foot minimum, in 1' increments. 12-foot maximum section length.

**LABELS:** Fixture and electrical components are ETL-listed conforming to UL 1598 in the U.S.A. and CAN/CSA C22.2 No. 250.0 in Canada. In accordance with NEC Code 410.130 (G), this luminaire contains an internal driver disconnect. Damp Location. Finelite products use electronic components that are RoHS compliant, and the mechanical components of the luminaire have been verified to not knowingly contain any restricted substances listed per RoHS Directive 2011/65/EU. Finelite makes the specification process easy when putting healthier products on your projects. Simply add – **RLA** (Red List Approved) or – **RLD** (Declared Label) to your part number.

**WEIGHT:** 2.8 lb/ft.

**WARRANTY:** 10-year performance-based warranty on all standard components. Optional accessories such as emergency battery packs are covered by their individual manufacturer warranties.

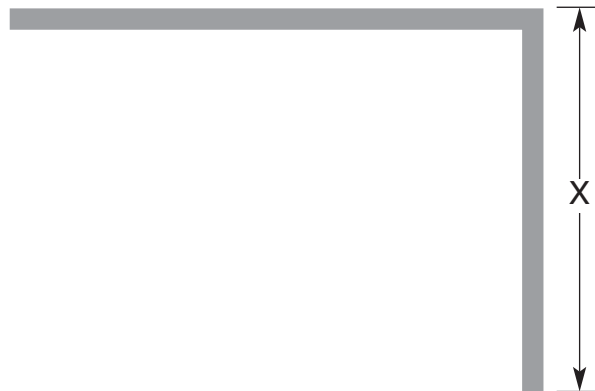
### LENGTH SPECIFICATIONS FOR CONFIGURATIONS

#### CONFIGURATIONS



Measurements are made to the outside of the luminous area as shown above for configurations. Minimum length of any section (X) is 4'.

#### CORNER



Measurements are made to the outside of the luminous area as shown above for single corner. Minimum length of any section (X) is 2'.