

FINELITE

High Performance 4" Aperture (HP-4) - Regressed



Date

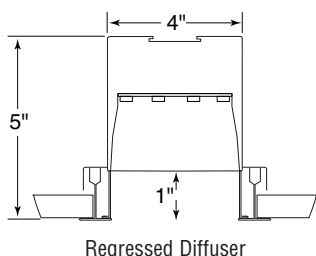
Project

Type

Comments

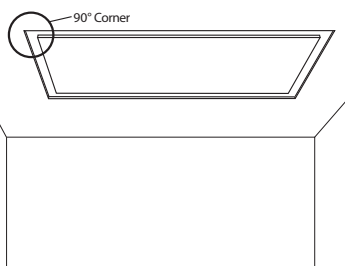
DESCRIPTION

High Performance 4" Aperture Regressed (HP-4 RG) is a patented linear LED luminaire. HP-4 RG is the first regressed linear LED luminaire to feature On-Grid™ mounting for standard lengths, making installation quick and easy.



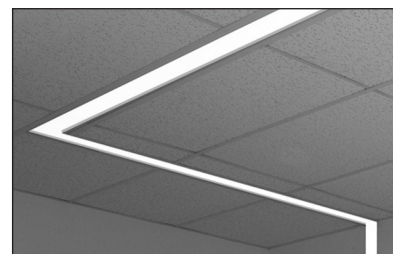
DIMENSIONS & DIFFUSER

Glare-free experience is attained with mid-power LEDs and a precise diffuser to eliminate pixelation.



MITERED CORNERS

Fully illuminated corners have internal secondary diffusers to ensure against light leaks. Custom angles are available.

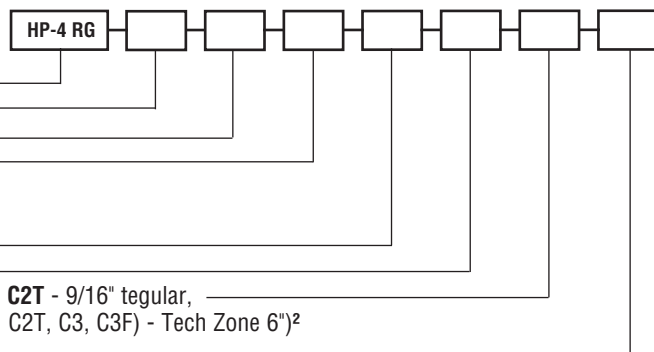


SEAMLESS ILLUMINATION

Internal secondary diffusers at corners ensure visually seamless, uniform, continuous illumination.

ORDERING GUIDE

Sample Number: HP-4 RG - 32' - S - 835 - 120V - SC - C1 - OBO



Finelite HP-4 RG

Length (Minimum 2', increments accurate to 1/16" (± 1/32"), standard)

Light 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)

Voltage (120V, 277V, 347V)

Circuiting (SC - Single Circuit)¹

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

C1T - 1" tegular, VF - Visible Flange, SF - Spackle Flange, TZ6 (C1, C2, C2T, C3, C3F) - Tech Zone 6)²

Integrated Sensor³ (OBO - Occupancy Sensor, OBD - Daylight)

¹ Contact factory for switching options.

² See page 4 for additional mounting information.

³ Refer to Occupancy Sensor and Daylight Sensor tech sheets for more information.

Protected by one or more US Patents: 8915613; D702,391; D702,390; D700,732

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PHOTOMETRY

Very High Output - 4' Luminaire

Efficacy: 94 lumens per watt

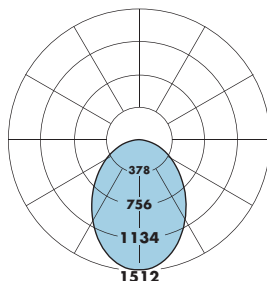
Total luminaire output: 3477 Lumens (869 lumens/foot)

38.0 Watts (9.5 watts/foot)

Peak Candela Value: 1512 @ 0°

CCT: 3500K

ITL LM79 Report 85129



CANDELA DISTRIBUTION SUMMARY

| | 0.0 | 22.5 | 45 | 67.5 | 90 | Flux |
|----|------|------|------|------|------|------|
| 0 | 1512 | 1512 | 1512 | 1512 | 1512 | |
| 5 | 1504 | 1502 | 1500 | 1497 | 1497 | 142 |
| 15 | 1435 | 1415 | 1401 | 1387 | 1375 | 394 |
| 25 | 1298 | 1260 | 1232 | 1202 | 1186 | 568 |
| 35 | 1116 | 1068 | 1024 | 981 | 964 | 643 |
| 45 | 905 | 852 | 797 | 749 | 731 | 620 |
| 55 | 681 | 630 | 570 | 523 | 507 | 518 |
| 65 | 458 | 410 | 352 | 312 | 297 | 360 |
| 75 | 246 | 205 | 159 | 130 | 121 | 183 |
| 85 | 67 | 41 | 38 | 36 | 37 | 48 |
| 90 | 0 | 0 | 0 | 0 | 0 | |

| Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire | | | |
|---|------|------|------|
| S* | B* | H* | V** |
| 1423 | 1789 | 2704 | 3477 |

| Light Output, 3500K, 80 CRI (Lumens Per Foot) | | | |
|---|-----|-----|-----|
| S* | B* | H* | V** |
| 356 | 447 | 676 | 869 |

| Power (Watts Per Foot) | | | |
|------------------------|-----|-----|-----|
| S* | B* | H* | V** |
| 3.6 | 4.6 | 7.1 | 9.3 |

| Efficacy, 3500K, 80 CRI (Lumens Per Watt) | | | |
|---|----|----|-----|
| S* | B* | H* | V** |
| 98 | 97 | 95 | 94 |

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

* Family Correlation based on 4' luminaire 3500K 80 CRI Very High Output (V) test - 120V.

** Correlation based on ITL report: 85129

Lumen Adjustment Factors - 80 CRI

| | |
|-------|-------|
| 3000K | 0.985 |
| 3500K | 1.000 |
| 4000K | 1.032 |

Lumen Adjustment Factors - 90 CRI

| | |
|-------|-------|
| 3000K | 0.746 |
| 3500K | 0.760 |
| 4000K | 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

$$\text{Total Light Output} = 2704 \text{ lm} \times 0.789 = 2133 \text{ lm}$$

$$\text{Total Light Output per Foot} = 676 \text{ lm/ft} \times 0.789 = 533 \text{ lm/ft}$$

$$\text{watts/foot} = 7.1 \text{ W/ft}$$

$$\text{Efficacy} = \frac{533 \frac{\text{lm}}{\text{ft}}}{7.1 \frac{\text{W}}{\text{ft}}} = 75.1 \text{ lm/W}$$

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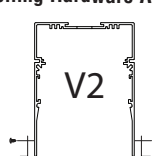
HOUSING

Housing With Extruded Flange (V1)

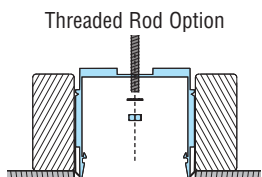


Ceiling Options
VF

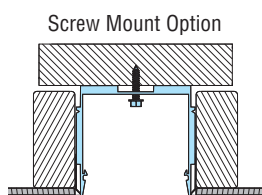
Housing Without Extruded Flange (V2) Ceiling Hardware Attached



Ceiling Options
C1, C2, C1T, C2T,
C3, C3F, SF, TZ6

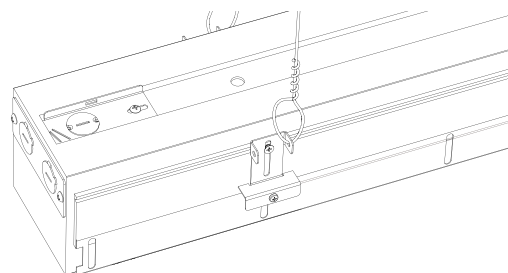
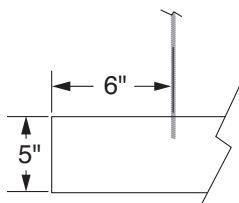


Threaded Rod Option



Screw Mount Option

Mounting location for
securing to structure



T-BAR INSTALLATION:

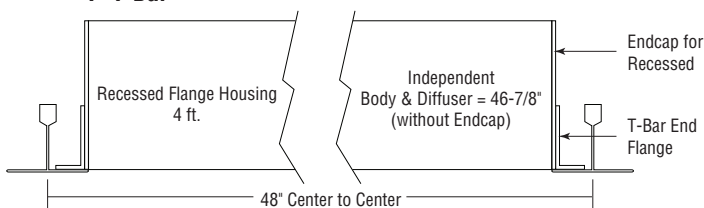
HP-4 RG for T-Bar installations comes standard with a splice plate at the end of the luminaire. Mounting brackets (supplied) secure the luminaire to T-Bar and provide support to structure location. All even foot length (2, 4, 6, ...) luminaire runs are reduced in length by an appropriate amount to fit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

HARD CEILING MOUNTING OPTIONS

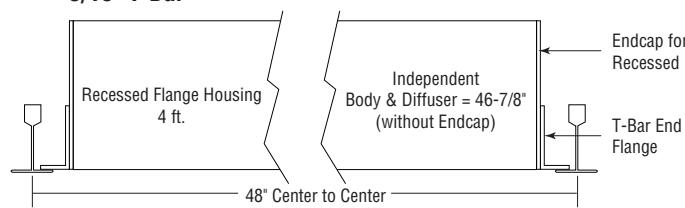
Two mounting options: threaded rod and screw mounting options. Mounting locations are located on each end of the luminaire. Mounting location is 6" away from each end of luminaire.

GRID LENGTH DETAIL - 4' example

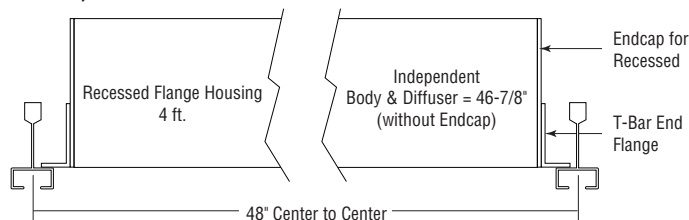
1" T-Bar



9/16" T-Bar

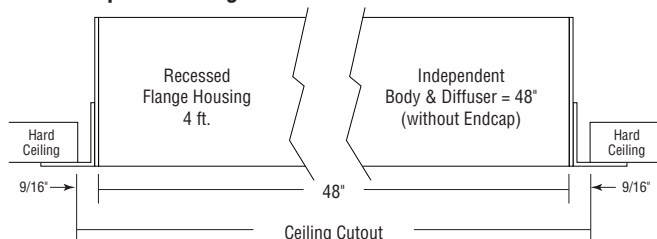


9/16" Screw Slot

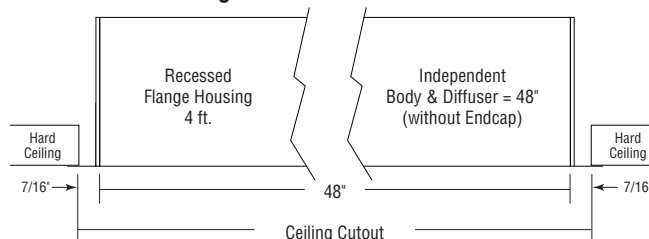


HARD CEILING LENGTH DETAIL - 4' example

Spackle Flange



Visible Flange



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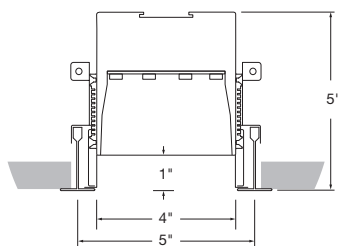
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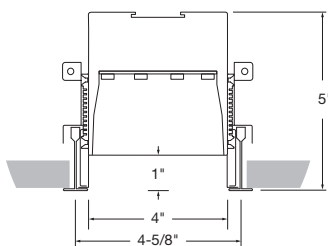
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MOUNTING TYPES: T-BAR

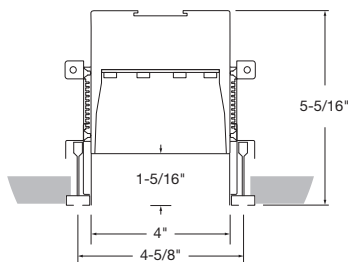
Rough-In Dimensions



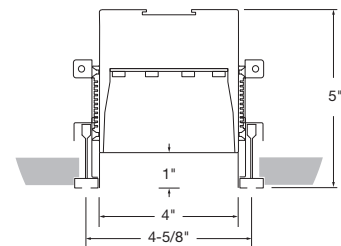
1" T-Bar (C1)



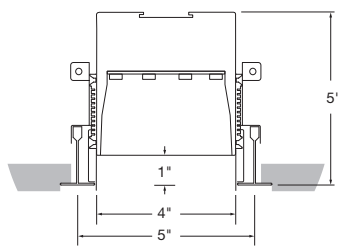
9/16" T-Bar (C2)



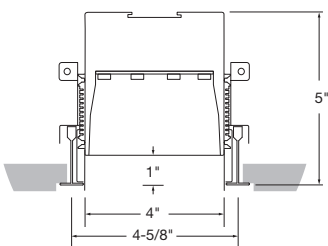
Standard Screw Slot (C3)



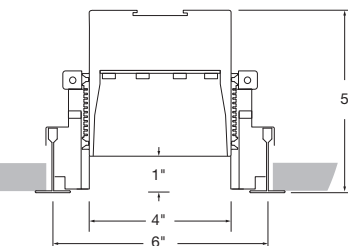
Flush Screw Slot (C3F)



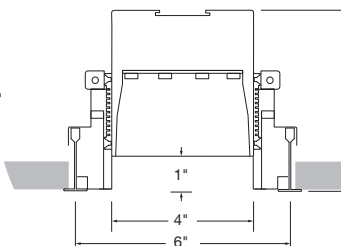
1" Tegular (C1T)



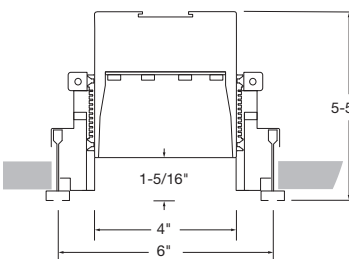
9/16" Tegular (C2T)



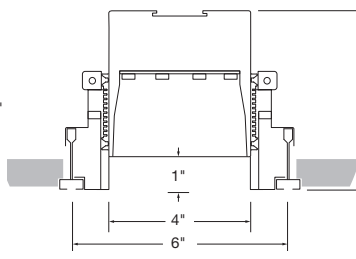
Tech Zone 6" (TZ6)
1" T-Bar (C1)



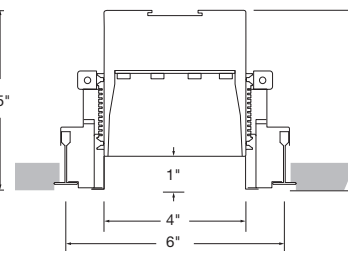
Tech Zone 6" (TZ6)
9/16" T-Bar (C2)



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

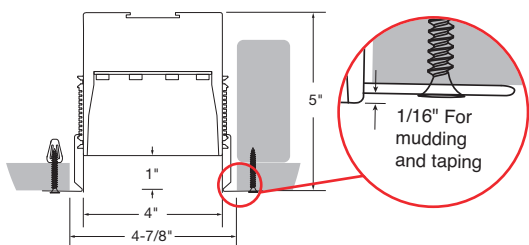


Tech Zone 6" (TZ6)
Flush Screw Slot (C3F)

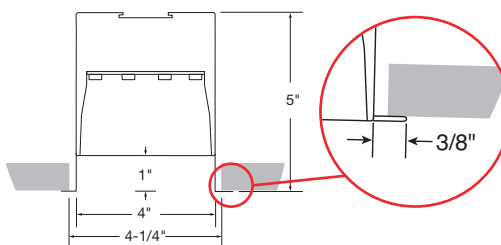


Tech Zone 6" (TZ6)
9/16" Tegular (C2T)

MOUNTING TYPES: CUTOUT DIMENSIONS



Spackle Flange (SF)



Visible Flange (VF)

REGRESSED LENS

Regressed lens version is 5" tall with a lens that is regressed 1" from ceiling line.

* Note: +/- 1/16"

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SPECIFICATIONS

CONSTRUCTION: Precision-cut 6061-T6 extruded aluminum body. Internal joiner system, plug-together wiring, standard. Housing is powder coated.

ENDCAPS: Flat endcaps at each end of run add 1/4" to overall length.

MITERED CORNER: Illuminated 90° corners in a single plane are standard. Custom angles are available (90° minimum on inside corners). Contact factory.

REFLECTORS: Die-formed 20-gauge cold-rolled steel reflectors are finished in 96 LG high reflectance matte white powder coat paint.

DIFFUSER: 12' maximum lens length. Internal secondary diffusers at corners ensure visually seamless, uniform, continuous illumination. Frost white snap-in lens, 73% transmissive, 99% diffusion.

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

LUMEN MAINTENANCE: HP-4 RG is rated to deliver 90% lumen maintenance (L90) to 100,000+ hours and 70% lumen maintenance (L70) to 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% available; consult factory. Driver is fully accessible from below the ceiling. Power Factor: ≥ 0.9 . Total Harmonic Distortion (THD) $< 20\%$. Expected driver life-time: 100,000 hours.

LUTRON DRIVER OPTION: Lut3W-3-wire, LutES-EcoSystem, Lut2W-2-wire.

ELECTRICAL: Optional emergency to generator/inverter wiring, internal generator transfer switch, nightlight wiring, step-dimming driver, backup battery. Chicago Plenum option. Factory-choice low-profile backup battery available. 8' minimum luminaire length for low profile battery pack. Bodine BSL722 battery pack also available; 4' minimum luminaire length. Backup battery delivers 1300 lumens. Half of a 4' section will be illuminated in emergency mode.



INTEGRATED SENSORS: Integrated PIR (Passive Infrared) occupancy and/or daylight sensors available. Refer to Occupancy Sensor and Daylight Sensor tech sheets for more information.

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.

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 length, 2-foot minimum, in increments down to 1/16" ($\pm 1/32"$). 12-foot maximum section length.

WEIGHT: 3.0 lb/ft.

LABELS: Luminaire 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 410.73 (G), this luminaire contains an internal driver disconnect. Damp Location. IC-Rated. 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 2002/95/EC.

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

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