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FINELITE

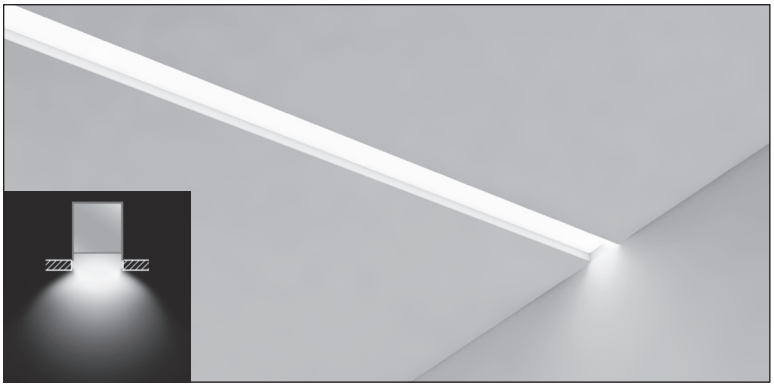
High Performance 4" Aperture (HP-4) - Regressed

Date

Project

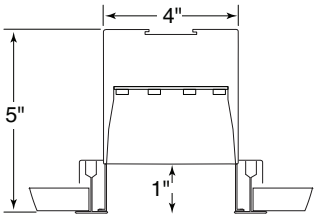
Type

Comments



DESCRIPTION

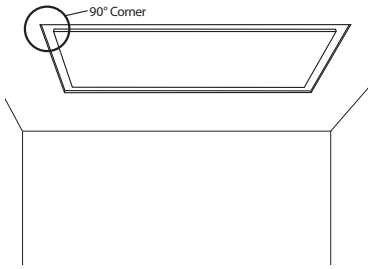
High Performance 4" Aperture Regressed (HP-4 RG) is a patented linear LED luminaire. HP-4 RG is the first regressed linear LED luminaire to feature On-Grid™ mounting for standard lengths, making installation quick and easy.



Regressed Diffuser

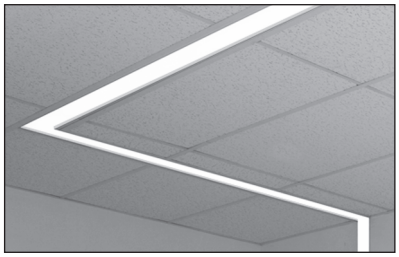
DIMENSIONS & DIFFUSER

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

HP-4 RG

Finelite **Series HP-4 RG**
Length (Minimum **2'**, incements 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, **835** - 80 CRI min, 3500K,
840 - 80 CRI min, 4000K, **930** - 90 CRI min, 3000K,
935 - 90 CRI min, 3500K, **940** - 90 CRI min, 4000K
Voltage (**120V**, **277V**)
Circuiting (**SC** - Single Circuit)[1]
Mounting (**C1** - 1" T-Bar, **C2** - 9/16" T-Bar, **C3** - screw slot, **VF** - Visible Flange, **SF** - Spackle Flange)[2]
Integrated Sensor (**OBO** - Occupancy Sensor, **OBD** - Daylight)

[1] Contact factory for switching options.
[2] See page 4 for additional mounting information.

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

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Form CTK0085 V4 08/17

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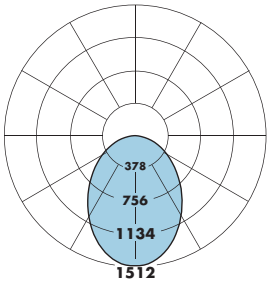
PHOTOMETRY

Very High Output - 4' Luminare
Efficacy: 94 lumens per watt
Total luminaire output: 3477 Lumens (869 lumens/foot)
38.0 Watts (9.5 watts/foot)
Peak Candela Value: 1512 @ 0º
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

Total Light Output =
2704 lm x 0.789 = 2133 lm

Total Light Output per Foot =
676 lm/ft x 0.789 = 533 lm/ft

watts/foot = 7.1 W/ft

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

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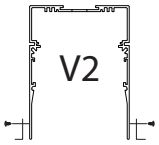
HOUSING

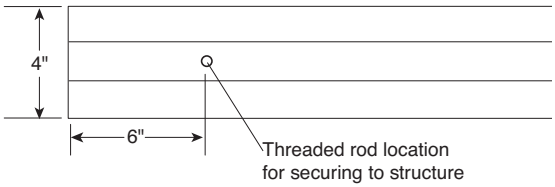
Housing With Extruded Flange (V1)

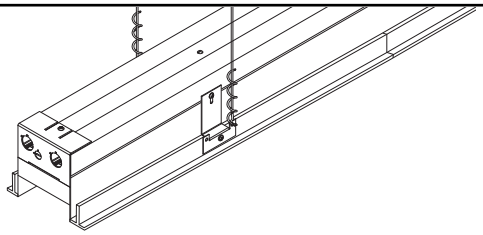
Ceiling Options
C1, C2, C3, VF

Housing Without Extruded Flange (V2)
Ceiling Hardware Attached



Ceiling Options
C1T, C2T, C3F,
SF, TZ6





SHEET ROCK INSTALLATION:

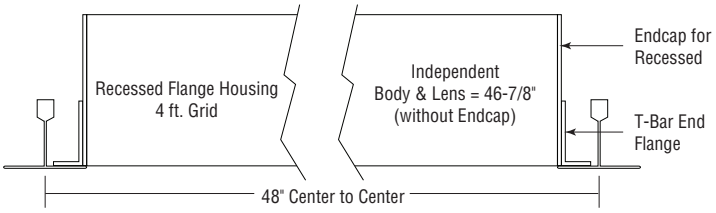
Flex conduit is secured to top of luminaire. Support to structure using threaded rod. Threaded rod support holes are located on each end of the luminaire.

T-BAR INSTALLATION:

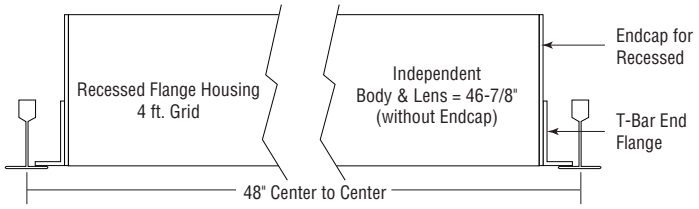
HP-4 RG for T-Bar installations comes standard with a splice plate at the end of the luminaire. Mounting brackets (supplied) secure the luminaire to T-Bar and provide support to structure location. All even foot length (2, 4, 6, ...) luminaire runs are reduced in length by an appropriate amount to fit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

GRID LENGTH DETAIL - 4' example

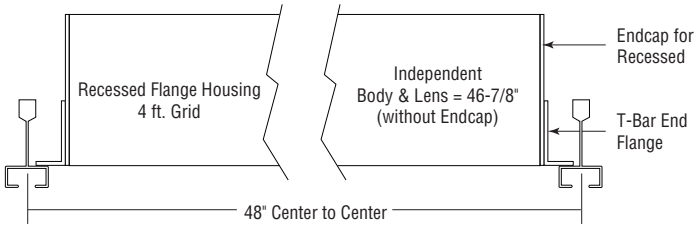
1" T-Bar



9/16" T-Bar

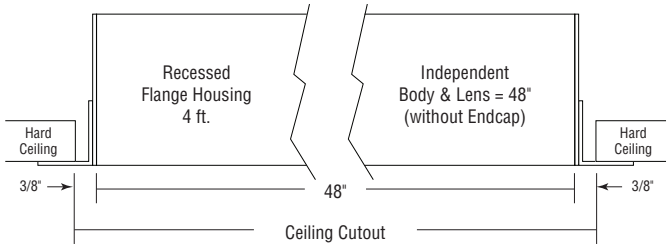


9/16" Screw Slot

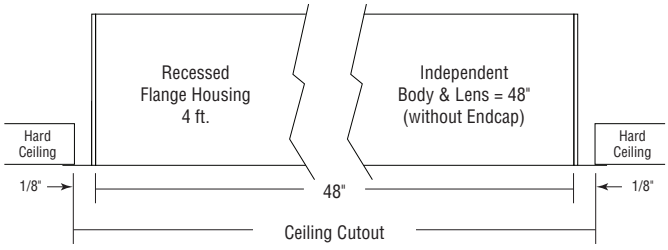


HARD CEILING LENGTH DETAIL - 4' example

Spackle Flange



Visible Flange



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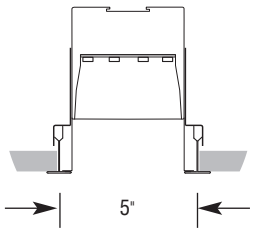
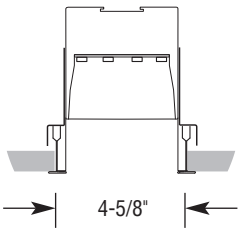
MOUNTING TYPES: T-BAR

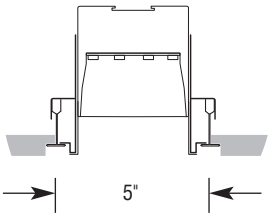
Rough-In Dimensions



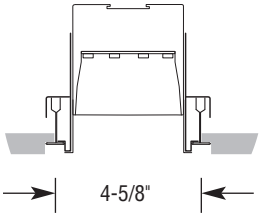
1" T-Bar (C1)



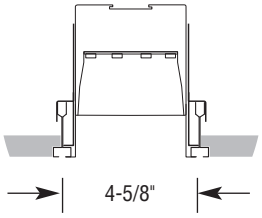
9/16" T-Bar (C2)



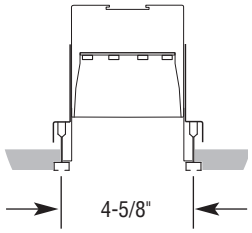
1" Tegular (C1T)



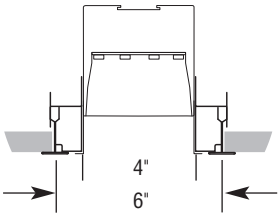
9/16" Tegular (C2T)



Flush Screw Slot (C3F)

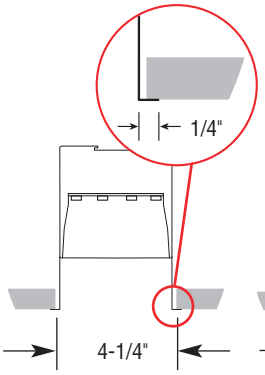


Standard Screw Slot (C3)

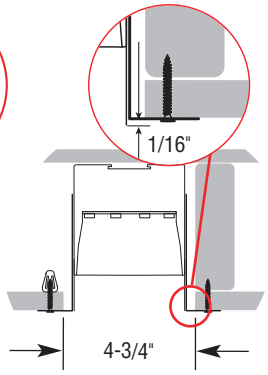


Tech Zone
(TZ6- C1, C2. C2T, C3, C3F)

MOUNTING TYPES: CUTOUT DIMENSIONS



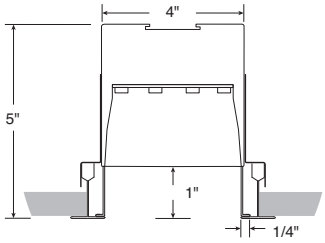
Visible Flange (VF)



Spackle Flange (SF)

REGRESSED LENS:

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



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

SPECIFICATIONS

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

ENDCAPS: Flat endcaps add 1/16" to each end of luminaire.

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 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 lifetime: 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.

Daylight Sensor Occupancy Sensor

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" (± 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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