

FINELITE Tunable White High Performance 4" (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.

ORDERING GUIDE

Sample Number: HP-4 RG - 32' - V - 8TW - 120V - SC - C1

Finelite Series HP-4 RG

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

Length / Pre-qualified Controls by Others (4', 8', 12' multiples standard)

Light Output (B - Boosted Standard, V - Very High)

LED CRI/CCT (8TW - 80 CRI min, Tunable White;

9TW - 90 CRI min, Tunable White.

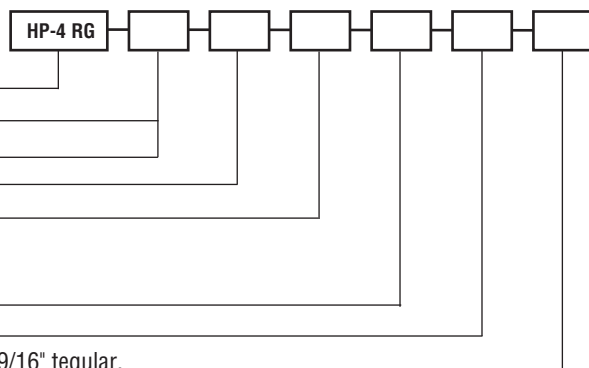
See below for Tunable White controls options)

Voltage (120V, 277V)

Circuiting (SC - Single Circuit)

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)¹



¹ See page 4 for additional mounting information.

TUNABLE WHITE CONTROLS OPTIONS: SELECT ONE



FineTune controller with FineTune DMX Driver

OR

Controls by others with pre-qualified DMX driver

Controls by others with pre-qualified DALI driver

Controls by others with pre-qualified PoE setup

Controls by Lutron with pre-qualified Lutron driver

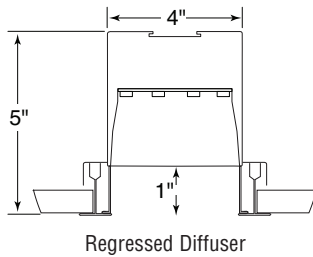
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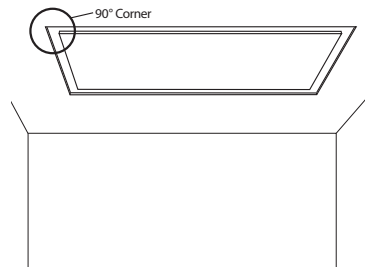
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LUMINAIRE FEATURES



DIMENSIONS & DIFFUSER

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



MITERED CORNERS

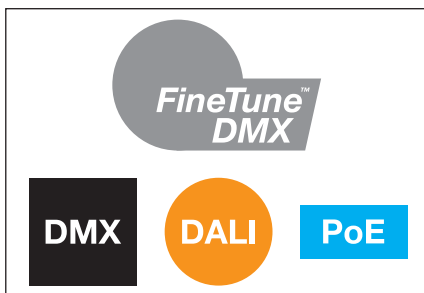
Fully illuminated corners have internal secondary diffusers to ensure against light leaks. Custom angles are available.



SEAMLESS ILLUMINATION

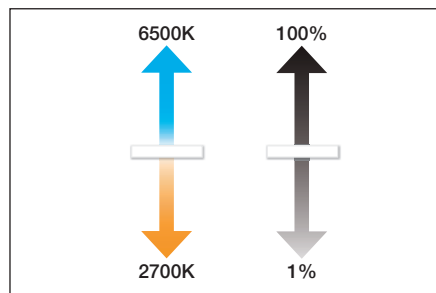
Internal secondary diffusers at corners ensure visually seamless, uniform, continuous illumination.

TUNABLE WHITE FEATURES



MULTIPLE CONTROL ARCHITECTURES

Finelite's FineTune™ DMX, qualified DMX, DALI (open and proprietary), or PoE (Power over Ethernet).



TUNABLE WHITE

Any CCT between 2700K and 6500K with excellent CRI and R9 values; dimming from 100% to 1%.



FINETUNE SYSTEM

Award-winning control system, which includes intuitive wall mounted controller, power control center, driver, and mobile app to easily tailor lighting to match user preference.

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PHOTOMETRY

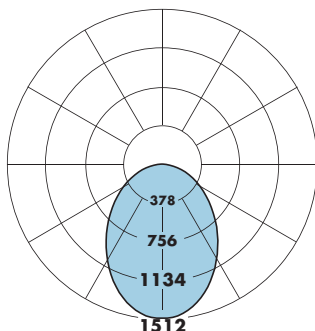
Very High Output - 4' Luminaire

Total luminaire output: 3477 Lumens (869 lumens/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	
B*	V**
1789	3477

Light Output, 3500K, 80 CRI (Lumens Per Foot)	
B*	V**
447	869

Power, 3500K (Watts Per Foot)	
B*	V**
4.6	9.3

Efficacy, 3500K, 80 CRI (Lumens Per Watt)	
B*	V**
97	94

B - Boosted Standard 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

2700K	0.968
3000K	0.985
3500K	1.000
4000K	1.032
6500K	1.032

Lumen Adjustment Factors - 90 CRI

2700K	0.731
3000K	0.746
3500K	0.760
4000K	0.789
6500K	0.789

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

SAMPLE LUMEN ADJUSTMENT CALCULATION

Boosted Standard Output (B), 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

*Total Light Output =
1789 lm x 0.789 = 1412 lm*

*Total Light Output per Foot =
447 lm/ft x 0.789 = 353 lm/ft*

watts/foot = 5.1 W/ft

$$\text{Efficacy} = \frac{353 \frac{\text{lm}}{\text{ft}}}{5.1 \frac{\text{W}}{\text{ft}}} = 69 \text{ lm/W}$$

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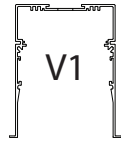
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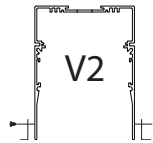
HOUSING

Housing With Extruded Flange (V1)

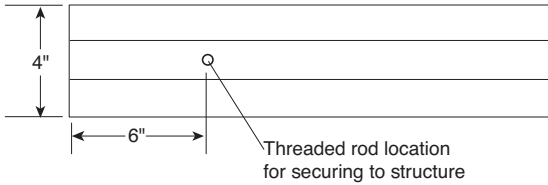


Ceiling Options
C1, C2, C3, VF

Housing Without Extruded Flange (V2) Ceiling Hardware Attached

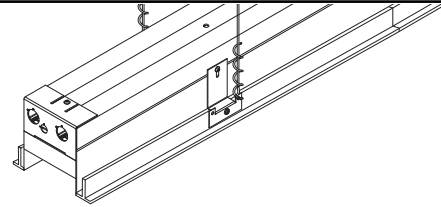


Ceiling Options
C1T, C2T, C3F,
SF, TZ6



SHEET ROCK INSTALLATION:

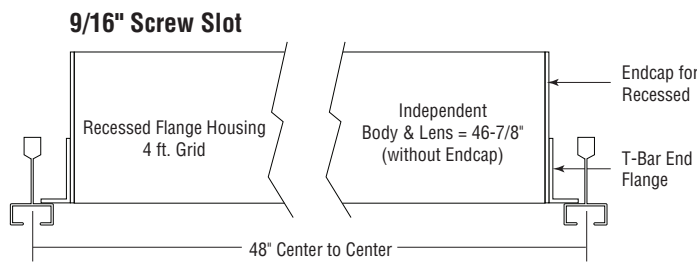
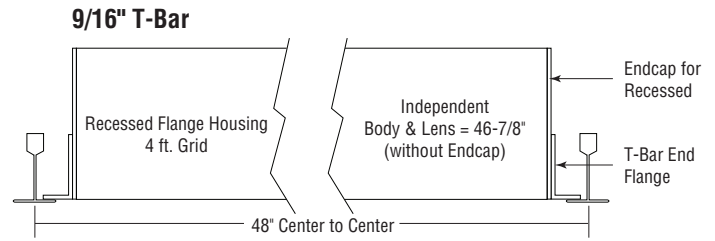
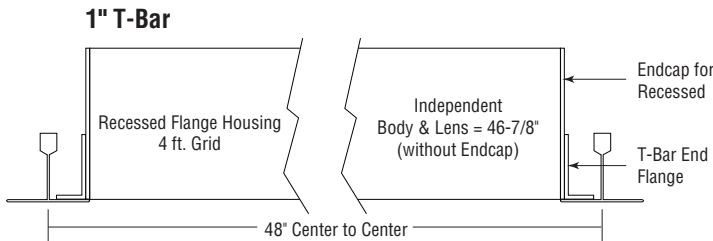
Flex conduit is secured to top of luminaire. Support to structure using threaded rod. Threaded rod support holes are located on each end of the luminaire.



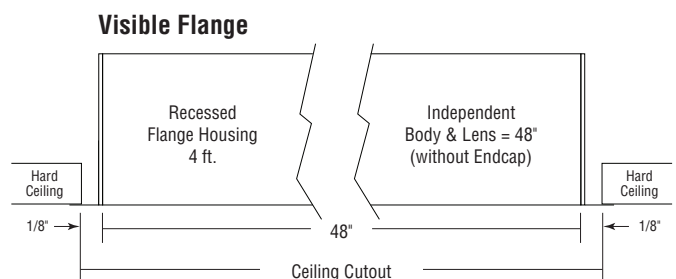
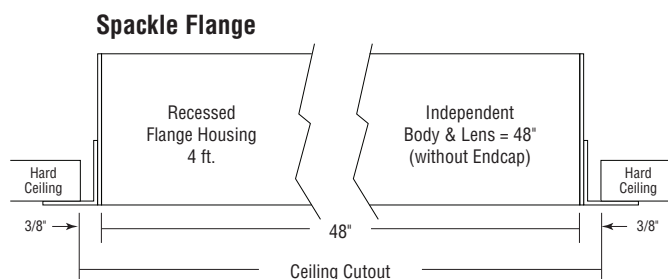
T-BAR INSTALLATION:

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



HARD CEILING LENGTH DETAIL - 4' example



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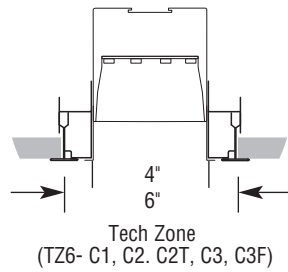
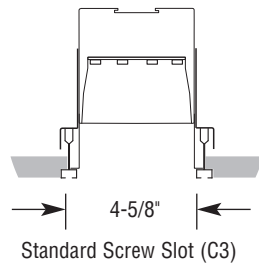
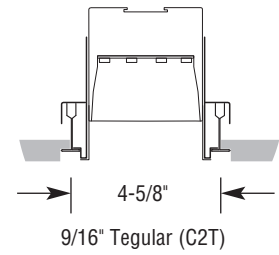
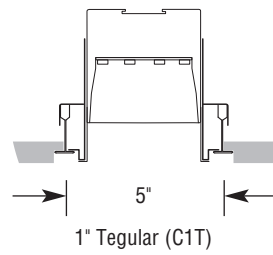
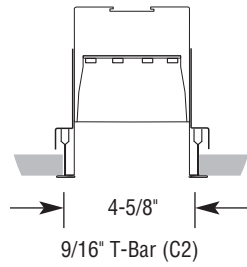
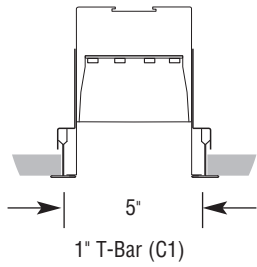
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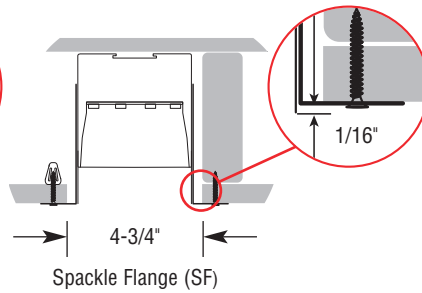
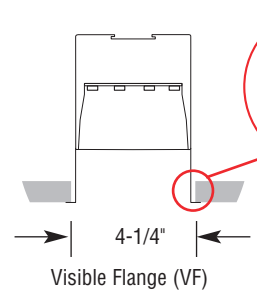
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MOUNTING TYPES: T-BAR

Rough-In Dimensions

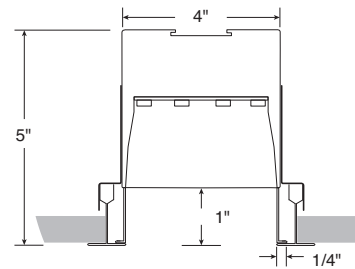


MOUNTING TYPES: CUTOUT DIMENSIONS



REGRESSED DIFFUSER:

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



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

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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 add 1/16" to each end of luminaire.

MITERED CORNER / FINETUNE ONLY: Illuminated 90° corners in a single plane, with Flush downlight diffuser, 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 diffuser length. Internal secondary diffusers at corners ensure visually seamless, uniform, continuous illumination. Frost white snap-in diffuser, 73% transmissive, 99% diffusion.

LIGHT OUTPUT: Two lumen packages available, Boosted Standard (**B**) 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.

TUNABLE WHITE DRIVER: Replaceable LED driver. Driver is accessible from below the ceiling. 120/277V. Power factor ≥ 0.9 . Total Harmonic Distortion (THD): $< 20\%$. Dimming Range: 100 - 1%. Expected driver life-time: 100,000 hours.

ELECTRICAL:

Emergency Option DMX: Battery backup only

Emergency Option DALI: Battery backup, emergency-to-generator/ Inverter wiring

Emergency Option LUTRON: Battery backup, emergency-to-generator/ inverter wiring

Emergency Option PoE: Contact factory.

Battery Backup: Factory-choice low-profile backup battery available. Chicago Plenum option. 8' minimum luminaire length for low profile battery pack. Backup batteries deliver 1300 lumens. Half of a 4' section will be illuminated in emergency mode. Backup battery will operate 6500K in emergency.

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.

DMX INTERCONNECTION CABLES: Luminaires are prewired with plug-and-play interconnection cables to support easy plug-together joining of luminaire runs. If a non-FineTune DMX system has been specified, a DMX to RJ45 converter is provided.

FEED: Standard with one 18-gauge single-circuit feed. 14-gauge feed used when luminaire current exceeds 5 amps. DMX and power feed at same location (standard). Optional 6' flex conduit whips available for power feed. DMX feeds cannot be cut or spliced. DMX feeds should be ordered based on fixed lengths.

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

LENGTHS / PRE-QUALIFIED CONTROLS BY OTHERS: 4', 8', and 12' sections can be combined to make longer runs.

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.

WEIGHT: 3.0 lb/ft.

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

TUNABLE WHITE PRE-QUALIFIED DRIVERS BY OTHERS

DMX	DALI	POE set up	LUTRON
EldoLED	EldoLED, Crestron	Contact Factory	LUTRON

NOTE: For a complete list of system option/limitations [please click here](#).

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