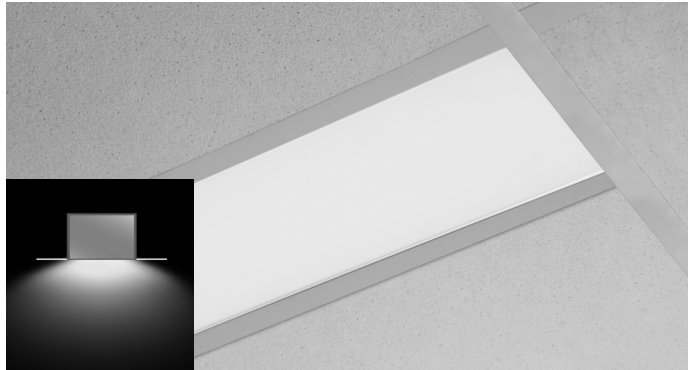


FINELITE

High Performance 6" Aperture (HP-6) - Recessed



Date

Project

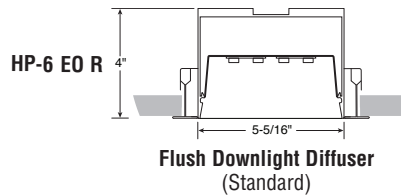
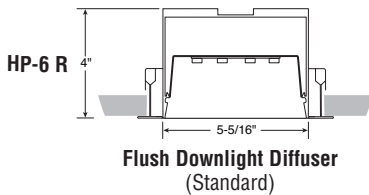
Type

Comments

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DESCRIPTION

High Performance 6" Aperture Recessed (HP-6 R) is a patented, linear recessed LED luminaire. Advanced optical design and mid-powered LEDs deliver an efficient, long-lasting luminaire free of glare and socket shadows. The Enhanced Output (EO) option significantly extends the lumen output range making it an ideal solution for high ceilings and high footcandle requirement applications.



DIMENSIONS & LIGHT ENGINE

A glare-free experience is attained with mid-powered LEDs properly distributed and paired with a precise diffuser to eliminate pixelation.

Tailored Lighting* 10 working days

- Static white output options: Standard (S), Boosted Standard (B), High (H), Very High (V), and Extremely High (X). Refer to ordering guide below for specific output availability.
- Any length greater than 2 feet, in increments down to 1/16" (± 1/32")
- 90-degree mitered corners in a single plane
- 80+ or 90+ CRI

* Air Return luminaire excluded.

ORDERING GUIDE: Sample Number: HP-6 R - 32' - S - 835 - F - 120V - SC - C1 - OBO - AR

Finelite HP-6 R	<input type="checkbox"/>
HP-6 EO R	<input type="checkbox"/>
Length (Minimum 2', increments accurate to 1/16" (± 1/32"), standard)	<input type="text"/>
HP-6 R Light Output (S - Standard, B - Boosted Standard, H - High, V - Very High)	<input type="text"/>
HP-6 EO R Light Output (H - High, V - Very High, X - Extremely High)	<input type="text"/>
LED CRI/CCT (830 - 80 CRI min, 3000K 930 - 90 CRI min, 3000K	<input type="text"/>
835 - 80 CRI min, 3500K 935 - 90 CRI min, 3500K	<input type="text"/>
840 - 80 CRI min, 4000K 940 - 90 CRI min, 4000K)	<input type="text"/>
Downlight Diffuser (F - Flush (standard))	<input type="text"/>
Voltage (120V , 277V , 347V)	<input type="text"/>
Circuiting (SC - Single Circuit) ¹	<input type="text"/>
Ceiling Type (C1 - 1" T-Bar, C2 - 9/16" T-Bar, C3 - screw slot, C3F - flush screw slot, VF - Visible Flange,	<input type="text"/>
C2T - 9/16" Tegular, C1T - 1" Tegular, SF - spackle flange, TZ6 (C2, C2T, C3, C3T) - Tech Zone 6")	<input type="text"/>
Integrated Sensor (OBO - Occupancy Sensor, OBD - Daylight)	<input type="text"/>
Air Return (AR - Air Return) ²	<input type="text"/>

¹ Contact factory for switching options.

² Air Return not available on VF - Visible Flange, SF - Spackle Flange or Tech Zone 6".

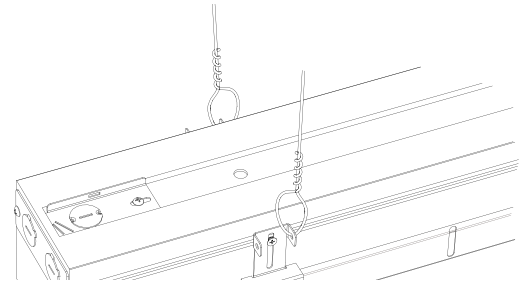
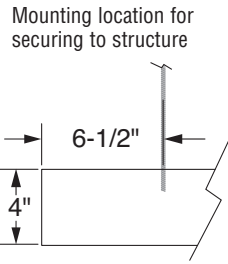
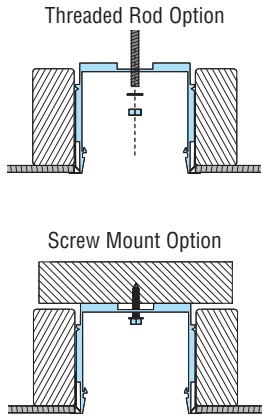
Protected by one or more US Patents: 8915613; D702,391; D702,390; D700,732; D727,554 S; D727,550 S, D727,551 S

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

FINELITE

High Performance 6" Aperture (HP-6) - Recessed



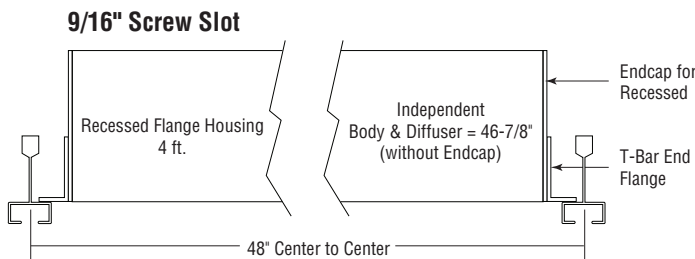
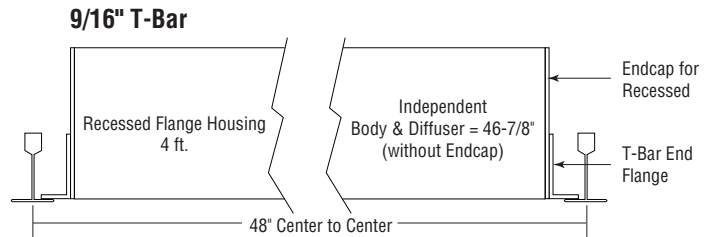
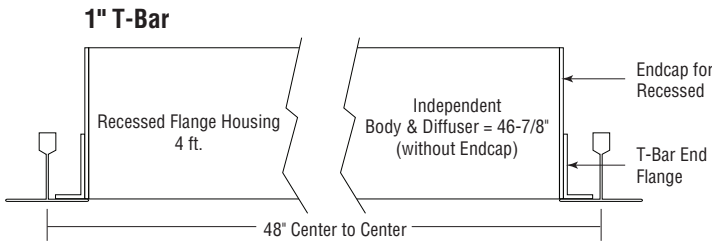
T-BAR INSTALLATION:

HP-6 R and HP-6 EO R 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.

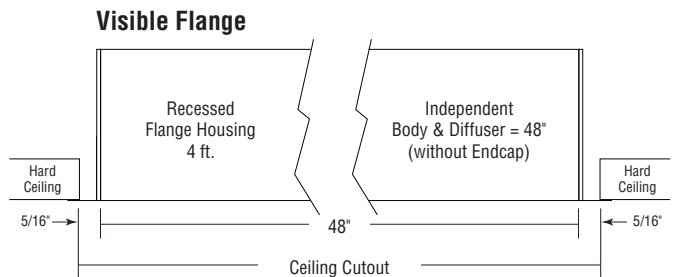
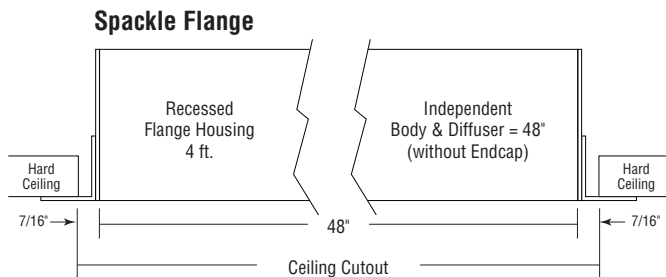
HARD CEILING MOUNTING OPTIONS

Two mounting options: threaded rod and screw mounting options. Mounting locations are located on each end of the luminaire. Mounting location is 6-1/2" away from each end of luminaire.

GRID LENGTH DETAIL - 4' example



HARD CEILING LENGTH DETAIL - 4' example

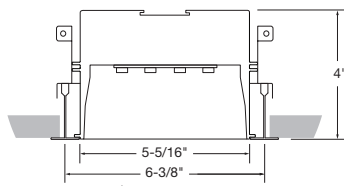


FINELITE

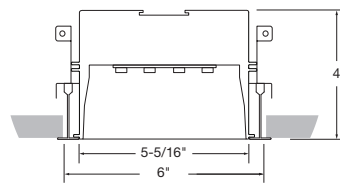
High Performance 6" Aperture (HP-6) - Recessed

MOUNTING TYPES: T-BAR

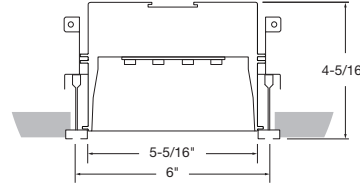
Rough-In Dimensions



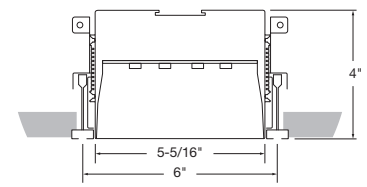
1" T-Bar (C1)



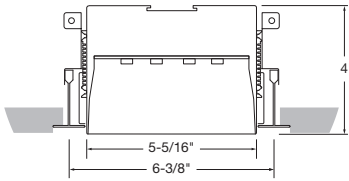
9/16" T-Bar (C2)



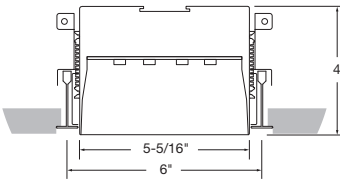
Standard Screw Slot (C3)



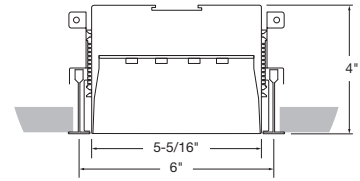
Flush Screw Slot (C3F)



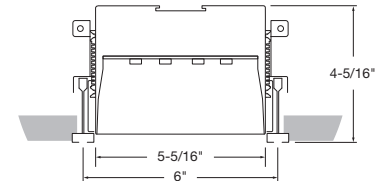
1" Tegular (C1T)



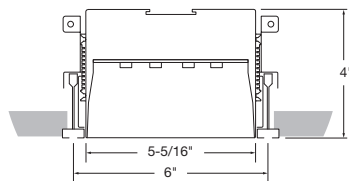
9/16" Tegular (C2T)



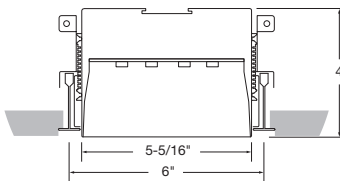
Tech Zone 6" (TZ6)
9/16" T-Bar (C2)



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

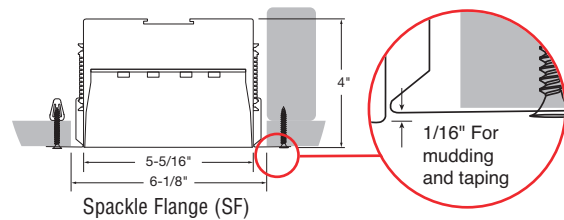


Tech Zone 6" (TZ6)
Flush Screw Slot (C3F)

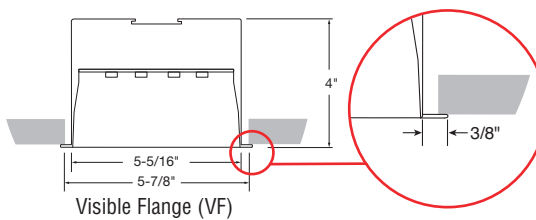


Tech Zone 6" (TZ6)
9/16" Tegular (C2T)

MOUNTING TYPES: CUTOUT DIMENSIONS



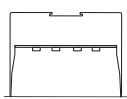
Spackle Flange (SF)



Visible Flange (VF)

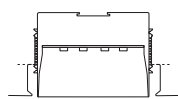
HOUSING

Version 1



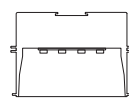
Ceiling Option
VF

Version 2



Ceiling Options
C1T, C2T, C3F, SF, TZ6

Version 3



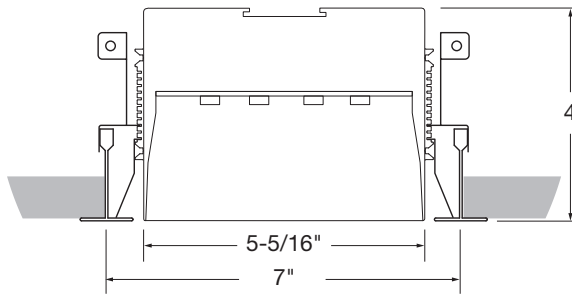
Ceiling Options
C1, C2, C3

FINELITE

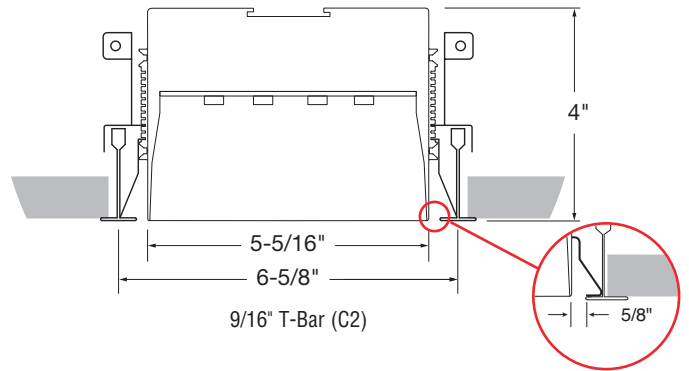
High Performance 6" Aperture (HP-6) - Recessed

AIR RETURN MOUNTING TYPES: T-BAR

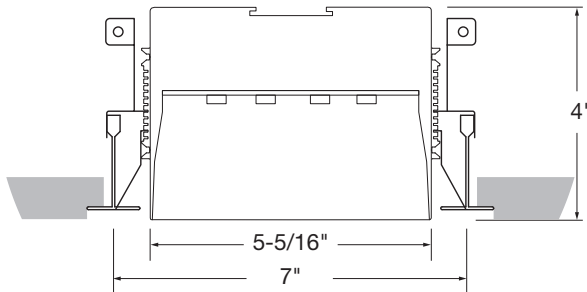
Rough-In Dimensions



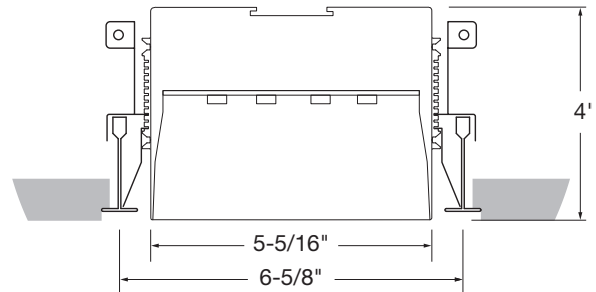
1" T-Bar (C1)



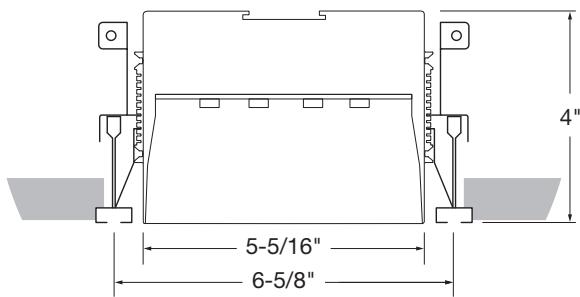
9/16" T-Bar (C2)



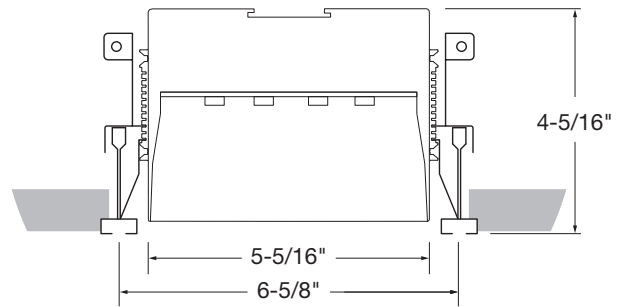
1" Tegular (C1T)



9/16" Tegular (C2T)



Flush Screw Slot (C3F)



Standard Screw Slot (C3)

AIR RETURN

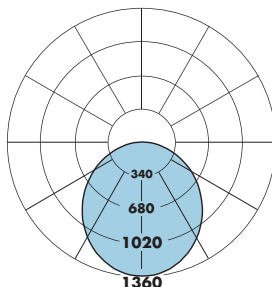


FINELITE

High Performance 6" Aperture (HP-6) - Recessed

HP-6 R PHOTOMETRY

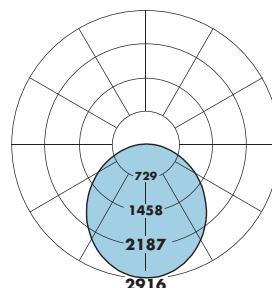
Very High Output - 4' Luminaire
 Efficacy: 100 lumens per watt
 Total luminaire output: 3769 lumens (942 lumens/foot)
 37.6 watts (9.4 watts/foot)
 CRI: 80
 CCT: 3500K
 ITL LM79 Report: 86098



CANDELA DISTRIBUTION						
	0.0	22.5	45	67.5	90	Flux
0	1360	1360	1360	1360	1360	1360
5	1353	1353	1353	1354	1354	129
10	1334	1331	1332	1334	1331	
15	1301	1293	1299	1300	1294	366
20	1257	1245	1252	1250	1244	
25	1193	1183	1192	1189	1185	547
30	1123	1114	1120	1117	1114	
35	1043	1034	1039	1036	1034	649
40	955	949	954	950	949	
45	865	858	862	859	856	663
50	767	761	764	761	760	
55	668	662	665	661	662	593
60	567	561	563	561	561	
65	465	460	461	460	459	456
70	363	359	360	359	358	
75	263	261	261	260	261	277
80	170	168	169	169	170	
85	81	80	80	79	81	89
90	0	0	0	0	0	

HP-6 EO R PHOTOMETRY

Very High Output - 4' Luminaire
 Efficacy: 110 lumens per watt
 Total luminaire output: 8026 lumens (2007 lumens/foot)
 73.2 watts (18.3 watts/foot)
 CRI: 80
 CCT: 3500K
 ITL LM79 Report: 89078



CANDELA DISTRIBUTION						
	0.0	22.5	45	67.5	90	Flux
0	2915	2915	2915	2915	2915	2915
5	2092	2900	2900	2901	2900	276
10	2859	2853	2857	2857	2854	
15	2781	2765	2783	2784	2774	783
20	2676	2656	2675	2680	2667	
25	2542	2527	2544	2544	2535	1169
30	2387	2370	2389	2389	2382	
35	2218	2197	2217	2213	2208	1383
40	2030	2012	2031	2024	2023	
45	1833	1819	1832	1829	1825	1410
50	1628	1616	1627	1623	1624	
55	1414	1404	1413	1409	1408	1261
60	1197	1189	1195	1197	1193	
65	981	974	979	978	979	968
70	768	761	763	763	765	
75	559	555	554	553	556	589
80	365	357	357	360	359	
85	174	167	167	170	167	187
90	0	0	0	0	0	

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire						
HP-6 R*				HP-6 EO R**		
S	B	H	V	H	V	X
1543	1940	2931	3769	6242	8026	9082

Light Output, 3500K, 80 CRI (Lumens Per Foot)						
HP-6 R*				HP-6 EO R**		
S	B	H	V	H	V	X
386	485	733	942	1561	2007	2271

Power (Watts Per Foot)						
HP-6 R*				HP-6 EO R**		
S	B	H	V	H	V	X
3.7	4.7	7.2	9.4	14.0	18.3	21.1

Efficacy, 3500K, 80 CRI (Lumens Per Watt)						
HP-6 R*				HP-6 EO R**		
S	B	H	V	H	V	X
105	104	102	100	111	110	108

* Family Correlation based on 4' luminaire 3500K, 80 CRI Very High Output (V) test - 120V. ITL report, 86098
 ** Family Correlation based on 4' luminaire 3500K, 80 CRI Very High Output (V) test - 120V. ITL report, 89078
S - Standard, B - Boosted Standard Output, H - High Output, V - Very High Output, X - Extremely High Output

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

HP-6 R High Output (H), 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

Total Light Output =

2931 lm x 0.789 = 2313 lm

Total Light Output per Foot =

733 lm/ft x 0.789 = 578 lm/ft

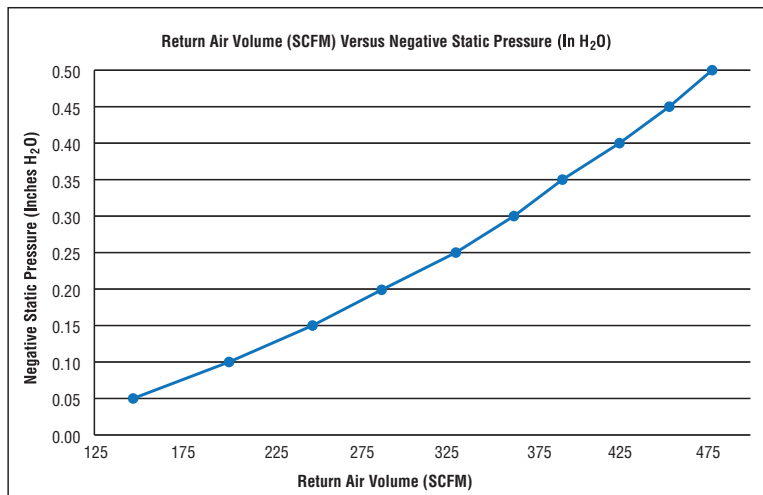
watts/foot = 7.2 W/ft

$$\text{Efficacy} = \frac{578 \frac{\text{lm}}{\text{ft}}}{7.2 \frac{\text{W}}{\text{ft}}} = 80 \text{ lm/W}$$

FINELITE

High Performance 6" Aperture (HP-6) - Recessed

AIR HANDLING INFORMATION



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 of end run add 1/16" to overall length.

MITERED CORNERS: Fully illuminated 90° corners have double-diffusers to ensure against light leaks. Custom angles are available (90° minimum on inside corners). Contact Factory.

REFLECTORS: Die-formed 24-gauge cold-rolled steel reflectors are finished in 96 LG high reflectance matte white powder coat paint.

DOWNLIGHT DIFFUSER: 12' maximum diffuser length. Internal secondary diffusers at corners, joints and seams ensure visually seamless, uniform, continuous illumination. Flush frost white snap-in diffuser, 73% transmissive, 99% diffusion.

LIGHT OUTPUT: Lumen packages available for **HP-6 R:** Standard Output (**S**), Boosted Standard Output (**B**), High Output (**H**), and Very High Output (**V**). Lumen packages available for **HP-6 EO R:** High Output (**H**), Very High Output (**V**), and Extremely High Output (**X**). A separate chart summarizes lumen distribution and wattage.

LIGHT ENGINE: The replaceable light engines are made up of high performance mid-power LEDs and designed to distribute heat properly to maximize the life of the LEDs and the driver.

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% 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 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. 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 1885 lumens (2007 lumens for EO). 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.

AIR RETURN: Luminaire tested in accordance with ADC1062 and ASHRAE 70. Air Return slots positioned along outside edge of luminaire. Contact factory for availability.

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.

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 2011/65/EU.

WEIGHT: HP-6 R: 3.7 lb/ft
HP-6 EO R: 3.85 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.