

Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance Wall Grazer (HP-WG)



The High Performance Wall Grazer (HP-WG) is a perimeter luminaire that creates a uniform grazing distribution of light down the vertical surface of a wall. The light separates the wall and the ceiling plane and accentuates relief and patterns of textured vertical surfaces. Available in 2", 4", and 6" regressed optic options.

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 **Red List Declared** status.

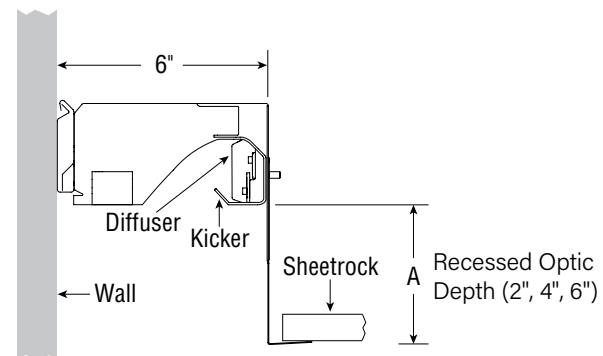
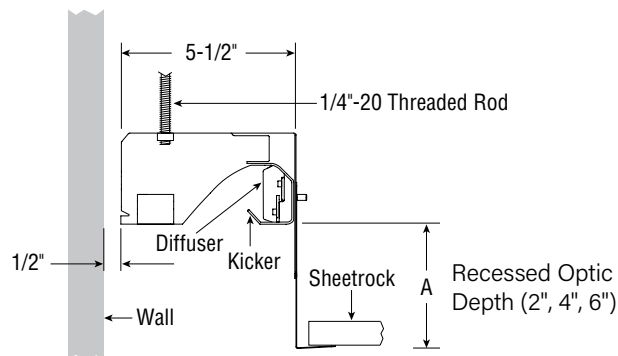
6"W x 6"D Flat Endcap (shown)

DIMENSIONS & LIGHT ENGINE

The grazing distribution is attained with mid-power LEDs distributed evenly and paired with a precise regressed diffuser.

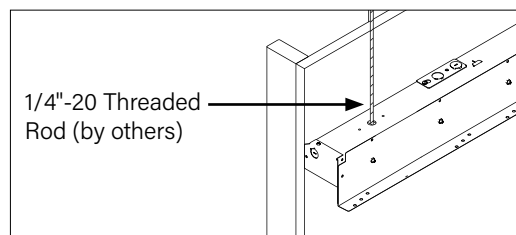
Threaded-Rod Spackle Flange Mounting

Wall Bracket Spackle Flange Mounting



FEATURES

POST-CEILING THREADED-ROD (TR) MOUNTING INSTALLATION



Allows a luminaire to be installed after ceiling framing is complete.



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BODY TYPE				OUTPUT and LED TYPE	
Platform	Series Name	Optic Width	Regressed Optic Depth	Total Length of Run	Light Output
HP - High Performance	WG - Wall Grazer	6W - 6" Width	2D - 2" Depth 4D - 4" Depth 6D - 6" Depth	<hr/> Minimum 2' increments accurate to 1/16" (± 1/32"), standard	S - Standard (264 lm/ft) B - Boosted Standard (332 lm/ft) H - High (501 lm/ft) V - Very High (645 lm/ft) TL - Tailored: _____lm/ft*

OUTPUT and LED TYPE		MECHANICAL/OPTICAL OPTIONS		ELECTRICAL OPTIONS	
LED CRI/CCT	Reflector System	Voltage	Circuiting		
830 - 80 CRI, 3000K 835 - 80 CRI, 3500K 840 - 80 CRI, 4000K 930 - 90 CRI, 3000K 935 - 90 CRI, 3500K 940 - 90 CRI, 4000K 8TW - 80 CRI, Tunable White 9TW - 90 CRI, Tunable White	SSA - Semi-Specular Aluminum	120 - 120 Voltage 277 - 277 Voltage 347 - 347 Voltage (OTi only)	SC - Single Circuit* One single circuit in a run		

* Battery, Night Light, and Emergency to Generator circuits are in addition to the normal luminaire circuit(s)

ELECTRICAL OPTIONS		MOUNTING OPTIONS		
Driver Selection		Mounting Method	Hardware	
0-10V Driver Options FC-10% - 0-10V 10% (standard) FC-1% - 0-10V 1% OTi-10% - EldoLED OTi, 0-10V 10% ¹ OTi-1% - EldoLED OTi, 0-10V 1% ¹ ELD-10V-0% - EldoLED SOLOdrive, 0-10V 0.1% 10V-TW-10% - EldoLED OTi, 0-10V 10% (Tunable White) ¹ DALI Driver Options FC-DALI-1% - DALI 1% DXL-DALI-1% - EldoLED Dexal, 1% ELD-DALI-0% - EldoLED SOLOdrive, 0.1% ELD-DALI-TW - EldoLED DUAL Drive LightShape, 0.1% (Tunable White)		DMX Driver Options ELD-DMX - EldoLED POWERdrive, 0.1% ELD-DMX-TW - EldoLED POWERdrive, 0.1% (Tunable White) Lutron Driver Options LUT-ES1 - Lutron, Ecosystem 1% LUT-TW - Lutron LD2 Dali-2 1% (Tunable White)	TR - Threaded Rod ² WB - Wall Bracket ³	C1 - 15/16" T-Bar C2 - 9/16" T-Bar C3 - Screw Slot SF - Spackle Flange C1T - 15/16" Tegular C2T - 9/16" Tegular

See Page 3 for additional driver options and details

OTHER OPTIONS					
End Condition ⁴		Finish	Emergency Style (Optional)	Integrated Sensor (Optional)	Special Options (Optional)
Left FE-L - Flat Endcap (standard) PE-L - Pocket Slot	Right FE-R - Flat Endcap (standard) PE-R - Pocket Slot	SW - Signal White (standard)	LGD18W - Legrand 18W Brand Battery Back-up LGD10W - Legrand 10W Brand Battery Back-up EM/GEN - Emergency to Generator NL - Night Light BSL310LP - Bodine Battery Back up Low Profile GTD - Generator Transfer Device ALCR - Automatic Load Control Relay	REE - Remote Enlighth ⁵	CP - Chicago Plenum RLA - Red List Approved RLD - Red List Declared

¹ Add DTO to gain "Dim to Off" functionality (FC-10% - DTO, FC-1% - DTO)
² Pre- or post-ceiling
³ Pre-ceiling only

⁴ The end condition on each side can be specified with different hardware options to accommodate different installation features. See page 4 for more information.
⁵ Enlighth Control Unit & Sensor Cable installed for Remote mounting sensor.

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SUPPLEMENTARY DRIVER PAGE

0-10V Driver Options

FC-10%	Factory Choice, 0-10V 10% Dimming (Linear)
FC-10%-DTO	Factory Choice, 0-10V 10% Dimming, Dim-to-Off (Linear)
FC-1%	Factory Choice, 0-10V 1% Dimming (Linear)
FC-1%-DTO	Factory Choice, 0-10V 1% Dimming, Dim-to-Off (Linear)
ELD-10V-0%	EldoLED SOLOdrive, 0-10V 0.1% Dimming (Linear)
ELD-10V-1%	EldoLED ECOdrive, 0-10V 1% Dimming (Linear)
10V-TW-10%	EldoLED OTi, 0-10V 10% Dimming, Tunable White (Linear)
10V-TW-10%-DTO	EldoLED OTi, 0-10V 10% Dimming, Dim-to-Off, Tunable White (Linear)
OTi-10%	EldoLED OTi, 0-10V 10% Dimming (Linear)
OTi-10%-DTO	EldoLED OTi, 0-10V 10% Dimming, Dim-to-Off (Linear)
OTi-1%	EldoLED OTi, 0-10V 1% Dimming (Linear)
OTi-1%-DTO	EldoLED OTi, 0-10V 1% Dimming, Dim-to-Off (Linear)

DALI Driver Options

FC-DALI-1%	Factory Choice, DALI 1% Dimming (Logarithmic)
DXL-DALI-1%	EldoLED Dexal, DALI 1% Dimming (Logarithmic)
ELD-DALI-0%	EldoLED SOLOdrive, DALI 0.1% Dimming (Logarithmic)
ELD-DALI-1%	EldoLED ECOdrive, DALI 1% Dimming (Logarithmic)
ELD-DALI-TW	EldoLED DUALdrive Light Shape, DALI 0.1% Dimming, Tunable White (Logarithmic Dimming, Linear CCT Control)

DMX Driver Options

ELD-DMX	EldoLED POWERdrive, DMX 0.1% Dimming (8 Bit, 1CH) (Linear)
ELD-DMX-16	EldoLED POWERdrive, DMX 0.1% Dimming (16 Bit, 2CH) (Linear)
ELD-DMX-TW	EldoLED POWERdrive, DMX 0.1% Dimming, Tunable White (8 Bit, 2CH - CH1 Warm / CH2 Cool) (Linear)
ELD-DMX-TW16	EldoLED POWERdrive, DMX 0.1% Dimming, Tunable White (16 Bit, 4CH - CH1, 2 Warm / CH3, 4 Cool) (Linear)

Lutron Driver Options

LUT-ES1	Lutron, Ecosystem 1% Dimming
LUT-TW	Lutron LD2 Dali-2 1%, Tunable White

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SPECIFICATIONS

BODY TYPE

CONSTRUCTION: Precision cut 6063-T6 extruded aluminum visible flange and reflector carrier. Internal joiner system, plug-together wiring standard. Steel sheet metal galvanized and powder coated body.

LENGTHS: Any length, 2-foot minimum, in increments down to 1/16" (± 1/32"). 8-foot maximum section length.

OUTPUT AND LED TYPE

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.

MECHANICAL/OPTICAL OPTIONS

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

REFLECTORS: 97% reflective semi-specular aluminum reflector provides reflectivity and glare control.

DIFFUSERS: Frosted diffusers are 0.040". All diffusers are UV-stabilized and impact resistant virgin acrylic.

ELECTRICAL OPTIONS

STATIC WHITE FEED: Standard with one 18-gauge/5-conductor single-circuit feed. 14-gauge feed used when luminaire current exceeds 5 amps. Optional 6 foot flex conduit whips available. Dual knockouts (for dual flex conduit) are available at the top and rear feed locations. Endcaps have a single knockout and support a single flex conduit only.

TUNABLE WHITE FEED: Standard with one 18-gauge/5-conductor single-circuit feed. 14-gauge feed used when fixture current exceeds 5 amps. DMX and power feed at same location (standard). DMX feeds cannot be cut or spliced. DMX feeds should be ordered based on fixed lengths.

0-10V:

- One 18-gauge / 3-conductor power
- One 18-gauge / 4-conductor for dimming and controls

Dali:

- One 18-gauge / 5-conductor power and controls

DMX:

- One 18-gauge / 3-conductor power
- One DMX feed

STATIC WHITE 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 100%-10% standard. Dimming to 1% available. Separate dimming for uplight and downlight available. Driver is fully accessible from below the ceiling.

- **Power Factor:** ≥ 0.9
- **Total Harmonic Distortion (THD):** <20%
- **Expected driver lifetime:** 100,000 hours

LUTRON STATIC DRIVER OPTIONS:

LUT-ES1 - Hi-lume 1% EcoSystem with Soft-On, Fade-to-Black dimming (LDE1 series).

TUNABLE WHITE DRIVER: Replaceable LED driver. Driver is accessible from below the ceiling. 120V and 277V.

- **Power factor:** ≥0.90
- **Total Harmonic Distortion (THD):** <20%
- **Dimming Range:** 100%-10%
- **Expected Driver Lifetime:** 100,000 hour

LUTRON TUNABLE WHITE DRIVER OPTION: LUT-TW - Lutron LD2 Dali-2 1%, Tunable White.

MOUNTING OPTIONS

HANGING HARDWARE: The standard mounting Threaded Rod (**TR**) option eliminates the need to install luminaires prior to the slot being framed. Luminaire mounts on threaded rods. Optional Mounting Bracket (**MB**) installation includes wall bracket that is attached to the wall. Luminaires are then snapped onto brackets. Luminaire installation that uses the mounting bracket must be performed before the perimeter slot framing is built.

OTHER OPTIONS

ENDCAPS: The luminaire can terminate in two different end conditions to accommodate project needs. Endcaps are made of 20-gauge die-formed powder-coated steel. Flat (standard) Endcap adds 1/8". Pocket Slot Endcap adds 1-1/4".

END CONDITIONS:

- **FLAT (standard) (FE-L or FE-R):** Is used when the luminaire terminates at a wall. Adds 1/8" per endcap to overall length of the luminaire.
- **POCKET SLOT (PE-L or PE-R):** Includes the necessary hardware to accommodate ceiling materials when the luminaire doesn't terminate at a wall. Adds 1-1/4" for Spackle Flange and 1" for T-Bar per endcap to overall length of the luminaire.

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SPECIFICATIONS

EMERGENCY STYLE: Optional emergency to generator/inverter wiring, internal generator transfer switch, nightlight wiring, backup battery. Factory-choice low-profile backup battery available. Optional fusing is available.

Backup Battery		
	Legrand 18W	Legrand 10W / Bodine 310LP
HP-WG-6W-2D		
Min. Housing Length	8'*	8'
EM Lumen Output	1290	768
EM Section Illuminated	4'	4'

* Minimum fixture housing length for battery pack approved without sensor
The lumens are based on 835. For other CCT/CRI, refer to the Lumen Adjustment Factor table on page 6.

FINISHES: Finelite Signal White powder coat finish standard. Optional adder: 179 colors¹ available using RAL color chart. Custom color applies to the visible T-Bar flange.

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 410.130 (G), this luminaire contains an internal driver disconnect. UL 924 and UL 2108 - PoE options available on request. IC-Rated. Chicago Plenum Option available. These fixtures are rated for 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 2015/863. Consult factory for tailored lighting options. Finelite makes the specification process easy when putting healthier products on your projects. Simply add - **RLA** (Red List Approved) or - **RLD** (Red List Declared Label) to your part number.

WEIGHT:

- Threaded-rod luminaire 4.5 lb/ft.
- Wall Bracket luminaire 5 lb/ft.

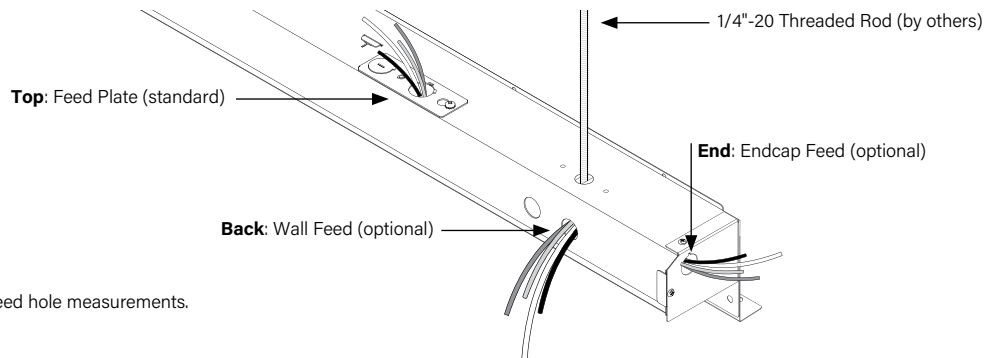
WARRANTY: 10-year performance-based warranty on all standard components. Optional accessories such as emergency battery packs are covered by their individual manufacturer warranties.

¹ 20 business day lead time for color

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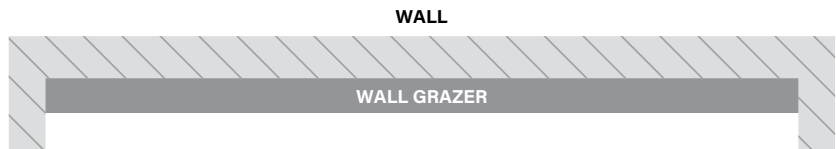
FEED OPTIONS



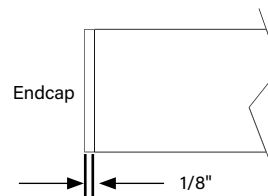
Refer to installation instructions for feed hole measurements.

ENDCAP OPTIONS

STANDARD FLAT (FE-L OR FE-R)

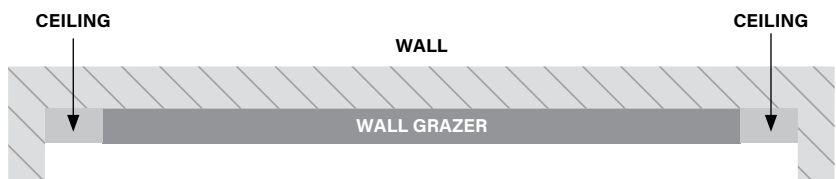


Flat end condition when luminaire terminates at a vertical surface such as a wall.

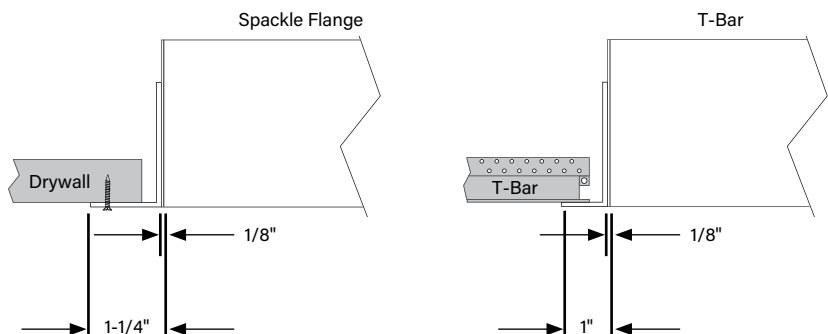


Add 1/8" per endcap. Spackle Flange version shown, T-Bar available.

POCKET SLOT (PE-L OR PE-R)



Pocket slot end condition when slot terminates before meeting additional vertical wall surface.



Adds 1-1/4" for Spackle Flange and 1" for T-Bar (includes endcap dimension 1/8") per endcap to the housing length on shop drawings. T-Bar version shown, Spackle Flange available.

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Photometry - 4' Luminaire 3500K

6"W x 2"D

Very High Output - 120V

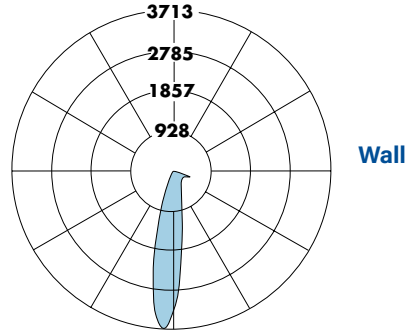
Efficacy: 70 lumens per watt

Total luminaire output: 2578 lumens (645 lm/ft)
36.9 watts (9.2 W/ft)

Peak Candela Value: 3674 @ 5°

CRI: 80 / CCT: 3500K

ITL LM79 Report 88542



CANDELA DISTRIBUTION						
	0.0	45	90	135	180	Flux
0	3274	3274	3274	3274	3274	
5	2070	2441	3253	3674	3632	274
15	787	1093	3060	2408	1367	527
25	456	628	2670	759	197	491
35	335	420	2134	129	25	401
45	294	312	1542	26	2	312
55	265	253	984	4	0	231
65	341	241	534	1	0	179
75	238	273	217	0	0	121
85	33	30	35	0	0	24
90	31	27	0	0	0	

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

	S ¹	B ¹	H ¹	V ²
6"W x 2"D	1055	1327	2005	2578

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

	S ¹	B ¹	H ¹	V ²
6"W x 2"D	264	332	501	645

Power, 3500K, 80 CRI (Watts Per Foot)

	S ¹	B ¹	H ¹	V ²
6"W x 2"D	3.6	4.6	7.1	9.2

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

	S ¹	B ¹	H ¹	V ²
6"W x 2"D	73	72	71	70

Sample Lumen Adjustment Calculation

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

High Output (H) 4000K, 90 CRI

Lumen Adjustment Factor: 0.789

Total Light Output: 2005 lm x 0.789 = 1582 lm

Total Light Output per Foot: 501 lm/ft x 0.789 = 395 lm/ft.

watts/foot: 7.1 W/ft.

$$\text{Efficacy} = \frac{395 \frac{\text{lm}}{\text{ft.}}}{7.1 \frac{\text{W}}{\text{ft.}}} = 56 \text{ lm/W}$$

Notes

– Refer to LM-79 reports for other configurations.

Wattage is Real Power. If you would like additional details to calculate Apparent Power, please contact your local Finelite representative.

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

¹ Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

² Based on ITL report: 88542

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0-10V Tunable White

Finelite's award-winning, contractor friendly Tunable White luminaires are available at low cost, with powerful and simple 0-10V tuning and intensity controls.

TUNABLE WHITE FEATURES

- CCT range: 2700K - 6500K
- Dimming Range: 100% to 10%
- CRI Options: 80 CRI or 90 CRI

Note:
Dim to Off options available.

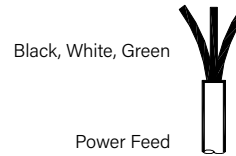
PHOTOMETRY

Apply a power adjustment factor to calculate wattage usage

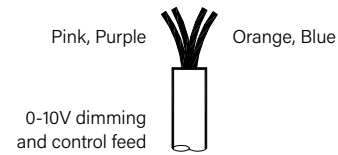
POWER	CONVERSION FACTOR
	1.1X

(Example: a 50 watt luminaire in static white would draw 55 watts using 0-10V Tunable White)

DUAL FEED DETAIL



WIRING LEGEND		
Black	Hot	Line Voltage
White	Neutral	Line Voltage
Green	Ground	



WIRING LEGEND		
Pink	Dimming	0-10V DC
Purple	Dimming	0-10V DC
Orange	TW	0-10V DC
Blue	TW	0-10V DC