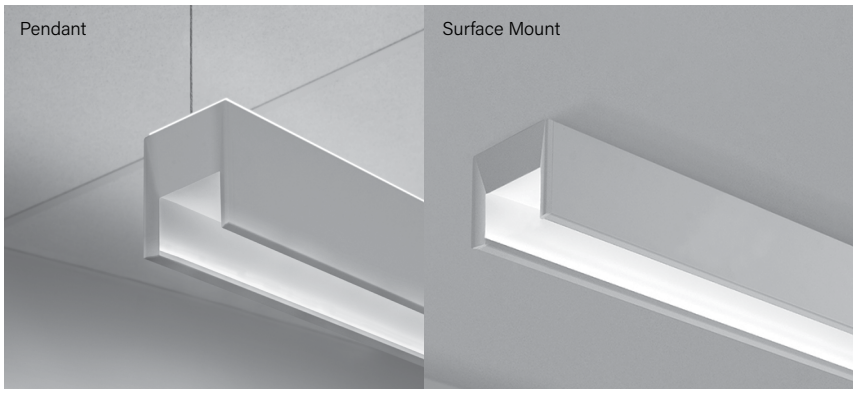
Submitted by:		Date: SSSS
Type:	Project:	
Ordering Info:		

FINELITE®
Better Lighting

High Performance Open 4" Aperture (HO4)
Pendant and Surface Mount



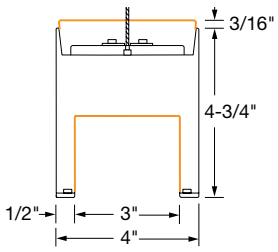
Signal White is standard finish

HO4 is a 4" luminaire with open aperture. Uplight Optical distribution options include standard lambertian, widespread and asymmetric patterns enabling more energy efficient building designs. Advanced optical design and mid-power LEDs achieve 90% of initial light output at 60,000+ hours.

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.

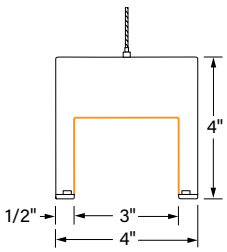
CROSS SECTIONS

Indirect/Direct
Top Glow
(standard)



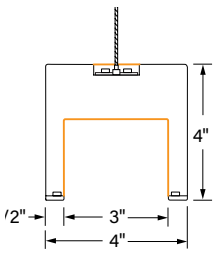
Open
(standard)

Direct



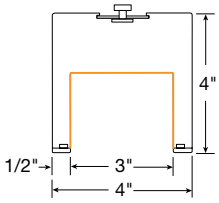
Open
(standard)

Uplight/Downlight
Flush
(standard)



Open
(standard)

Surface Mount



Open
(standard)

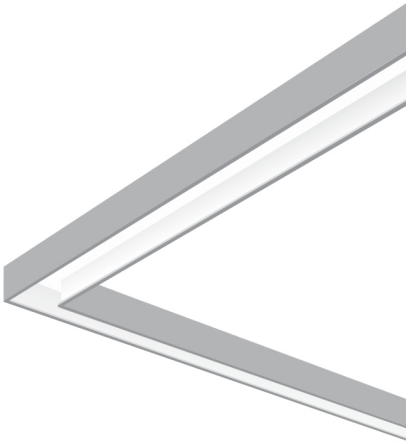
DIMENSIONS & LIGHT ENGINE

Mid-powered, mirco LED arrays are tucked into the thin bottom rail and top channel for seamless illumination.

ALSO AVAILABLE IN

Recessed
(**R**)

90˚ CORNERS



Page 1

A brand of legrand®

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FINELITE® Better Lighting

High Performance Open 4" Aperture (HO4)
Pendant and Surface Mount

Clear Form

Ordering Guide Example: HO - 4 - P - ID - RO - 36' - S - S - 835 - TG - OPN - 96LG - 120 - DC - FC-10% - FA50 - C1 - OE - SW - LGD18W - OBO1 - RLD - SQ2

BODY TYPE

Platform
- ◉ **HO** - High Performance Open

Series
- ◉ **4**

Luminaire Type
- ◉ **P** - Pendant
- ◯ **SM** - Surface Mount

Luminaire Distribution
- ◯ **ID** - Indirect/Direct [1]
- ◯ **D** - Direct
- ◯ **UD** - Uplight/ Downlight

Luminaire Style
- ◉ **RO** - Rectilinear Open

Total Length of Run

_____
Minimum 2' section length. 1' Increments. 12' maximum section length.

OUTPUT and LED TYPE

Uplight Output ID Only *
- ◯ **S** - Standard (460 lm/ft)
- ◯ **B** - Boosted (578 lm/ft)
- ◯ **H** - High (873 lm/ft)
- ◯ **V** - Very High (1123 lm/ft)
- ◯ **TL** - Tailored: _____lm/ft**

Downlight Output (Open)
- ◯ **S** - Standard (402 lm/ft)
- ◯ **B** - Boosted (505 lm/ft)
- ◯ **H** - High (764 lm/ft)
- ◯ **V** - Very High (982 lm/ft)
- ◯ **TL** - Tailored: _____lm/ft**

LED CRI/CCT
- ◯ **830** - 80 CRI, 3000K
- ◯ **835** - 80 CRI, 3500K
- ◯ **840** - 80 CRI, 4000K
- ◯ **930** - 90 CRI, 3000K
- ◯ **935** - 90 CRI, 3500K
- ◯ **940** - 90 CRI, 4000K

* Lumens provided are for ID only. For UD see page 8.
* Specify lm/ft of outputs between Standard (**S**) and Very High (**V**) Consult factory for tailored lumen output outside of this range.

MECHANICAL/OPTICAL OPTIONS

Uplight (ID and UD Only)
- ◯ **F** - Flush (standard for UD only)
- ◯ **TG** - Top Glow (standard) [3]
- ◯ **WSO** - Widespread Optic [3]
- ◯ **WSOTG** - Widespread Optic with Top Glow [3]
- ◯ **ASY-L** - Asymmetric Left Optic [3]
- ◯ **ASY-R** - Asymmetric Right Optic [3]
- ◯ **ASYTG-L** - Asymmetric Left Optic with Top Glow [3]
- ◯ **ASYTG-R** - Asymmetric Right Optic with Top Glow [3]

Downlight
- ◉ **OPN** - Open

Reflector System
- ◉ **96LG** - 96 Low Gloss White

ELECTRICAL OPTIONS

Voltage
- ◯ **120** - 120 Voltage
- ◯ **277** - 277 Voltage
- ◯ **347** - 347 Voltage (OTi only)

Circuiting [2]
- ◯ **SC** - Single Circuit* One single circuit in a run
- ◯ **DC** - Dual Circuit* [4] Independent control of up and down separately in an I/D style fixture
- ◯ **MC** - Multi-Circuit* More than one switch leg or zone. Factory shop drawings required

Driver Selection

0-10V Driver Options
- ◯ **FC-10%** - 0-10V 10% (standard)
- ◯ **FC-1%** - 0-10V 1%
- ◯ **OTi-10%** - EldoLED OTi, 0-10V 10% [5]
- ◯ **OTi-1%** - EldoLED OTi, 0-10V 1% [5]
- ◯ **ELD-10V-0%** - EldoLED SOLOdrive, 0-10V 0.1%

DALI Driver Options
- ◯ **FC-DALI-1%** - DALI 1%
- ◯ **DXL-DALI-1%** - EldoLED Dexal, 1%
- ◯ **ELD-DALI-0%** - EldoLED SOLOdrive, 0.1%

DMX Driver Options
- ◯ **ELD-DMX** - EldoLED POWERdrive, 0.1%

Lutron Driver Options
- ◯ **LUT-ES1** - Lutron, Ecosystem 1%

See Page 3 for additional driver options and details

MOUNTING OPTIONS

Mounting Method [1] Clear Selection
- ◯ **FA50** - Fully Adjustable 50" (standard)
- ◯ **FA100** - Fully Adjustable 100"
- ◯ **FA150** - Fully Adjustable 50"
- ◯ **FA200** - Fully Adjustable 200"
- ◯ **FA250** - Fully Adjustable 250"
- ◯ **FA300** - Fully Adjustable 300"
- ◯ **FM** - Flexible Mounting [6]

Direct Rigid Stem
- ◯ **RS12** - Rigid Stem 12"
- ◯ **RS18** - Rigid Stem 18"
- ◯ **RS24** - Rigid Stem 24"
- ◯ **RS36** - Rigid Stem 36"

Ceiling Hardware Type
- ◯ **C1** - 15/16" T-Bar
- ◯ **C1T** - 15/16" Tegular [1]
- ◯ **C2** - 9/16" T-Bar
- ◯ **C2T** - 9/16" Tegular [1]
- ◯ **C3** - Screw Slot
- ◯ **C4** - Hard Ceiling

OTHER OPTIONS

Endcap Style
- ◯ **OE** - Open Endcap [7]
- ◯ **SE** - Solid Endcap [8]

Finish
- ◯ **SW** - Signal White (standard)
- ◯ **FB** - Finelite Black [9]
- ◯ **SA** - Satin Aluminum [9]
- ◯ **####** - RAL Color Code [10] _____

Emergency Style (Optional) See page 4 Backup Battery table — Clear Selection
- ◯ **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
- ◯ **BSL10T3** - Bodine Battery Back up Low Profile Compact
- ◯ **GTD** - Generator Transfer Device
- ◯ **ALCR** - Automatic Load Control Relay

OTHER OPTIONS

Integrated Sensor (Optional) Clear Selection
- ◯ **OBO1** - WS FS-305 w/ FS-L6 lens on/off (max mounting height 8') [6] OCC Sensor
- ◯ **OBO2** - WS FS-305 w/ FS-L3W lens on/off (max mounting height 20') [6] OCC Sensor
- ◯ **OBO3** - WS FS-305D w/ FS-L6 lens Dim to 50% (max mounting height 8') [6] OCC Sensor
- ◯ **OBO4** - WS FS-305D w/ FS-L3W lens Dim to 50% (max mounting height 20') [6] OCC Sensor
- ◯ **OBD** - Daylight
- ◯ **W601** - Wattstopper Wireless Sensor [9]
- ◯ **CLM** - Wattstopper Plus RF
- ◯ **SLM** - Wattstopper Plus Sensor
- ◯ **RE7** - nLight Occupancy & Daylight [11]
- ◯ **NE7** - nLight Occupancy [11]
- ◯ **AOCC-W** - Lutron Athena Sensor [12] (Device Color White)
- ◯ **AOCC-B** - Lutron Athena Sensor [12] (Device Color Black)
- ◯ **ARF-W** - Lutron Athena RF [12] (Device Color White)
- ◯ **ARF-B** - Lutron Athena RF [12] (Device Color Black)
- ◯ **VOCC** - Lutron Vive Sensor [13]
- ◯ **VRF** - Lutron Vive RF [13]

Special Options (Optional) Clear Selection
- ◯ **CP** - Chicago Plenum [14]
- ◯ **RLA** - Red List Approved
- ◯ **RLD** - Red List Declared

Configuration [15] Clear Selection
- ◯ **SQ____** - Square (side 1)
- ◯ **REC____x____** - Rectangle (side 1 x side 2)
- ◯ **L____x____** - " L " Shape (side 1 x side 2)
- ◯ **U____x____x____** - " U " Shape (side 1 x side 2 x side 3)
- ◯ **99CFG** - Custom Configuration [16]

[1] Pendant only
[2] Contact factory for switching options
[3] Not available with UD
[4] Indirect/Direct only
[5] Add DTO to gain "Dim to Off" functionality (FC-10% - DTO, FC-1% - DTO)
[6] Direct only
[7] Open Endcap (OE) available for HO4 ID with battery packs as test switch is installed on top of fixture
[8] Solid Endcap (SE) required at end with sensor
[9] 15 business days lead time
[10] 20 business days lead time
[11] Contact factory
[12] LMFS-601 w/ 0-10V driver(s) and LMFI-111, up to 6 drivers may be connected. LMFS-601 w/ Dali driver, only 1 driver can be connected.
[13] 0-10V Drivers - AOCC up to 10 drivers may be connected; ARF up to 40 driver may be connected
DALI Drivers - AOCC & ARF up to 4 drivers can be connected
[14] Only available with C1, C2, and C3 mounting hardware with Finelite Gridbox
[15] See pages 6 for more details and examples
[16] Please provide drawing with dimensions

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High Performance Open 4" Aperture (HO4)
Pendant and Surface Mount

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)
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)

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)

Lutron Driver Options	
LUT-ES1	Lutron, Ecosystem 1% Dimming

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FINELITE® Better Lighting

High Performance Open 4" Aperture (HO4)
Pendant and Surface Mount

SPECIFICATIONS

BODY TYPE

CONSTRUCTION: Precision-cut 6063-T6 extruded aluminum body. Internal joiner system and plug-together wiring are standard.

LENGTHS: Any length, 2' minimum; in 1' increments. 12' maximum section length.

MITERED CORNERS: Corners are secured with joining brackets for tight connection. Square and rectangular configurations are available. Minimum 4' length for each leg of configurations. Each corner is made up of two reflector sections 2' long.

OUTPUT and LED TYPE

LIGHT OUTPUT: Four lumen packages available, Standard (**S**), Boosted Standard (**B**), High (**H**), and Very High (**V**). For lengths 3' and greater, the uplight and downlight can be specified with different lumen packages and dual controls. For Tailored Outputs outside of range from Standard (**S**) to Very High (**V**), consult factory. Light engines are replaceable.

WELL Building, feature L04 Electric Light Glare control:
HO4 D: 80 CRI - **S**, 90CRI - **S**/**B**

LEED v5, interior Lighting Indoor Environmental Quality (qualify for LEED v4.1): *HO4 D:* 80 CRI - **S/B**, 90CRI - **S**/**B**

MECHANICAL/OPTICAL OPTIONS

UPLIGHT OPTION[1]**:** Patented Top Glow frost white diffuser standard. 12 ft. maximum diffuser length. 73% transmissive, 99% diffusion. Internal secondary diffusers at corners ensure visually seamless, uniform, continuous illumination options include: Flush frost white snap-in diffuser, 73% transmissive, 99% diffusion; Widespread Optic (**WSO**) and Widespread Optic with Top Glow (**WSOTG**); WSO enables increased luminaire spacing with improved ceiling uniformity. Asymmetric optic directs light in a specific direction. **ASY-L** distributes light to the left, **ASY-R** distributed light to the right of the luminaire. Consult factory for more tailored lumen outputs.

DOWNLIGHT OPTION: Direct distribution is totally open with unique polymer reflector material that helps define the rectilinear form.

LUMEN MAINTENANCE: 90% of initial light output (L90) at 60,000+ hours.

REFLECTORS: High diffuse polymer reflector with matte white finish. UV stable, abrasion resistant, and anti-static.

ELECTRICAL OPTIONS

STATIC WHITE FEED: Standard with one 18-gauge/5-conductor single-circuit feed controlling uplight and downlight together (power and dimming). Specify dual feeds for independent control of uplight and downlight. 14-gauge feed used when luminaire current exceeds 5 amps.

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).

MOUNTING OPTIONS

HANGING HARDWARE:
Pendant: 50" Fully Adjustable (**FA**) plated steel aircraft cable with safety stop hardware standard. The Flexible Mounting Bracket (**FM**) adjusts the suspension points to accommodate existing architecture. Suspension points adjust up to 2' in from the end of 8' or 12' fixture lengths and up to 1' in on shorter lengths. Consult factory for tailored lighting options.

- **Surface Mount:** Lay-in ceiling types: caddy clip with 1/4" - 20 stud and nut. Drywall or concrete surfaces (walls or ceilings): 1/4" - 20 stud and nut (provided by others).
- **Stem Mount:** Contact factory for reigid stems.

OTHER OPTIONS

ENDCAPS: Sculpted open endcap extends the look of the open luminaire and adds 1/4" each end of luminaire. Solid diecast aluminum endcap adds 1/4" to each end of luminaire.

EMERGENCY STYLE: Optional emergency to generator/inverter wiring, internal generator transfer switch, nightlight wiring, step-dimming driver, backup battery.

Backup Battery

	Legrand 18W	Legrand 10W/ Bodine BSL310LP
HO4-ID, D, and SM		
Min. Housing Length	8'*	4'*
EM Lumen Output	2030	1208
EM Section Illuminated	2'	2' or 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.

Bodine GTD and Legrand ALCR Min. Length

Configuration	Min. Length
Generator	D-2'; ID-3'
Generator + OCC	D-2'; ID-3'
Daylight	D-2'; ID-3'
Generator + Daylight	D-2'; ID-3'

INTEGRATED SENSORS: Integrated PIR (Passive Infrared) Occupancy (**OBO**) or Daylight Sensors (**OBD**) available. Solid Endcap (**SE**) required at end with sensor. PIR sensors not recommended for stairwell applications. Refer to Occupancy Sensor & Daylight Sensor tech sheet and the Embedded Intelligence landing page for more information and additional sensor options.

Continued

1 Indirect/Direct and Uplight/Downlight only

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FINELITE® Better Lighting

High Performance Open 4" Aperture (HO4)
Pendant and Surface Mount

SPECIFICATIONS

FINISHES: Finelite Signal White (**SW**) powder coat is standard. Finelite Black (RAL 9005) with semi gloss fine texture (**FB**)[2], and Satin Aluminum (**SA**)[3] are available. Optional Adder: 179 RAL colors[3] are available.

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. These fixtures are rated for Damp Location. Chicago Plenum options available for C1, C2, or C3 suspension using our GridBox. HO4 can be used to comply with 2016 Title 24, Part 6 (JA8); high efficacy LED light source requirements. 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) to your part number.

WEIGHT[4]**:** 2.8 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.

2 15 business days lead time
3 20 business days lead time for color
4 Excludes Battery Back up and Generator Transfer Device weight

LENGTH SPECIFICATIONS FOR CONFIGURATIONS

Configurations

Measurements are made to the outside of the luminous area as shown above for configurations. Minimum length of any section (X) is 4'.

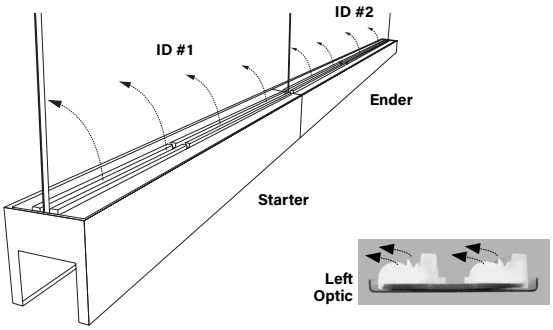
Corner

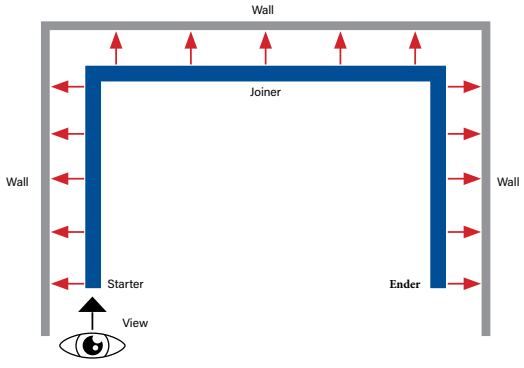
Measurements are made to the outside of the luminous area as shown above for single corner. Minimum length of any section (X) is 2'.

ASYMMETRIC OPTIONS

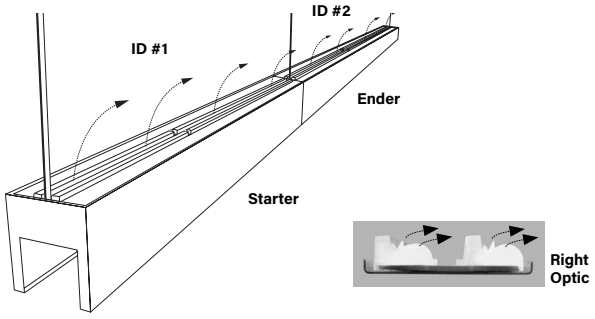
The diagrams below show a linear run from power feed to ender. Specifing ASY-L distributes light to the left or ASY-R distributes light to the right. For proper orientation: view luminaire from starter end when specifying the direction of the Asymmetric optic.

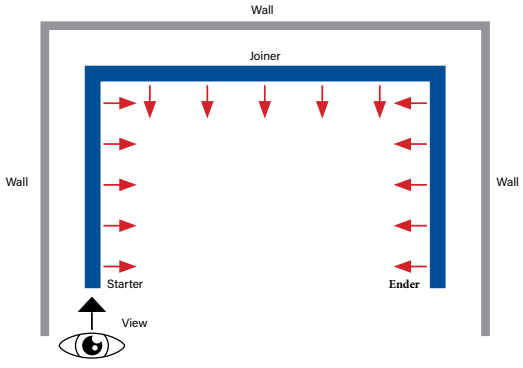
Asymmetric Left Optic (ASY-L)





Asymmetric Right Optic (ASY-R)





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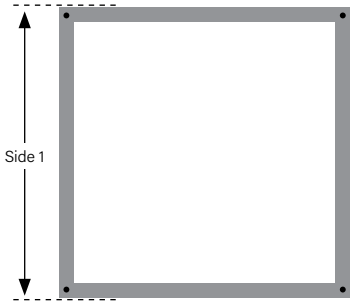
STANDARD CONFIGURATION EXAMPLES [1, 2]

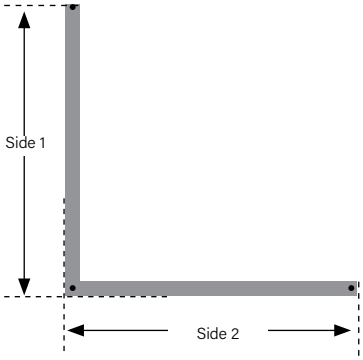
SQ ____
Square- Provide Side 1 dimension

Example - SQ6'



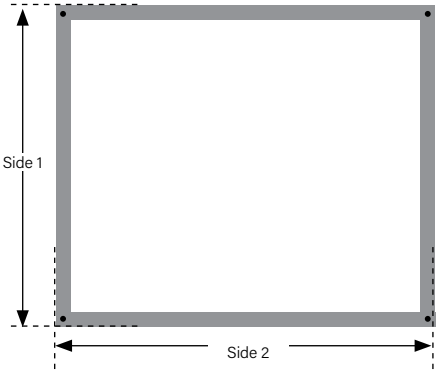
L____x____
L-Provide Side 1x Side 2 dimensions

Example - L6'x6'



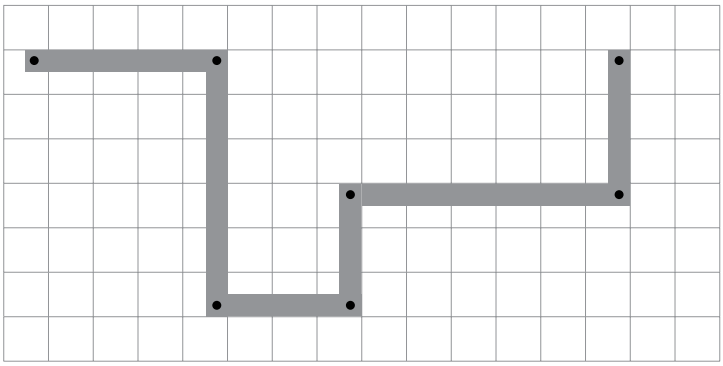
REC____x____
Rectangle - Provide Side 1 x Side 2 dimension

Example - REC5'x7'



99CFG [3]
Custom Configuration - Please provide a sketch or drawing showing desired linear length dimensions and curved sections. Template available on page 10.

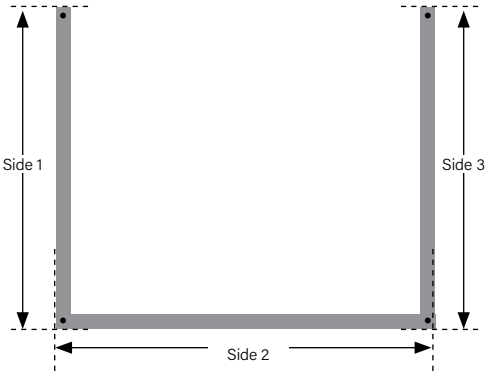
Example -



= 1 ft²

U____x____x____
U Shape - Provide Side 1 x Side 2 x Side 3 dimension

Example - U5'x7'x5'



● = Suspension Points

[1] Drawings are not to scale
[2] 2' minimum length for linear sections
[3] 99CFG between 60 - 179 degree with seamless joints

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Pendant and Surface Mount
CUSTOM CONFIGURATION TEMPLATE

= 1 ft²

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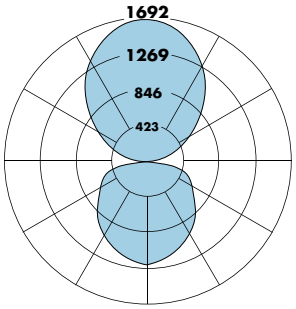
High Performance Open 4" Aperture (HO4)
Pendant and Surface Mount

Indirect/Direct Photometry - 4' Luminaire 3500K

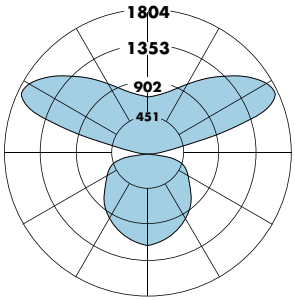
HO4-ID-RO-V-V-835-TG-OPN
Uplight: Top Glow (Standard)
Downlight: Open (Standard)

Distribution: 53% Up (**V**) / 47% Down (**V**)
Efficacy: 117 lm/W
Uplight: 491 lumens (1123 lumens/foot)
Downlight: 3928 lumens (982 lumens/foot)
Total luminaire output: 8419 lumens (2105 lm/ft)
71.8 watts (18 W/ft)
Peak Candela Value: 1692 @ 180°
CRI: 80 / CCT: 3500K
ITL LM79 Report 90233.001



HO4-ID-RO-V-V-835-WSOTG-OPN
Uplight: Widespread Optic with Top Glow
Downlight: Open (standard)

Distribution: 55% Up (**V**) / 45% Down (**V**)
Efficacy: 117 lm/W
Uplight: 4562 lumens (1141 lumens/foot)
Downlight: 3810 lumens (953 lumens/foot)
Total luminaire output: 8372 lumens (2093 lm/ft)
71.4 watts (17.9 W/ft)
Peak Candela Value: 1804 @ 116°
CRI: 80 / CCT: 3500K
ITL LM79 Report 90232.001



Complete LM79 LED Photometry

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

	↑S [1]	↑B [1]	↑H [1]	↑V [2]
↓S [1]	3446 [↑53% I 47%↓]	3919 [↑59% I 41%↓]	5101 [↑69% I 31%↓]	6099 [↑74% I 26%↓]
↓B [1]	3860 [↑48% I 52%↓]	433 [↑53% I 47%↓]	5514 [↑63% I 37%↓]	6512 [↑69% I 31%↓]
↓H [1]	4894 [↑38% I 62%↓]	5366 [↑43% I 57%↓]	6548 [↑53% I 47%↓]	7546 [↑60% I 40%↓]
↓V [2]	5766 [↑32% I 68%↓]	6239 [↑37% I 63%↓]	7421 [↑47% I 53%↓]	8419 [↑53% I 47%↓]

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

	↑S [1]	↑B [1]	↑H [1]	↑V [2]
↓S [1]	862	980	1275	1525
↓B [1]	965	1083	1379	1628
↓H [1]	1223	1342	1637	1887
↓V [2]	1442	1560	1855	2105

Power, 3500K (Watts Per Foot)

	↑S [1]	↑B [1]	↑H [1]	↑V [2]
↓S [1]	7.0	8.0	10.4	12.5
↓B [1]	8.0	8.9	11.3	13.4
↓H [1]	10.4	11.3	13.8	15.9
↓V [2]	12.5	13.4	15.9	18.0

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

	↑S [1]	↑B [1]	↑H [1]	↑V [2]
↓S [1]	123	123	123	122
↓B [1]	121	121	121	121
↓H [1]	118	118	119	119
↓V [2]	115	116	117	117

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 reports: 90233

Complete LM79 LED Photometry

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

	↑S [1]	↑B [1]	↑H [1]	↑V [2]
↓S [1]	3427 [↑55% I 45%↓]	3907 [↑60% I 40%↓]	5108 [↑70% I 30%↓]	6122 [↑75% I 25%↓]
↓B [1]	3828 [↑49% I 51%↓]	4308 [↑55% I 45%↓]	5509 [↑64% I 36%↓]	6523 [↑70% I 30%↓]
↓H [1]	4831 [↑39% I 61%↓]	5311 [↑44% I 56%↓]	6512 [↑55% I 45%↓]	7525 [↑61% I 39%↓]
↓V [2]	5677 [↑33% I 67%↓]	6158 [↑38% I 62%↓]	7358 [↑48% I 52%↓]	8372 [↑55% I 45%↓]

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

	↑S [1]	↑B [1]	↑H [1]	↑V [2]
↓S [1]	857	977	1277	1530
↓B [1]	957	1077	1377	1631
↓H [1]	1208	1328	1628	1881
↓V [2]	1419	1539	1840	2093

Power, 3500K (Watts Per Foot)

	↑S [1]	↑B [1]	↑H [1]	↑V [2]
↓S [1]	7.0	7.9	10.3	12.4
↓B [1]	8.0	9.0	11.3	13.4
↓H [1]	10.3	11.3	13.7	15.8
↓V [2]	12.4	13.4	15.8	17.9

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

	↑S [1]	↑B [1]	↑H [1]	↑V [2]
↓S [1]	123	123	123	123
↓B [1]	121	121	122	122
↓H [1]	117	118	119	119
↓V [2]	114	115	117	117

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 reports: 90232

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

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**) / Standard Output (**S**), 4000K, 90 CRI
Lumen Adjustment Factor: 0.789
Total Light Output: 5101 lm x 0.789 = 4025 lm
Total Light Output per Foot: 1275 lm/ft x 0.789 = 1006 lm/ft.
watts/foot: 10.4 W/ft.

$$\textbf{Efficacy} = \frac{1006 \frac{\text{lm}}{\text{ft.}}}{10.4 \frac{\text{W}}{\text{ft.}}} = 97 \text{ lm/W}$$

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

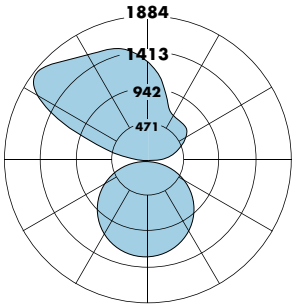
FINELITE® Better Lighting

High Performance Open 4" Aperture (HO4)
Pendant and Surface Mount

Indirect/Direct Photometry - 4' Luminaire 3500K

HO4-ID-RO-V-V-835-ASY-L-OPN
Uplight: Asymmetric Left Optic
Downlight: Open (Standard)

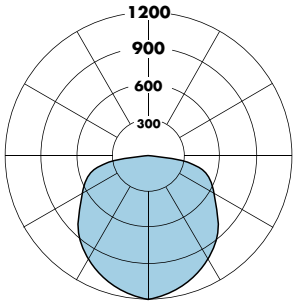
Distribution: 52% Up (**V**) / 48% Down (**V**)
Efficacy: 118 lm/W
Uplight: 4444 lumens (1111 lumens/foot)
Downlight: 4054 lumens (1014 lumens/foot)
Total luminaire output: 8498 lumens (2125 lm/ft)
71.8 watts (18 W/ft)
Peak Candela Value: 1884 @ 128°
CRI: 80 / CCT: 3500K
ITL LM79 Report 899988, 90233



Direct Photometry - 4' Luminaire 3500K

HO4-D-RO-V-835-OPN
Downlight: Open (Standard)

Efficacy: 116 lm/W
Total luminaire output: 4060 lumens (1015 lm/ft)
35 watts (8.8 W/ft)
Peak Candela Value: 1200 @ 0°
CRI: 80 / CCT: 3500K
ITL LM79 Report 89348



Complete LM79 LED Photometry

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire				
	↑**S** [1]	↑**B** [1]	↑**H** [1]	↑**V** [2]
↓**S** [1]	3479 (↑52% I 48%↓)	3947 (↑58% I 42%↓)	5116 (↑68% I 32%↓)	6104 (↑73% I 27%↓)
↓**B** [1]	3905 (↑55% I 45%↓)	4373 (↑52% I 48%↓)	5543 (↑63% I 37%↓)	6530 (↑68% I 32%↓)
↓**H** [1]	4972 (↑37% I 63%↓)	5440 (↑42% I 58%↓)	6610 (↑52% I 48%↓)	7597 (↑58% I 42%↓)
↓**V** [2]	5873 (↑31% I 69%↓)	6341 (↑36% I 64%↓)	7510 (↑46% I 54%↓)	8498 (↑52% I 48%↓)

Light Output, 3500K, 80 CRI (Lumens Per Foot)				
	↑**S** [1]	↑**B** [1]	↑**H** [1]	↑**V** [2]
↓**S** [1]	870	987	1279	1526
↓**B** [1]	976	1093	1386	1633
↓**H** [1]	1243	1360	1652	1899
↓**V** [2]	1468	1585	1878	2125

Power, 3500K (Watts Per Foot)				
	↑**S** [1]	↑**B** [1]	↑**H** [1]	↑**V** [2]
↓**S** [1]	7.0	8.0	10.4	12.5
↓**B** [1]	8.0	8.9	11.3	13.4
↓**H** [1]	10.4	11.3	13.8	15.9
↓**V** [2]	12.5	13.4	15.9	18.0

Efficacy, 3500K, 80 CRI (Lumens Per Watt)				
	↑**S** [1]	↑**B** [1]	↑**H** [1]	↑**V** [2]
↓**S** [1]	124	124	123	122
↓**B** [1]	122	122	122	121
↓**H** [1]	120	120	120	120
↓**V** [2]	118	118	118	118

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: 89988, 90233

Complete LM79 LED Photometry

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire			
↓**S** [1]	↓**B** [1]	↓**H** [1]	↓**V** [2]
1662	2089	3158	4060

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
↓**S** [1]	↓**B** [1]	↓**H** [1]	↓**V** [2]
415	522	789	1015

Power, 3500K (Watts Per Foot)			
↓**S** [1]	↓**B** [1]	↓**H** [1]	↓**V** [2]
3.4	4.4	6.7	8.8

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
↓**S** [1]	↓**B** [1]	↓**H** [1]	↓**V** [2]
121	120	118	116

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 reports: 89348

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

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**) / Standard Output (**S**), 4000K, 90 CRI
Lumen Adjustment Factor: 0.789
Total Light Output: 5116 lm x 0.789 = 4037 lm
Total Light Output per Foot: 1279 lm/ft x 0.789 = 1009 lm/ft.
watts/foot: 10.4 W/ft.

$$\textbf{Efficacy} = \frac{1009\ \frac{\text{lm}}{\text{ft.}}}{10.4\ \frac{\text{W}}{\text{ft.}}} = 97\ \text{lm/W}$$

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

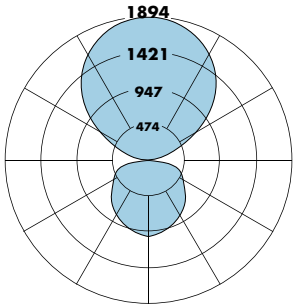
FINELITE® Better Lighting

High Performance Open 4" Aperture (HO4)
Pendant and Surface Mount

Uplight/Downlight Photometry - 4' Luminaire 3500K

HO4-UD-RO-V-V-835-OPN
Uplight: Flush (Standard)
Downlight: Open (Standard)

Distribution: 61% Up (**V**) / 39% Down (**V**)
Efficacy: 122 lm/W
Uplight: 5195 lumens (1299 lumens/foot)
Downlight: 3374 lumens (844 lumens/foot)
Total luminaire output: 8570 lumens (2143 lm/ft)
70 watts (17.5 W/ft)
Peak Candela Value: 1894 @ 180°
CRI: 80 / CCT: 3500K
ITL LM79 Report 89462



Complete LM79 LED Photometry

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

	↑S [1]	↑B [1]	↑H [1]	↑V [2]
↓S [1]	3508 (↑61% I 39%↓)	4055 (↑66% I 34%↓)	5422 (↑75% I 25%↓)	6576 (↑79% I 21%↓)
↓B [1]	3863 (↑55% I 45%↓)	4410 (↑61% I 39%↓)	5777 (↑70% I 30%↓)	6931 (↑75% I 25%↓)
↓H [1]	4751 (↑45% I 55%↓)	5298 (↑51% I 49%↓)	6665 (↑61% I 39%↓)	7819 (↑66% I 34%↓)
↓V [2]	5501 (↑39% I 61%↓)	6047 (↑44% I 56%↓)	7415 (↑55% I 45%↓)	8570 (↑61% I 39%↓)

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

	↑S [1]	↑B [1]	↑H [1]	↑V [2]
↓S [1]	877	1014	1355	1644
↓B [1]	966	1102	1444	1733
↓H [1]	1188	1324	1666	1955
↓V [2]	1375	1512	1854	2143

Power, 3500K (Watts Per Foot)

	↑S [1]	↑B [1]	↑H [1]	↑V [2]
↓S [1]	6.9	7.8	10.1	12.2
↓B [1]	7.8	8.7	11.1	13.1
↓H [1]	10.1	11.1	13.4	15.5
↓V [2]	12.2	13.1	15.5	17.5

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

	↑S [1]	↑B [1]	↑H [1]	↑V [2]
↓S [1]	128	130	134	135
↓B [1]	124	127	131	132
↓H [1]	117	120	124	126
↓V [2]	113	115	120	122

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: 89462

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

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**) / Standard Output (**S**), 4000K, 90 CRI
Lumen Adjustment Factor: 0.789
Total Light Output: 5422 lm x 0.789 = 4278 lm
Total Light Output per Foot: 1355 lm/ft x 0.789 = 1069 lm/ft.
watts/foot: 10.1 W/ft.

$$\textbf{Efficacy} = \frac{1069\ \frac{\text{lm}}{\text{ft.}}}{10.1\ \frac{\text{W}}{\text{ft.}}} = 106\ \text{lm/W}$$