

## CROSS SECTIONS

## Surface Mount



Flush Downlight Diffuser (standard)

Surface Mount Regressed


Flat Diffuser with
1" Regressed (RG)

Surface Mount Wall Wash


Kicker (standard)


Signal White is standard finish Note: see page 6 for all aesthetic options

High Performance 4" Aperture is a patented, linear LED luminaire family. HP-4 delivers excellent performance using an advanced optical design and mid-power LEDs. Achieving $90 \%$ of initial light output at 100,000+ hours and backed by a 10-year performance-based warranty on all standard components.

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.

## OPTIC OPTIONS



Standard Downlight Optic (F)


Downlight Asymmetric Optic (DAO)


Downlight Spread Optic (DSO)

ALSO AVAILABLE IN


Pendant
(D, ID, I)


Wall Mount (WM)

Surface Mount
(SM)

| Submitted by: | Date: |
| :---: | :---: |

Ordering Info:

## High Performance 4" Aperture (HP-4) Surface Mount

## Clear Form

Ordering Guide Example: HP - 4-SM-D-36' - S - 835-F - 96LG-120-SC - FC-10\% - C1-FE - SW - LGD18W - OBO - CP
BODY TYPE
OUTPUT AND LED TYPE

| Platform | Series Name | Luminaire Type | Luminaire Distribution | Total Length of Run | Downlight Output (Flush) | LED CRI/CCT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HP - High <br> Performance | - 4 | SM - Surface Mount SM RG - Direct Regressed | D - Direct WW-D - Wall Wash Direct | Minimum 2' section length. Increments accurate to $1 / 16^{\prime \prime}\left( \pm 1 / 32^{\prime \prime}\right)$, standard. 12' maximum section length. | S - Standard ( $379 \mathrm{~lm} / \mathrm{ft}$ ) B - Boosted ( $477 \mathrm{Im} / \mathrm{ft}$ ) H - High ( $720 \mathrm{Im} / \mathrm{ft}$ ) V - Very High ( $926 \mathrm{Im} / \mathrm{ft}$ ) TL - Tailored: $\qquad$ Im/ft* <br> Lumen provided above are for Flush lens only, see pg. 9 for WW lumens. *Specify Tailored $\mathrm{Im} / \mathrm{ft}$ of outputs between Standard (S) and Very High (V). Consult factory for tailored lumen output outside of this range. | 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 |

MECHANICAL/OPTICAL OPTIONS
ELECTRICAL OPTIONS

| Downlight | Reflector System |
| :---: | :---: |
| F - Flush (standard) <br> BG - Bottom Glow DL - 1" Drop Down Lens DSO - Downlight Spread Optic ${ }^{3}$ DAO-L - Downlight Asymmetric Optic Left ${ }^{3,11}$ DAO-R - Downlight Asymmetric Optic Right ${ }^{3,11}$ FO - Fully Open for Wall Wash only K - Kicker for Wall Wash only (standard) ${ }^{2}$ RG-D - Flat Diffuser with 1" Regress ${ }^{1}$ RG-WCB - White Cross Blade Baffle ${ }^{1}$ RG-LHE - Hollowed Ellipse Louver ${ }^{1}$ RG-LHC - Hex Louver ${ }^{1}$ | 96LG - 96 Low Gloss White SSA - Semi-Specular Aluminum for Wall Wash only |


| Voltage | Circuiting ${ }^{4}$ |
| :---: | :---: |
|  | - SC - Single Circuit* |
|  | Battery, Night Light, and Emergency to Generator circuits are in addition to the normal luminaire circuit(s) |
| NG OPTIONS | OTHER OPTIONS |


| ELECTRICAL OPTIONS |  | MOUNTING OPTIONS <br> Ceiling Hardware Type | OTHER OPTIONS |  |
| :---: | :---: | :---: | :---: | :---: |
| Driver Sele | ction ${ }^{5}$ |  | Endcap Style | Finish |
| 0-10V Driver Options FC-10\% - 0-10V 10\% (standard) FC-1\% - 0-10V 1\% OTi-10\% - EldoLED OTi, 0-10V $10 \%{ }^{6}$ OTi-1\% - EldoLED OTi, 0-10V $1 \%{ }^{6}$ ELD-10V-0\% - EldoLED SOLOdrive, 0-10V 0.1\% 10V-TW-10\% - EldoLED OTi, 0-10V 10\% (Tunable White) ${ }^{6}$ <br> 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 DUALdrive LightShape, 0.1\% (Tunable White) | Lutron Driver Options LUT-ES1 - Lutron, Ecosystem 1\% LUT-TW - Lutron T-Series, EcoSystem 0.1\% (Tunable White) <br> See Page 3 for additional driver options and details | C1-15/16" T-Bar C2-9/16" T-Bar C3 - Screw Slot C4 - Hard Ceiling | FE - Flat Endcap (standard) DE - 1" Drop Endcap ${ }^{8}$ OE - Open Endcap ${ }^{9}$ | SW - Signal White (standard) FB - Finelite Black SA - Satin Aluminum \#\#\#\# - RAL Color Code ${ }^{10}$ |

## OTHER OPTIONS



| Integrated | sor (Optional) ${ }^{\text {a }}$ ( $\begin{gathered}\text { Clear } \\ \text { Selection }\end{gathered}$ | Special Options(Optional)Clear <br> Selection |
| :---: | :---: | :---: |
| OBO - Occupancy " OBD - Daylight ${ }^{11}$ W601 - Wattstopper Sensor ${ }^{12}$ OBE - Enlighted ${ }^{13}$ REE - Remote Enlighted ${ }^{14}$ CLM-99 - Encelium RF SLIM-99 - Encelium Sensor | AOCC-W - Lutron Athena Sensor ${ }^{15}$ (Device Color White) AOCC-B - Lutron Athena Sensor ${ }^{15}$ (Device Color Black) ARF-W - Lutron Athena RF ${ }^{15}$ <br> (Device Color White) ARF-B - Lutron Athena RF ${ }^{15}$ (Device Color Black) vocc - Lutron Vive Sensor ${ }^{16}$ VRF - Lutron Vive RF ${ }^{16}$ | CP - Chicago Plenum ${ }^{17}$ RLA - Red List Approved RLD - Red List Declared |

[^0]${ }^{14}$ Enlighted for Wall Wash fixtures. Enlighted Control Unit \& Sensor Cable installed for Remote mounting senso
${ }^{15} 0-10 \mathrm{~V}$ 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
${ }^{16}$ Lutron Vive Ingrated Sensors require a DALI driver
${ }^{17}$ Only available with $\mathrm{C} 1, \mathrm{C} 2$, and C 3 mounting hardware with Finelite Gridbox

| Submitted by: |  | Date: |
| :---: | :---: | :---: |
| Type: | Project: |  |

## High Performance 4" Aperture (HP-4) Surface Mount

## SUPPLEMENTARY DRIVER PAGE

| O-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) |
| $\mathbf{1 0 V - T W - 1 0 \% ~}$ | EldoLED OTi, 0-10V 10\% Dimming, Tunable White (Linear) |
| $\mathbf{1 0 V - T W - 1 0 \% - D T O ~}$ | 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) |
| $\mathbf{O T i - 1 \% ~}$ | EldoLED OTi, 0-10V 1\% Dimming (Linear) |
| $\mathbf{O T i - 1 \% - D T O ~}$ | 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) |


| Lutron Driver Options |  |
| :--- | :--- |
| LUT-ES1 | Lutron, Ecosystem 1\% Dimming |
| LUT-TW | Lutron T-Series, EcoSystem 0.1\% Dimming, Tunable White |


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

## High Performance 4" Aperture (HP-4) Surface Mount

## SPECIFICATIONS

## BODY TYPE

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

LENGTHS: Any length, $2^{\prime}$ minimum, in increments down to $1 / 16$ " ( $\pm 1 / 32^{\prime \prime}$ ). 12' maximum section length. Hollowed Ellipse Louver (LHE), Hex Louver (LHC), and White Cross Blade Baffle (WCB) are
available in $1^{\prime}$ increments.
MITERED CORNERS ${ }^{1}$ : Illuminated corners of greater than $60^{\circ}$ and less than $180^{\circ}$ in a single plane, available with Flush Diffuser, Bottom Glow Diffuser, Regressed Diffuser, White Cross Blade Baffle ${ }^{2}$ or Wall Wash. Corners not available with Wall Wash (WW-D), Hollowed Ellipse Louver (LHE), Hex Louver (LHC) or 1" Drop Down Lens. Consult factory for tailored lighting options.

## 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.

MECHANICAL/OPTICAL OPTIONS
DOWNLIGHT OPTION : 12' maximum diffuser length. Flush frost white snap-in diffuser standard, $77 \%$ transmissive, $99 \%$ diffusion. Internal secondary diffusers at corners ensure visually seamless, uniform, continuous illumination. Available with Flush (F), Bottom Glow (BG), 1" Drop Down Lens (DL), White Cross Blade Baffle (WCB) ${ }^{3}$, Ellipse Louver (LHE) ${ }^{3}$, Hex Louver (LHC) ${ }^{3}$, Downlight Spread Optic (DSO), Downlight Asymmetric Optic Left and Right (DAO-L, DAO-R ), and Regressed downlight diffusers (RG). 1" Drop Down Lens made of acrylic. Available with a solid endcap or an endcap with a diffuse filler to continue the luminous aesthetic. Downlight Spread Optic (DSO) \& Downlight Asymmetric Optic (DAO) are an extruded lenses with a subtle ribbed appearance providing desired improved optical performance. Consult factory for more tailored lumen outputs.

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

REFLECTORS: Die-formed 20-gauge cold-rolled steel reflectors finished in 96LG High Reflectance white powder coat paint. The standard Semi-Specular Aluminum (SSA) Kicker (K) reflector delivers light high on the vertical surface. The Kicker reflector can be easily removed for open distribution (FO).

## 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 .

TUNABLE WHITE FEED: Standard with one 18 -gauge/5-conductor singlecircuit feed. 14-gauge feed used when fixture 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. $0-10 \mathrm{~V}$ dimming controls with a range of $10 \%-100 \%$ standard. Dimming to $1 \%$ available. Separate dimming for uplight and downlight available. Driver is fully accessible from below the ceiling.

## - Power Factor: $\geq 0.9$

- Total Harmonic Distortion (THD): <20\%
- Expected driver lifetime: 100,000 hours


## LUTRON DRIVER OPTIONS:

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

TUNABLE WHITE DRIVER: Replaceable LED driver. Driver is accessible from below the ceiling. $120 \mathrm{~V}, 277 \mathrm{~V}$, and 347 V .

## - Power factor: $\geq 0.90$

Total Harmonic Distortion (THD): <20\%
Dimming Range: 100\%-10\%
Expected driver lifetime.: 100,000 hours
LUTRON TUNABLE WHITE DRIVER OPTION: LUT-TW (0.1\% T-Series
2-Channel Digital Tunable White (PSQ Series)).

## MOUNTING OPTIONS

HANGING HARDWARE: Lay-in ceiling types: caddy clip with $1 / 4^{\prime \prime}-20$
stud and nut. Drywall or concrete surfaces (walls or ceilings): 1/4" - 20 stud and nut (provided by others).
tuNABLE WHITE HANGING HARDWARE: For grid ceiling applications the dual GridBox ${ }^{\text {Tm }}$ mounting is supplied (standard). For hard ceiling applications the ceiling mounting box is supplied (standard).

TUNABLE WHITE INTERCONNECTION CABLES: Luminaires are pre-wired with plug-and-play interconnection cables to support easy plug-together joining of fixture runs.

## OTHER FEATURES

ENDCAPS: Flat diecast aluminum endcaps (FE) add $1 / 4^{\prime \prime}$ to each end of luminaire. 1 " Drop Down Lens Endcap (DE) includes diffuse element to continue luminance of drop lens. Open Endcap ( $\mathbf{O E}$ ) is for use with the Hollowed Ellipse Louver (LHE) ${ }^{\text {5 }}$; following the curve of the louver.

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 |
| HP4-SM-D |  |  |
| Min. Housing Length | 8' | 4' |
| EM Lumen Output | 1854 | 1102 |
| EM Section Illum. | $2 '$ | $2^{\prime}$ or 4' |
| HP4-SM-WW-D |  |  |
| Min. Housing Length | 8* | 4* |
| EM Lumen Output | 2000 | 1189 |
| EM Section Illum. | $4 '$ | 4' |

[^1]

Specifications

| 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' |

## TUNABLE WHITE ELECTRICAL OPTIONS ${ }^{6}$ :

- TW Driver Options 0-10V: EM/GEN, GTD or Battery Back up

DALI: EM/GEN, GTD or Battery Back up

- LUTRON: EM/GEN, GTD or Battery Back up

INTEGRATED SENSORS: Integrated PIR (Passive Infrared) Occupancy (OBO) or Daylight Sensors (OBD) available with Flush and Bottom Glow downlight diffusers. 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.

FINISHES: Finelite Signal White (SW) powder coat, Finelite Black (RAL 9005) with semi gloss fine texture (FB), and Satin Aluminum (SA) are standard. Optional Adder: 179 RAL colors ${ }^{7}$ 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. 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 ${ }^{8}$ : SM - $2.8 \mathrm{lb} / \mathrm{ft} ; \mathrm{WW}-2.9 \mathrm{lb} / \mathrm{ft}$
WARRANTY: 10-year performance-based warranty on all standard components. Optional accessories such as emergency battery packs are covered by their individual manufacturer warranties.
${ }^{5}$ Regressed only
${ }^{6}$ Consult Finelite for Generator Transfer Device and Battery Backup fit
${ }^{7} 20$ business days lead time for color
${ }^{8}$ Excludes Battery Backup and Generator Transfer Device weight



Flush Diffuser (F)


Downlight Spread Optic (DSO) Externally flush


Hollowed Ellipse Louver ${ }^{1}$ (RG-LHE)


Bottom Glow Diffuser (BG)


Downlight Asymmetric Optic (DAO) Externally flush


Kicker (K) - Wall Wash only


1" Drop Down Lens (DL)


White Cross Blade Baffle ${ }^{1}$ (RG-WCB)


Flat Diffuser with 1" Regressed (RG-D)


Hex Louver ${ }^{1}$ (RG-LHC)

## High Performance 4" Aperture (HP-4) Surface Mount

## DOWNLIGHT ASYMMETRIC OPTIONS

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

## Downlight Asymmetric Optic Left (DAO-L)



Downlight Asymmetric Optic Right (DAO-R)
 on diffuser shows direction of
light. Remove after installation.
$\square$

## High Performance 4" Aperture (HP-4) Surface Mount

Direct Photometry-4' Luminaire 3500K
HP4-SM-D-4'-V-835
Downlight: Flush Diffuser

Efficacy: 100 Im/W
Total luminaire output: 3705 lumens ( $926 \mathrm{Im} / \mathrm{ft}$ )
37 watts ( $9.3 \mathrm{~W} / \mathrm{ft}$ )
Peak Candela Value: 1436 @ 0
CRI: 80 / CCT: 3500K
ITL LM79 Report 85124


## Complete LM79 LED Photometry

| S ${ }^{1}$ | B ${ }^{1}$ | $\mathrm{H}^{1}$ | $\mathrm{V}^{2}$ |
| :---: | :---: | :---: | :---: |
| 1517 | 1907 | 2882 | 3705 |


| Light Output, 3500K, 80 CRI (Lumens Per Foot) |  |  |  |
| :---: | :---: | :---: | :---: |
| S ${ }^{1}$ | B ${ }^{1}$ | H ${ }^{1}$ | $\mathrm{V}^{2}$ |
| 379 | 477 | 720 | 926 |
| Power, 3500K (Watts Per Foot) |  |  |  |
| S ${ }^{1}$ | B ${ }^{1}$ | $\mathbf{H ~}^{1}$ | $\mathrm{V}^{2}$ |
| 3.6 | 4.6 | 7.1 | 9.3 |
| Efficacy, 3500K, 80 CRI (Lumens Per Watt) |  |  |  |
| S ${ }^{1}$ | B ${ }^{1}$ | $\mathrm{H}^{1}$ | $\mathrm{V}^{2}$ |
| 105 | 107 | 102 | 100 |


| CANDELA DISTRIBUTION |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | 0.0 | 22.5 | 45 | 67.5 | 90 | Flux |
| 0 | 1436 | 1436 | 1436 | 1436 | 1436 |  |
| 5 | 1428 | 1428 | 1427 | 1427 | 1427 | 135 |
| 15 | 1363 | 1353 | 1358 | 1357 | 1350 | 382 |
| 25 | 1236 | 1221 | 1226 | 1219 | 1212 | 563 |
| 35 | 1060 | 1047 | 1048 | 1037 | 1030 | 653 |
| 45 | 859 | 849 | 848 | 836 | 831 | 652 |
| 55 | 647 | 639 | 637 | 628 | 623 | 568 |
| 65 | 434 | 432 | 431 | 425 | 424 | 425 |
| 75 | 236 | 236 | 237 | 235 | 236 | 250 |
| 85 | 67 | 68 | 69 | 70 | 69 | 77 |
| 90 | 0 | 0 | 0 | 0 | 0 |  |


| 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 |
| $\mathbf{3 5 0 0 K}$ | 0.760 |
| 4000K | 0.789 |

High Output (H), 4000K, 90 CRI

Lumen Adjustment Factor: 0.789
Total Light Output: $2882 \mathrm{Im} \times 0.789=2274 \mathrm{Im}$
Total Light Output per Foot: $720 \mathrm{~lm} / \mathrm{ft} \times 0.789=568 \mathrm{~lm} / \mathrm{ft}$. watts/foot: $7.1 \mathrm{~W} / \mathrm{ft}$.

Efficacy $=\frac{568 \frac{\mathrm{~lm}}{\mathrm{ft.}}}{7.1 \frac{\mathrm{~W}}{\mathrm{ft.}}}=80 \mathrm{~lm} / \mathrm{W}$
$\square$

## High Performance 4" Aperture (HP-4) Surface Mount

Direct Photometry-4' Luminaire 3500K
HP4-SM-D-4'-V-835-DAO
Downlight: Downlight Asymmetric Optic

Efficacy: 109 Im/W
Total luminaire output: 3884 lumens ( $971 \mathrm{~lm} / \mathrm{ft}$ )
35.6 watts ( $8.9 \mathrm{~W} / \mathrm{ft}$ )

Peak Candela Value: 1645 @ $12.5^{\circ}$
CRI: 80 / CCT: 3500K
ITL LM79 Report 94331

## Complete LM79 LED Photometry

| S ${ }^{1}$ | B ${ }^{1}$ | $\mathrm{H}^{1}$ | $\mathrm{V}^{2}$ |
| :---: | :---: | :---: | :---: |
| 1590 | 1999 | 3021 | 3884 |


| Light Output, 3500K, 80 CRI (Lumens Per Foot) |  |  |  |
| :---: | :---: | :---: | :---: |
| S ${ }^{1}$ | B ${ }^{1}$ | $\mathrm{H}^{1}$ | $\mathrm{V}^{2}$ |
| 397 | 500 | 755 | 971 |
| Power, 3500K (Watts Per Foot) |  |  |  |
| S ${ }^{1}$ | B ${ }^{1}$ | $\mathrm{H}^{1}$ | $\mathbf{V}^{2}$ |
| 3.5 | 4.4 | 6.8 | 8.9 |

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

| $\mathbf{S}^{1}$ | B $^{1}$ | $\mathbf{H}^{\mathbf{1}}$ | $\mathbf{V}^{\mathbf{2}}$ |
| :---: | :---: | :---: | :---: |
| 114 | 113 | 111 | 109 |


| _- Sample Lumen Adjustment Calculation |  |
| :---: | :---: |
|  |  |
| Lumen Adjustment Factors 80 CRI |  |
| $\mathbf{3 0 0 0 K}$ | 0.985 |
| $\mathbf{3 5 0 0 K}$ | 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: $3021 \mathrm{~lm} \times 0.789=2384 \mathrm{~lm}$
Total Light Output per Foot: $755 \mathrm{~lm} / \mathrm{ft} \times 0.789=596 \mathrm{~lm} / \mathrm{ft}$. watts/foot: $6.8 \mathrm{~W} / \mathrm{ft}$.

Efficacy $=\frac{596 \frac{\mathrm{~lm}}{\mathrm{ft.}}}{6.8 \frac{\mathrm{~W}}{\mathrm{ft.}}}=88 \mathrm{~lm} / \mathrm{W}$

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

## High Performance 4" Aperture (HP-4) Surface Mount

Wall Wash Direct Photometry - 4' Luminaire 3500K
HP4-SM-WW-D-K-4'-V-835
Downlight: With Kicker

Efficacy: 92 Im/W
Total luminaire output: 1816 lumens ( $454 \mathrm{~lm} / \mathrm{ft}$ )
21.5 watts ( $5.4 \mathrm{~W} / \mathrm{ft}$ )

Peak Candela Value: 1072 @ $35^{\circ}$
CRI: 80 / CCT: 3500K
ITL LM79 Report 85130


## Complete LM79 LED Photometry

| Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire |  |  |  |
| :---: | :---: | :---: | :---: |
| S $^{1}$ | B $^{1}$ | H $^{1}$ | V $^{2}$ |
| 743 | 935 | 1412 | 1816 |


| Light Output, 3500K, 80 CRI (Lumens Per Foot) |  |  |  |
| :---: | :---: | :---: | :---: |
| S ${ }^{1}$ | B ${ }^{1}$ | $\mathrm{H}^{1}$ | $\mathrm{V}^{2}$ |
| 186 | 234 | 353 | 454 |
| Power, 3500K (Watts Per Foot) |  |  |  |
| S ${ }^{1}$ | B ${ }^{1}$ | $\mathrm{H}^{1}$ | $\mathrm{V}^{2}$ |
| 2.0 | 2.5 | 3.8 | 5.0 |
| Efficacy, 3500K, 80 CRI (Lumens Per Foot) |  |  |  |
| S ${ }^{1}$ | B ${ }^{1}$ | $\mathbf{H}^{1}$ | $\mathrm{V}^{2}$ |
| 91 | 92 | 92 | 92 |


| CANDELA DISTRIBUTION |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 | FLUX |
| 0 | 373 | 373 | 373 | 373 | 373 |  |
| 5 | 495 | 456 | 374 | 306 | 281 | 37 |
| 15 | 791 | 649 | 366 | 209 | 175 | 121 |
| 25 | 1018 | 818 | 347 | 147 | 115 | 217 |
| 35 | 1072 | 896 | 315 | 101 | 72 | 294 |
| 45 | 996 | 848 | 271 | 62 | 35 | 328 |
| 55 | 842 | 708 | 214 | 28 | 6 | 311 |
| 65 | 673 | 536 | 149 | 5 | 6 | 259 |
| 75 | 407 | 363 | 84 | 4 | 5 | 173 |
| 85 | 157 | 137 | 25 | 0 | 0 | 70 |
| 90 | 75 | 54 | 0 | 0 | 0 |  |


| Sample Lumen Adjustment Calculation |  |
| :---: | :---: |
| Lumen Adjustment Factors 80 CRI |  |
| 3000K | 0.985 |
| 4000K | 1.000 |
| 3000K | 1.032 |
| 3500K |  |
| 4000K | 0.746 |

High Output (H), 4000K, 90 CRI
Lumen Adjustment Factor: 0.789
Total Light Output: $1412 \mathrm{Im} \times 0.789=1114 \mathrm{Im}$
Total Light Output per Foot: $353 \mathrm{Im} / \mathrm{ft} \times 0.789=279 \mathrm{Im} / \mathrm{ft}$. watts/foot: $3.8 \mathrm{~W} / \mathrm{ft}$.

Efficacy $=\frac{279 \frac{\mathrm{~lm}}{\mathrm{ft.}}}{3.8 \frac{\mathrm{~W}}{\mathrm{ft.}}}=73 \mathrm{Im} / \mathrm{W}$

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

## High Performance 4" Aperture (HP-4) Surface Mount

## SETBACK INFO AND APPLICATION DATA - WALL WASH SURFACE MOUNT

HP4-SM-WW-D-K-4'-V-835
Downlight: With Kicker
Total luminaire output: 1450 lumens ( $363 \mathrm{~lm} / \mathrm{ft}$ )
19.1 watts ( $4.8 \mathrm{~W} / \mathrm{ft}$ )

CRI: 80 / CCT: 3500K


Downlight Asymmetric Optic - Setback Info and Application Data
HP4-SM-D-4ft-V-835-DAO
Downlight: DAO
Total luminaire output: 3884 lumens ( $971 \mathrm{~lm} / \mathrm{ft}$ )
35.6 watts ( $8.9 \mathrm{~W} / \mathrm{ft}$ )

CRI: 80 / CCT: 3500K


Setback Distance - 2'


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

## 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 - 6500 K
- Dimming Range: $100 \%$ to $10 \%$
- CRI Options: 80 CRI or 90 CRI


## 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 $0-10 \mathrm{~V}$ Tunable White) |  |

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

WIRING DIAGRAM - DIMMABLE TO 10\%


Luminaire Wiring

- Purple (+) / Pink (-) control wires are for intensity control
- Orange (+) / Blue (-) control wires are for Tunable White control

LUMINAIRE FAMILY
MODIFICATIONS/RESTRICTIONS


## 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 |

## Note:

Load or Dim to Off options available.


[^0]:    ${ }^{8} 1$ 1" Drop Down Lens downlight only
    ${ }^{9}$ Available with Hollowed Ellipse Louver (LHE) only
    ${ }^{10} 20$ business days lead time for color
    "Not available with Wall Wash

[^1]:    ${ }^{1}$ Not available with Wall Wash

