| Project |  | Catalog \# |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Prepared by | Notes |  | Type |  |
|  |  |  | Date |  |



## Interactive Menu

- Order Information page 2
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## Top Product Features

- Suspended Slot family in 2", 3", 4" and 5" housing sizes
- Specifiable to the nearest foot
- Satin, Asymmetric and Drop Direct Lensing available
- Independently specifiable Direct / Indirect lumen packages
- 0-10V dimming standard; DALI dimming available
- $2700 \mathrm{~K}, 3000 \mathrm{~K}, 3500 \mathrm{~K}, 4000 \mathrm{~K}$, and 5000 K correlated color temperatures available
- Options to meet Buy American Act requirements


## Dimensional and Mounting Details



Order Information
Icon Key: $\quad$ Consult factory for availability
SAMPLE ORDER NUMBER: S125DP-C850D835-C4JB4F0-1T-UDD-F-W-SWPD1


| Luminaire Length (Ft) | Max section length | Circuiting | Additional Section Wiring | Voltage | Driver Type | Shielding Down |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Luminaire Length (Ft) | Max section length | Circuiting | Additional Section Wiring | Voltage | Driver Type | Shielding Down |
| ___F0=Nominal Length | $\begin{aligned} & \text { (blank) }=12 \mathrm{ft}(\mathrm{std}) \\ & / 8=8 \mathrm{ft} \end{aligned}$ | -1=Single Circuit -S=Secondary Circuit | $\mathrm{E}=$ Emergency Circuit <br> B1=Surelite 7W 120-277V EM battery pack (EL7W) <br> B2=Surelite 14W 120-277V EM battery pack (EL14W) <br> B3=Bodine 6W UNV Integral <br> T=UL924 EPC Emergency Bypass Relay | $\begin{aligned} & -\mathrm{U}=\text { Universal } \\ & (120 \mathrm{~V}-277 \mathrm{~V}) \\ & -1=120 \mathrm{~V} \\ & -2=277 \mathrm{~V} \\ & -3=347 \mathrm{~V} \end{aligned}$ | DD=Standard 0-10V Dimming ( $1 \%$-100\%) <br> 5L=Fifth Light DALI (5\%-100\%) <br> L5=Lutron 5 Series (LDE5-Series) 5\%-100\% EcoSys <br> LH=Lutron HiLume (LDE1 series) $1 \%-100 \%$ EcoSys <br> W2A=White Tuning, 0-10V Dimming (VividTune only) | -F=Satin White Diffuser <br> -D=Satin Drop diffuser <br> -A=Asymmetric Diffuser |
| Notes <br> Minimum fixture length is 2 ft . Specify to nearest foot in length. | Notes <br> Individual fixtures configured as 12 ft max by default. Continuous runs configured as 8 ft max (12ft not available). | Notes <br> Secondary circuit similar to $\mathrm{A} / \mathrm{B}$ switching. Price adder applies for " S " configuration. | Notes <br> Battery available on fixture $\geq 4 \mathrm{ft}$ in length. B1-B2 and T options not compatible with 347 V . Standard battery 4 ft battery section located in the beginning of the fixture, but can be relocated using the linear product configurator. When configured with secondary circuit, battery test switch will be located in a plate on the direct side of the fixture. | Notes <br> 347 V only available with DD driver option. | Notes <br> DD driver is standard. For non-dimming applications, the driver will default to full brightness if no connection is made to the capped dimming wires in the field. | Notes <br> All lensing options are snapin lenses. |



| Options | Finish | Integrated Sensor |
| :---: | :---: | :---: |
| -R=GLR Fuse (Fast) <br> $-F=$ GMF Fuse (Slow) | -W=White <br> -S=Silver <br> -B=Black <br> -C=Custom Match <br> -R=RAL Custom | -WAA=WaveLinx Pro Wireless <br> -WAB=WaveLinx Lite Wireless $\emptyset$ <br> -LWIPD1=Enlighted Wireless <br> -SVPD1=Standalone <br> (Blank)=None |
| Notes <br> Additional lead-time may apply. Not available with 347V option. | Notes <br> Contact factory for C and R options. W/S/B are standard. | Notes <br> DD driver must be selected. Please refer to page 5 for additional detail required to specify integrated sensors. Integral option not available with regressed or drop lensing. |

## Product Specifications

Construction

- Available in Flush and Regressed Housing
- Precision cut housing extruded from 6063 aluminum
- Precision cut \& welded end-caps ensure a robust and clean construction
- Nominal 2'-12' illuminated sections used in individual fixtures and $2^{\prime}-8^{\prime}$ illuminated sections used in continuous runs

Finish

- Electrostatically applied polyester powder coat paint


## LED Module

- Modular LED tray assembly comprising reflector and light engine with quick disconnect wire-harness for ease of installation and maintenance over the life of the luminaire

Light Engine

- Offered with two next generation Neo-Ray light engines delivering industry leading efficacy and longlife
- LED's are available in $2700 \mathrm{~K}, 3000 \mathrm{~K}, 3500 \mathrm{~K}, 4000 \mathrm{~K}$ or 5000K
- CRI options of either $\geq 80 \mathrm{CRI}$ or $\geq 90 \mathrm{CRI}$ (Lumen output will be affected - please refer to the lumen adjustment factor table)


## LED Drivers

- LED system coupled with electrical driver
- Traditional electronic drivers are available for 120 277 V and 347 V applications

Controls and Integrated Sensors

- Equipped standard with a $0-10 \mathrm{~V}$ continuous dimming driver. Compatible with most standard dimming devices
- Additional control types are available (DALI \& Lutron) at an additional cost
- WaveLinx and Enlighted wireless sensors as well as stand-alone sensors available


## Mounting

- Suspended

Lengths

- Available in any length ( 2 ft min ) with a resolution of 1 foot. Max section length of 12 ft ( 8 ft max used on continuous runs and available for individual fixtures)
- Additional fixture lengths are available please consult factory. All lengths are nominal and do not include end caps.

Corners and Transition Pieces

- Corners and other transition pieces are fully luminous
- Constructed using precision mitered housing and lens components
- Extrusions are welded to ensure a precise and robust assembly
- Standard $90^{\circ}$ horizontal corners as well as custom corners are available
- Consult online linear configutor or the factory for precise corner locations and for ordering
- Alternative transition pieces such as T's, Y's, X's, etc. are also available Ø

Direct Snap-In lensing Options

- Satin Flush - Flush, high diffusion glare-free lens
- Satin Drop - 1" Drop, high diffusion glare-free lens
- Asymmetric - Flush, low-glare Asymmetric lens
- Flush options ship with our patent-pending underlens solution, the proud lens ships with an injection molded end cap to eliminate light leak

Reflectors

- Precision formed cold-rolled steel reflectors with high reflectivity
- Ultra high reflectivity used with High Performance light engine

Lumen Maintenance

- $90 \%$ (L90) of initial light output at $61,000+$ hrs
- $70 \%$ (L70) of initial light output at 237,000+ hrs
- Derived from TM-21 standard @ $25^{\circ} \mathrm{C}$ for worst case operating conditions

Custom Lumen Output

- Custom lumen output expressed option in Lumens per foot (e.g. -725D for $725 \mathrm{Lms} / \mathrm{ft}$ down). Refer to additional detail on page 4.


## Shielding Options



Standard Flush Lens


Regressed Flush Lens


Standard Proud Lens

Electrical
Dimming provided as standard

- Dimming wires capped with wire-nuts for nondimming applications
- Optional battery backup options provided
- Default battery location is internal to fixture
- Default emergency section is 4 ft in length and located at the beginning of the fixture unless designated elsewhere
- Estimated lumen output = battery wattage * min efficacy (see performance table)
- The EPC option will bypass local controls and dimming upon loss of normal power. This option is required when the fixture has both integrated sensors and emergency circuiting

Integrated Sensors

- Please reference page 5 for details

Weight

- 5.2 Ibs per foot

Approvals

- cULus - listed for damp locations
- Meets NYC requirements
- Meets CCEC requirements
- Tested to IESNA LM-79 and LM-80
- Can be used for State of California Title 24 high efficacy luminaire
- DesignLights Consortium® Qualified and classified for DLC Standard and DLC Premium, refer to www. designlights.org for details and listed configurations.


## Warranty

- Five year warranty standard.


Asymmetric Lens

## Photometric Data

## PView IES files

FILE NAME:


LUSH LENS

$\overline{0-\text { deg }} \overline{90-\mathrm{deg}}$

## FILE NAME:

LPW: 120.1 LPW
CCT: 3500K
WATTS: 26.3 W

S125RDP-S850D835-4F0-1E-UDD-F
LUMENS: 3128.1 Lms
LPW: 118.9 LPW
CCT: 3500K
WATTS: 26.3 W
TEST NUMBER: P334412

S125DP-S850D835-4F0-1E-UDD-D LUMENS: 3159.8 Lms

TEST NUMBER: P334307

## Photometric Overview and Performance Data

## Direct Performance Per Linear Foot at 3500K/80CRI

| Nominal <br> Output | Standard |  | High Performance |  | VividTune |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ims/ft | $\mathrm{W} / \mathrm{ft}$ | $\mathrm{Im} / \mathrm{W}$ | $\mathrm{W} / \mathrm{ft}$ | $\mathrm{Im} / \mathrm{W}$ | $\mathrm{W} / \mathrm{ft}$ | $\mathrm{Im} / \mathrm{W}$ |
| 375 | 2.9 | 133 | 2.9 | 136 | 3.0 | 130 |
| 610 | 4.8 | 134 | 4.4 | 140 | 4.9 | 130 |
| 850 | 6.7 | 131 | 6.1 | 141 | 6.7 | 129 |
| 1090 | 8.8 | 129 | 8.1 | 138 | 8.9 | 125 |
| 1270 | 10.6 | 124 | 9.7 | 132 | 10.7 | 121 |

## LUMEN ADJUSTMENT CALCULATIONS

Example 1 - Adjusted Lumen Output
Nominal Lumen Output selected $=1025 \mathrm{Ims} / \mathrm{ft}$ (based on standard of 3500K/80CRI) Lumen Adjustment Factor $=0.801$ (2700K/90CRI desired)

Adjusted Lumen Output = Nominal Lumen Output x Lumen Adjustment Factor Adjusted Lumen Output $=\mathbf{1 0 2 5} \mathbf{I m s} / \mathrm{ft} \times 0.801=\mathbf{8 2 1} \mathbf{~ I m s} / \mathrm{ft}$

Example 2 - Custom Lumen Output based on Required Lumens Per Foot Total light output (4ft) requirement of 2800 Ims, desired CCT and CRI of 4000K/80CRI

Total required lumens per foot @ 4000K= $2800 \mathrm{lms} / 4 \mathrm{ft}=700 \mathrm{Ims} / \mathrm{ft}$ Lumen Adjustment Factor = 1.018 (Requirement based on 4000K / 80CRI)

Total required lumens per foot @ 3500K / 80CRI = $\mathbf{7 0 0} \mathbf{~ I m s / f t ~} \div 1.018=688 \mathrm{Ims} / \mathrm{ft}$
Estimated efficacy $=121$ LPW (find nearest value using table above) Estimated power consumption $=688 \mathrm{Ims} / \mathrm{ft} \div 121 \mathrm{Im} / \mathrm{W}=5.69 \mathrm{~W} / \mathrm{ft}$
Custom Lumen Output
Total Light Output Range (lms/ft)

| CCT | Lumen Adj Factors |  | Direct Output Range |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 80 CRI | 90 CRI | 80 CRI | 90 CRI |
| 2700 K | N/A | 0.792 | N/A | $297-1006$ |
| 3000 K | 0.943 | 0.815 | $354-1198$ | $306-1035$ |
| 3500 K | 1.000 | 0.861 | $375-1270$ | $323-1093$ |
| 4000 K | 1.010 | 0.892 | $379-1283$ | $335-1133$ |
| 5000 K | 1.010 | 0.892 | $379-1283$ | $335-1133$ |

If your requirement is expressed in power consumption (W/ft) rather than light output, you can use the power to lumen output curves to convert power consumption to light output for specification. Efficacy for custom lumen outputs can be estimated using lumen output curves or with the use of our online custom lumen output tool.

## Corner Transitions



Integrated Sensor Details and Placement

| Sensor Type | Wireless | Sensor Integration | Sensor Mounting | Ordering Code |
| :--- | :--- | :--- | :--- | :--- |
| WaveLinx Pro | Yes | Integral to Fixture | Mounted in solid cover | WAA |
| WaveLinx Lite | Yes | Integral to Fixture | Mounted in solid cover | WAB |
| Enlighted | Yes | Integral to Fixture | Mounted in illuminated lens | LWIPD1 |
| Stand-Alone <br> SVPD1 | No | Integral to Fixture | Mounted in solid cover | SVPD1 |

Optional standalone and wireless connected integrated sensors require use of the DD (0-10V) driver. WaveLinx and Enlighted sensors require additional system hardware (not provided) for full functionality.

Standard sensor layout is shown below. Please refer to sensor coverage pattern diagrams to ensure proper coverage for the application. Standard configurations are available in both individual fixtures and in continuous runs. Default spacing is based on the maximum fixture length of 12 ft and can be changed to 8 ft sensor spacing for additional coverage by selecting the 8 ft max fixture length option when ordering.

For additional information integrated sensors and connected lighting, please visit Cooper Lighting Solutions's Connected Lighting Website.

O Standard Sensor with Luminaire Control
$\otimes$ Auxiliary Sensor used for Sensor Coverage (wireless systems only)

INTEGRAL SENSOR

| $\leq 8 \mathrm{ft}$ Individual | $\bigcirc$ |  |
| :---: | :---: | :---: |
| >8ft Individual | $\bigcirc$ | $\otimes$ |
|  |  | 8 ft , |
| Beginning of Run (BOR) | $\bigcirc$ |  |
| Intermediate Section (INT) | $\bigcirc$ |  |
| End of Run $(E O R)>4 \mathrm{ft}$ | $\bigcirc$ | $\otimes$ |
| End of Run $(\mathrm{EOR}) \leq 4 \mathrm{ft}$ |  | $\bigcirc$ |

## Define 5 Pendant LED with VividTune Tunable White

VividTune tunable white luminaires deliver high-quality light in a broad range of continuously variable color temperatures and intensities. Create a dynamic environment by adjusting the ambient light warmer or cooler to influence mood, support the task at hand, or create a dramatic ambience. The ability to control correlated color temperature and intensity separately using simple controls is the next evolution of LED lighting for the commercial, educational, healthcare and hospitality space. The unparalleled flexibility and number of available lighting environments enable users to find the right light with tunable white.


## Performance Data*

| Tunable White - Lumen Adjustment Factors |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $\mathbf{C C T}$ | $\mathbf{3 0 0 0 K} \mathbf{- 5 0 0 0 K}$ |  | $\mathbf{2 7 0 0 K}$-6500K |  |
|  | $\mathbf{8 0} \mathbf{C R I}$ | $\mathbf{9 0} \mathbf{C R I}$ | $\mathbf{8 0} \mathbf{C R I}$ | $\mathbf{9 0} \mathbf{C R I}$ |
| 2700 K | - | - | 0.868 | 0.741 |
| 3000 K | 0.894 | 0.736 | 0.893 | 0.771 |
| 3500 K | 0.946 | 0.804 | 0.924 | 0.809 |
| 4000 K | 0.993 | 0.868 | 0.944 | 0.835 |
| 4500 K | 1.002 | 0.883 | 0.961 | 0.857 |
| 5000 K | 1.002 | 0.883 | 0.974 | 0.874 |
| 6500 K | - | - | 0.988 | 0.897 |


| Example of Approximate Lumen Calculation |  |  |  |
| :---: | :---: | :---: | :---: |
| CCT <br> Setting | Standard Catalog \# | VividTune 80 CRI Catalog \# | VividTune 90 CRI Catalog \# |
| 3000 K | - | S125DP-V1090D83050-X-UW2A- <br> F-W | S125DP-V1090D93050-X-UW2A- <br> F-W |
| 3500 K | - | 3898 | 3209 |
| 4000 K | - | 4360 | 4369 |
| 4500 K | - | 4369 | 3505 |
| 5000 K | - |  | 3884 |

## Controlling VividTune Tunable White

VividTune luminaires make tunable white more accessible by using simple and familiar controls. From wall dimmers to wireless controls, VividTune tunable white luminaires are compatible with industry standard $0-10 \mathrm{~V}$ dimming controls. A single $0-10 \mathrm{~V}$ dimming input is used to control intensity (brightness) while a second $0-10 \mathrm{~V}$ dimming input is used to adjust CCT. For suggested control configurations, go to www.cooperlightingsolutions.com for tunable white application guides.


Example of Lumen Adjustment Calculation

S125DP-V1090D83050-X-UW2A-F-W at 80 CRI tuned to 3500 K

Adjusted Lumen = published Im x adjusted Im factor

Adjusted Lumen $=4360 \times 0.946$
Adjusted Lumen $=4125 \mathrm{Im}$

* Lumen adjustment factors are for reference and may be different for each product selected. Refer to IES files for actual performance data on each.

