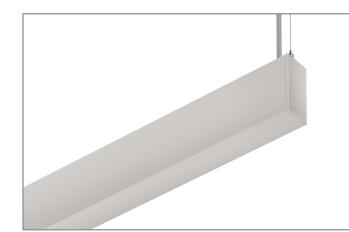
Project	Catalog #	Туре	
Prepared by	Notes	Date	

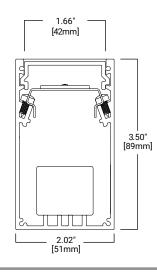


- Order Information page 2
- Product Specification page 3
- Photometric Data page 4
- Performance Data page 5
- VividTune page 6

Top Product Features

- Suspended Slot family in 2", 3", 4" and 5" housing sizes
- · Specifiable to the nearest foot
- Multiple lensing options
- Multiple lumen packages
- 0-10V dimming standard; DALI dimming available
- 2700K, 3000K, 3500K, 4000K, and 5000K correlated color temperatures available
- Options to meet Buy American Act requirements

Dimensional and Mounting Details







Neo-Ray

Define 2

2" LED Suspended Pendant Indirect

Typical Applications Office • Education • Healthcare • Hospitality • Retail

- Oo

Product Certification





Product Features



VividTune

2" LED Suspended Pendant Indirect

Order Information

SAMPLE ORDER NUMBER: S122IP-C330U835-C4JB4F0-1T-UDD-1-W-SWPD1

Icon Key: Ø Consult factory for availability

Domestic Preference	Series	Light Engine	Lumen Package UP (Lms/ft)	CRI	LED CCT	Suspension Type	Ceiling Type	Mounting HW Color
Domestic Preference	Series	Light Engine	Lumen Package UP (Lms/ft)	CRI	LED CCT	Suspension Type	Ceiling Type	Mounting HW Color
[Blank]=Standard BAA=Buy American Act	S122IP=Define 2 Indirect Pendant	-C=Core -H=High Performance -V=VividTune Ø	330U=330 Lms/ft (2.2W/ft) 530U=530 Lms/ft (3.6W/ft) 725U=725 Lms/ft (5.0W/ft) 925U=925 Lms/ft (6.6W/ft) 1080U=1080 Lms/ft (7.9W/ft) U=Custom Lms/ft Ø	8 =80 9 =90	27=2700K 30=3000K 35=3500K 40=4000K 50=5000K 2765=2700K-6500K 3050=3000K-5000K	-C4=4ft Aircraft Cable -C10=10ft Aircraft Cable -C20=20ft Aircraft Cable -S4=4ft Stern Mount -S8=8ft Stern Mount	JB=Gypsum Board, Junction Box, Structure T1=15/16" T-Grid (ETG) T9=9/16" T-Grid (FTG) TS=9/16" Slot (STG), Tegular (FTT), Interlude (ITG)	(blank)=White B=Black
Notes	Notes	Notes	Notes		Notes	Notes	Notes	Notes
Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to <u>DOMESTIC PREFERENCES</u> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.		See performance table for add'1 details. Light engine must be consistent across run length. "V" and "H" light engines not available in 2ft fixture. V option requires lumen package of 725 lms/ft or greater and fixture length of 3 ft+.	Nominal at 3500K/80CRI with no lens. Please refer to scaling data for other variables. For custom lumen output, please refer to additional information on page 3. Vivid/Tune option requires output >724 Ims/ft. 330 Lms/ft and 530 Lms/ft not valiable on 2ft fixture length. 1080 Lms/ft not valid with DALL or Lutron Drivers.	apply for configura	al lead-time and cost may 927, 930, 935 and 940 titons. 2765/3050 VividTune titons require V light engine driver.			White mounting hardware standard

Luminaire Length (Ft)	Max section length	Circuiting	Additional Section Wiring	Voltage	Driver Type	Shielding Up
Luminaire Length (Ft)	Max section length	Circuiting	Additional Section Wiring	Voltage	Driver Type	Shielding Up
F0=Nominal Length	(blank)=12ft (std) /8=8ft	1=Single Circuit S=Secondary Circuit	E=Emergency Circuit B3=Bodine 6W UNV Integral T=UL924 EPC Emergency Bypass Relay	U=Universal (120V-277V) 1=120V 2=277V 3=347V	DD=Standard 0-10V Dimming (1%-100%) 5L=Fifth Light DALI (5%-100%) LS=Lutron 5 Series (LDE5-Series) 5%-100% EcoSys LH=Lutron HiLume (LDE1 series) 1%-100% EcoSys W2A=White Tuning, 0-10V Dimming (VividTune only)	(blank)= No Lens (std) 1=Satin White Diffuser
Notes	Notes	Notes	Notes	Notes	Notes	Notes
Minimum fixture length is 3ft. Specify to nearest foot in length.	Individual fixtures configured as 12ft max by default. Continuous runs con- figured as 8ft max (12ft not available).	Secondary circuit similar to A/B switching. Price adder applies for "S" configuration.	Battery available on fixture \geq 4ft in length. B3 and T options not compatible with 347V. Standard battery 4ft battery section located in the beginning of the fixture, but can be relocated using the linear product configurator. Battery test switch located in knockout on top of fixture.	347V only available with DD and 5L driver options.	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.	No lens up standard, use satin white diffuser when dust cover desired of top of the fixture is viewable during normal use.

Options

Integrated Sensor

Options	Finish	Integrated Sensor
R=GLR Fuse (Fast) F=GMF Fuse (Slow)	W=White S=Silver B=Black C=Custom Match R=RAL Custom	-WAA=WaveLinx Pro Wireless -WAB=WaveLinx Lite Wireless Ø -LWIPD1=Enlighted Wireless -SVPD1=Standalone (Blank)=None
Notes	Notes	Notes
Additional lead-time may apply. Not available with 347V option.	Contact factory for C and R options. W/S/B are standard.	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.

Finish



Neo-Ray

2" LED Suspended Pendant Indirect

Product Specifications

Construction

- Precision cut housing extruded from 6063 aluminum Precision cut & welded end-caps ensure a robust and clean construction
- Nominal 3' -12' illuminated sections used in individual fixtures and 3'-8' 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 long-life
- LED's are available in 2700K, 3000K, 3500K, 4000K or 5000K
- CRI options of either ≥80CRI or ≥90CRI (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 120-277V and 347V applications

- Controls and Integrated Sensors
 Equipped standard with a 0-10V 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 (2ft min) with a resolution of 1 foot. Max section length of 12ft (8ft 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° horizontal corners as well as custom corners are available
- Consult online linear configurator 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

Indirect Snap-In lensing Options

Satin Flush - Flush, high diffusion glare-free lens No Lens - No lens option provides the lowest cost solution with the highest efficacy

Reflectors

· Precision formed cold-rolled steel reflectors with high reflectivity

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°C for worst case operating conditions

Custom Lumen Output

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

Electrical

- Dimming provided as standard Dimming wires capped with wire-nuts for non-dimming applications
- Optional battery backup options provided
- Default battery location is internal to fixture
- Default emergency section is 4ft 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

· 2.6 lbs 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

Warranty

· Five year warranty standard.

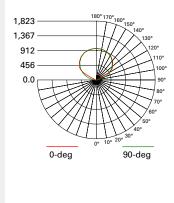


Neo-Ray

2" LED Suspended Pendant Indirect

Photometric Data

🖌 View IES files



FILE NAME: S122IP-S675U835-4F0-1E-UDD LUMENS: 5830 Lms LPW: 127 LPW CCT: 3500K WATTS: 45.9 W TEST NUMBER: P331348

Photometric Overview and Performance Data

Nominal Output	Standard		High Performance		VividTune	
lms/ft	W/ft	lm/W	W/ft	lm/W	W/ft	lm/W
330	2.2	151	2.5	157	2.6	150
530	3.6	151	3.9	163	4.3	148
725	5.0	148	5.3	164	5.9	145
925	6.6	144	7.1	155	7.8	141
1080	7.9	141	8.5	152	9.4	137

Indirect Performance Per Linear Foot at 3500K/80CRI

LUMEN ADJUSTMENT CALCULATIONS

Example 1 - Adjusted Lumen Output Nominal Lumen Output selected = 1025 Ims/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 = 1025 Ims/ft x 0.801 = 821 Ims/ft

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

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

Total required lumens per foot @ 3500K / 80CRI = 700 lms/ft ÷ 1.018 = 688 lms/ft

Estimated efficacy = 121 LPW (find nearest value using table above) Estimated power consumption = 688 lms/ft \div 121 lm/W = 5.69 W/ft

Custom Lumen Output

Total Light Output Range (Ims/ft)

ССТ	Lumen A	dj Factors	Indirect Output Range		
CCT	80CRI	90CRI	80CRI	90CRI	
2700K	N/A	0.792	N/A	261-855	
3000K	0.943	0.815	311-1018	269-880	
3500K	1.000	0.861	330-1080	284-930	
4000K	1.010	0.892	333-1091	294-963	
5000K	1.010	0.892	333-1091	294-963	

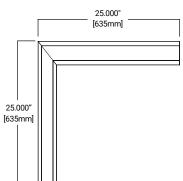
If your requirement is expressed in power consumption (W/ft) rather than light output, you can use the power to lumen output curves to convert power consumption to light output for specification. Efficacy for custom lumen outputs can be estimated using lumen output curves or with the use of our online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



Neo-Ray

2" LED Suspended Pendant Indirect

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 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 12ft and can be changed to 8ft sensor spacing for additional coverage by selecting the 8ft max fixture length option when ordering.

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

O Standard Sensor with Luminaire Control

Auxiliary Sensor used for Sensor Coverage (wireless systems only)

INTEGRAL SENSOR

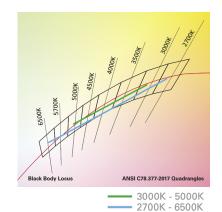
≤8ft Individual	0	
>8ft Individual	Note: When 8ft max section length is used o sensor placement follows logic for continuo	
Beginning of Run (BOR)	0	
Intermediate Section (INT)	0	
End of Run (EOR) > 4ft	0	8
End of Run (EOR) ≤ 4ft		0





Define 2 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*

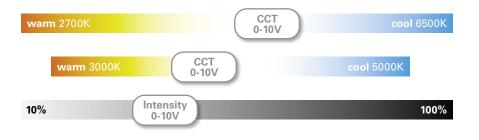
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Tunable White - Lumen Adjustment Factors						
сст	3000K	-5000K	2700K-6500K			
	80 CRI	90 CRI	80 CRI	90 CRI		
2700K	-	-	0.868	0.741		
3000K	0.894	0.736	0.893	0.771		
3500K	0.946	0.804	0.924	0.809		
4000K	0.993	0.868	0.944	0.835		
4500K	1.002	0.883	0.961	0.857		
5000K	1.002	0.883	0.974	0.874		
6500K	-	-	0.988	0.897		

Example of Approximate Lumen Calculation						
	Standard Catalog #	VividTune 80 CRI Catalog #	VividTune 90 CRI Catalog #			
CCT Setting	S122IP-C925U835-X-UDD-W	S122IP-V925U83050-X-UW2A-W	S122IP-V925U93050-X-UW2A-W			
3000K	-	3308	2723			
3500K	3700	3500	2975			
4000K	-	3674	3212			
4500K	-	3707	3267			
5000K	-	3707	3267			

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 0-10V dimming controls. A single 0-10V dimming input is used to control intensity (brightness) while a second 0-10V 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

s122IP-V925U83050-X-UW2A-W at 80 CRI tuned to 3500K

Adjusted Lumen = published Im x adjusted Im factor

Adjusted Lumen = 3700 x 0.946

Adjusted Lumen = 3500 lm

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



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Specifications and dimensions subject to change without notice.