

# NOTE: THIS VERSION OF THE DEFINE SERIES HAS BEEN REPLACED WITH OUR SECOND GENERATION PRODUCT

Neo-Ray

## DESCRIPTION

The Define series by Neo-Ray characterizes the ultimate in minimalist simplicity by providing clean, uniform lines of illumination in virtually any architectural environment. Powered by Cooper Lighting Solutions' most advanced linear LED technology, the Define series delivers outstanding efficacy in a variety of profile widths. 2", 3", 4" and 5" luminaire widths are all specifiable to the nearest foot as standard product and can be fitted with standard flush, asymmetric flush, regressed and drop lensing. Custom corners and transitions are also available. Robust construction and adaptable, modular components make installation simple and ensure laser straight runs.

Catalog #		Type
Project		
Comments		Date
Prepared by		

## SPECIFICATION FEATURES

### Construction

Housing extruded from 6063 aluminum. Nominal 2' -12' illuminated sections. Used in run configuration and/or individual fixtures. All components are RoHS compliant.

### Lens

Snap in lens available in flush and drop lens profiles. Lens end caps allow for ease of installation and eliminate light leak.

### Finish

Fixture housings are high reflective white using electrostatically applied polyester powder coat paint.

### Electrical

Long-life LED system coupled with electrical driver to deliver optimal performance. LED's are available in 2700K, 3000K, 3500K or 4000K with a typical CRI  $\leq 85$ . Projected life is 131,000 hours at L70. Electronic drivers are available for 120-277V applications. Fixtures and electrical components certified to UL and CUL standards. Fixtures are damp location listed.

### Controls

Equipped standard with a 0-10V continuous dimming driver compatible with most standard dimming devices (refer to website for specific compatibility

reference). Combine with FifthLight DALI and other energy saving products like sensors, daylighting controls and building management systems to maximize energy savings.

### Mounting

Suspended.

Pendant with single aircraft cable and circular canopy. Standard length of canopy is 48".

### Warranty

Five year warranty.



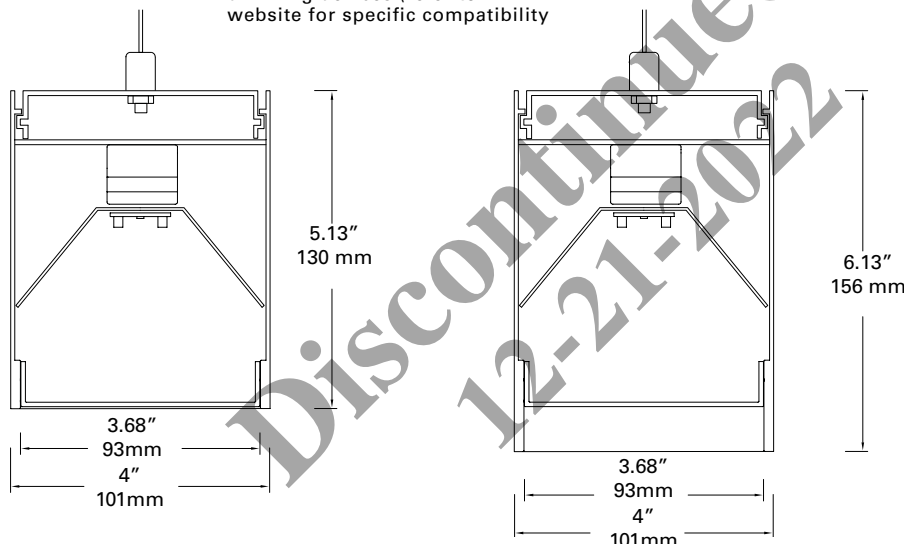
## Define 4

Pendant

LED

Direct

CERTIFICATION DATA  
cULus - 1598  
Damp Location Listed  
LM79/LM80 Compliant  
RoHS Compliant  
Lumawatt Pro Wireless



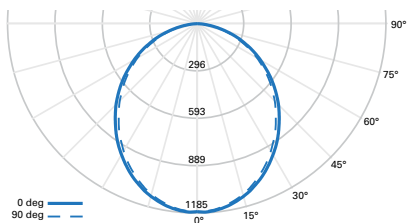
## ORDERING INFORMATION

Sample Number: S124DP-235-SC48-ETG0048-1D-UDD-1-W

SERIES	LIGHT DISTRIBUTION	LIGHT LEVEL <sup>1</sup>		CCT	MOUNTING CABLE	CEILING TYPE <sup>2</sup>	LENGTH <sup>3</sup>	➤
<b>S124</b> = Define 4	<b>DP</b> = Direct Pendant <b>RDP</b> = Regressed Direct Pendant	<b>-LO</b> = Light Level LO (1437 Lms @ 13.6W) (359 Lumens per ft @ 3.4W) <b>-1</b> = Light Level 1 (2918 Lms @ 27.9W) (729 Lumens per ft @ 7W) <b>-2</b> = Light Level 2 (4136 Lms @ 42.6W) (1034 Lumens per ft @ 10.7W) <b>-LC</b> ____ = Custom Lm/Ft <sup>1</sup> <small>See page 2 for lumen output</small>		<b>27</b> = 2700K <b>30</b> = 3000K <b>35</b> = 3500K <b>40</b> = 4000K	<b>-SC48</b> = 48" (std) Adj <b>-SC120</b> = 120" Adj <b>-SC240</b> = 240" Adj	<b>-ETG</b> = 15/16" Flat T-Grid <b>-FTG</b> = 9/16" Flat T-Grid <b>-ITG</b> = 9/16" Interlude T-Grid <b>-STG</b> = 9/16" Slot T-Grid <b>-JB</b> = Junction Box <b>-ST</b> = Structure	<b>0024</b> = 2' Individual <sup>4</sup> <b>0048</b> = 4' Individual <b>0096</b> = 8' Individual <b>0144</b> = 12' Individual <b>XXXX</b> = Configurable Run <sup>5</sup>	
CIRCUITING	CIRCUIT TYPE	VOLTAGE	LED DRIVER	SHIELDING DOWN		COLOR	OPTIONS <sup>9</sup>	
<b>-1</b> = Single Circuit <b>-2</b> = Dual Circuit	<b>D</b> = Dimming (std) <b>C</b> = Non-Dimming <b>B</b> = Battery Pack <sup>8, 10</sup> <b>E</b> = Emergency <b>G</b> = Bodine GTD <sup>10</sup>	<b>-1</b> = 120V <b>-2</b> = 277V <b>-U</b> = Universal 120V-277V <b>-3</b> = 347V <sup>6</sup>	<b>ED</b> = Non-Dimming <b>DD</b> = 0-10 Volt Dimming, 10% <b>HCD</b> = 0-10 Volt Dimming, 1% <b>5L</b> = DALI Dimming <sup>710</sup>	<b>-1</b> = Satin White Diffuser <b>-3</b> = Asymmetric Flush Optic <sup>11</sup> <b>-4</b> = Satin Drop Diffuser		<b>-W</b> = Matte White <b>-S</b> = Silver <b>-B</b> = Black <b>-C</b> = Custom Color	<b>SVPD1</b> = Integrated Sensor <b>SWPD1</b> = WaveLinX Wireless Integral Sensor <sup>13</sup> <b>LWIPD1</b> = Lumawatt Pro Wireless Integral Sensor <sup>13</sup> <b>-90</b> = 90-CRI (Lower Lumens) <b>-R</b> = GLR Fast Fusing <b>-F</b> = GMR Slow Fusing	

Notes:

\* See page 3 for specific notes



**FILE NAME: S124DP-135-X-X0048-1D-UDD-1-W**

**CCT: 3500K**

**LUMENS: 2918 Lms**

**WATTS: 27.9 W**

**LPW: 104 LPW**

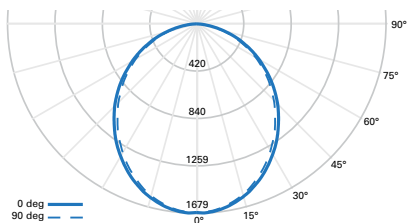
**TEST NUMBER: P29680**

## ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	875	30.0
0°-40°	1395	47.8
0°-60°	2356	80.7
0°-90°	2918	100.0

## LUMINANCE DATA (CD/M<sup>2</sup>)

Vertical Angle	0°	45°	90°
45	8786	8457	8128
55	8163	7788	7476
65	7456	7054	6778
75	6261	5880	5707
85	4519	4314	4211



**FILE NAME: S124DP-235-X-X0048-1D-UDD-1-W**

**CCT: 3500K**

**LUMENS: 4135 Lms**

**WATTS: 42.6 W**

**LPW: 97 LPW**

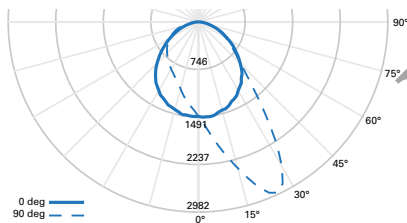
**TEST NUMBER: P29682**

## ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	1240	30.0
0°-40°	1977	47.8
0°-60°	3339	80.7
0°-90°	4135	100.0

## LUMINANCE DATA (CD/M<sup>2</sup>)

Vertical Angle	0°	45°	90°
45	12450	11984	11517
55	11567	11036	10593
65	10566	9996	9604
75	8872	8332	8087
85	6399	6112	5968



**FILE NAME: S124DP-235-X-X0048-1D-UDD-3-W**

**CCT: 3500K**

**LUMENS: 4409 Lms**

**WATTS: 43 W**

**LPW: 103 LPW**

**TEST NUMBER: G2-16-1199-1**

## ZONAL LUMENS SUMMARY

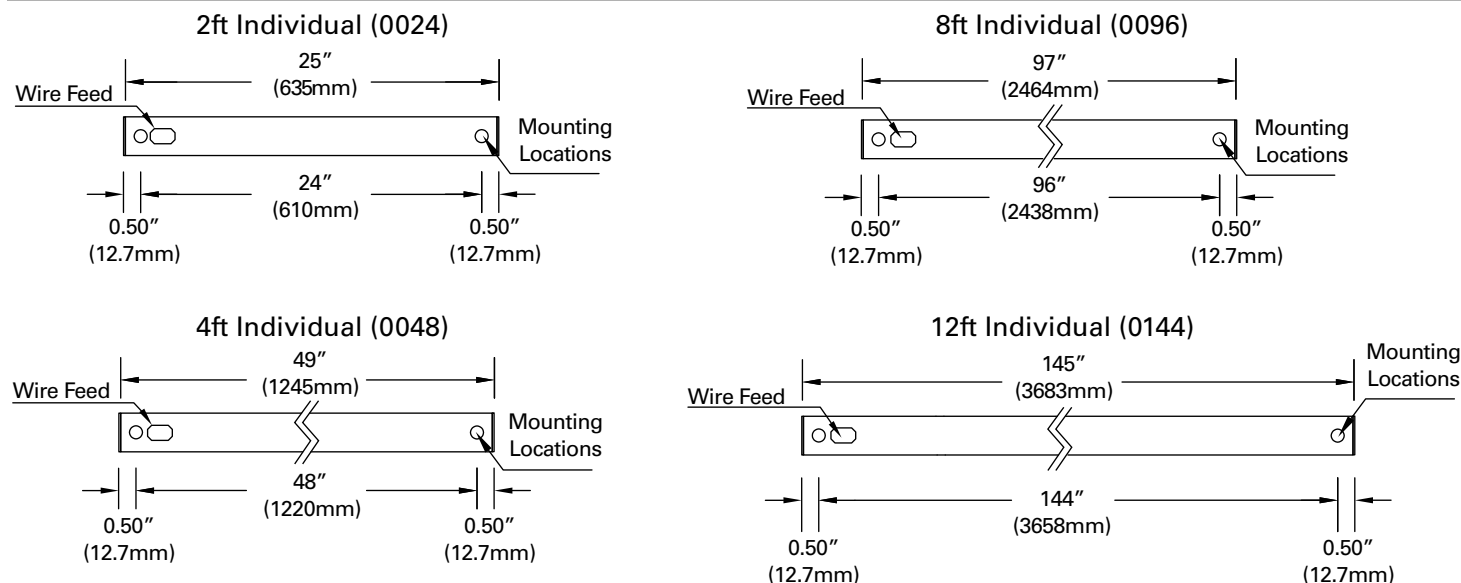
Zone	Lumens	% Fixture
0°-30°	1356	31
0°-40°	2237	51
0°-60°	3661	83
0°-90°	4409	100

## CANDELA DISTRIBUTION (CD)

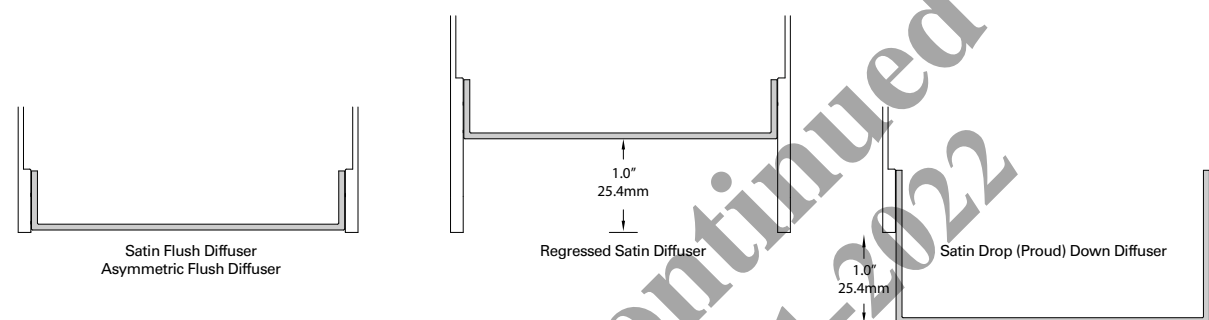
Vertical Angle	0°	90°	180°	270°
0°	1497	1497	1497	1497
10°	1497	2041	1490	1225
20°	1411	2780	1401	990
25°	1344	2982	1328	921
30°	1259	2635	1254	862
40°	1074	1318	1055	753
50°	803	752	787	648
60°	534	498	521	523
70°	303	285	293	379
80°	113	107	103	180
90°	0	0	0	0

## LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	84.29%	131,000



## Lens Information - Lens Details



## INTEGRATED SENSOR DETAILS AND PLACEMENT<sup>13</sup>

		Sensor Series	Occupancy Technology	Sensing Technology	Coverage Pattern
4ft Individual	○	SV Integrated Sensor for Local Control	P Passive Infrared	D Dimming Daylight Harvesting (Closed Loop)	1 ~144 ft <sup>2</sup>
8ft Individual	○	LumiWatt Pro Wireless Integral			
12ft Individual	○				

## NOTES

- Additional lower light levels are available depending on fixture length. For the HCD driver, the requested output must be between 225 Lms/ft and 1030 Lms/ft. Additional drivers and light levels are available - please consult factory for details and lead-time.
- Not all ceiling types are shown; consult factory for specific ceiling types not listed.
- All lengths are nominal. Refer to submittal drawings for actual sizes.
- Not all dimming options available for every length; please consult factory for specific details.
- For configurable runs specify length to nearest foot. Standard runs ship in 12ft increments. Ensure to specify 8ft increments if 12ft are too large to receive. Additional charges may apply; please consult factory for details.
- 347V is achieved using remote transformer.
- FifthLight DALI is achieved using digital analog converter.
- Battery pack options are not available in every length; please consult factory for specific details. Battery pack is remote installation only.
- For all options; consult factory for specific requirements.
- Not available with 347V circuit.
- Asymmetric lens is not available as standard product on regressed housing RDR.
- Standard product is configured with snap-in lens end caps at the beginning and end of a run or individual fixture. End caps are provided for ease of installation and removal of the lens and eliminate light leak from the end of the fixture when flush satin lens is selected. Please contact factory if lens end-caps are not desired as alternate configurations are available.
- Integrated WaveLinx and LumiWatt Pro Sensors configured for one sensor per fixture. For proper sensor coverage, select 8ft maximum fixture section during product configuration. Please consult factory for details. Standard configurations include Universal voltage, single circuit and 'DD' driver selection. Not available with regressed housing or emergency options.