

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P865990

Luminaire Tested: PRLX-2001-M-930-45L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865990  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-930-45L-G-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

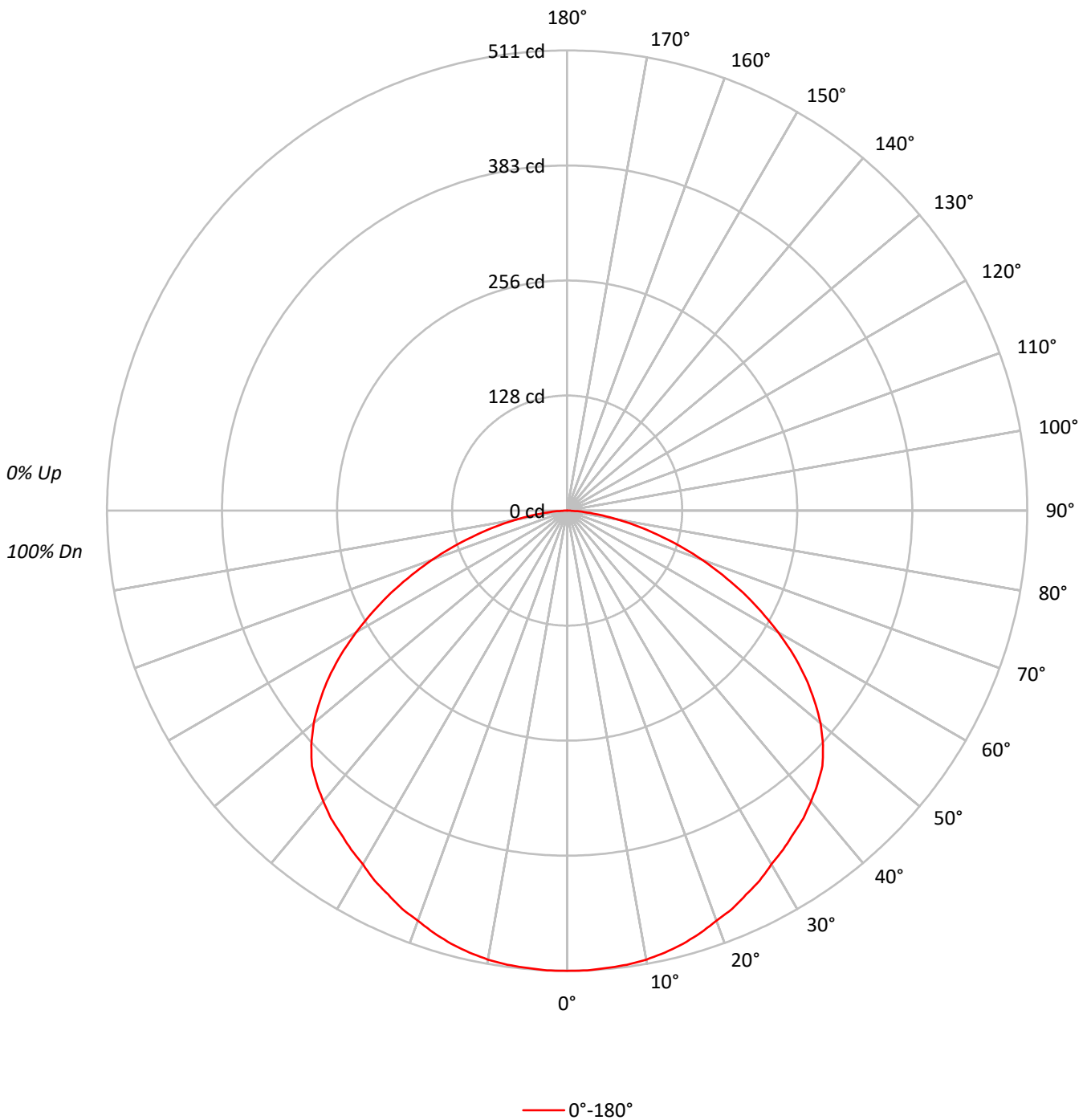
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1625.3 lumens  
Efficiency: N/A  
Efficacy: 41.9 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	4337
5°	4344
10°	4363
15°	4374
20°	4377
25°	4404
30°	4445
35°	4537
40°	4667
45°	4811
50°	4850
55°	4782
60°	4591
65°	4325
70°	3950
75°	3413
80°	2751
85°	1860

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 4850 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.6	3.0
10°-20°	140.6	8.6
20°-30°	217.3	13.4
30°-40°	274.9	16.9
40°-50°	307.7	18.9
50°-60°	287.6	17.7
60°-70°	212.7	13.1
70°-80°	111.7	6.9
80°-90°	24.2	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	406.4	25.0
0°-40°	681.3	41.9
0°-60°	1276.7	78.6
0°-90°	1625.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1625.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	511	
5°	510	49
15°	498	141
25°	470	217
35°	438	275
45°	401	308
55°	323	288
65°	215	213
75°	104	112
85°	19	24
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	511.1
2.5°	511.1
5°	509.9
7.5°	508.7
10°	506.3
12.5°	502.7
15°	497.9
17.5°	491.9
20°	484.7
22.5°	478.7
25°	470.4
27.5°	463.2
30°	453.6
32.5°	446.4
35°	438.0
37.5°	430.9
40°	421.3
42.5°	411.7
45°	400.9
47.5°	385.4
50°	367.4
52.5°	345.9
55°	323.2
57.5°	298.0
60°	270.5
62.5°	243.0
65°	215.4
67.5°	186.7
70°	159.2
72.5°	131.7
75°	104.1
77.5°	80.2
80°	56.3
82.5°	35.9
85°	19.1
87.5°	6.0
90°	0.0

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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.86	19.54	18.23	19.85	20.17	17.86	19.54	18.23	19.85	20.17
	3H	19.53	21.04	19.90	21.36	21.72	19.53	21.04	19.90	21.36	21.72
	4H	20.09	21.51	20.48	21.86	22.23	20.09	21.51	20.48	21.86	22.23
	6H	20.45	21.77	20.86	22.13	22.52	20.45	21.77	20.86	22.13	22.52
	8H	20.54	21.80	20.96	22.19	22.59	20.54	21.80	20.96	22.19	22.59
	12H	20.58	21.79	21.01	22.17	22.60	20.58	21.79	21.01	22.17	22.60
4H	2H	18.47	19.90	18.87	20.24	20.62	18.47	19.90	18.87	20.24	20.62
	3H	20.34	21.54	20.75	21.93	22.33	20.34	21.54	20.75	21.93	22.33
	4H	21.01	22.09	21.44	22.50	22.94	21.01	22.09	21.44	22.50	22.94
	6H	21.48	22.42	21.93	22.86	23.32	21.48	22.42	21.93	22.86	23.32
	8H	21.60	22.48	22.06	22.93	23.39	21.60	22.48	22.06	22.93	23.39
	12H	21.67	22.47	22.15	22.94	23.41	21.67	22.47	22.15	22.94	23.41
8H	4H	21.27	22.16	21.73	22.60	23.06	21.27	22.16	21.73	22.60	23.06
	6H	21.83	22.56	22.32	23.05	23.52	21.83	22.56	22.32	23.05	23.52
	8H	22.00	22.66	22.51	23.16	23.65	22.00	22.66	22.51	23.16	23.65
	12H	22.11	22.69	22.62	23.18	23.74	22.11	22.69	22.62	23.18	23.74
12H	4H	21.29	22.09	21.77	22.56	23.03	21.29	22.09	21.77	22.56	23.03
	6H	21.86	22.52	22.37	23.02	23.51	21.86	22.52	22.37	23.02	23.51
	8H	22.07	22.65	22.58	23.14	23.70	22.07	22.65	22.58	23.14	23.70