

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: P866259

Luminaire Tested: PRLX-2002-M-930-55L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866259  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-2002-M-930-55L-L-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 6  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

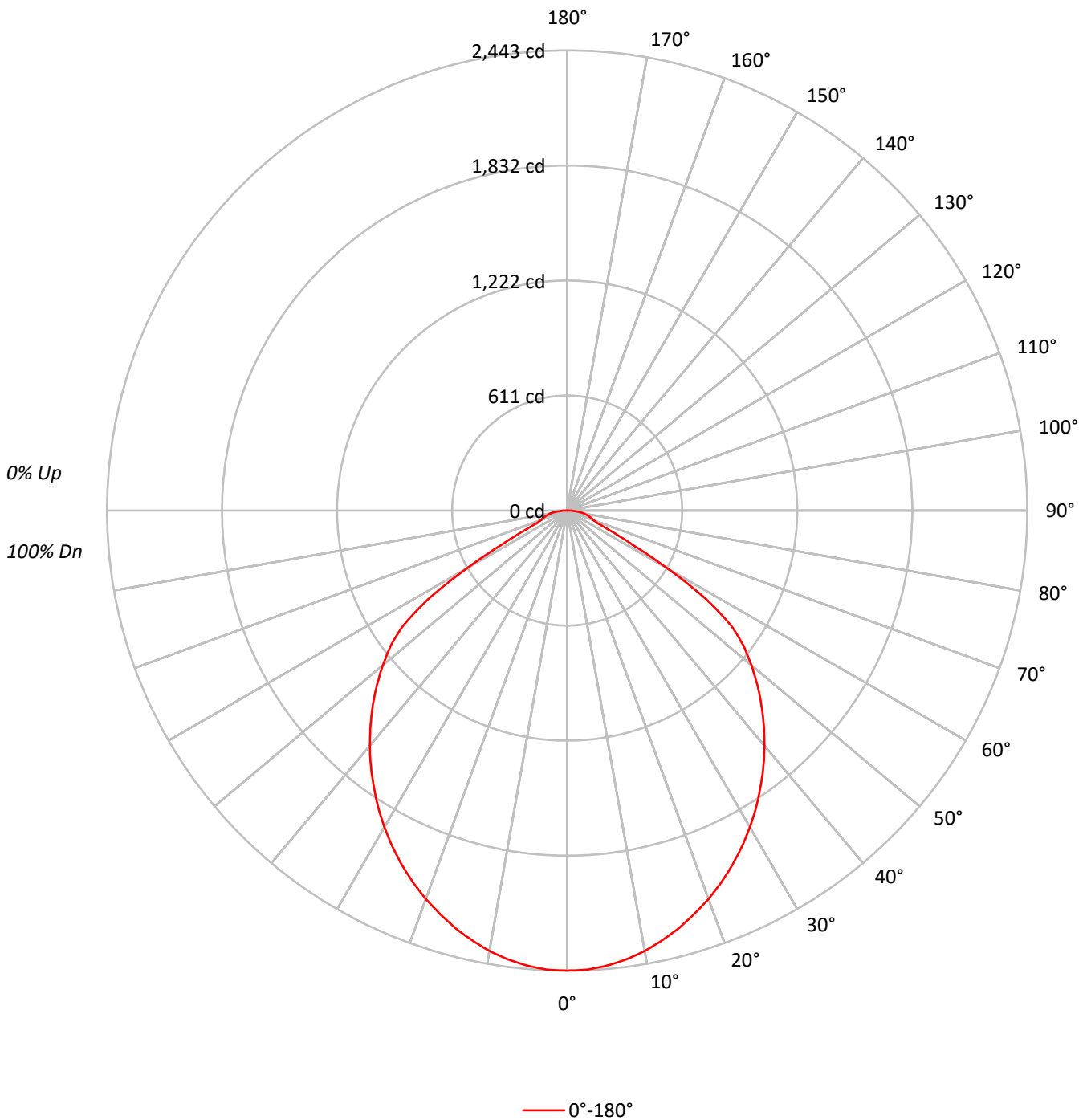
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5456.1 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 48.3  
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: 0.333 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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	58	53	63	57	53	62	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

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

	0°
0°	19435
5°	19369
10°	19179
15°	18904
20°	18577
25°	18221
30°	17833
35°	17390
40°	16924
45°	16409
50°	15805
55°	14730
60°	9892
65°	4682
70°	3436
75°	3689
80°	4087
85°	4537

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16409 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.9	4.2
10°-20°	646.6	11.9
20°-30°	955.9	17.5
30°-40°	1119.9	20.5
40°-50°	1124.2	20.6
50°-60°	907.3	16.6
60°-70°	293.3	5.4
70°-80°	126.7	2.3
80°-90°	52.3	1.0
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°	1832.4	33.6
0°-40°	2952.3	54.1
0°-60°	4983.8	91.3
0°-90°	5456.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5456.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2443	
5°	2425	230
15°	2295	647
25°	2076	956
35°	1790	1120
45°	1458	1124
55°	1062	907
65°	249	293
75°	120	127
85°	50	52
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2442.9
2.5°	2440.0
5°	2425.3
7.5°	2403.4
10°	2374.1
12.5°	2336.1
15°	2295.2
17.5°	2245.4
20°	2194.2
22.5°	2137.2
25°	2075.7
27.5°	2009.9
30°	1941.2
32.5°	1868.0
35°	1790.5
37.5°	1711.5
40°	1629.6
42.5°	1544.7
45°	1458.4
47.5°	1369.2
50°	1277.0
52.5°	1182.0
55°	1062.0
57.5°	876.2
60°	621.7
62.5°	389.1
65°	248.7
67.5°	171.1
70°	147.7
72.5°	136.0
75°	120.0
77.5°	105.3
80°	89.2
82.5°	71.7
85°	49.7
87.5°	26.3
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	21.04	22.54	21.41	22.86	23.17	21.04	22.54	21.41	22.86	23.17
	3H	21.15	22.48	21.53	22.81	23.17	21.15	22.48	21.53	22.81	23.17
	4H	21.24	22.48	21.64	22.83	23.21	21.24	22.48	21.64	22.83	23.21
	6H	21.35	22.50	21.77	22.87	23.26	21.35	22.50	21.77	22.87	23.26
	8H	21.41	22.50	21.84	22.89	23.29	21.41	22.50	21.84	22.89	23.29
	12H	21.46	22.50	21.89	22.88	23.31	21.46	22.50	21.89	22.88	23.31
4H	2H	21.01	22.25	21.41	22.60	22.98	21.01	22.25	21.41	22.60	22.98
	3H	21.21	22.23	21.62	22.63	23.03	21.21	22.23	21.62	22.63	23.03
	4H	21.37	22.28	21.80	22.69	23.13	21.37	22.28	21.80	22.69	23.13
	6H	21.59	22.38	22.05	22.82	23.28	21.59	22.38	22.05	22.82	23.28
	8H	21.69	22.43	22.16	22.88	23.34	21.69	22.43	22.16	22.88	23.34
	12H	21.79	22.45	22.28	22.93	23.40	21.79	22.45	22.28	22.93	23.40
8H	4H	21.38	22.12	21.85	22.57	23.04	21.38	22.12	21.85	22.57	23.04
	6H	21.68	22.30	22.18	22.79	23.27	21.68	22.30	22.18	22.79	23.27
	8H	21.85	22.41	22.37	22.92	23.40	21.85	22.41	22.37	22.92	23.40
	12H	22.03	22.52	22.54	23.02	23.58	22.03	22.52	22.54	23.02	23.58
12H	4H	21.37	22.03	21.86	22.51	22.99	21.37	22.03	21.86	22.51	22.99
	6H	21.69	22.24	22.20	22.75	23.24	21.69	22.24	22.20	22.75	23.24
	8H	21.90	22.40	22.42	22.89	23.46	21.90	22.40	22.42	22.89	23.46