

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: P866172

Luminaire Tested: PRLX-2002-M-927-35L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-41)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-927-35L-G-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

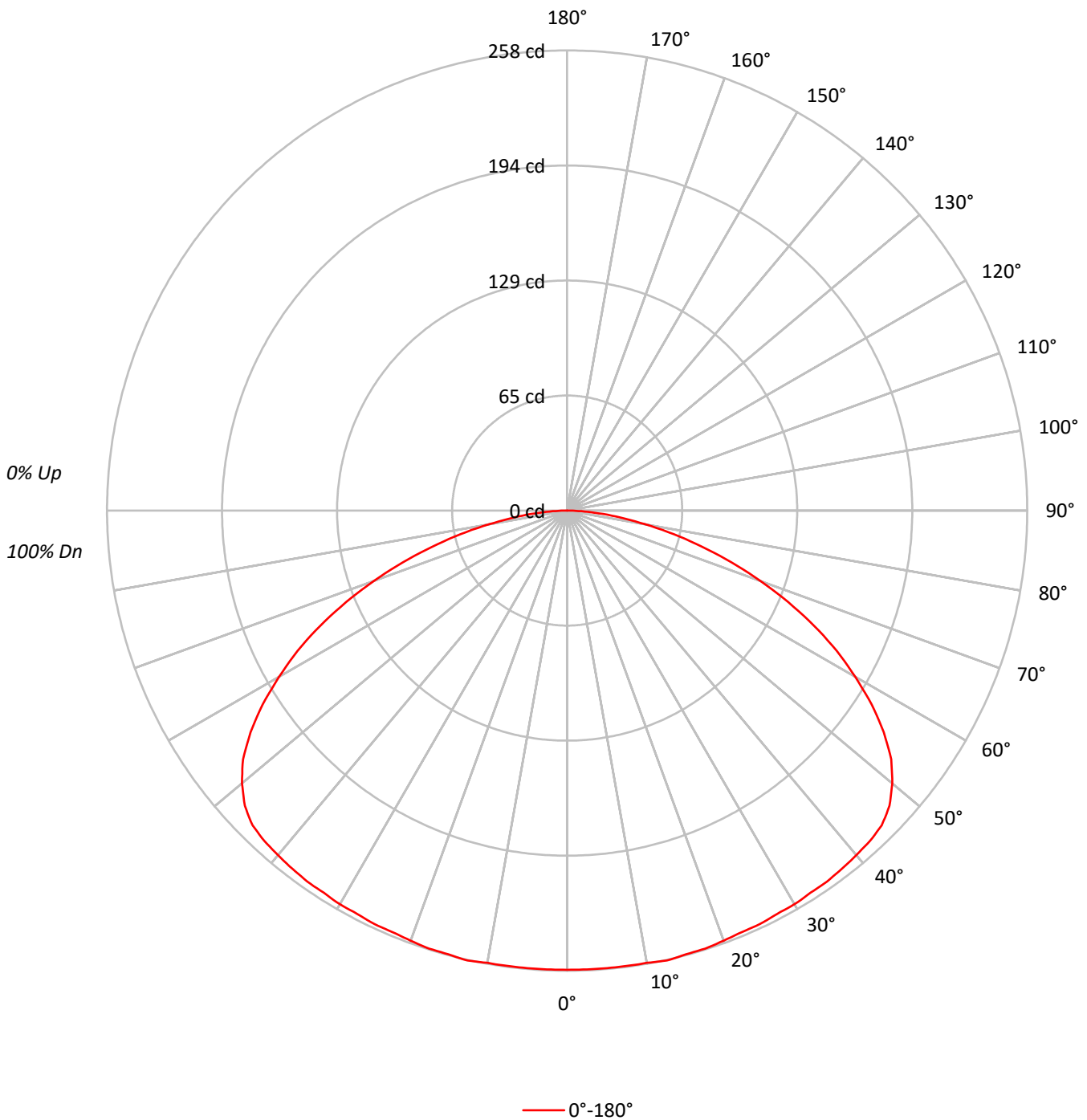
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1014.6 lumens  
Efficiency: N/A  
Efficacy: 33.8 lumens/watt  
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 30  
Input Voltage (V): 120  
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	67	61	57
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41
6	67	53	43	37	65	52	43	37	50	42	36	48	41	36	47	40	35
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27
9	53	39	31	25	52	39	31	25	38	30	25	36	30	25	35	29	24
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	26	22

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

	0°
0°	2049
5°	2056
10°	2080
15°	2121
20°	2172
25°	2245
30°	2342
35°	2467
40°	2619
45°	2807
50°	2946
55°	3006
60°	2967
65°	2875
70°	2684
75°	2401
80°	2034
85°	1625

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 55°  
 Luminance: 3006 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.6	2.4
10°-20°	73.0	7.2
20°-30°	118.3	11.7
30°-40°	159.3	15.7
40°-50°	191.7	18.9
50°-60°	192.6	19.0
60°-70°	150.5	14.8
70°-80°	83.3	8.2
80°-90°	21.3	2.1
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°	215.9	21.3
0°-40°	375.2	37.0
0°-60°	759.5	74.9
0°-90°	1014.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1014.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	258	
5°	258	25
15°	258	73
25°	256	118
35°	254	159
45°	250	192
55°	217	193
65°	153	150
75°	78	83
85°	18	21
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	257.5
2.5°	257.5
5°	257.5
7.5°	257.5
10°	257.5
12.5°	258.4
15°	257.5
17.5°	257.5
20°	256.6
22.5°	255.8
25°	255.8
27.5°	254.9
30°	254.9
32.5°	254.0
35°	254.0
37.5°	253.1
40°	252.2
42.5°	251.3
45°	249.5
47.5°	245.1
50°	238.0
52.5°	229.1
55°	216.7
57.5°	202.5
60°	186.5
62.5°	170.5
65°	152.7
67.5°	134.1
70°	115.4
72.5°	96.8
75°	78.1
77.5°	61.3
80°	44.4
82.5°	30.2
85°	17.8
87.5°	8.0
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	16.52	18.25	16.88	18.57	18.88	16.52	18.25	16.88	18.57	18.88
	3H	18.35	19.93	18.73	20.25	20.61	18.35	19.93	18.73	20.25	20.61
	4H	18.99	20.48	19.39	20.83	21.20	18.99	20.48	19.39	20.83	21.20
	6H	19.44	20.82	19.85	21.18	21.57	19.44	20.82	19.85	21.18	21.57
	8H	19.56	20.89	19.99	21.28	21.67	19.56	20.89	19.99	21.28	21.67
	12H	19.65	20.92	20.08	21.30	21.73	19.65	20.92	20.08	21.30	21.73
4H	2H	17.19	18.68	17.59	19.02	19.40	17.19	18.68	17.59	19.02	19.40
	3H	19.23	20.48	19.63	20.88	21.27	19.23	20.48	19.63	20.88	21.27
	4H	19.99	21.12	20.42	21.54	21.97	19.99	21.12	20.42	21.54	21.97
	6H	20.55	21.55	21.00	21.98	22.44	20.55	21.55	21.00	21.98	22.44
	8H	20.72	21.65	21.18	22.09	22.56	20.72	21.65	21.18	22.09	22.56
	12H	20.84	21.68	21.32	22.16	22.62	20.84	21.68	21.32	22.16	22.62
8H	4H	20.30	21.23	20.75	21.67	22.13	20.30	21.23	20.75	21.67	22.13
	6H	20.96	21.74	21.45	22.23	22.70	20.96	21.74	21.45	22.23	22.70
	8H	21.20	21.89	21.70	22.40	22.88	21.20	21.89	21.70	22.40	22.88
	12H	21.38	22.00	21.88	22.48	23.04	21.38	22.00	21.88	22.48	23.04
12H	4H	20.33	21.17	20.81	21.64	22.11	20.33	21.17	20.81	21.64	22.11
	6H	21.01	21.71	21.51	22.21	22.70	21.01	21.71	21.51	22.21	22.70
	8H	21.30	21.91	21.80	22.40	22.96	21.30	21.91	21.80	22.40	22.96