

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: P865588

Luminaire Tested: PRLX-2002-S-927-15L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-S-927-15L-G-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

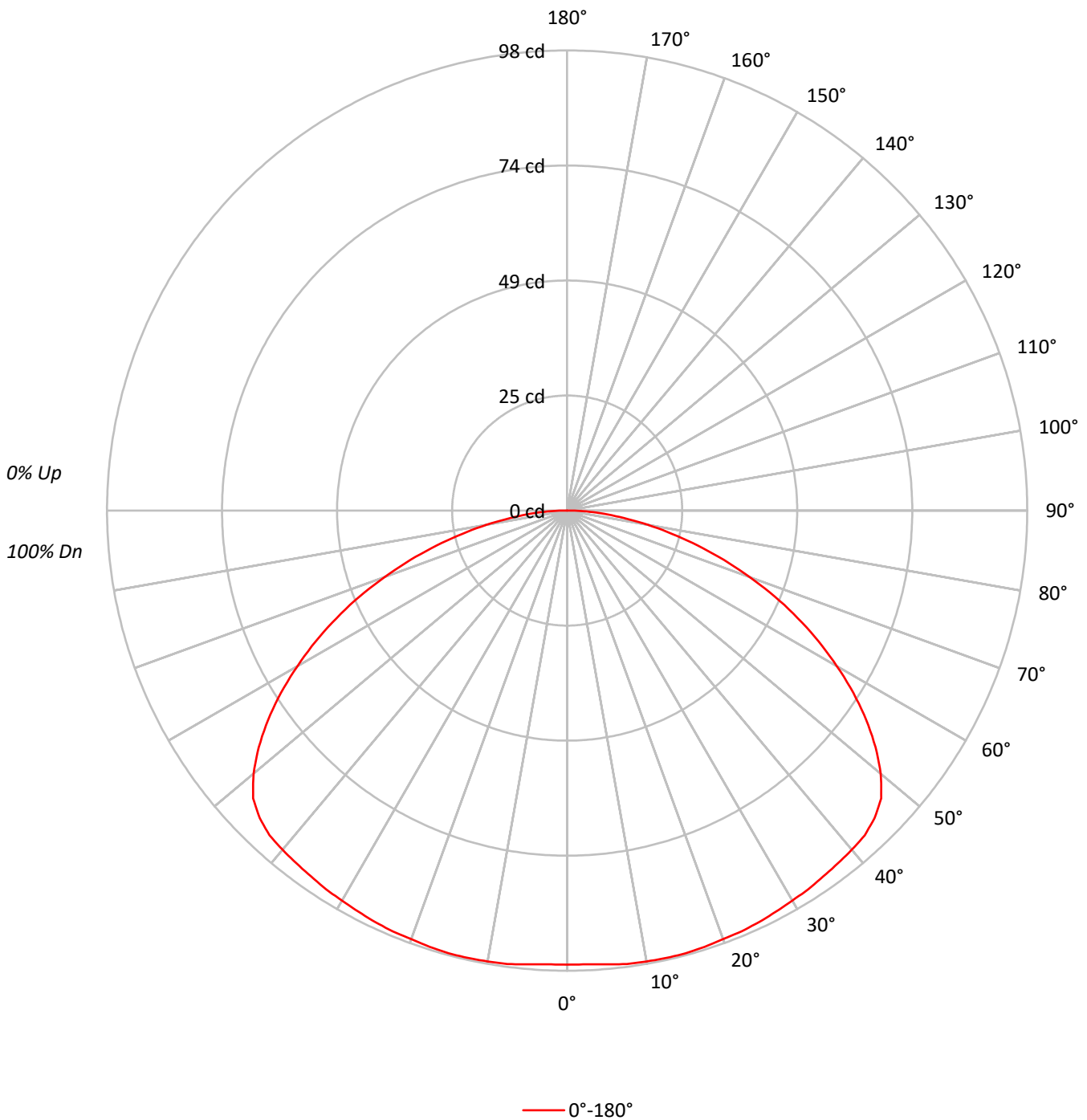
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 374.8 lumens  
Efficiency: N/A  
Efficacy: 24.0 lumens/watt  
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.65  
Luminous Opening: Circular (Dia: 0.85' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.6  
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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	59	69	63	58	67	62	57	55
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46
5	73	60	50	43	71	59	50	43	56	48	42	54	47	42	52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	37	49	42	36	47	41	36	34
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28	40	33	28	39	33	28	26
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23	34	27	22	33	27	22	21

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

	0°
0°	1816
5°	1829
10°	1860
15°	1898
20°	1941
25°	2004
30°	2080
35°	2181
40°	2312
45°	2460
50°	2548
55°	2548
60°	2495
65°	2409
70°	2268
75°	2090
80°	1882
85°	1681

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 2555 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.3	2.5
10°-20°	27.6	7.4
20°-30°	44.7	11.9
30°-40°	59.7	15.9
40°-50°	71.1	19.0
50°-60°	69.3	18.5
60°-70°	53.5	14.3
70°-80°	30.6	8.2
80°-90°	8.9	2.4
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°	81.6	21.8
0°-40°	141.3	37.7
0°-60°	281.8	75.2
0°-90°	374.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	374.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	97	
5°	97	9
15°	98	28
25°	97	45
35°	95	60
45°	93	71
55°	78	69
65°	54	54
75°	29	31
85°	8	9
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	96.7
2.5°	96.7
5°	97.0
7.5°	97.4
10°	97.5
12.5°	97.6
15°	97.6
17.5°	97.4
20°	97.1
22.5°	97.0
25°	96.7
27.5°	96.3
30°	95.9
32.5°	95.6
35°	95.1
37.5°	94.7
40°	94.3
42.5°	93.8
45°	92.6
47.5°	90.7
50°	87.2
52.5°	82.8
55°	77.8
57.5°	72.3
60°	66.4
62.5°	60.4
65°	54.2
67.5°	47.9
70°	41.3
72.5°	35.0
75°	28.8
77.5°	22.9
80°	17.4
82.5°	12.2
85°	7.8
87.5°	4.1
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	15.81	17.54	16.18	17.86	18.17	15.81	17.54	16.18	17.86	18.17
	3H	17.65	19.22	18.03	19.54	19.90	17.65	19.22	18.03	19.54	19.90
	4H	18.32	19.80	18.72	20.15	20.52	18.32	19.80	18.72	20.15	20.52
	6H	18.82	20.20	19.23	20.56	20.95	18.82	20.20	19.23	20.56	20.95
	8H	18.98	20.30	19.41	20.69	21.09	18.98	20.30	19.41	20.69	21.09
	12H	19.10	20.36	19.53	20.74	21.17	19.10	20.36	19.53	20.74	21.17
4H	2H	16.48	17.96	16.87	18.30	18.68	16.48	17.96	16.87	18.30	18.68
	3H	18.52	19.77	18.93	20.17	20.57	18.52	19.77	18.93	20.17	20.57
	4H	19.33	20.46	19.76	20.87	21.30	19.33	20.46	19.76	20.87	21.30
	6H	19.95	20.95	20.40	21.38	21.84	19.95	20.95	20.40	21.38	21.84
	8H	20.17	21.10	20.62	21.54	22.00	20.17	21.10	20.62	21.54	22.00
	12H	20.33	21.17	20.81	21.64	22.11	20.33	21.17	20.81	21.64	22.11
8H	4H	19.65	20.58	20.11	21.02	21.49	19.65	20.58	20.11	21.02	21.49
	6H	20.40	21.18	20.89	21.66	22.14	20.40	21.18	20.89	21.66	22.14
	8H	20.69	21.39	21.19	21.89	22.37	20.69	21.39	21.19	21.89	22.37
	12H	20.93	21.55	21.43	22.04	22.59	20.93	21.55	21.43	22.04	22.59
12H	4H	19.69	20.53	20.17	21.00	21.47	19.69	20.53	20.17	21.00	21.47
	6H	20.46	21.16	20.97	21.67	22.15	20.46	21.16	20.97	21.67	22.15
	8H	20.81	21.43	21.31	21.92	22.47	20.81	21.43	21.31	21.92	22.47