

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: P866284

Luminaire Tested: PRLX-2002-M-935-15L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866284  
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-935-15L-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 2  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

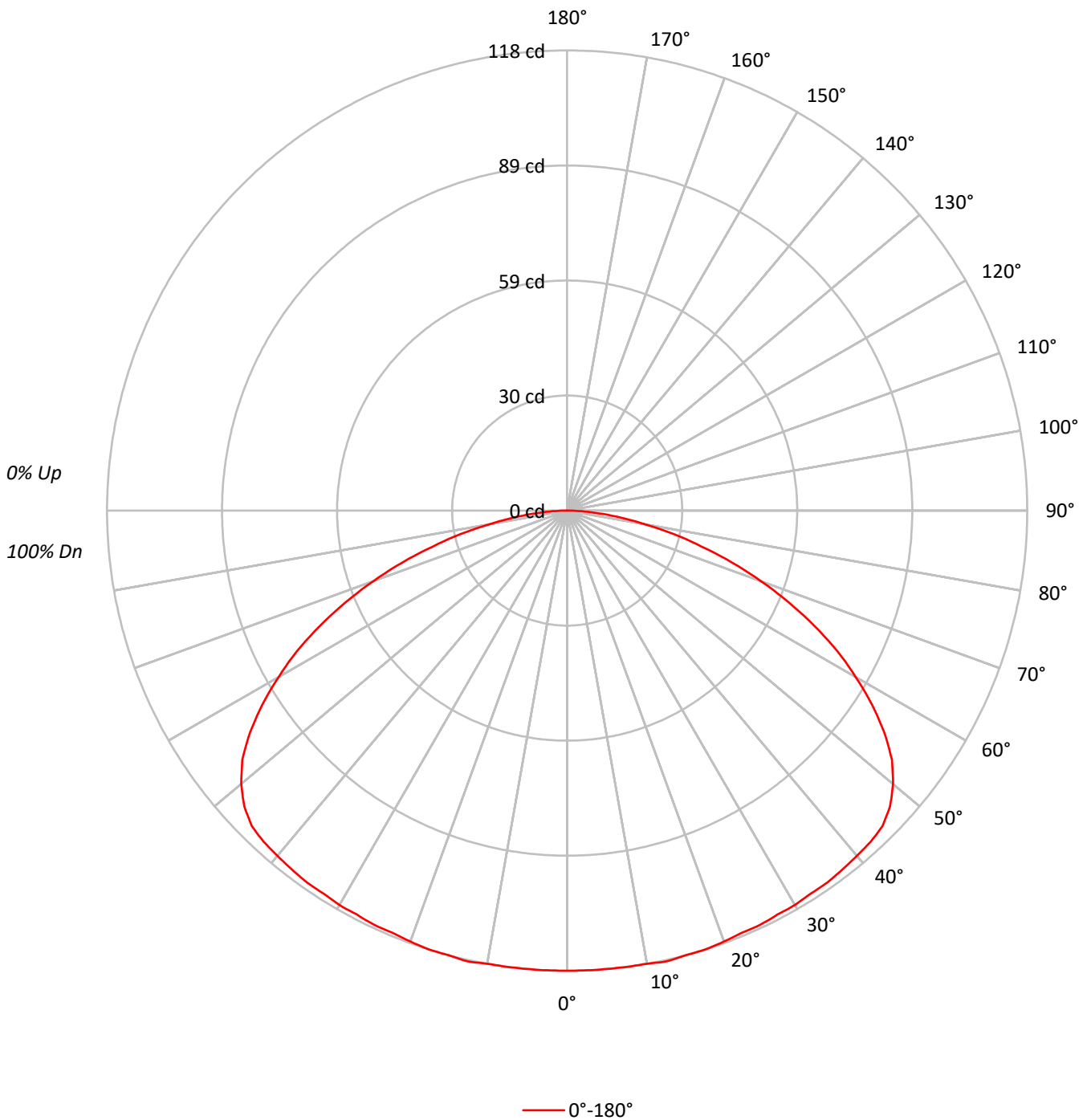
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 465.0 lumens  
Efficiency: N/A  
Efficacy: 33.2 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): 14  
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	
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	100
1	108	103	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	67	61	57	55
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36	48	41	36	47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25	36	30	25	35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	26	22	20

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

	0°
0°	939
5°	942
10°	953
15°	972
20°	996
25°	1029
30°	1073
35°	1130
40°	1201
45°	1287
50°	1350
55°	1377
60°	1360
65°	1318
70°	1231
75°	1100
80°	935
85°	739

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 55°  
 Luminance: 1377 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.3	2.4
10°-20°	33.5	7.2
20°-30°	54.2	11.7
30°-40°	73.0	15.7
40°-50°	87.9	18.9
50°-60°	88.3	19.0
60°-70°	69.0	14.8
70°-80°	38.2	8.2
80°-90°	9.7	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°	98.9	21.3
0°-40°	171.9	37.0
0°-60°	348.1	74.9
0°-90°	465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	465.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	118	
5°	118	11
15°	118	33
25°	117	54
35°	116	73
45°	114	88
55°	99	88
65°	70	69
75°	36	38
85°	8	10
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	118.0
2.5°	118.0
5°	118.0
7.5°	118.0
10°	118.0
12.5°	118.4
15°	118.0
17.5°	118.0
20°	117.6
22.5°	117.2
25°	117.2
27.5°	116.8
30°	116.8
32.5°	116.4
35°	116.4
37.5°	116.0
40°	115.6
42.5°	115.2
45°	114.4
47.5°	112.3
50°	109.1
52.5°	105.0
55°	99.3
57.5°	92.8
60°	85.5
62.5°	78.2
65°	70.0
67.5°	61.5
70°	52.9
72.5°	44.4
75°	35.8
77.5°	28.1
80°	20.4
82.5°	13.8
85°	8.1
87.5°	3.7
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	13.81	15.54	14.17	15.86	16.17	13.81	15.54	14.17	15.86	16.17
	3H	15.64	17.22	16.02	17.54	17.90	15.64	17.22	16.02	17.54	17.90
	4H	16.28	17.77	16.68	18.12	18.49	16.28	17.77	16.68	18.12	18.49
	6H	16.73	18.11	17.14	18.47	18.86	16.73	18.11	17.14	18.47	18.86
	8H	16.86	18.18	17.28	18.57	18.96	16.86	18.18	17.28	18.57	18.96
	12H	16.94	18.21	17.37	18.59	19.02	16.94	18.21	17.37	18.59	19.02
4H	2H	14.48	15.97	14.87	16.31	16.69	14.48	15.97	14.87	16.31	16.69
	3H	16.52	17.77	16.92	18.17	18.56	16.52	17.77	16.92	18.17	18.56
	4H	17.28	18.42	17.71	18.83	19.26	17.28	18.42	17.71	18.83	19.26
	6H	17.84	18.84	18.29	19.28	19.73	17.84	18.84	18.29	19.28	19.73
	8H	18.01	18.94	18.47	19.38	19.85	18.01	18.94	18.47	19.38	19.85
	12H	18.13	18.97	18.61	19.45	19.91	18.13	18.97	18.61	19.45	19.91
8H	4H	17.59	18.52	18.04	18.96	19.42	17.59	18.52	18.04	18.96	19.42
	6H	18.25	19.03	18.74	19.52	19.99	18.25	19.03	18.74	19.52	19.99
	8H	18.49	19.18	18.99	19.69	20.17	18.49	19.18	18.99	19.69	20.17
	12H	18.67	19.28	19.17	19.77	20.33	18.67	19.28	19.17	19.77	20.33
12H	4H	17.62	18.46	18.10	18.93	19.40	17.62	18.46	18.10	18.93	19.40
	6H	18.30	19.00	18.81	19.51	19.99	18.30	19.00	18.81	19.51	19.99
	8H	18.59	19.21	19.09	19.69	20.25	18.59	19.21	19.09	19.69	20.25