

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: P865631

Luminaire Tested: PRLX-2002-S-930-15L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865631  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-2002-S-930-15L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

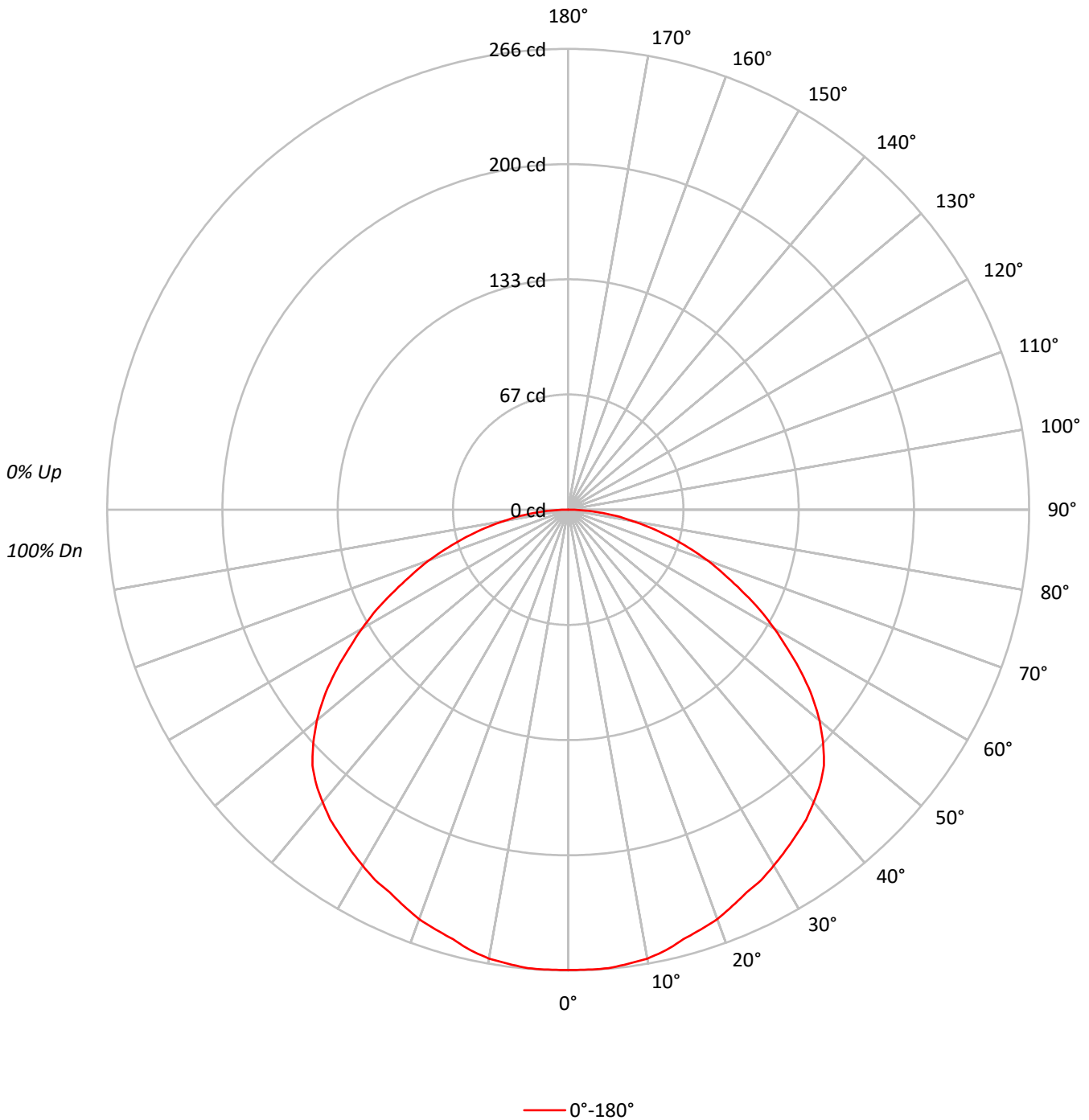
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 855.8 lumens  
Efficiency: N/A  
Efficacy: 54.9 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.49  
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	99	95	106	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	82	76	95	88	81	76	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

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

	0°
0°	4991
5°	5010
10°	5018
15°	4992
20°	5027
25°	5051
30°	5145
35°	5260
40°	5404
45°	5544
50°	5532
55°	5391
60°	5162
65°	4898
70°	4701
75°	4420
80°	4067
85°	3901

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 5550 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.3	3.0
10°-20°	72.7	8.5
20°-30°	112.8	13.2
30°-40°	143.8	16.8
40°-50°	160.0	18.7
50°-60°	146.7	17.1
60°-70°	109.7	12.8
70°-80°	64.5	7.5
80°-90°	20.3	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°	210.8	24.6
0°-40°	354.6	41.4
0°-60°	661.4	77.3
0°-90°	855.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	855.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	266	
5°	266	25
15°	257	73
25°	244	113
35°	229	144
45°	209	160
55°	165	147
65°	110	110
75°	61	64
85°	18	20
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	265.7
2.5°	265.7
5°	265.7
7.5°	264.4
10°	263.1
12.5°	260.5
15°	256.7
17.5°	254.1
20°	251.5
22.5°	247.6
25°	243.7
27.5°	241.1
30°	237.2
32.5°	233.3
35°	229.4
37.5°	225.5
40°	220.4
42.5°	215.2
45°	208.7
47.5°	199.6
50°	189.3
52.5°	177.6
55°	164.6
57.5°	150.4
60°	137.4
62.5°	124.4
65°	110.2
67.5°	97.2
70°	85.6
72.5°	72.6
75°	60.9
77.5°	49.3
80°	37.6
82.5°	28.5
85°	18.1
87.5°	9.1
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	18.09	19.77	18.46	20.09	20.40	18.09	19.77	18.46	20.09	20.40
	3H	19.88	21.40	20.25	21.73	22.09	19.88	21.40	20.25	21.73	22.09
	4H	20.57	22.01	20.97	22.36	22.73	20.57	22.01	20.97	22.36	22.73
	6H	21.11	22.44	21.52	22.80	23.19	21.11	22.44	21.52	22.80	23.19
	8H	21.30	22.58	21.73	22.97	23.37	21.30	22.58	21.73	22.97	23.37
	12H	21.45	22.67	21.88	23.05	23.48	21.45	22.67	21.88	23.05	23.48
4H	2H	18.72	20.15	19.11	20.50	20.88	18.72	20.15	19.11	20.50	20.88
	3H	20.74	21.95	21.14	22.34	22.74	20.74	21.95	21.14	22.34	22.74
	4H	21.57	22.66	22.00	23.08	23.51	21.57	22.66	22.00	23.08	23.51
	6H	22.24	23.20	22.69	23.64	24.09	22.24	23.20	22.69	23.64	24.09
	8H	22.49	23.39	22.95	23.83	24.30	22.49	23.39	22.95	23.83	24.30
	12H	22.70	23.51	23.17	23.98	24.45	22.70	23.51	23.17	23.98	24.45
8H	4H	21.90	22.80	22.36	23.24	23.71	21.90	22.80	22.36	23.24	23.71
	6H	22.71	23.46	23.20	23.94	24.42	22.71	23.46	23.20	23.94	24.42
	8H	23.05	23.72	23.55	24.23	24.71	23.05	23.72	23.55	24.23	24.71
	12H	23.34	23.94	23.84	24.43	24.99	23.34	23.94	23.84	24.43	24.99
12H	4H	21.94	22.76	22.42	23.23	23.70	21.94	22.76	22.42	23.23	23.70
	6H	22.78	23.45	23.28	23.96	24.44	22.78	23.45	23.28	23.96	24.44
	8H	23.19	23.79	23.69	24.27	24.83	23.19	23.79	23.69	24.27	24.83