

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: P866309

Luminaire Tested: PRLX-2002-M-935-45L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-935-45L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

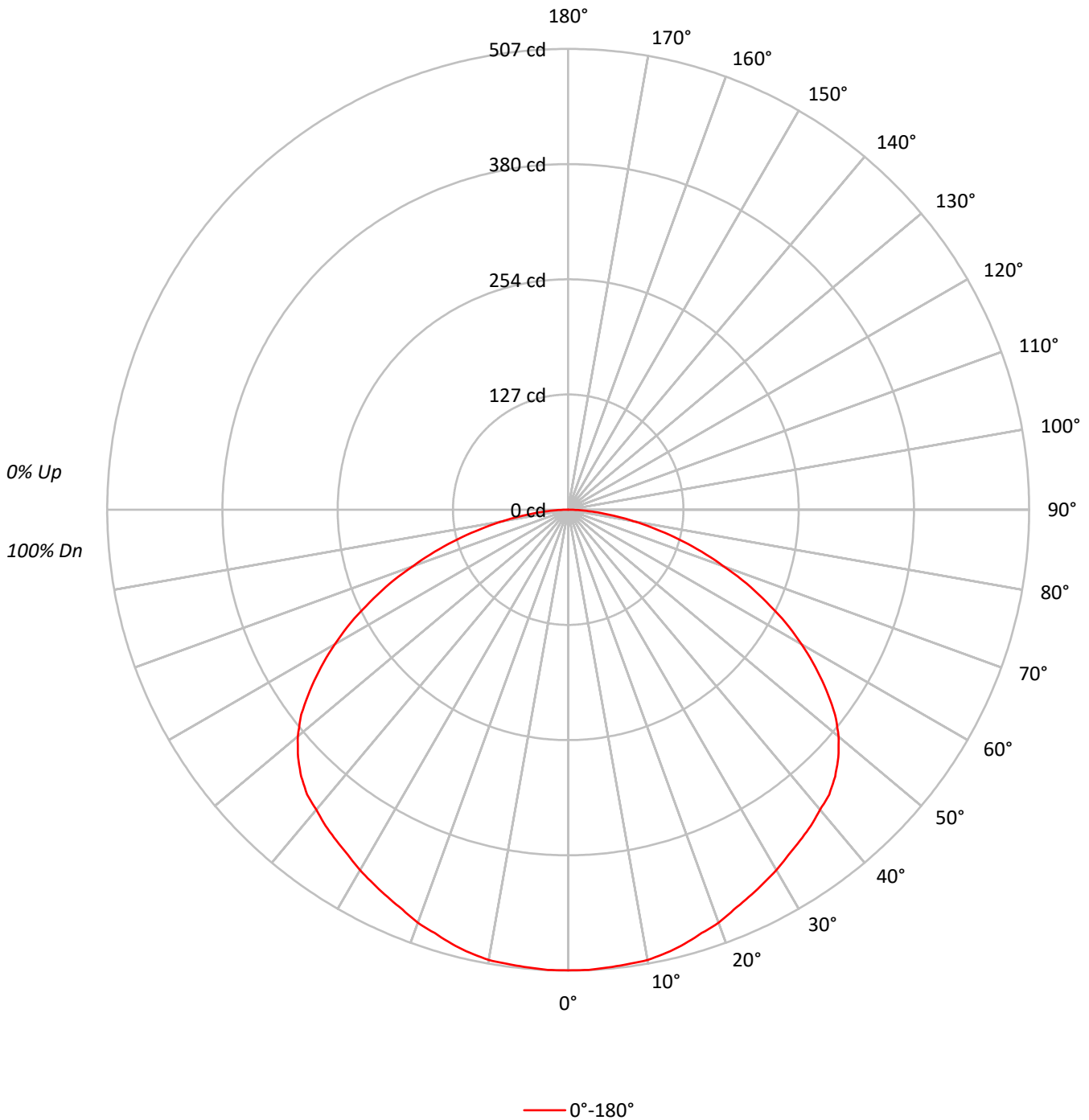
Lumens per Lamp: N/A
Luminaire Lumens: 1719.5 lumens
Efficiency: N/A
Efficacy: 44.3 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (A_{in}): 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	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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	44	72	59	51	44	57	50	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	45	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	26	39	31	26		38	31	26		37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4032
5°	4037
10°	4064
15°	4073
20°	4094
25°	4127
30°	4207
35°	4317
40°	4476
45°	4671
50°	4806
55°	4810
60°	4721
65°	4529
70°	4231
75°	3867
80°	3358
85°	2675

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 4835 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	2.8
10°-20°	139.7	8.1
20°-30°	217.3	12.6
30°-40°	278.9	16.2
40°-50°	319.5	18.6
50°-60°	309.1	18.0
60°-70°	238.1	13.8
70°-80°	133.5	7.8
80°-90°	35.2	2.0
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°	405.2	23.6
0°-40°	684.1	39.8
0°-60°	1312.8	76.3
0°-90°	1719.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1719.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	507	
5°	506	48
15°	494	140
25°	470	217
35°	444	279
45°	415	320
55°	347	309
65°	241	238
75°	126	133
85°	29	35
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	506.8
2.5°	506.8
5°	505.5
7.5°	504.3
10°	503.1
12.5°	499.4
15°	494.5
17.5°	488.4
20°	483.6
22.5°	476.2
25°	470.1
27.5°	464.0
30°	457.9
32.5°	450.6
35°	444.5
37.5°	438.4
40°	431.0
42.5°	424.9
45°	415.2
47.5°	403.0
50°	388.3
52.5°	370.0
55°	346.8
57.5°	322.4
60°	296.7
62.5°	269.9
65°	240.6
67.5°	212.5
70°	181.9
72.5°	153.9
75°	125.8
77.5°	98.9
80°	73.3
82.5°	50.1
85°	29.3
87.5°	13.4
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	17.96	19.66	18.32	19.98	20.29	17.96	19.66	18.32	19.98	20.29
	3H	19.77	21.31	20.14	21.64	22.00	19.77	21.31	20.14	21.64	22.00
	4H	20.42	21.88	20.82	22.22	22.60	20.42	21.88	20.82	22.22	22.60
	6H	20.88	22.24	21.29	22.60	22.99	20.88	22.24	21.29	22.60	22.99
	8H	21.02	22.32	21.45	22.71	23.10	21.02	22.32	21.45	22.71	23.10
	12H	21.11	22.35	21.54	22.73	23.16	21.11	22.35	21.54	22.73	23.16
4H	2H	18.61	20.07	19.01	20.42	20.79	18.61	20.07	19.01	20.42	20.79
	3H	20.63	21.86	21.04	22.25	22.65	20.63	21.86	21.04	22.25	22.65
	4H	21.41	22.52	21.84	22.93	23.36	21.41	22.52	21.84	22.93	23.36
	6H	21.99	22.97	22.44	23.40	23.86	21.99	22.97	22.44	23.40	23.86
	8H	22.18	23.09	22.63	23.53	23.99	22.18	23.09	22.63	23.53	23.99
	12H	22.30	23.13	22.78	23.60	24.07	22.30	23.13	22.78	23.60	24.07
8H	4H	21.72	22.63	22.18	23.07	23.53	21.72	22.63	22.18	23.07	23.53
	6H	22.41	23.17	22.91	23.66	24.13	22.41	23.17	22.91	23.66	24.13
	8H	22.66	23.35	23.17	23.85	24.33	22.66	23.35	23.17	23.85	24.33
	12H	22.86	23.46	23.36	23.95	24.51	22.86	23.46	23.36	23.95	24.51
12H	4H	21.75	22.57	22.23	23.05	23.51	21.75	22.57	22.23	23.05	23.51
	6H	22.47	23.15	22.97	23.65	24.14	22.47	23.15	22.97	23.65	24.14
	8H	22.77	23.37	23.28	23.86	24.42	22.77	23.37	23.28	23.86	24.42