

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: P867305

Luminaire Tested: PRLX-2004-L-935-100L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-935-100L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

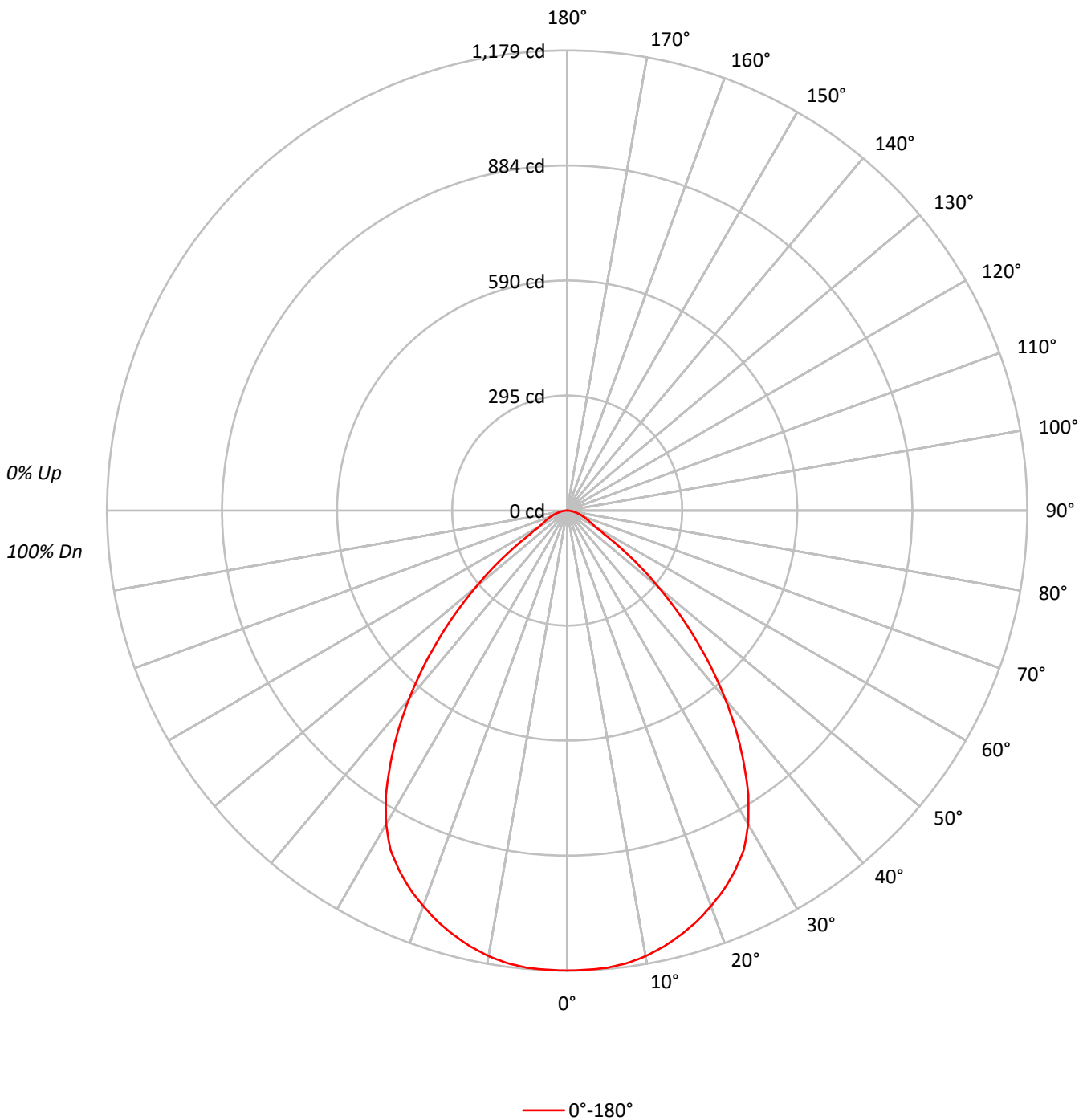
Lumens per Lamp: N/A
Luminaire Lumens: 2001.7 lumens
Efficiency: N/A
Efficacy: 25.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.17
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67	75	70	67	73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5815
5°	5824
10°	5807
15°	5748
20°	5661
25°	5540
30°	5286
35°	4753
40°	4062
45°	3246
50°	2356
55°	1446
60°	816
65°	696
70°	616
75°	560
80°	506
85°	453

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3246 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	5.6
10°-20°	317.2	15.8
20°-30°	466.9	23.3
30°-40°	490.1	24.5
40°-50°	357.7	17.9
50°-60°	157.6	7.9
60°-70°	60.1	3.0
70°-80°	31.2	1.6
80°-90°	9.2	0.5
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°	895.7	44.7
0°-40°	1385.8	69.2
0°-60°	1901.1	95.0
0°-90°	2001.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2001.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1179	
5°	1176	112
15°	1125	317
25°	1018	467
35°	789	490
45°	465	358
55°	168	158
65°	60	60
75°	29	31
85°	8	9
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1178.7
2.5°	1177.8
5°	1176.0
7.5°	1169.8
10°	1159.1
12.5°	1144.0
15°	1125.3
17.5°	1104.0
20°	1078.2
22.5°	1050.6
25°	1017.7
27.5°	980.3
30°	927.8
32.5°	863.8
35°	789.1
37.5°	711.7
40°	630.7
42.5°	548.0
45°	465.2
47.5°	383.4
50°	306.9
52.5°	234.8
55°	168.1
57.5°	113.9
60°	82.7
62.5°	70.3
65°	59.6
67.5°	50.7
70°	42.7
72.5°	35.6
75°	29.4
77.5°	23.1
80°	17.8
82.5°	13.3
85°	8.0
87.5°	3.6
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	8.95	10.25	9.32	10.57	10.88	8.95	10.25	9.32	10.57	10.88
	3H	9.83	10.98	10.21	11.31	11.68	9.83	10.98	10.21	11.31	11.68
	4H	10.18	11.25	10.59	11.61	11.99	10.18	11.25	10.59	11.61	11.99
	6H	10.45	11.43	10.86	11.80	12.19	10.45	11.43	10.86	11.80	12.19
	8H	10.54	11.47	10.97	11.86	12.27	10.54	11.47	10.97	11.86	12.27
	12H	10.60	11.48	11.03	11.87	12.30	10.60	11.48	11.03	11.87	12.30
4H	2H	9.18	10.25	9.58	10.60	10.98	9.18	10.25	9.58	10.60	10.98
	3H	10.28	11.15	10.69	11.55	11.95	10.28	11.15	10.69	11.55	11.95
	4H	10.75	11.52	11.18	11.94	12.39	10.75	11.52	11.18	11.94	12.39
	6H	11.13	11.80	11.59	12.25	12.71	11.13	11.80	11.59	12.25	12.71
	8H	11.27	11.89	11.74	12.34	12.81	11.27	11.89	11.74	12.34	12.81
	12H	11.36	11.92	11.85	12.40	12.87	11.36	11.92	11.85	12.40	12.87
8H	4H	10.88	11.51	11.35	11.95	12.43	10.88	11.51	11.35	11.95	12.43
	6H	11.37	11.88	11.87	12.38	12.86	11.37	11.88	11.87	12.38	12.86
	8H	11.57	12.03	12.09	12.55	13.04	11.57	12.03	12.09	12.55	13.04
	12H	11.74	12.15	12.25	12.64	13.21	11.74	12.15	12.25	12.64	13.21
12H	4H	10.87	11.43	11.36	11.91	12.39	10.87	11.43	11.36	11.91	12.39
	6H	11.38	11.84	11.90	12.36	12.85	11.38	11.84	11.90	12.36	12.85
	8H	11.64	12.05	12.15	12.54	13.11	11.64	12.05	12.15	12.54	13.11