

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: P866321

Luminaire Tested: PRLX-2002-M-935-55L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-M-935-55L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

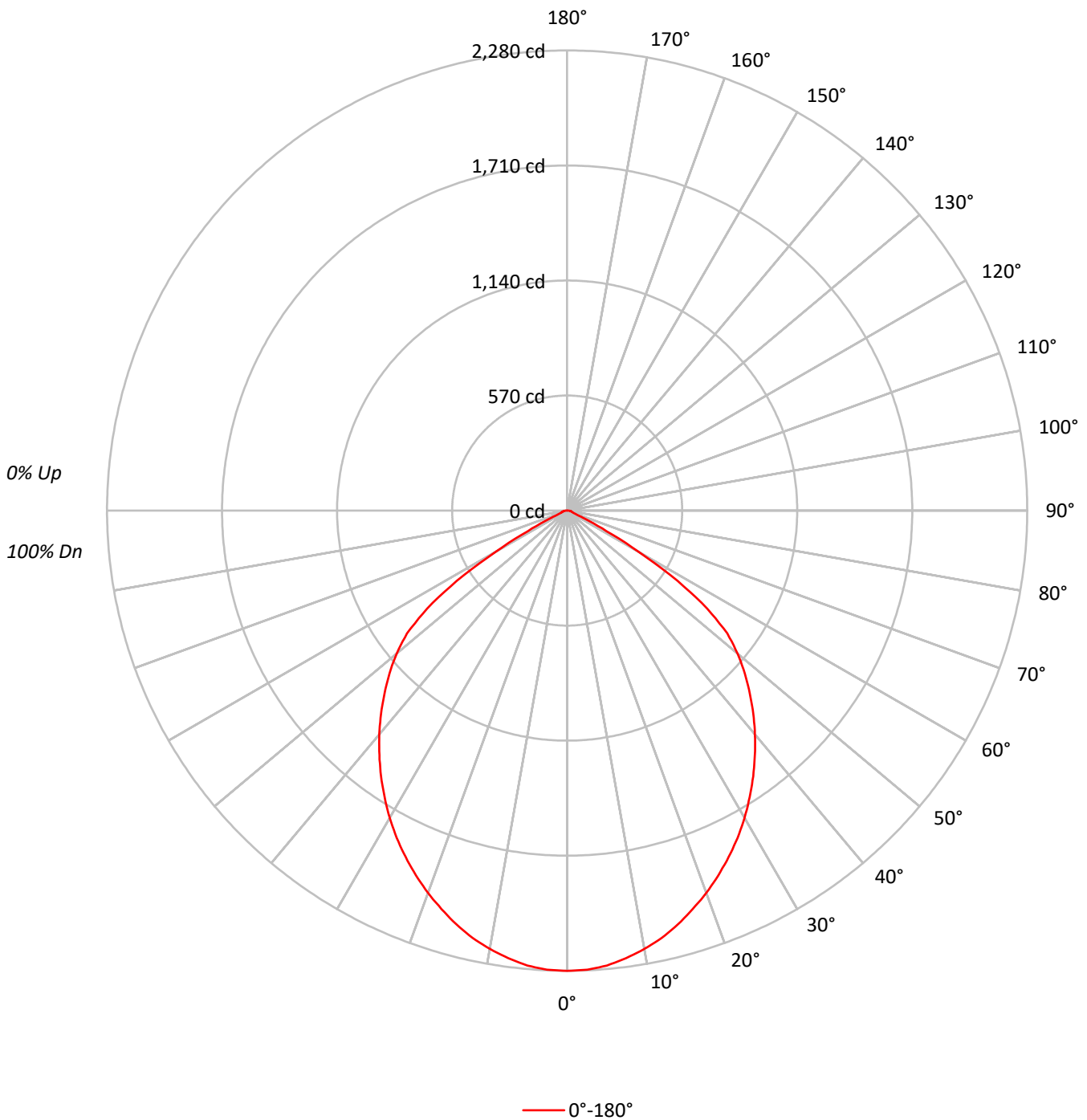
Lumens per Lamp: N/A
Luminaire Lumens: 4578.9 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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

TEST NUMBER: P866321

CATALOG NUMBER: PRLX-2002-M-935-55L-L-U-S-X-X-BRSS-X

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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35
10	58	46	39	34	57	45	38	34	44	38	34	44	38	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18143
5°	18069
10°	17820
15°	17480
20°	17071
25°	16625
30°	16151
35°	15611
40°	15035
45°	14390
50°	13651
55°	11758
60°	6482
65°	1826
70°	728
75°	781
80°	889
85°	1086

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14390 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.1	4.7
10°-20°	597.6	13.1
20°-30°	872.0	19.0
30°-40°	1004.8	21.9
40°-50°	986.5	21.5
50°-60°	723.4	15.8
60°-70°	141.7	3.1
70°-80°	26.8	0.6
80°-90°	12.0	0.3
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°	1683.7	36.8
0°-40°	2688.5	58.7
0°-60°	4398.4	96.1
0°-90°	4578.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4578.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2280	
5°	2263	214
15°	2122	598
25°	1894	872
35°	1607	1005
45°	1279	986
55°	848	723
65°	97	142
75°	25	27
85°	12	12
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2280.5
2.5°	2277.5
5°	2262.6
7.5°	2237.2
10°	2205.8
12.5°	2168.5
15°	2122.3
17.5°	2070.0
20°	2016.3
22.5°	1956.6
25°	1893.9
27.5°	1828.3
30°	1758.1
32.5°	1683.5
35°	1607.4
37.5°	1528.3
40°	1447.7
42.5°	1365.6
45°	1279.0
47.5°	1194.0
50°	1102.9
52.5°	999.9
55°	847.7
57.5°	649.2
60°	407.4
62.5°	219.4
65°	97.0
67.5°	44.8
70°	31.3
72.5°	28.4
75°	25.4
77.5°	22.4
80°	19.4
82.5°	16.4
85°	11.9
87.5°	6.0
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	19.61	21.04	19.98	21.36	21.67	19.61	21.04	19.98	21.36	21.67
	3H	19.52	20.78	19.90	21.11	21.47	19.52	20.78	19.90	21.11	21.47
	4H	19.47	20.64	19.87	20.99	21.37	19.47	20.64	19.87	20.99	21.37
	6H	19.41	20.49	19.83	20.85	21.25	19.41	20.49	19.83	20.85	21.25
	8H	19.38	20.40	19.81	20.79	21.19	19.38	20.40	19.81	20.79	21.19
	12H	19.35	20.33	19.79	20.71	21.14	19.35	20.33	19.79	20.71	21.14
4H	2H	19.48	20.65	19.88	21.00	21.38	19.48	20.65	19.88	21.00	21.38
	3H	19.39	20.34	19.81	20.74	21.14	19.39	20.34	19.81	20.74	21.14
	4H	19.33	20.17	19.77	20.59	21.03	19.33	20.17	19.77	20.59	21.03
	6H	19.29	20.01	19.75	20.46	20.92	19.29	20.01	19.75	20.46	20.92
	8H	19.25	19.93	19.72	20.38	20.85	19.25	19.93	19.72	20.38	20.85
	12H	19.23	19.83	19.71	20.31	20.78	19.23	19.83	19.71	20.31	20.78
8H	4H	19.22	19.89	19.69	20.34	20.81	19.22	19.89	19.69	20.34	20.81
	6H	19.16	19.72	19.66	20.21	20.69	19.16	19.72	19.66	20.21	20.69
	8H	19.12	19.63	19.64	20.15	20.64	19.12	19.63	19.64	20.15	20.64
	12H	19.11	19.56	19.62	20.06	20.63	19.11	19.56	19.62	20.06	20.63
12H	4H	19.18	19.78	19.66	20.26	20.73	19.18	19.78	19.66	20.26	20.73
	6H	19.10	19.61	19.62	20.12	20.61	19.10	19.61	19.62	20.12	20.61
	8H	19.09	19.54	19.60	20.04	20.61	19.09	19.54	19.60	20.04	20.61