

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: P866317

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866317
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: Pentalux
Catalog Number: PRLX-2002-M-935-55L-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 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

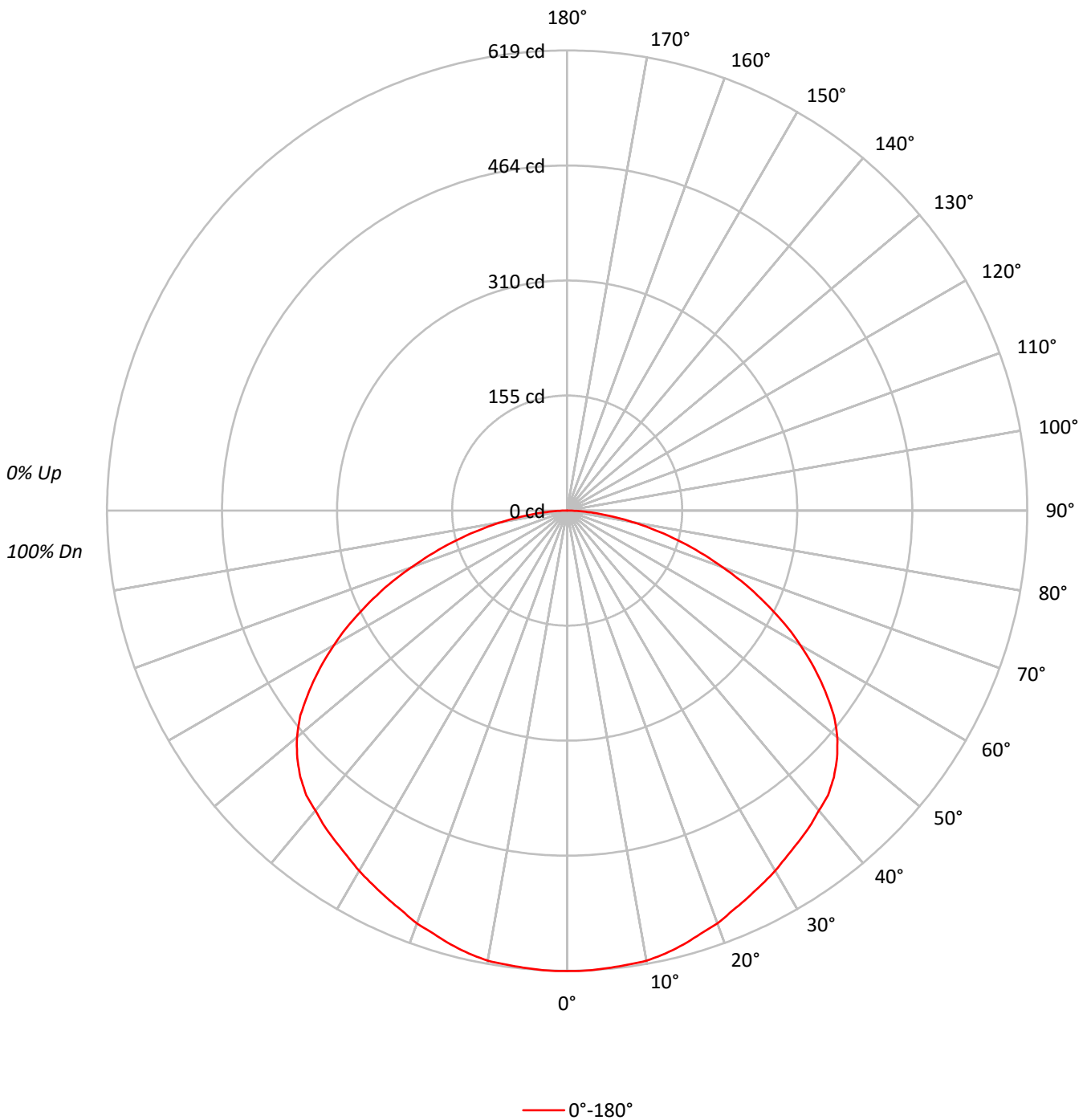
Lumens per Lamp: N/A
Luminaire Lumens: 2101.6 lumens
Efficiency: N/A
Efficacy: 43.5 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (Ain): 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°	4928
5°	4935
10°	4967
15°	4978
20°	5004
25°	5044
30°	5142
35°	5277
40°	5471
45°	5709
50°	5874
55°	5880
60°	5771
65°	5535
70°	5173
75°	4725
80°	4100
85°	3268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 5910 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	2.8
10°-20°	170.8	8.1
20°-30°	265.6	12.6
30°-40°	340.9	16.2
40°-50°	390.5	18.6
50°-60°	377.8	18.0
60°-70°	291.0	13.8
70°-80°	163.1	7.8
80°-90°	43.0	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°	495.3	23.6
0°-40°	836.2	39.8
0°-60°	1604.5	76.3
0°-90°	2101.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	619	
5°	618	59
15°	604	171
25°	575	266
35°	543	341
45°	507	391
55°	424	378
65°	294	291
75°	154	163
85°	36	43
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	619.4
2.5°	619.4
5°	617.9
7.5°	616.4
10°	614.9
12.5°	610.4
15°	604.4
17.5°	597.0
20°	591.0
22.5°	582.1
25°	574.6
27.5°	567.1
30°	559.7
32.5°	550.7
35°	543.3
37.5°	535.8
40°	526.8
42.5°	519.4
45°	507.4
47.5°	492.5
50°	474.6
52.5°	452.2
55°	423.9
57.5°	394.0
60°	362.7
62.5°	329.8
65°	294.0
67.5°	259.7
70°	222.4
72.5°	188.0
75°	153.7
77.5°	120.9
80°	89.5
82.5°	61.2
85°	35.8
87.5°	16.4
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	18.66	20.36	19.02	20.67	20.99	18.66	20.36	19.02	20.67	20.99
	3H	20.47	22.01	20.84	22.33	22.69	20.47	22.01	20.84	22.33	22.69
	4H	21.12	22.57	21.52	22.92	23.30	21.12	22.57	21.52	22.92	23.30
	6H	21.58	22.93	21.99	23.30	23.69	21.58	22.93	21.99	23.30	23.69
	8H	21.72	23.01	22.14	23.40	23.80	21.72	23.01	22.14	23.40	23.80
	12H	21.81	23.05	22.24	23.43	23.86	21.81	23.05	22.24	23.43	23.86
4H	2H	19.31	20.76	19.71	21.11	21.49	19.31	20.76	19.71	21.11	21.49
	3H	21.33	22.55	21.74	22.95	23.35	21.33	22.55	21.74	22.95	23.35
	4H	22.10	23.21	22.53	23.63	24.06	22.10	23.21	22.53	23.63	24.06
	6H	22.69	23.66	23.14	24.10	24.55	22.69	23.66	23.14	24.10	24.55
	8H	22.87	23.78	23.33	24.22	24.69	22.87	23.78	23.33	24.22	24.69
	12H	23.00	23.82	23.48	24.30	24.76	23.00	23.82	23.48	24.30	24.76
8H	4H	22.41	23.32	22.87	23.77	24.23	22.41	23.32	22.87	23.77	24.23
	6H	23.11	23.87	23.60	24.36	24.83	23.11	23.87	23.60	24.36	24.83
	8H	23.36	24.04	23.87	24.55	25.03	23.36	24.04	23.87	24.55	25.03
	12H	23.55	24.15	24.06	24.64	25.20	23.55	24.15	24.06	24.64	25.20
12H	4H	22.45	23.27	22.93	23.74	24.21	22.45	23.27	22.93	23.74	24.21
	6H	23.16	23.85	23.67	24.35	24.83	23.16	23.85	23.67	24.35	24.83
	8H	23.47	24.07	23.97	24.56	25.12	23.47	24.07	23.97	24.56	25.12