

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: P867085

Luminaire Tested: PRLX-2002-L-935-48L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-935-48L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

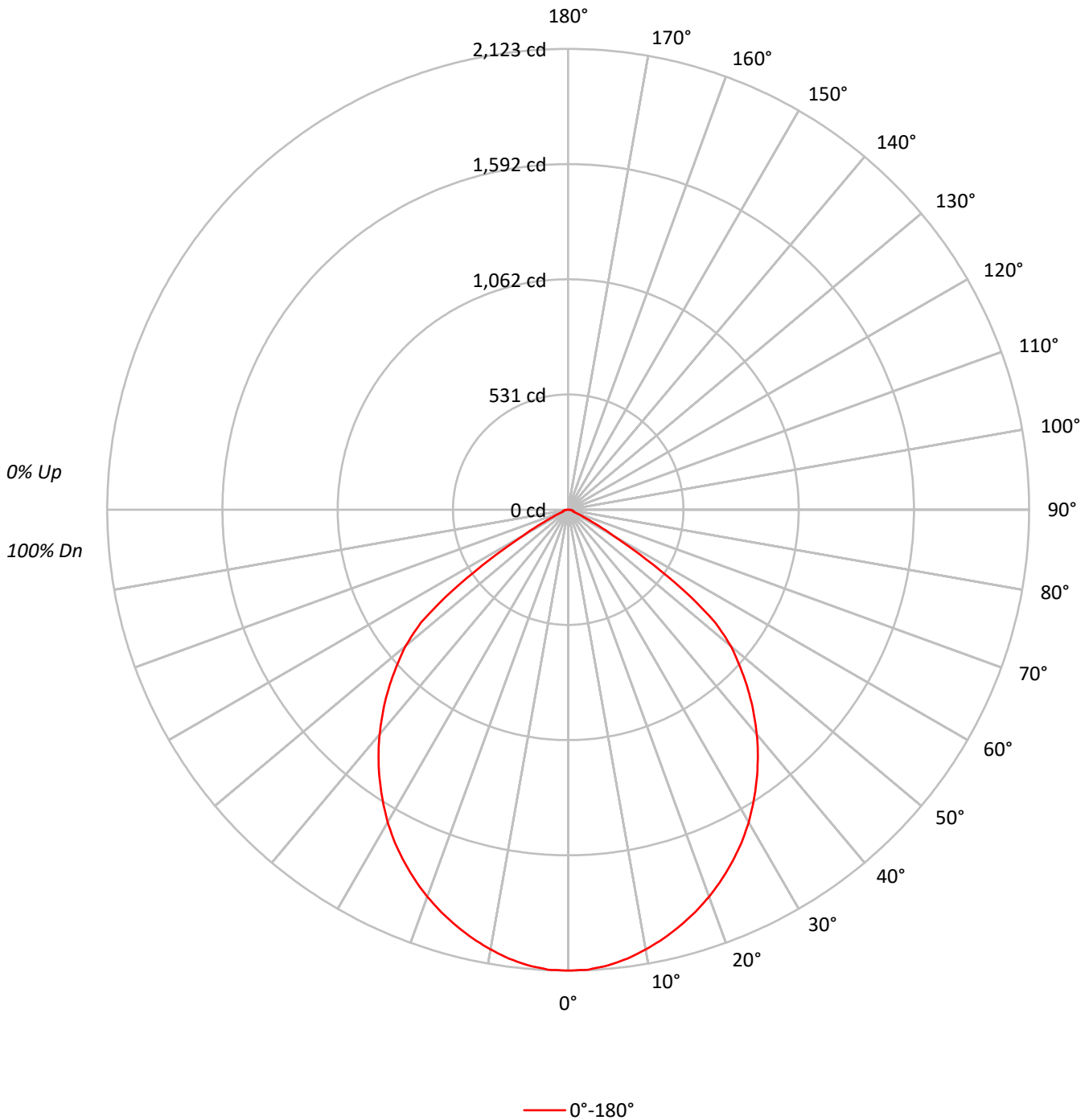
Lumens per Lamp: N/A
Luminaire Lumens: 4122.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	77	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	46	39	35	45	39	35	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10475
5°	10437
10°	10306
15°	10144
20°	9962
25°	9739
30°	9471
35°	9121
40°	8705
45°	8175
50°	7511
55°	5649
60°	2378
65°	877
70°	402
75°	440
80°	509
85°	594

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8175 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.6	4.8
10°-20°	559.8	13.6
20°-30°	823.4	20.0
30°-40°	945.7	22.9
40°-50°	900.9	21.9
50°-60°	564.2	13.7
60°-70°	93.4	2.3
70°-80°	24.4	0.6
80°-90°	10.6	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°	1582.8	38.4
0°-40°	2528.5	61.3
0°-60°	3993.6	96.9
0°-90°	4122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4122.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2123	
5°	2107	200
15°	1986	560
25°	1789	823
35°	1514	946
45°	1172	901
55°	657	564
65°	75	93
75°	23	24
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2123.1
2.5°	2120.9
5°	2107.3
7.5°	2085.9
10°	2057.1
12.5°	2024.4
15°	1985.9
17.5°	1944.0
20°	1897.3
22.5°	1845.3
25°	1789.0
27.5°	1729.2
30°	1662.4
32.5°	1589.9
35°	1514.4
37.5°	1434.9
40°	1351.5
42.5°	1262.8
45°	1171.6
47.5°	1074.2
50°	978.6
52.5°	854.6
55°	656.7
57.5°	424.4
60°	241.0
62.5°	136.7
65°	75.1
67.5°	35.4
70°	27.9
72.5°	25.8
75°	23.1
77.5°	20.5
80°	17.9
82.5°	14.4
85°	10.5
87.5°	5.2
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	15.38	16.77	15.74	17.09	17.40	15.38	16.77	15.74	17.09	17.40
	3H	15.30	16.52	15.67	16.85	17.21	15.30	16.52	15.67	16.85	17.21
	4H	15.25	16.39	15.65	16.74	17.12	15.25	16.39	15.65	16.74	17.12
	6H	15.21	16.26	15.63	16.62	17.02	15.21	16.26	15.63	16.62	17.02
	8H	15.19	16.18	15.62	16.57	16.97	15.19	16.18	15.62	16.57	16.97
	12H	15.17	16.11	15.60	16.49	16.92	15.17	16.11	15.60	16.49	16.92
4H	2H	15.25	16.39	15.65	16.74	17.12	15.25	16.39	15.65	16.74	17.12
	3H	15.18	16.10	15.59	16.50	16.91	15.18	16.10	15.59	16.50	16.91
	4H	15.14	15.95	15.57	16.37	16.82	15.14	15.95	15.57	16.37	16.82
	6H	15.12	15.82	15.58	16.27	16.73	15.12	15.82	15.58	16.27	16.73
	8H	15.10	15.76	15.57	16.20	16.67	15.10	15.76	15.57	16.20	16.67
	12H	15.09	15.67	15.57	16.15	16.62	15.09	15.67	15.57	16.15	16.62
8H	4H	15.03	15.69	15.50	16.13	16.61	15.03	15.69	15.50	16.13	16.61
	6H	15.01	15.55	15.51	16.05	16.53	15.01	15.55	15.51	16.05	16.53
	8H	15.00	15.49	15.52	16.00	16.49	15.00	15.49	15.52	16.00	16.49
	12H	15.00	15.45	15.52	15.94	16.51	15.00	15.45	15.52	15.94	16.51
12H	4H	14.99	15.57	15.48	16.06	16.53	14.99	15.57	15.48	16.06	16.53
	6H	14.96	15.45	15.48	15.96	16.46	14.96	15.45	15.48	15.96	16.46
	8H	14.97	15.41	15.48	15.91	16.48	14.97	15.41	15.48	15.91	16.48