

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: P866965

Luminaire Tested: PRLX-2002-L-927-67L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866965
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-927-67L-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 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

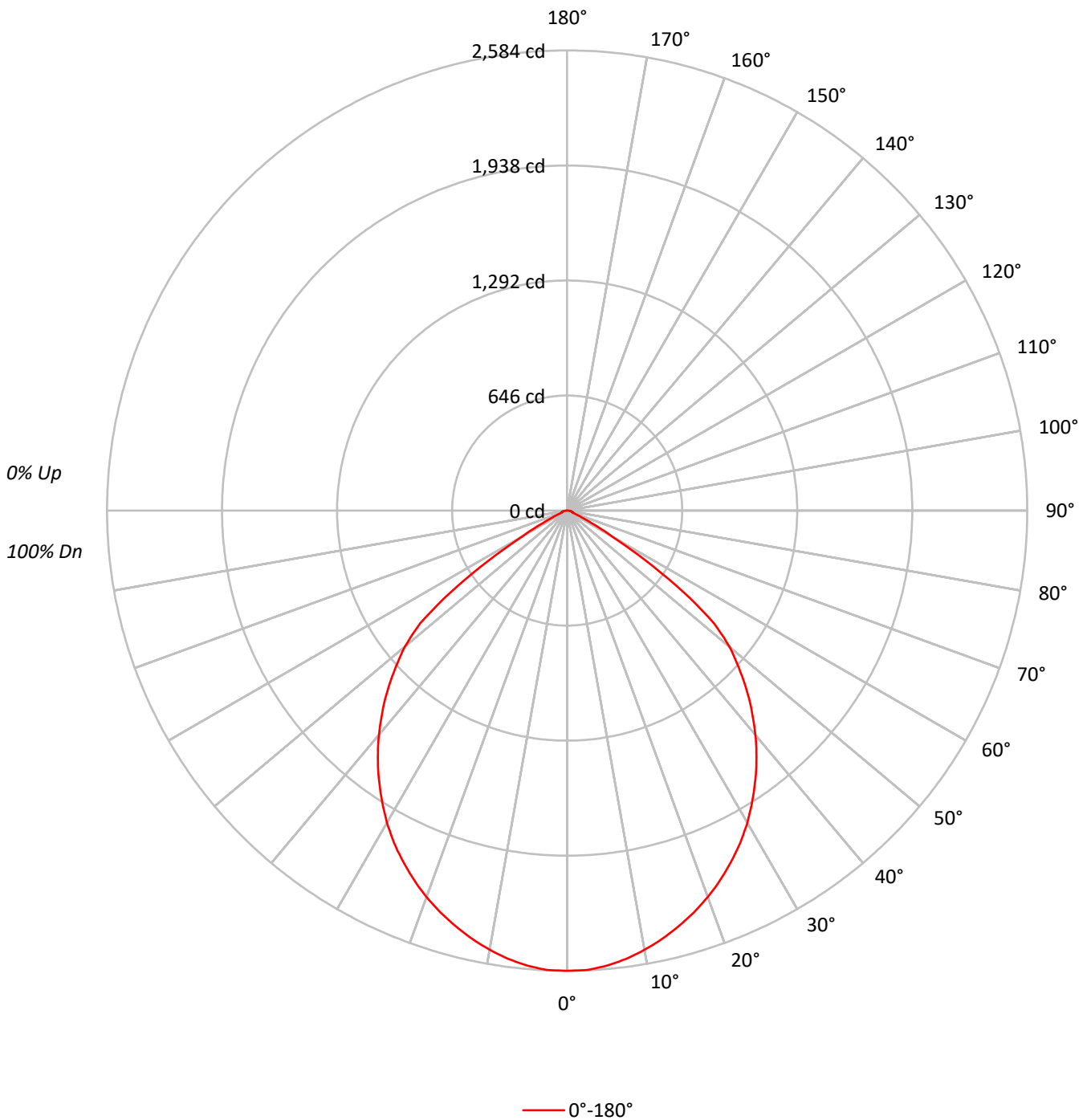
Lumens per Lamp: N/A
Luminaire Lumens: 5017.6 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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

TEST NUMBER: P866965

CATALOG NUMBER: PRLX-2002-L-927-67L-L-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	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°	12750
5°	12705
10°	12545
15°	12348
20°	12126
25°	11855
30°	11529
35°	11103
40°	10595
45°	9951
50°	9143
55°	6876
60°	2895
65°	1067
70°	490
75°	538
80°	619
85°	725

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9951 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.9	4.8
10°-20°	681.4	13.6
20°-30°	1002.4	20.0
30°-40°	1151.2	22.9
40°-50°	1096.6	21.9
50°-60°	686.8	13.7
60°-70°	113.7	2.3
70°-80°	29.7	0.6
80°-90°	13.0	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°	1926.7	38.4
0°-40°	3077.9	61.3
0°-60°	4861.3	96.9
0°-90°	5017.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5017.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2584	
5°	2565	243
15°	2417	681
25°	2178	1002
35°	1843	1151
45°	1426	1097
55°	799	687
65°	91	114
75°	28	30
85°	13	13
90°	0	

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CATALOG NUMBER: PRLX-2002-L-927-67L-L-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	2584.3
2.5°	2581.7
5°	2565.2
7.5°	2539.2
10°	2504.1
12.5°	2464.2
15°	2417.4
17.5°	2366.4
20°	2309.5
22.5°	2246.3
25°	2177.7
27.5°	2104.9
30°	2023.6
32.5°	1935.3
35°	1843.4
37.5°	1746.6
40°	1645.1
42.5°	1537.2
45°	1426.1
47.5°	1307.6
50°	1191.2
52.5°	1040.2
55°	799.4
57.5°	516.7
60°	293.4
62.5°	166.4
65°	91.4
67.5°	43.1
70°	34.0
72.5°	31.4
75°	28.2
77.5°	25.0
80°	21.8
82.5°	17.5
85°	12.8
87.5°	6.4
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	16.06	17.46	16.43	17.77	18.08	16.06	17.46	16.43	17.77	18.08
	3H	15.98	17.20	16.36	17.53	17.90	15.98	17.20	16.36	17.53	17.90
	4H	15.94	17.07	16.34	17.42	17.81	15.94	17.07	16.34	17.42	17.81
	6H	15.90	16.94	16.31	17.31	17.70	15.90	16.94	16.31	17.31	17.70
	8H	15.87	16.86	16.30	17.25	17.66	15.87	16.86	16.30	17.25	17.66
	12H	15.85	16.80	16.28	17.18	17.61	15.85	16.80	16.28	17.18	17.61
4H	2H	15.93	17.07	16.33	17.42	17.80	15.93	17.07	16.33	17.42	17.80
	3H	15.87	16.78	16.28	17.19	17.59	15.87	16.78	16.28	17.19	17.59
	4H	15.82	16.64	16.26	17.06	17.50	15.82	16.64	16.26	17.06	17.50
	6H	15.80	16.51	16.27	16.95	17.42	15.80	16.51	16.27	16.95	17.42
	8H	15.78	16.44	16.25	16.89	17.36	15.78	16.44	16.25	16.89	17.36
	12H	15.77	16.35	16.26	16.84	17.31	15.77	16.35	16.26	16.84	17.31
8H	4H	15.72	16.37	16.18	16.82	17.29	15.72	16.37	16.18	16.82	17.29
	6H	15.69	16.24	16.20	16.73	17.21	15.69	16.24	16.20	16.73	17.21
	8H	15.68	16.17	16.20	16.69	17.18	15.68	16.17	16.20	16.69	17.18
	12H	15.69	16.13	16.20	16.62	17.19	15.69	16.13	16.20	16.62	17.19
12H	4H	15.67	16.26	16.16	16.74	17.21	15.67	16.26	16.16	16.74	17.21
	6H	15.64	16.13	16.16	16.65	17.14	15.64	16.13	16.16	16.65	17.14
	8H	15.65	16.10	16.17	16.59	17.16	15.65	16.10	16.17	16.59	17.16