

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: P866964

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-83)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-927-67L-L-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

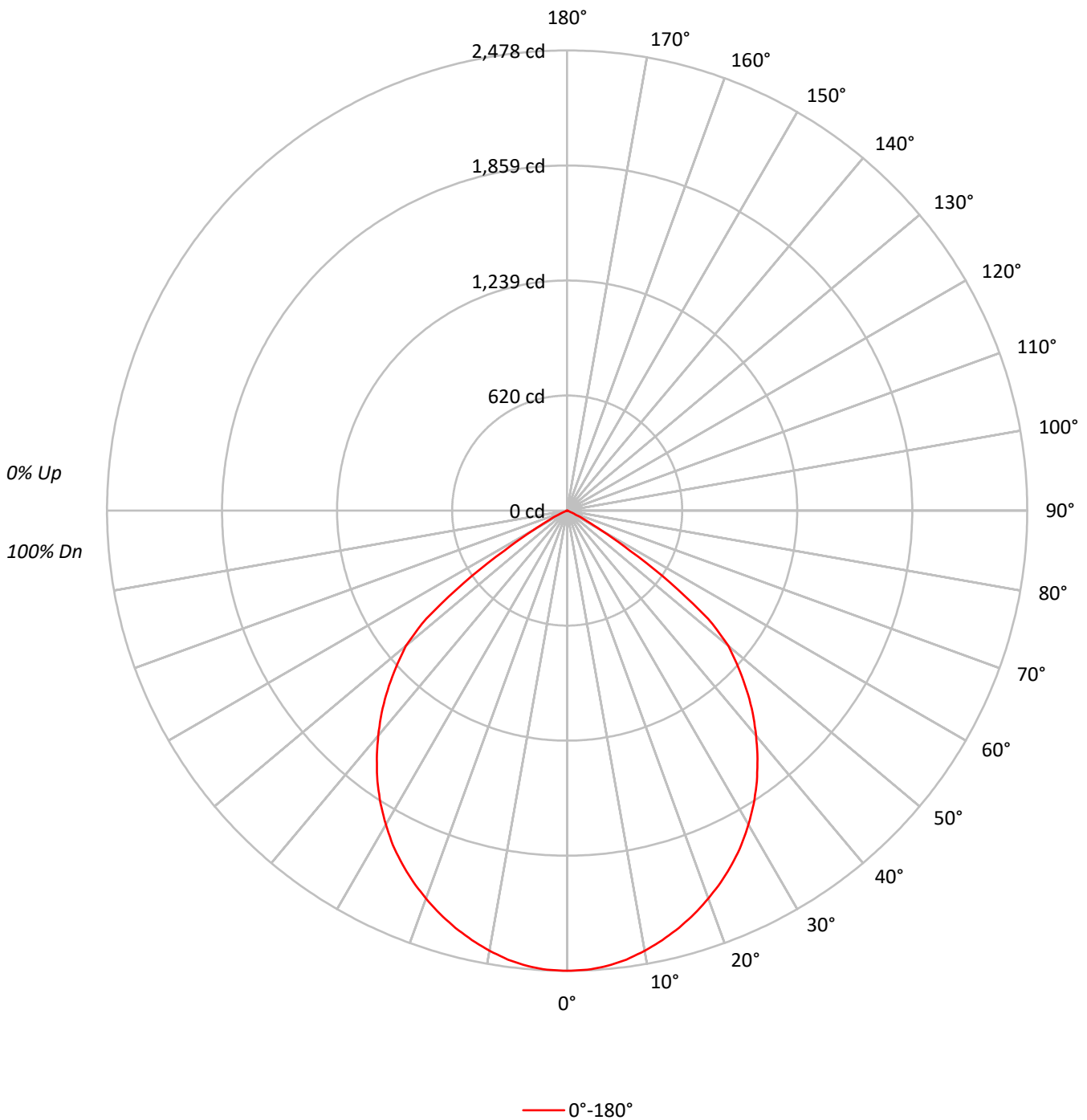
Lumens per Lamp: N/A
Luminaire Lumens: 4686.8 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

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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	109	105	103	109	106	104	101	102	100	98	98	97	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	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37
10	60	48	41	36	59	47	40	36	46	40	36	45	40	35	45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12226
5°	12191
10°	12060
15°	11881
20°	11674
25°	11435
30°	11126
35°	10725
40°	10192
45°	9542
50°	8698
55°	5816
60°	2066
65°	477
70°	76
75°	82
80°	105
85°	119

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9542 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	5.0
10°-20°	655.5	14.0
20°-30°	966.7	20.6
30°-40°	1110.8	23.7
40°-50°	1051.6	22.4
50°-60°	598.7	12.8
60°-70°	63.5	1.4
70°-80°	4.6	0.1
80°-90°	2.1	0.0
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°	1855.4	39.6
0°-40°	2966.2	63.3
0°-60°	4616.6	98.5
0°-90°	4686.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4686.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2478	
5°	2462	233
15°	2326	656
25°	2101	967
35°	1781	1111
45°	1368	1052
55°	676	599
65°	41	63
75°	4	5
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2478.0
2.5°	2475.4
5°	2461.5
7.5°	2438.7
10°	2407.3
12.5°	2369.1
15°	2326.0
17.5°	2277.1
20°	2223.4
22.5°	2164.9
25°	2100.6
27.5°	2031.5
30°	1952.9
32.5°	1869.9
35°	1780.6
37.5°	1683.9
40°	1582.4
42.5°	1479.8
45°	1367.6
47.5°	1251.2
50°	1133.2
52.5°	956.8
55°	676.1
57.5°	403.4
60°	209.4
62.5°	104.7
65°	40.9
67.5°	8.0
70°	5.3
72.5°	4.8
75°	4.3
77.5°	3.7
80°	3.7
82.5°	2.7
85°	2.1
87.5°	1.1
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	14.59	15.96	14.96	16.27	16.58	14.59	15.96	14.96	16.27	16.58
	3H	14.47	15.66	14.85	15.99	16.36	14.47	15.66	14.85	15.99	16.36
	4H	14.40	15.51	14.80	15.86	16.24	14.40	15.51	14.80	15.86	16.24
	6H	14.32	15.34	14.74	15.71	16.10	14.32	15.34	14.74	15.71	16.10
	8H	14.28	15.24	14.71	15.63	16.04	14.28	15.24	14.71	15.63	16.04
	12H	14.24	15.16	14.67	15.54	15.97	14.24	15.16	14.67	15.54	15.97
4H	2H	14.42	15.53	14.82	15.88	16.26	14.42	15.53	14.82	15.88	16.26
	3H	14.30	15.19	14.71	15.59	15.99	14.30	15.19	14.71	15.59	15.99
	4H	14.21	15.00	14.65	15.42	15.86	14.21	15.00	14.65	15.42	15.86
	6H	14.13	14.81	14.60	15.26	15.72	14.13	14.81	14.60	15.26	15.72
	8H	14.08	14.71	14.55	15.16	15.63	14.08	14.71	14.55	15.16	15.63
	12H	14.03	14.59	14.51	15.07	15.55	14.03	14.59	14.51	15.07	15.55
8H	4H	14.07	14.71	14.54	15.15	15.62	14.07	14.71	14.54	15.15	15.62
	6H	13.97	14.49	14.47	14.99	15.47	13.97	14.49	14.47	14.99	15.47
	8H	13.90	14.38	14.42	14.89	15.38	13.90	14.38	14.42	14.89	15.38
	12H	13.85	14.28	14.36	14.77	15.34	13.85	14.28	14.36	14.77	15.34
12H	4H	14.02	14.58	14.51	15.07	15.54	14.02	14.58	14.51	15.07	15.54
	6H	13.90	14.37	14.42	14.89	15.38	13.90	14.37	14.42	14.89	15.38
	8H	13.85	14.28	14.36	14.77	15.34	13.85	14.28	14.36	14.77	15.34