

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: P867094

Luminaire Tested: PRLX-2002-L-935-67L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-935-67L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

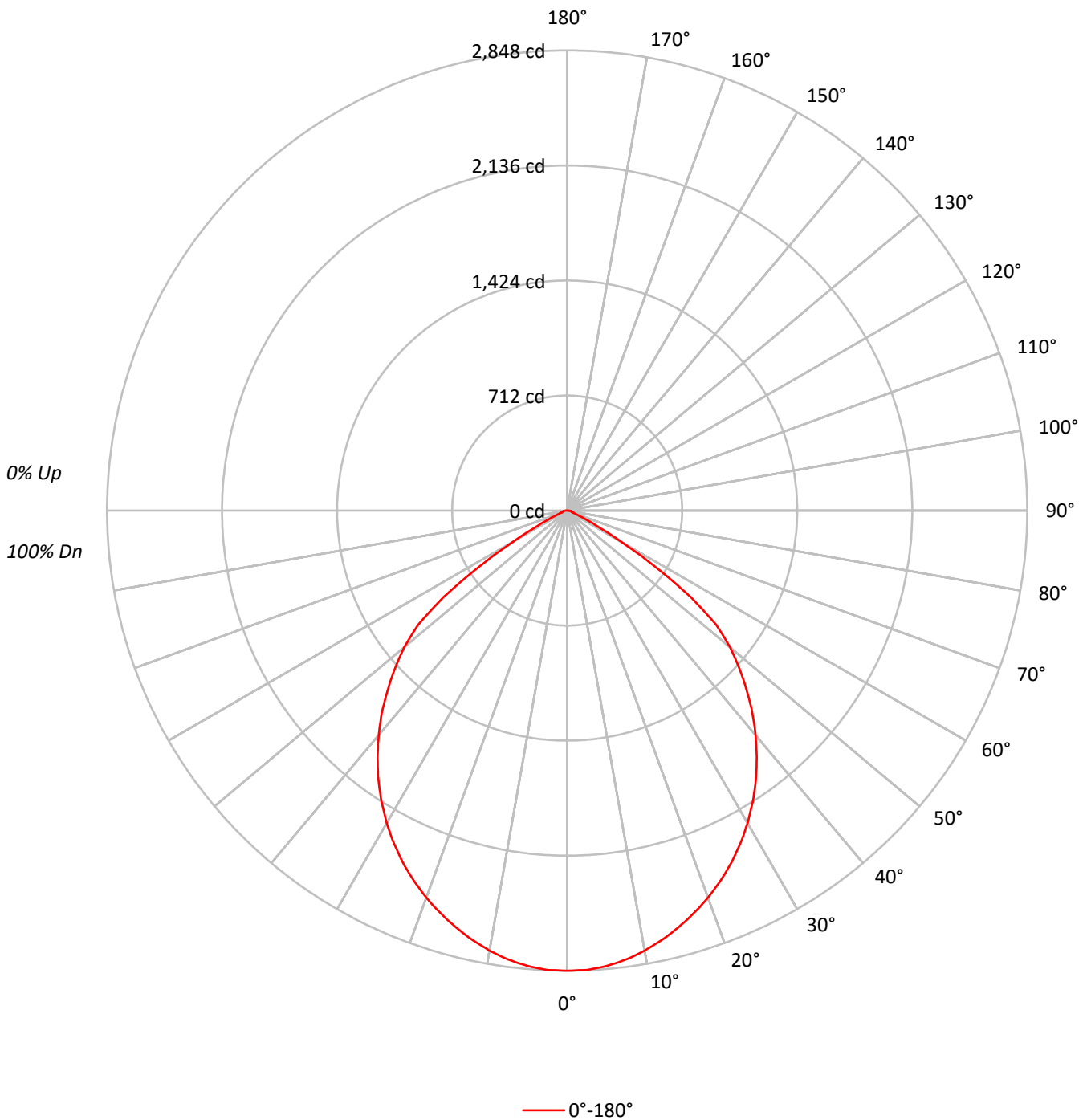
Lumens per Lamp: N/A
Luminaire Lumens: 5598.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (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

TEST NUMBER: P867094

CATALOG NUMBER: PRLX-2002-L-935-67L-L-X-X-GREY-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	91	90
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65		73	68	64		71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51		61	55	51		60	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14053
5°	14011
10°	13854
15°	13633
20°	13384
25°	13090
30°	12722
35°	12271
40°	11683
45°	10964
50°	10103
55°	8032
60°	3780
65°	1365
70°	525
75°	583
80°	668
85°	798

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10964 cd/sqm

TEST NUMBER: P867094

CATALOG NUMBER: PRLX-2002-L-935-67L-L-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	4.8
10°-20°	752.2	13.4
20°-30°	1106.3	19.8
30°-40°	1271.1	22.7
40°-50°	1210.7	21.6
50°-60°	796.1	14.2
60°-70°	147.0	2.6
70°-80°	32.1	0.6
80°-90°	14.4	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°	2126.5	38.0
0°-40°	3397.6	60.7
0°-60°	5404.4	96.5
0°-90°	5598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5598.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2848	
5°	2829	268
15°	2669	752
25°	2405	1106
35°	2037	1271
45°	1571	1211
55°	934	796
65°	117	147
75°	31	32
85°	14	14
90°	0	

TEST NUMBER: P867094

CATALOG NUMBER: PRLX-2002-L-935-67L-L-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	2848.3
2.5°	2845.3
5°	2828.9
7.5°	2802.4
10°	2765.4
12.5°	2720.2
15°	2669.0
17.5°	2611.5
20°	2549.2
22.5°	2479.8
25°	2404.6
27.5°	2322.3
30°	2233.0
32.5°	2137.2
35°	2037.3
37.5°	1928.0
40°	1814.0
42.5°	1697.1
45°	1571.3
47.5°	1446.8
50°	1316.3
52.5°	1163.5
55°	933.8
57.5°	639.9
60°	383.1
62.5°	215.7
65°	116.9
67.5°	58.8
70°	36.4
72.5°	33.5
75°	30.6
77.5°	27.6
80°	23.5
82.5°	19.4
85°	14.1
87.5°	7.6
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	17.17	18.58	17.54	18.89	19.20	17.17	18.58	17.54	18.89	19.20
	3H	17.09	18.33	17.47	18.66	19.02	17.09	18.33	17.47	18.66	19.02
	4H	17.04	18.19	17.44	18.54	18.92	17.04	18.19	17.44	18.54	18.92
	6H	17.00	18.05	17.41	18.42	18.81	17.00	18.05	17.41	18.42	18.81
	8H	16.97	17.97	17.40	18.36	18.76	16.97	17.97	17.40	18.36	18.76
	12H	16.94	17.90	17.38	18.28	18.71	16.94	17.90	17.38	18.28	18.71
4H	2H	17.05	18.20	17.45	18.55	18.93	17.05	18.20	17.45	18.55	18.93
	3H	16.98	17.90	17.39	18.31	18.71	16.98	17.90	17.39	18.31	18.71
	4H	16.93	17.75	17.36	18.17	18.61	16.93	17.75	17.36	18.17	18.61
	6H	16.90	17.61	17.36	18.05	18.52	16.90	17.61	17.36	18.05	18.52
	8H	16.87	17.53	17.34	17.98	18.45	16.87	17.53	17.34	17.98	18.45
	12H	16.85	17.44	17.34	17.92	18.39	16.85	17.44	17.34	17.92	18.39
8H	4H	16.82	17.48	17.28	17.92	18.40	16.82	17.48	17.28	17.92	18.40
	6H	16.78	17.32	17.28	17.82	18.30	16.78	17.32	17.28	17.82	18.30
	8H	16.75	17.25	17.27	17.76	18.26	16.75	17.25	17.27	17.76	18.26
	12H	16.75	17.20	17.26	17.69	18.26	16.75	17.20	17.26	17.69	18.26
12H	4H	16.77	17.36	17.26	17.84	18.32	16.77	17.36	17.26	17.84	18.32
	6H	16.72	17.22	17.24	17.73	18.22	16.72	17.22	17.24	17.73	18.22
	8H	16.72	17.17	17.24	17.66	18.23	16.72	17.17	17.24	17.66	18.23