

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: P867030

Luminaire Tested: PRLX-2002-L-930-67L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867030
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-930-67L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

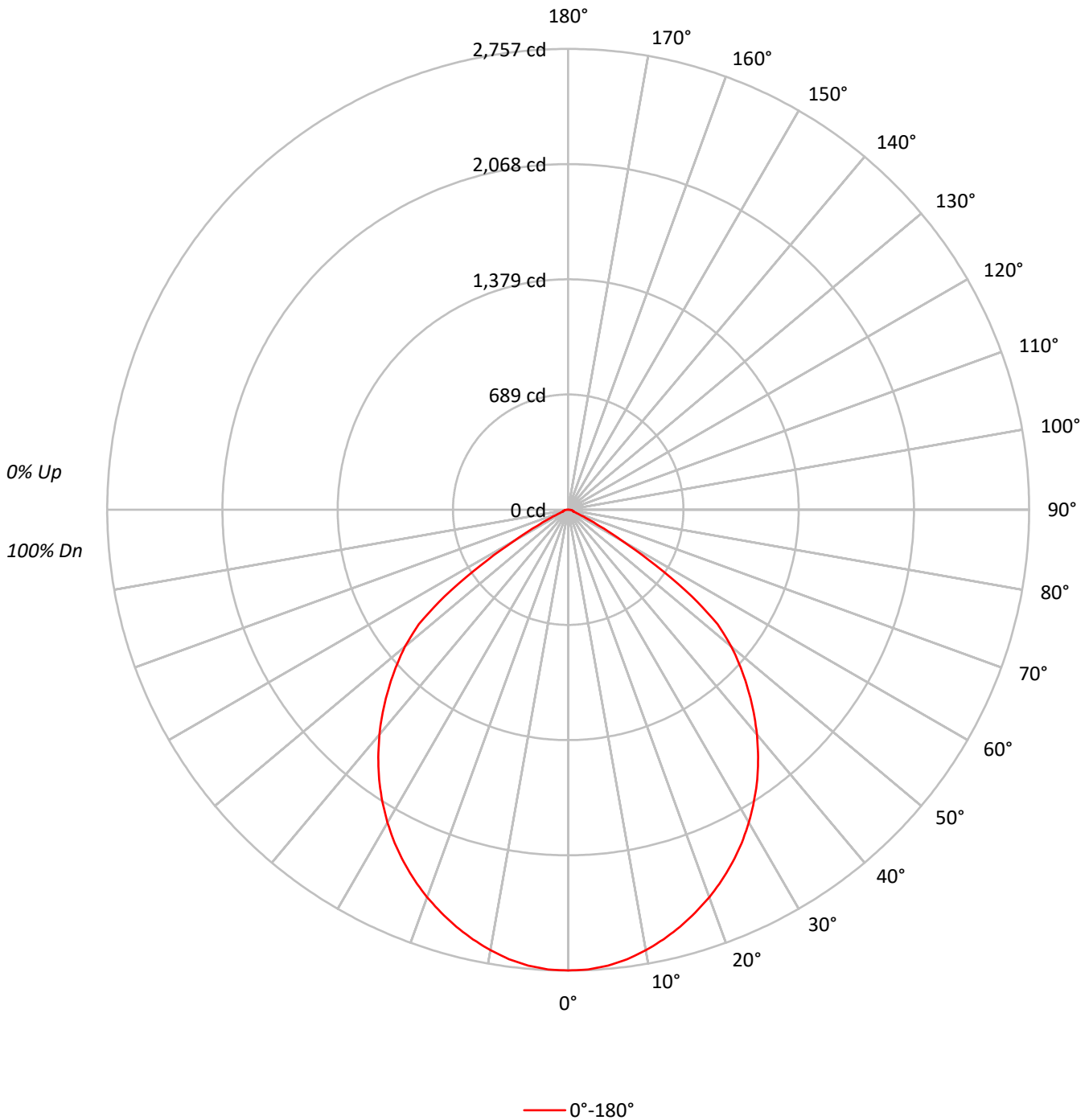
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5417.9 lumens
Efficiency: N/A
Efficacy: 107.5 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

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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	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°	13601
5°	13560
10°	13409
15°	13195
20°	12954
25°	12669
30°	12313
35°	11876
40°	11308
45°	10611
50°	9779
55°	7773
60°	3659
65°	1322
70°	509
75°	564
80°	645
85°	770

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10611 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.4	4.8
10°-20°	728.0	13.4
20°-30°	1070.8	19.8
30°-40°	1230.2	22.7
40°-50°	1171.7	21.6
50°-60°	770.5	14.2
60°-70°	142.3	2.6
70°-80°	31.1	0.6
80°-90°	13.9	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°	2058.1	38.0
0°-40°	3288.3	60.7
0°-60°	5230.6	96.5
0°-90°	5417.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5417.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2757	
5°	2738	259
15°	2583	728
25°	2327	1071
35°	1972	1230
45°	1521	1172
55°	904	771
65°	113	142
75°	30	31
85°	14	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2756.6
2.5°	2753.8
5°	2737.9
7.5°	2712.3
10°	2676.5
12.5°	2632.7
15°	2583.2
17.5°	2527.4
20°	2467.2
22.5°	2400.0
25°	2327.3
27.5°	2247.6
30°	2161.2
32.5°	2068.5
35°	1971.8
37.5°	1866.0
40°	1755.7
42.5°	1642.5
45°	1520.8
47.5°	1400.2
50°	1274.0
52.5°	1126.1
55°	903.7
57.5°	619.3
60°	370.8
62.5°	208.7
65°	113.2
67.5°	56.9
70°	35.3
72.5°	32.4
75°	29.6
77.5°	26.7
80°	22.7
82.5°	18.8
85°	13.6
87.5°	7.4
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	17.06	18.46	17.43	18.78	19.09	17.06	18.46	17.43	18.78	19.09
	3H	16.98	18.21	17.36	18.54	18.91	16.98	18.21	17.36	18.54	18.91
	4H	16.93	18.08	17.33	18.43	18.81	16.93	18.08	17.33	18.43	18.81
	6H	16.88	17.93	17.30	18.30	18.70	16.88	17.93	17.30	18.30	18.70
	8H	16.86	17.85	17.29	18.24	18.65	16.86	17.85	17.29	18.24	18.65
	12H	16.83	17.78	17.26	18.17	18.60	16.83	17.78	17.26	18.17	18.60
4H	2H	16.94	18.08	17.34	18.43	18.81	16.94	18.08	17.34	18.43	18.81
	3H	16.87	17.79	17.28	18.19	18.60	16.87	17.79	17.28	18.19	18.60
	4H	16.82	17.64	17.25	18.06	18.50	16.82	17.64	17.25	18.06	18.50
	6H	16.78	17.49	17.25	17.94	18.40	16.78	17.49	17.25	17.94	18.40
	8H	16.76	17.42	17.22	17.86	18.33	16.76	17.42	17.22	17.86	18.33
	12H	16.74	17.32	17.22	17.81	18.28	16.74	17.32	17.22	17.81	18.28
8H	4H	16.70	17.36	17.17	17.81	18.28	16.70	17.36	17.17	17.81	18.28
	6H	16.66	17.21	17.16	17.71	18.19	16.66	17.21	17.16	17.71	18.19
	8H	16.64	17.14	17.16	17.65	18.14	16.64	17.14	17.16	17.65	18.14
	12H	16.64	17.08	17.15	17.58	18.15	16.64	17.08	17.15	17.58	18.15
12H	4H	16.66	17.25	17.15	17.73	18.20	16.66	17.25	17.15	17.73	18.20
	6H	16.61	17.10	17.13	17.62	18.11	16.61	17.10	17.13	17.62	18.11
	8H	16.61	17.05	17.12	17.55	18.12	16.61	17.05	17.12	17.55	18.12