

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: P867095

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)
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-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

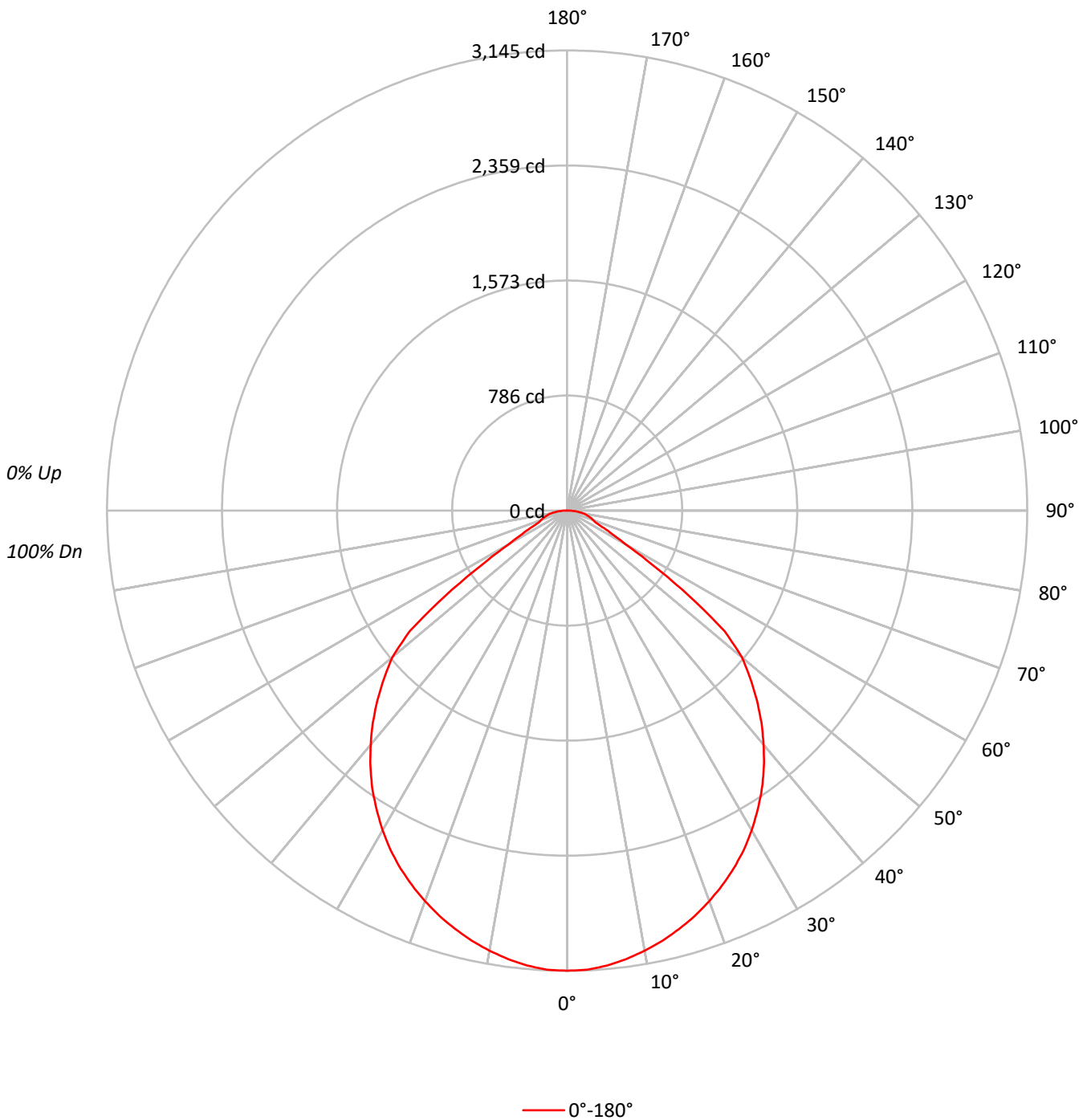
Lumens per Lamp: N/A
Luminaire Lumens: 6643.3 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P867095

CATALOG NUMBER: PRLX-2002-L-935-67L-L-X-X-WHHR-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	111	107	103	100	108	105	101	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15517
5°	15460
10°	15300
15°	15116
20°	14911
25°	14680
30°	14369
35°	13977
40°	13454
45°	12788
50°	11966
55°	8765
60°	4581
65°	3053
70°	2729
75°	2901
80°	3174
85°	3493

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12788 cd/sqm

TEST NUMBER: P867095

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.8	4.5
10°-20°	834.7	12.6
20°-30°	1241.2	18.7
30°-40°	1448.8	21.8
40°-50°	1411.5	21.2
50°-60°	904.3	13.6
60°-70°	281.6	4.2
70°-80°	160.4	2.4
80°-90°	64.9	1.0
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°	2371.7	35.7
0°-40°	3820.5	57.5
0°-60°	6136.4	92.4
0°-90°	6643.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6643.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3145	
5°	3122	296
15°	2959	835
25°	2697	1241
35°	2321	1449
45°	1833	1412
55°	1019	904
65°	262	282
75°	152	160
85°	62	65
90°	0	

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

CANDELA DISTRIBUTION (FULL):

	0°
0°	3145.0
2.5°	3140.3
5°	3121.5
7.5°	3092.1
10°	3053.9
12.5°	3011.0
15°	2959.3
17.5°	2904.1
20°	2840.0
22.5°	2771.3
25°	2696.7
27.5°	2614.4
30°	2522.1
32.5°	2424.0
35°	2320.6
37.5°	2208.9
40°	2089.0
42.5°	1965.1
45°	1832.8
47.5°	1697.7
50°	1559.0
52.5°	1356.9
55°	1019.0
57.5°	689.9
60°	464.2
62.5°	346.1
65°	261.5
67.5°	207.4
70°	189.2
72.5°	172.2
75°	152.2
77.5°	132.8
80°	111.7
82.5°	88.1
85°	61.7
87.5°	32.9
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	17.08	18.53	17.44	18.84	19.16	17.08	18.53	17.44	18.84	19.16
	3H	17.49	18.78	17.87	19.11	19.47	17.49	18.78	17.87	19.11	19.47
	4H	17.78	18.98	18.18	19.33	19.71	17.78	18.98	18.18	19.33	19.71
	6H	18.10	19.20	18.51	19.57	19.97	18.10	19.20	18.51	19.57	19.97
	8H	18.24	19.29	18.67	19.68	20.09	18.24	19.29	18.67	19.68	20.09
	12H	18.37	19.37	18.80	19.76	20.19	18.37	19.37	18.80	19.76	20.19
4H	2H	17.13	18.34	17.54	18.69	19.07	17.13	18.34	17.54	18.69	19.07
	3H	17.75	18.73	18.16	19.14	19.54	17.75	18.73	18.16	19.14	19.54
	4H	18.17	19.05	18.61	19.47	19.91	18.17	19.05	18.61	19.47	19.91
	6H	18.67	19.43	19.13	19.87	20.34	18.67	19.43	19.13	19.87	20.34
	8H	18.89	19.60	19.35	20.05	20.52	18.89	19.60	19.35	20.05	20.52
	12H	19.09	19.72	19.57	20.20	20.68	19.09	19.72	19.57	20.20	20.68
8H	4H	18.32	19.03	18.78	19.48	19.95	18.32	19.03	18.78	19.48	19.95
	6H	18.95	19.54	19.45	20.04	20.52	18.95	19.54	19.45	20.04	20.52
	8H	19.27	19.80	19.78	20.32	20.81	19.27	19.80	19.78	20.32	20.81
	12H	19.58	20.06	20.09	20.55	21.12	19.58	20.06	20.09	20.55	21.12
12H	4H	18.33	18.97	18.82	19.45	19.92	18.33	18.97	18.82	19.45	19.92
	6H	19.00	19.53	19.51	20.05	20.54	19.00	19.53	19.51	20.05	20.54
	8H	19.38	19.86	19.89	20.35	20.92	19.38	19.86	19.89	20.35	20.92