

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: P867114

Luminaire Tested: PRLX-2002-L-940-100L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-70)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-940-100L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

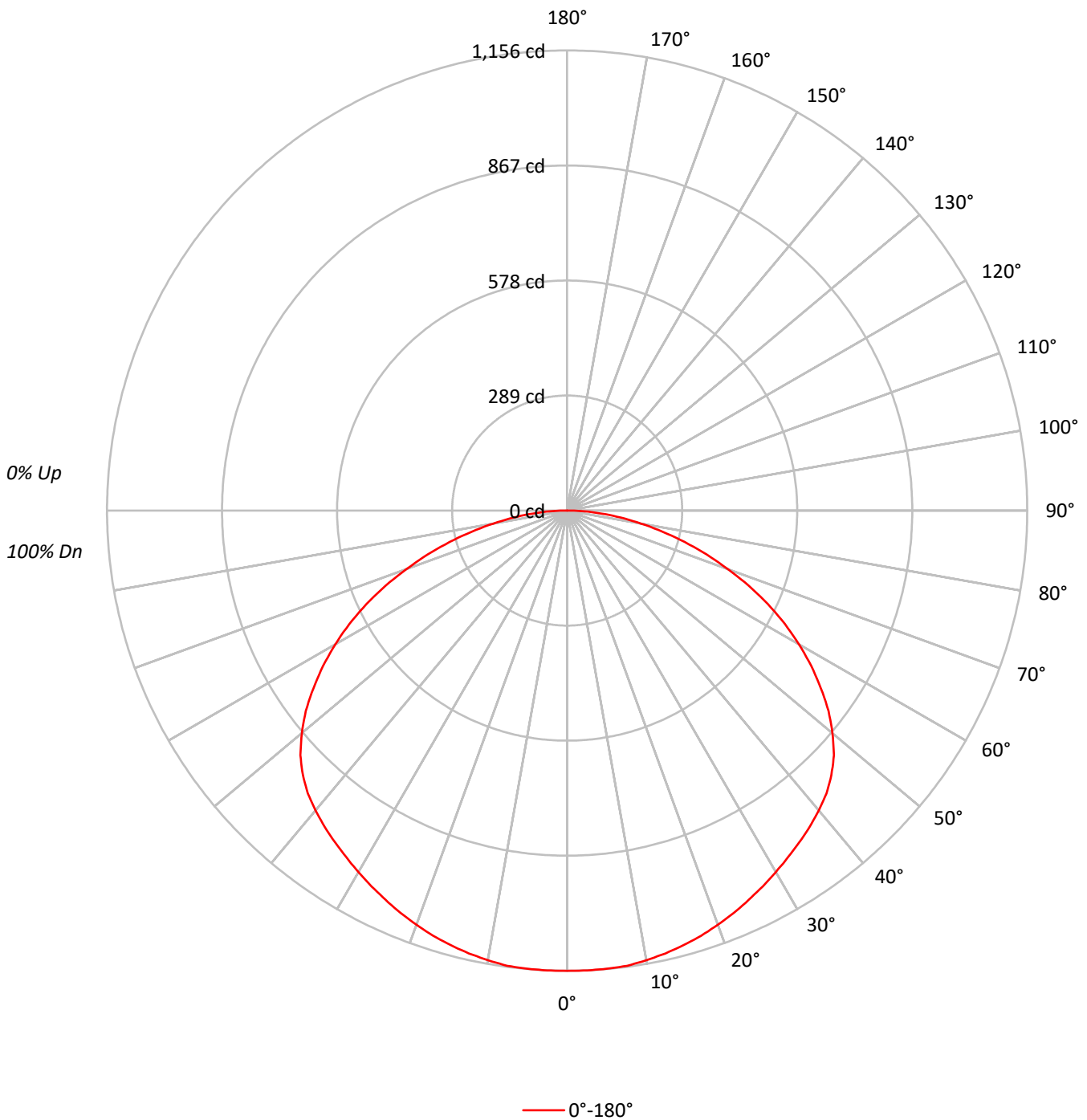
Lumens per Lamp: N/A
Luminaire Lumens: 3954.2 lumens
Efficiency: N/A
Efficacy: 49.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	108	103	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73	80	75	71	77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	50	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	44	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5704
5°	5722
10°	5746
15°	5773
20°	5812
25°	5874
30°	5973
35°	6125
40°	6334
45°	6551
50°	6679
55°	6695
60°	6635
65°	6494
70°	6190
75°	5824
80°	5356
85°	4942

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 6707 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	2.8
10°-20°	319.5	8.1
20°-30°	498.5	12.6
30°-40°	637.9	16.1
40°-50°	722.7	18.3
50°-60°	694.6	17.6
60°-70°	548.8	13.9
70°-80°	323.7	8.2
80°-90°	98.4	2.5
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°	928.1	23.5
0°-40°	1566.0	39.6
0°-60°	2983.3	75.4
0°-90°	3954.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3954.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1156	
5°	1155	110
15°	1130	320
25°	1079	499
35°	1017	638
45°	939	723
55°	778	695
65°	556	549
75°	306	324
85°	87	98
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1156.2
2.5°	1156.2
5°	1155.3
7.5°	1153.4
10°	1146.9
12.5°	1139.5
15°	1130.2
17.5°	1120.0
20°	1107.0
22.5°	1094.0
25°	1079.1
27.5°	1064.3
30°	1048.5
32.5°	1032.7
35°	1016.9
37.5°	1001.1
40°	983.5
42.5°	964.0
45°	938.9
47.5°	909.2
50°	870.2
52.5°	827.5
55°	778.3
57.5°	727.2
60°	672.4
62.5°	616.7
65°	556.3
67.5°	494.1
70°	429.1
72.5°	367.8
75°	305.5
77.5°	245.2
80°	188.5
82.5°	135.6
85°	87.3
87.5°	44.6
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	19.05	20.76	19.42	21.08	21.39	19.05	20.76	19.42	21.08	21.39
	3H	20.97	22.52	21.35	22.85	23.20	20.97	22.52	21.35	22.85	23.20
	4H	21.69	23.16	22.09	23.50	23.88	21.69	23.16	22.09	23.50	23.88
	6H	22.24	23.60	22.65	23.96	24.35	22.24	23.60	22.65	23.96	24.35
	8H	22.42	23.73	22.85	24.11	24.51	22.42	23.73	22.85	24.11	24.51
	12H	22.56	23.81	22.99	24.19	24.62	22.56	23.81	22.99	24.19	24.62
4H	2H	19.74	21.20	20.14	21.55	21.92	19.74	21.20	20.14	21.55	21.92
	3H	21.87	23.10	22.28	23.50	23.90	21.87	23.10	22.28	23.50	23.90
	4H	22.72	23.84	23.15	24.25	24.69	22.72	23.84	23.15	24.25	24.69
	6H	23.40	24.38	23.85	24.82	25.28	23.40	24.38	23.85	24.82	25.28
	8H	23.64	24.56	24.10	25.00	25.47	23.64	24.56	24.10	25.00	25.47
	12H	23.83	24.66	24.31	25.14	25.60	23.83	24.66	24.31	25.14	25.60
8H	4H	23.07	23.99	23.52	24.43	24.89	23.07	23.99	23.52	24.43	24.89
	6H	23.88	24.65	24.37	25.13	25.60	23.88	24.65	24.37	25.13	25.60
	8H	24.20	24.89	24.70	25.39	25.88	24.20	24.89	24.70	25.39	25.88
	12H	24.47	25.09	24.98	25.58	26.13	24.47	25.09	24.98	25.58	26.13
12H	4H	23.11	23.94	23.59	24.42	24.88	23.11	23.94	23.59	24.42	24.88
	6H	23.95	24.64	24.45	25.14	25.63	23.95	24.64	24.45	25.14	25.63
	8H	24.33	24.95	24.84	25.43	25.99	24.33	24.95	24.84	25.43	25.99