

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: P867050

Luminaire Tested: PRLX-2002-L-935-100L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867050
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-935-100L-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

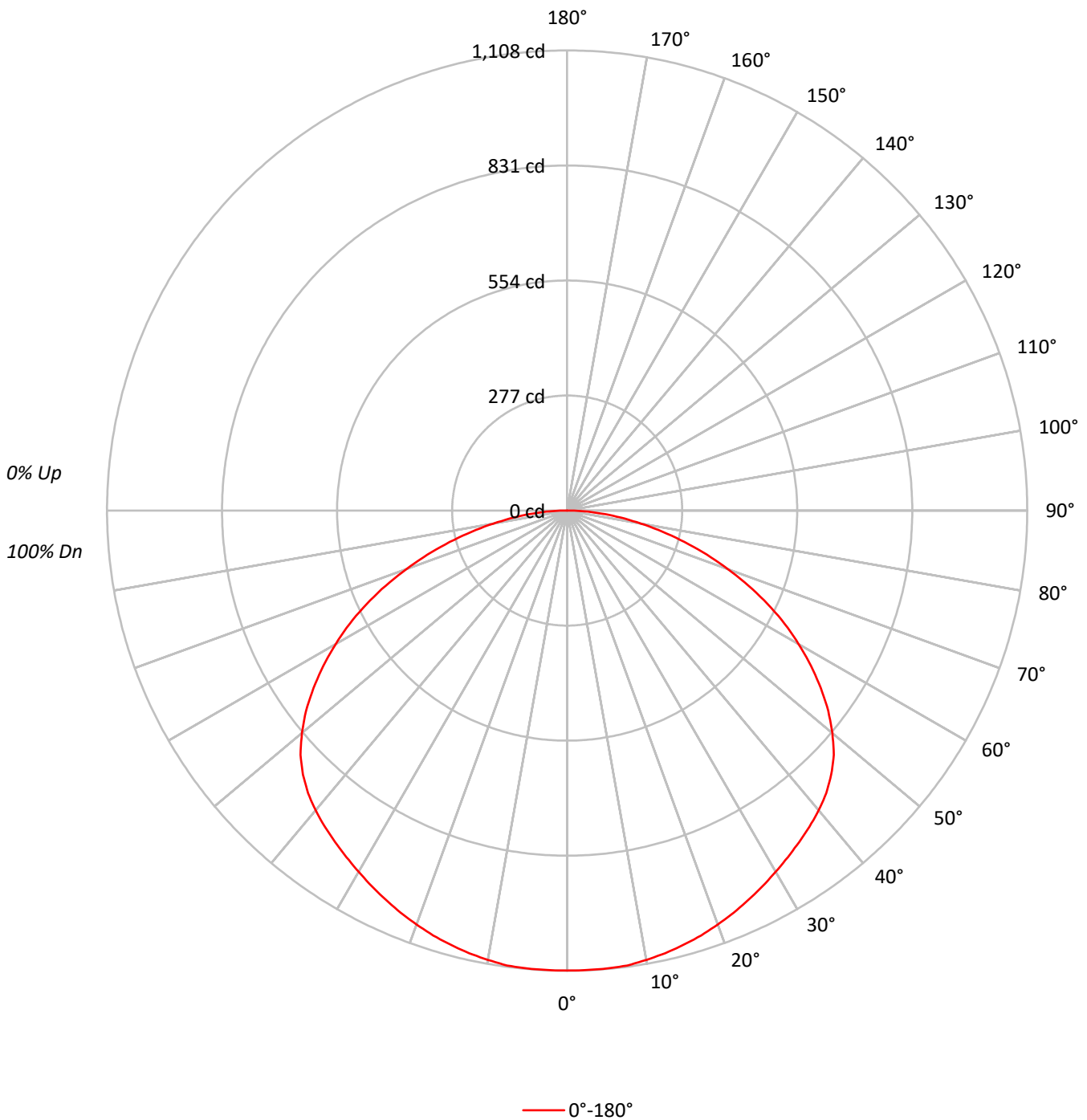
Lumens per Lamp: N/A
Luminaire Lumens: 3787.6 lumens
Efficiency: N/A
Efficacy: 47.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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°	5464
5°	5481
10°	5504
15°	5530
20°	5568
25°	5627
30°	5722
35°	5867
40°	6068
45°	6276
50°	6398
55°	6413
60°	6356
65°	6221
70°	5929
75°	5580
80°	5131
85°	4733

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 6424 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	2.8
10°-20°	306.1	8.1
20°-30°	477.5	12.6
30°-40°	611.0	16.1
40°-50°	692.3	18.3
50°-60°	665.3	17.6
60°-70°	525.7	13.9
70°-80°	310.0	8.2
80°-90°	94.3	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°	889.0	23.5
0°-40°	1500.0	39.6
0°-60°	2857.6	75.4
0°-90°	3787.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3787.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1108	
5°	1107	105
15°	1083	306
25°	1034	478
35°	974	611
45°	899	692
55°	746	665
65°	533	526
75°	293	310
85°	84	94
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1107.5
2.5°	1107.5
5°	1106.6
7.5°	1104.9
10°	1098.6
12.5°	1091.5
15°	1082.6
17.5°	1072.8
20°	1060.4
22.5°	1047.9
25°	1033.7
27.5°	1019.5
30°	1004.3
32.5°	989.2
35°	974.1
37.5°	959.0
40°	942.1
42.5°	923.4
45°	899.4
47.5°	870.9
50°	833.5
52.5°	792.6
55°	745.5
57.5°	696.5
60°	644.1
62.5°	590.7
65°	532.9
67.5°	473.3
70°	411.0
72.5°	352.3
75°	292.7
77.5°	234.8
80°	180.6
82.5°	129.9
85°	83.6
87.5°	42.7
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	18.90	20.61	19.27	20.93	21.24	18.90	20.61	19.27	20.93	21.24
	3H	20.82	22.37	21.20	22.70	23.05	20.82	22.37	21.20	22.70	23.05
	4H	21.54	23.01	21.94	23.35	23.73	21.54	23.01	21.94	23.35	23.73
	6H	22.09	23.45	22.50	23.81	24.20	22.09	23.45	22.50	23.81	24.20
	8H	22.27	23.58	22.70	23.96	24.36	22.27	23.58	22.70	23.96	24.36
	12H	22.41	23.66	22.84	24.04	24.47	22.41	23.66	22.84	24.04	24.47
4H	2H	19.59	21.05	19.99	21.40	21.77	19.59	21.05	19.99	21.40	21.77
	3H	21.72	22.95	22.13	23.35	23.75	21.72	22.95	22.13	23.35	23.75
	4H	22.57	23.69	23.00	24.10	24.54	22.57	23.69	23.00	24.10	24.54
	6H	23.25	24.23	23.70	24.67	25.13	23.25	24.23	23.70	24.67	25.13
	8H	23.49	24.41	23.95	24.85	25.32	23.49	24.41	23.95	24.85	25.32
	12H	23.68	24.51	24.16	24.99	25.45	23.68	24.51	24.16	24.99	25.45
8H	4H	22.92	23.84	23.37	24.28	24.74	22.92	23.84	23.37	24.28	24.74
	6H	23.73	24.50	24.22	24.98	25.46	23.73	24.50	24.22	24.98	25.46
	8H	24.05	24.74	24.55	25.24	25.73	24.05	24.74	24.55	25.24	25.73
	12H	24.32	24.94	24.83	25.43	25.98	24.32	24.94	24.83	25.43	25.98
12H	4H	22.96	23.79	23.44	24.27	24.73	22.96	23.79	23.44	24.27	24.73
	6H	23.80	24.49	24.30	24.99	25.48	23.80	24.49	24.30	24.99	25.48
	8H	24.18	24.80	24.69	25.29	25.84	24.18	24.80	24.69	25.29	25.84