

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: P866322

Luminaire Tested: PRLX-2002-M-935-55L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-935-55L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

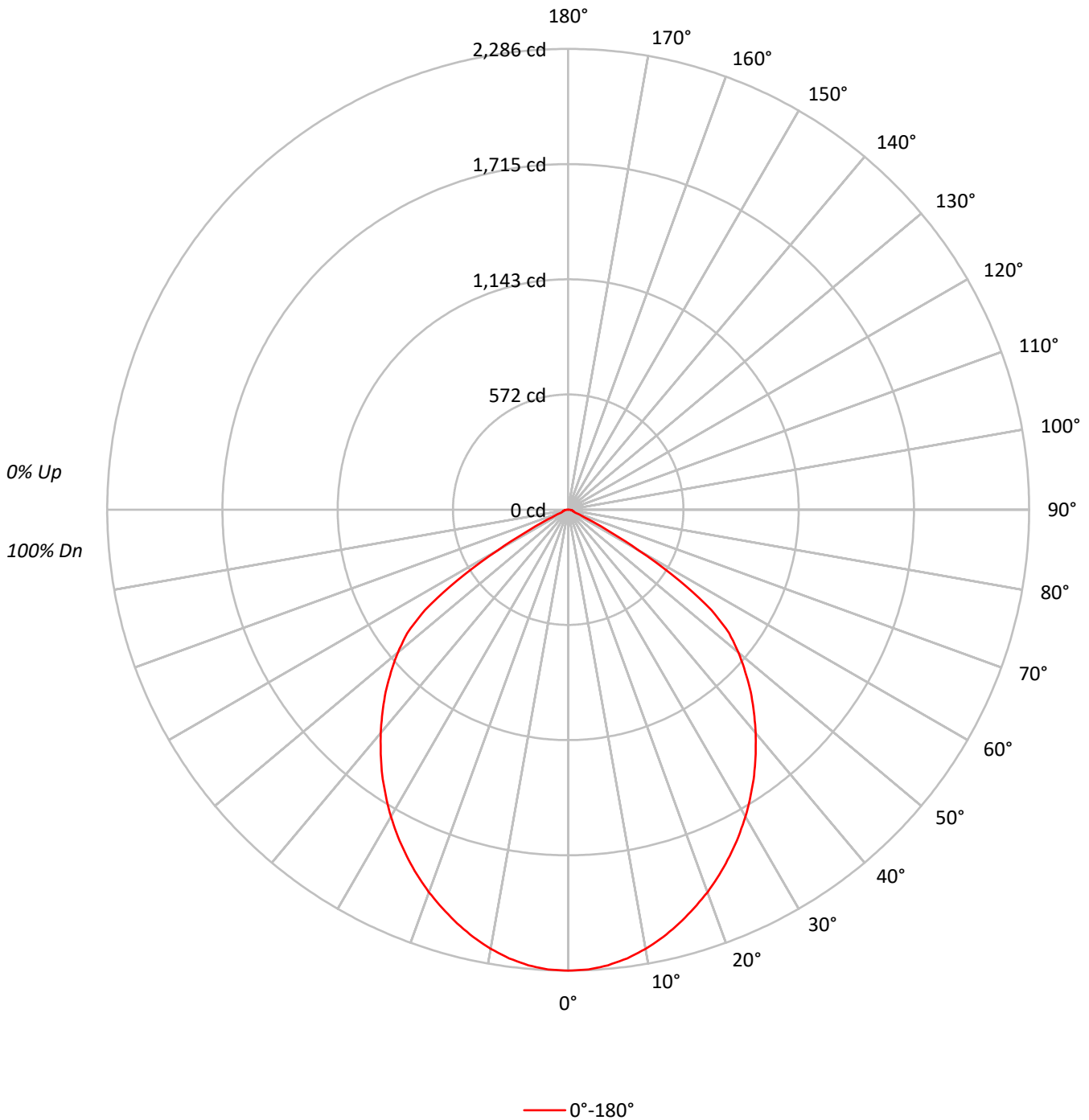
Lumens per Lamp: N/A
Luminaire Lumens: 4579.1 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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

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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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53
6	76	64	56	51	74	64	56	51	62	55	50	60	54	50	59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18190
5°	18117
10°	17868
15°	17505
20°	17096
25°	16638
30°	16151
35°	15611
40°	15020
45°	14407
50°	13651
55°	12027
60°	6412
65°	1685
70°	693
75°	781
80°	889
85°	1086

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14407 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.7	4.7
10°-20°	598.5	13.1
20°-30°	872.7	19.1
30°-40°	1004.4	21.9
40°-50°	985.5	21.5
50°-60°	730.0	15.9
60°-70°	134.7	2.9
70°-80°	26.6	0.6
80°-90°	12.0	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°	1685.9	36.8
0°-40°	2690.3	58.8
0°-60°	4405.8	96.2
0°-90°	4579.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4579.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2286	
5°	2268	215
15°	2125	599
25°	1895	873
35°	1607	1004
45°	1280	985
55°	867	730
65°	90	135
75°	25	27
85°	12	12
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2286.4
2.5°	2283.5
5°	2268.5
7.5°	2244.7
10°	2211.8
12.5°	2171.5
15°	2125.3
17.5°	2073.0
20°	2019.3
22.5°	1959.6
25°	1895.4
27.5°	1828.3
30°	1758.1
32.5°	1683.5
35°	1607.4
37.5°	1526.8
40°	1446.2
42.5°	1362.6
45°	1280.5
47.5°	1191.0
50°	1102.9
52.5°	1005.9
55°	867.1
57.5°	655.2
60°	403.0
62.5°	207.5
65°	89.5
67.5°	38.8
70°	29.8
72.5°	28.4
75°	25.4
77.5°	22.4
80°	19.4
82.5°	16.4
85°	11.9
87.5°	6.0
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	19.67	21.10	20.04	21.41	21.73	19.67	21.10	20.04	21.41	21.73
	3H	19.57	20.83	19.95	21.16	21.52	19.57	20.83	19.95	21.16	21.52
	4H	19.52	20.69	19.92	21.04	21.42	19.52	20.69	19.92	21.04	21.42
	6H	19.46	20.54	19.88	20.91	21.30	19.46	20.54	19.88	20.91	21.30
	8H	19.44	20.45	19.86	20.84	21.25	19.44	20.45	19.86	20.84	21.25
	12H	19.41	20.38	19.84	20.76	21.19	19.41	20.38	19.84	20.76	21.19
4H	2H	19.53	20.70	19.93	21.05	21.43	19.53	20.70	19.93	21.05	21.43
	3H	19.44	20.38	19.85	20.78	21.19	19.44	20.38	19.85	20.78	21.19
	4H	19.38	20.22	19.81	20.63	21.08	19.38	20.22	19.81	20.63	21.08
	6H	19.33	20.06	19.79	20.50	20.97	19.33	20.06	19.79	20.50	20.97
	8H	19.30	19.97	19.77	20.42	20.89	19.30	19.97	19.77	20.42	20.89
	12H	19.27	19.87	19.76	20.35	20.83	19.27	19.87	19.76	20.35	20.83
8H	4H	19.26	19.94	19.73	20.38	20.85	19.26	19.94	19.73	20.38	20.85
	6H	19.20	19.76	19.70	20.26	20.74	19.20	19.76	19.70	20.26	20.74
	8H	19.17	19.67	19.69	20.19	20.68	19.17	19.67	19.69	20.19	20.68
	12H	19.15	19.61	19.66	20.10	20.67	19.15	19.61	19.66	20.10	20.67
12H	4H	19.22	19.82	19.71	20.30	20.78	19.22	19.82	19.71	20.30	20.78
	6H	19.15	19.65	19.66	20.17	20.66	19.15	19.65	19.66	20.17	20.66
	8H	19.13	19.59	19.64	20.08	20.65	19.13	19.59	19.64	20.08	20.65