

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: P866062

Luminaire Tested: PRLX-2001-M-935-55L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-55L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

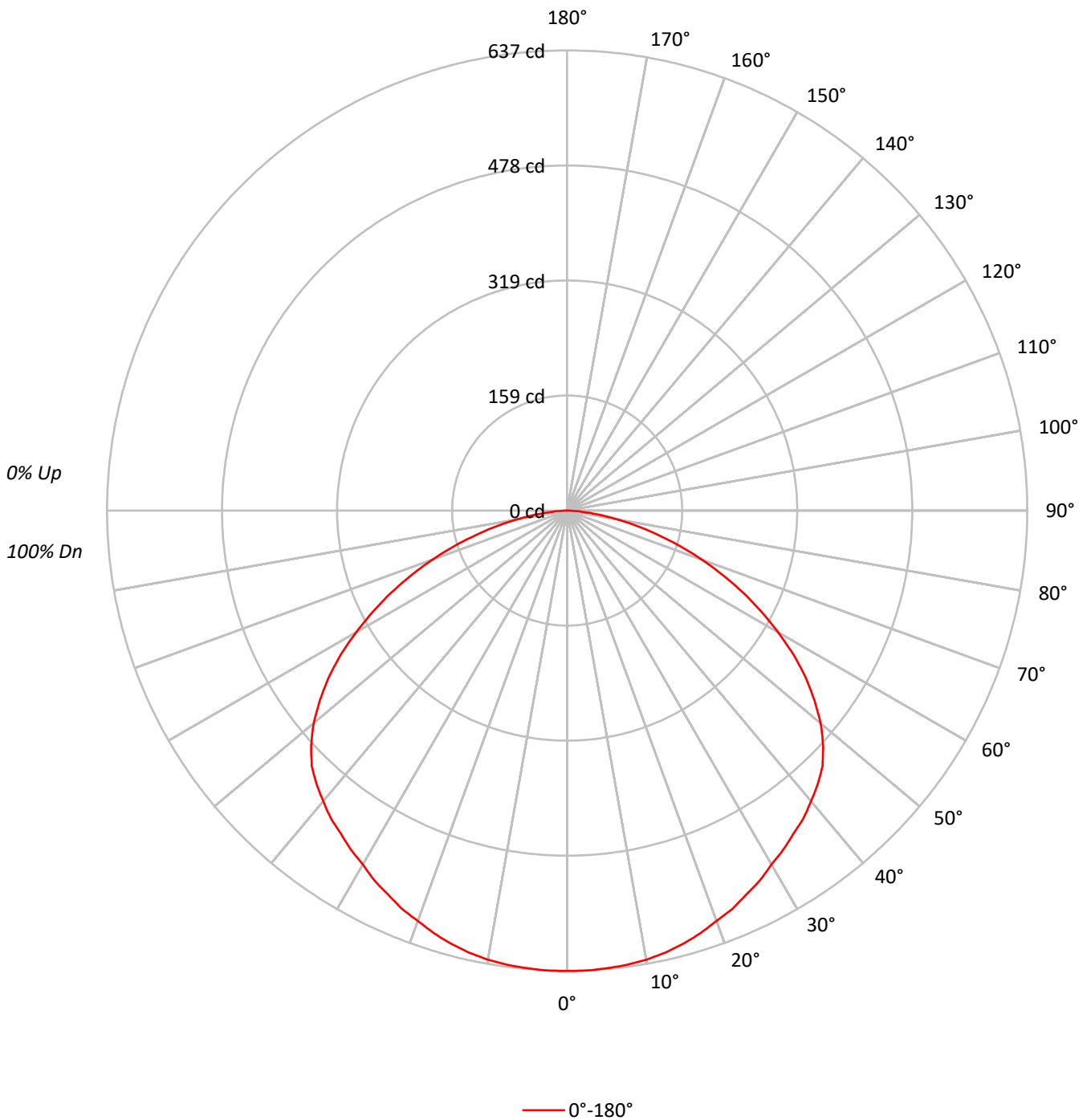
Lumens per Lamp: N/A
Luminaire Lumens: 2026.7 lumens
Efficiency: N/A
Efficacy: 42.0 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5408
5°	5416
10°	5440
15°	5455
20°	5458
25°	5492
30°	5542
35°	5658
40°	5819
45°	6001
50°	6049
55°	5962
60°	5725
65°	5393
70°	4925
75°	4256
80°	3426
85°	2327

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 6049 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	3.0
10°-20°	175.3	8.6
20°-30°	271.0	13.4
30°-40°	342.8	16.9
40°-50°	383.8	18.9
50°-60°	358.7	17.7
60°-70°	265.2	13.1
70°-80°	139.2	6.9
80°-90°	30.2	1.5
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°	506.8	25.0
0°-40°	849.6	41.9
0°-60°	1592.0	78.6
0°-90°	2026.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2026.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	637	
5°	636	61
15°	621	175
25°	586	271
35°	546	343
45°	500	384
55°	403	359
65°	269	265
75°	130	139
85°	24	30
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	637.3
2.5°	637.3
5°	635.8
7.5°	634.3
10°	631.3
12.5°	626.8
15°	620.9
17.5°	613.4
20°	604.4
22.5°	597.0
25°	586.5
27.5°	577.6
30°	565.6
32.5°	556.7
35°	546.2
37.5°	537.3
40°	525.3
42.5°	513.4
45°	500.0
47.5°	480.6
50°	458.2
52.5°	431.3
55°	403.0
57.5°	371.6
60°	337.3
62.5°	303.0
65°	268.6
67.5°	232.8
70°	198.5
72.5°	164.2
75°	129.8
77.5°	100.0
80°	70.1
82.5°	44.8
85°	23.9
87.5°	7.5
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	18.63	20.30	19.00	20.62	20.93	18.63	20.30	19.00	20.62	20.93
	3H	20.29	21.81	20.67	22.13	22.49	20.29	21.81	20.67	22.13	22.49
	4H	20.85	22.28	21.25	22.63	23.00	20.85	22.28	21.25	22.63	23.00
	6H	21.22	22.54	21.63	22.90	23.29	21.22	22.54	21.63	22.90	23.29
	8H	21.30	22.57	21.73	22.96	23.35	21.30	22.57	21.73	22.96	23.35
	12H	21.35	22.56	21.78	22.94	23.37	21.35	22.56	21.78	22.94	23.37
4H	2H	19.24	20.66	19.64	21.01	21.39	19.24	20.66	19.64	21.01	21.39
	3H	21.11	22.30	21.52	22.70	23.10	21.11	22.30	21.52	22.70	23.10
	4H	21.78	22.86	22.21	23.27	23.71	21.78	22.86	22.21	23.27	23.71
	6H	22.25	23.19	22.70	23.63	24.08	22.25	23.19	22.70	23.63	24.08
	8H	22.37	23.25	22.83	23.69	24.16	22.37	23.25	22.83	23.69	24.16
	12H	22.44	23.23	22.92	23.71	24.18	22.44	23.23	22.92	23.71	24.18
8H	4H	22.04	22.92	22.50	23.36	23.83	22.04	22.92	22.50	23.36	23.83
	6H	22.60	23.33	23.09	23.82	24.29	22.60	23.33	23.09	23.82	24.29
	8H	22.77	23.42	23.27	23.93	24.41	22.77	23.42	23.27	23.93	24.41
	12H	22.88	23.46	23.39	23.95	24.51	22.88	23.46	23.39	23.95	24.51
12H	4H	22.06	22.85	22.54	23.33	23.80	22.06	22.85	22.54	23.33	23.80
	6H	22.63	23.28	23.13	23.79	24.27	22.63	23.28	23.13	23.79	24.27
	8H	22.84	23.42	23.34	23.91	24.47	22.84	23.42	23.34	23.91	24.47