

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: P866061

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)
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-BRSS-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

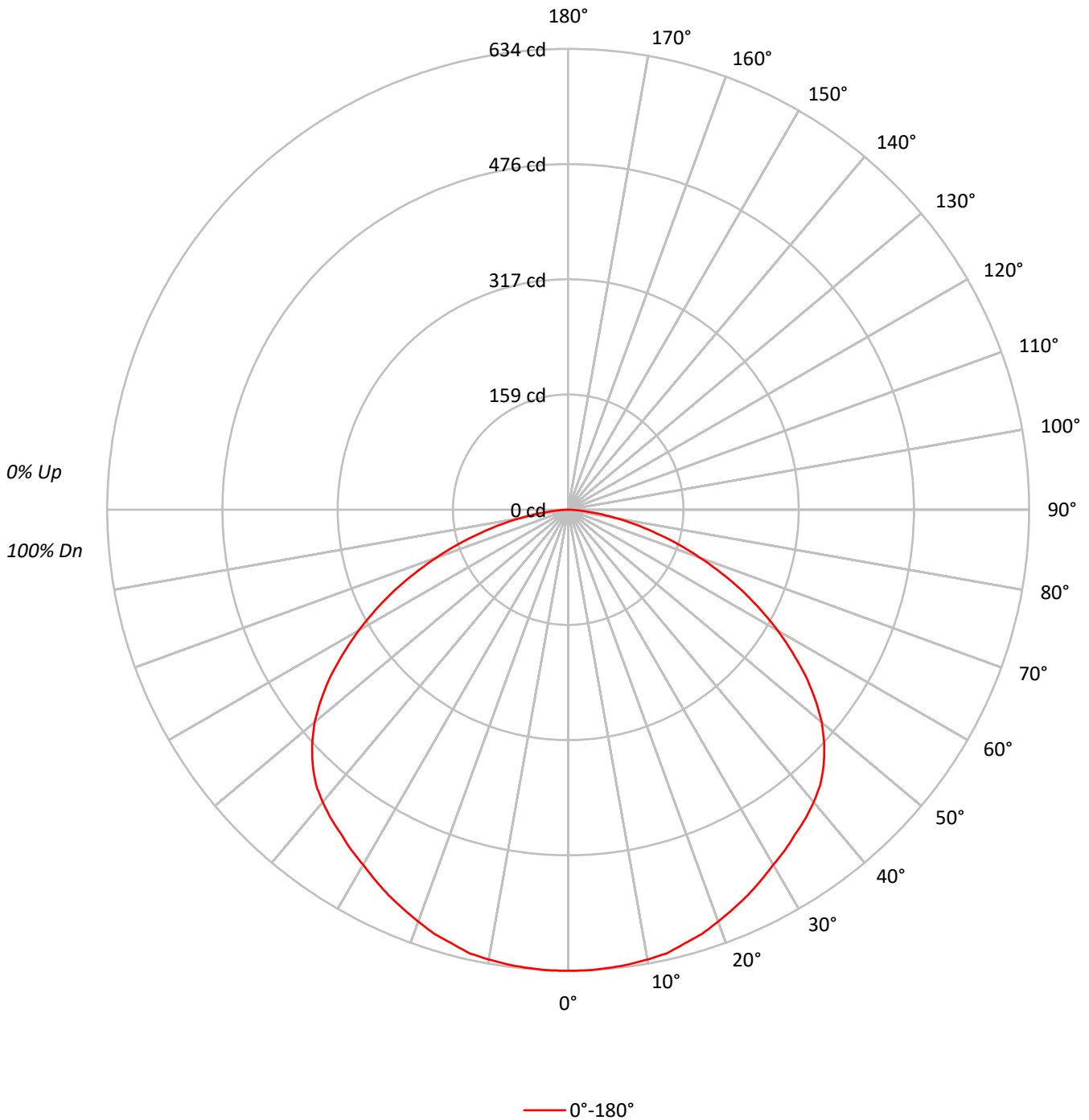
Lumens per Lamp: N/A
Luminaire Lumens: 2006.8 lumens
Efficiency: N/A
Efficacy: 41.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.333 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	94	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	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	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5383
5°	5390
10°	5414
15°	5428
20°	5445
25°	5478
30°	5528
35°	5643
40°	5819
45°	5965
50°	6009
55°	5896
60°	5648
65°	5305
70°	4776
75°	4112
80°	3284
85°	2035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 6009 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	3.0
10°-20°	174.7	8.7
20°-30°	269.9	13.5
30°-40°	342.0	17.0
40°-50°	382.3	19.0
50°-60°	354.8	17.7
60°-70°	260.6	13.0
70°-80°	134.5	6.7
80°-90°	27.8	1.4
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°	504.9	25.2
0°-40°	846.9	42.2
0°-60°	1583.9	78.9
0°-90°	2006.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2006.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	634	
5°	633	60
15°	618	175
25°	585	270
35°	545	342
45°	497	382
55°	398	355
65°	264	261
75°	125	135
85°	21	28
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	634.3
2.5°	634.3
5°	632.8
7.5°	631.3
10°	628.3
12.5°	625.3
15°	617.9
17.5°	611.9
20°	603.0
22.5°	594.0
25°	585.0
27.5°	574.6
30°	564.1
32.5°	555.2
35°	544.7
37.5°	535.8
40°	525.3
42.5°	513.4
45°	497.0
47.5°	477.6
50°	455.2
52.5°	428.3
55°	398.5
57.5°	365.7
60°	332.8
62.5°	298.5
65°	264.2
67.5°	228.3
70°	192.5
72.5°	159.7
75°	125.4
77.5°	95.5
80°	67.2
82.5°	41.8
85°	20.9
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	18.56	20.23	18.93	20.54	20.86	18.56	20.23	18.93	20.54	20.86
	3H	20.20	21.71	20.58	22.03	22.39	20.20	21.71	20.58	22.03	22.39
	4H	20.75	22.17	21.14	22.51	22.89	20.75	22.17	21.14	22.51	22.89
	6H	21.09	22.41	21.50	22.77	23.16	21.09	22.41	21.50	22.77	23.16
	8H	21.17	22.43	21.60	22.82	23.22	21.17	22.43	21.60	22.82	23.22
	12H	21.21	22.41	21.63	22.79	23.22	21.21	22.41	21.63	22.79	23.22
4H	2H	19.17	20.59	19.57	20.94	21.31	19.17	20.59	19.57	20.94	21.31
	3H	21.01	22.20	21.42	22.59	22.99	21.01	22.20	21.42	22.59	22.99
	4H	21.66	22.74	22.09	23.15	23.58	21.66	22.74	22.09	23.15	23.58
	6H	22.11	23.05	22.56	23.49	23.94	22.11	23.05	22.56	23.49	23.94
	8H	22.22	23.10	22.68	23.54	24.00	22.22	23.10	22.68	23.54	24.00
	12H	22.28	23.07	22.76	23.54	24.01	22.28	23.07	22.76	23.54	24.01
8H	4H	21.91	22.79	22.37	23.23	23.70	21.91	22.79	22.37	23.23	23.70
	6H	22.45	23.17	22.94	23.66	24.14	22.45	23.17	22.94	23.66	24.14
	8H	22.60	23.25	23.11	23.76	24.24	22.60	23.25	23.11	23.76	24.24
	12H	22.70	23.27	23.20	23.76	24.32	22.70	23.27	23.20	23.76	24.32
12H	4H	21.93	22.72	22.41	23.19	23.66	21.93	22.72	22.41	23.19	23.66
	6H	22.47	23.12	22.98	23.63	24.12	22.47	23.12	22.98	23.63	24.12
	8H	22.67	23.24	23.17	23.73	24.29	22.67	23.24	23.17	23.73	24.29