

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: P865933

Luminaire Tested: PRLX-2001-M-927-55L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865933
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-927-55L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

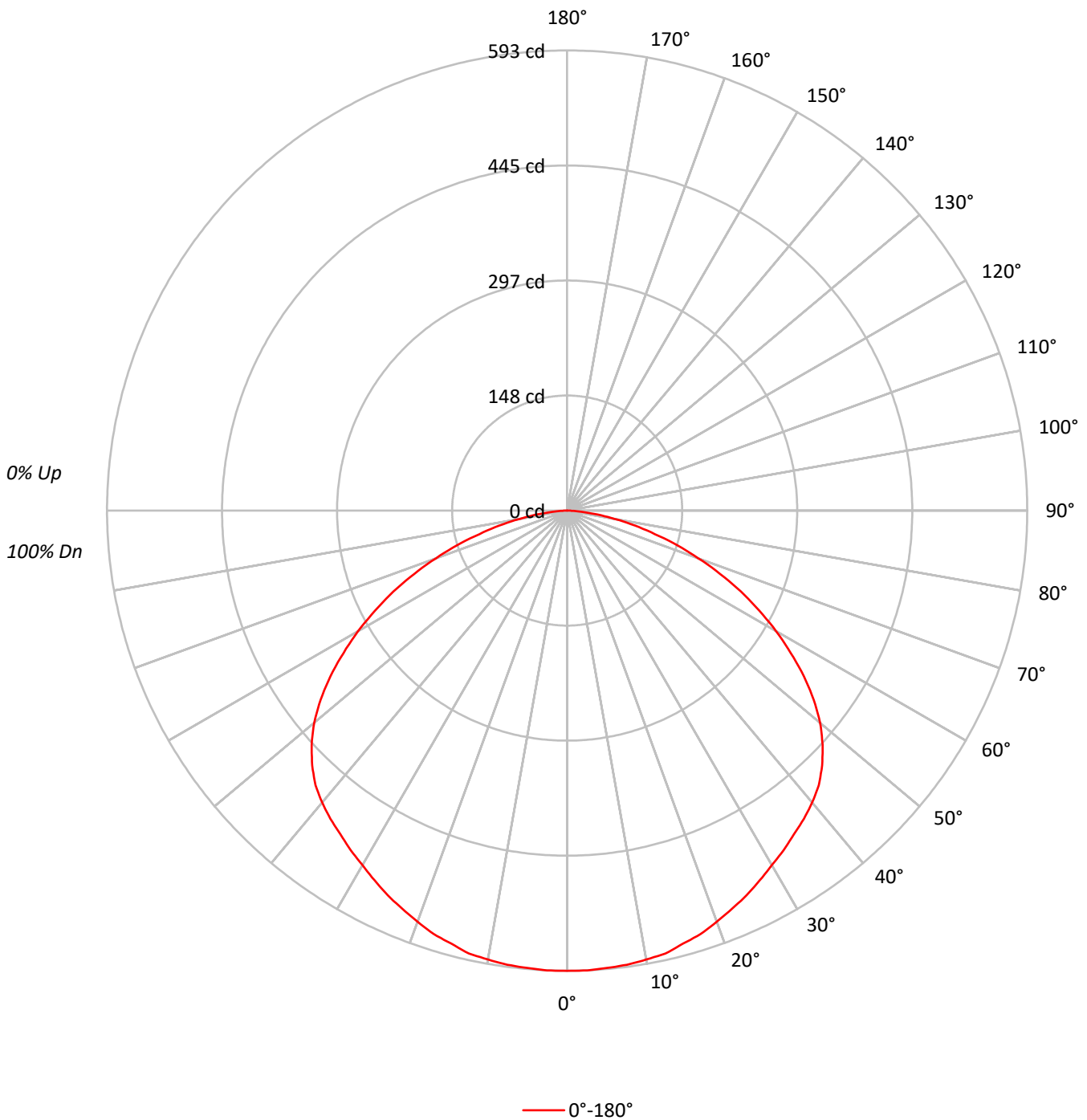
Lumens per Lamp: N/A
Luminaire Lumens: 1876.4 lumens
Efficiency: N/A
Efficacy: 38.8 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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	59	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	50	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°	5033
5°	5040
10°	5062
15°	5075
20°	5091
25°	5122
30°	5169
35°	5277
40°	5441
45°	5577
50°	5619
55°	5513
60°	5282
65°	4960
70°	4466
75°	3843
80°	3069
85°	1899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 5619 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	3.0
10°-20°	163.4	8.7
20°-30°	252.4	13.5
30°-40°	319.8	17.0
40°-50°	357.4	19.0
50°-60°	331.7	17.7
60°-70°	243.7	13.0
70°-80°	125.8	6.7
80°-90°	26.0	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°	472.1	25.2
0°-40°	791.9	42.2
0°-60°	1481.0	78.9
0°-90°	1876.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1876.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	593	
5°	592	56
15°	578	163
25°	547	252
35°	509	320
45°	465	357
55°	373	332
65°	247	244
75°	117	126
85°	20	26
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	593.1
2.5°	593.1
5°	591.7
7.5°	590.3
10°	587.5
12.5°	584.7
15°	577.7
17.5°	572.2
20°	563.8
22.5°	555.4
25°	547.0
27.5°	537.3
30°	527.5
32.5°	519.1
35°	509.4
37.5°	501.0
40°	491.2
42.5°	480.1
45°	464.7
47.5°	446.6
50°	425.6
52.5°	400.5
55°	372.6
57.5°	341.9
60°	311.2
62.5°	279.1
65°	247.0
67.5°	213.5
70°	180.0
72.5°	149.3
75°	117.2
77.5°	89.3
80°	62.8
82.5°	39.1
85°	19.5
87.5°	5.6
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	18.33	19.99	18.69	20.31	20.62	18.33	19.99	18.69	20.31	20.62
	3H	19.97	21.48	20.34	21.80	22.16	19.97	21.48	20.34	21.80	22.16
	4H	20.51	21.93	20.91	22.28	22.65	20.51	21.93	20.91	22.28	22.65
	6H	20.86	22.17	21.27	22.54	22.93	20.86	22.17	21.27	22.54	22.93
	8H	20.94	22.19	21.36	22.58	22.98	20.94	22.19	21.36	22.58	22.98
	12H	20.97	22.18	21.40	22.56	22.99	20.97	22.18	21.40	22.56	22.99
4H	2H	18.94	20.36	19.33	20.70	21.08	18.94	20.36	19.33	20.70	21.08
	3H	20.78	21.96	21.18	22.36	22.76	20.78	21.96	21.18	22.36	22.76
	4H	21.43	22.50	21.86	22.91	23.35	21.43	22.50	21.86	22.91	23.35
	6H	21.88	22.81	22.33	23.25	23.71	21.88	22.81	22.33	23.25	23.71
	8H	21.99	22.86	22.45	23.31	23.77	21.99	22.86	22.45	23.31	23.77
	12H	22.05	22.83	22.53	23.31	23.78	22.05	22.83	22.53	23.31	23.78
8H	4H	21.68	22.56	22.14	23.00	23.46	21.68	22.56	22.14	23.00	23.46
	6H	22.21	22.94	22.70	23.43	23.90	22.21	22.94	22.70	23.43	23.90
	8H	22.37	23.02	22.88	23.52	24.01	22.37	23.02	22.88	23.52	24.01
	12H	22.46	23.04	22.97	23.53	24.09	22.46	23.04	22.97	23.53	24.09
12H	4H	21.70	22.49	22.18	22.96	23.43	21.70	22.49	22.18	22.96	23.43
	6H	22.24	22.89	22.74	23.40	23.88	22.24	22.89	22.74	23.40	23.88
	8H	22.43	23.01	22.94	23.50	24.06	22.43	23.01	22.94	23.50	24.06