

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: P866257

Luminaire Tested: PRLX-2002-M-930-55L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-930-55L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

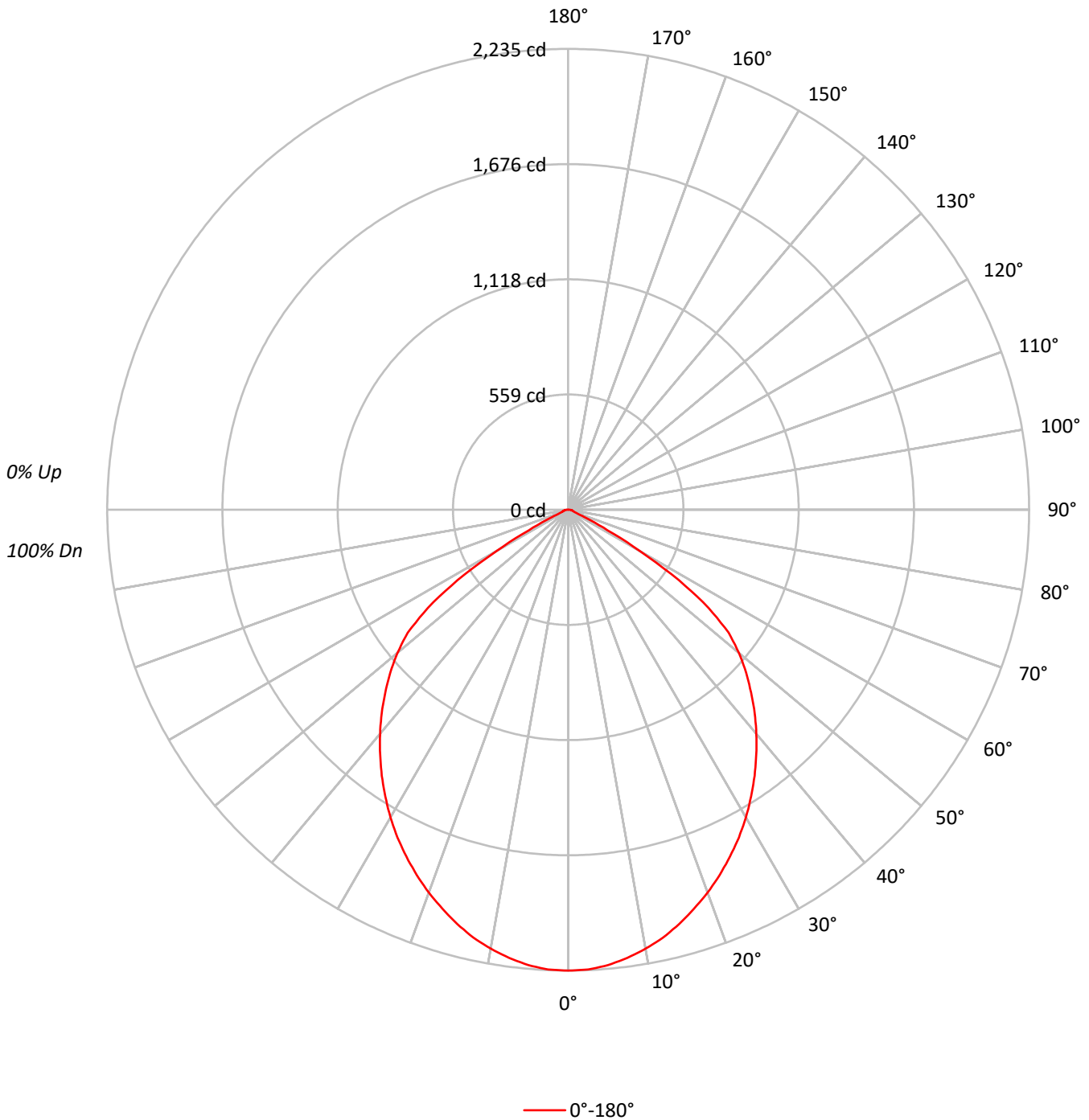
Lumens per Lamp: N/A
Luminaire Lumens: 4488.0 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78				78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69				69
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60				60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53				53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	48				48
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	48	44	43				43
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35				35
10	58	46	39	34	57	45	38	34	44	38	34	44	38	33	43	37	33	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17783
5°	17710
10°	17466
15°	17133
20°	16732
25°	16295
30°	15830
35°	15301
40°	14736
45°	14104
50°	13380
55°	11525
60°	6353
65°	1790
70°	714
75°	765
80°	870
85°	1068

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14104 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.9	4.7
10°-20°	585.7	13.1
20°-30°	854.7	19.0
30°-40°	984.8	21.9
40°-50°	966.9	21.5
50°-60°	709.1	15.8
60°-70°	138.9	3.1
70°-80°	26.3	0.6
80°-90°	11.8	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°	1650.3	36.8
0°-40°	2635.1	58.7
0°-60°	4311.1	96.1
0°-90°	4488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4488.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2235	
5°	2218	210
15°	2080	586
25°	1856	855
35°	1575	985
45°	1254	967
55°	831	709
65°	95	139
75°	25	26
85°	12	12
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2235.2
2.5°	2232.3
5°	2217.6
7.5°	2192.8
10°	2162.0
12.5°	2125.5
15°	2080.1
17.5°	2028.9
20°	1976.3
22.5°	1917.7
25°	1856.3
27.5°	1791.9
30°	1723.2
32.5°	1650.1
35°	1575.4
37.5°	1497.9
40°	1418.9
42.5°	1338.5
45°	1253.6
47.5°	1170.3
50°	1081.0
52.5°	980.1
55°	830.9
57.5°	636.3
60°	399.3
62.5°	215.0
65°	95.1
67.5°	43.9
70°	30.7
72.5°	27.8
75°	24.9
77.5°	21.9
80°	19.0
82.5°	16.1
85°	11.7
87.5°	5.9
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	19.55	20.97	19.91	21.29	21.60	19.55	20.97	19.91	21.29	21.60
	3H	19.45	20.71	19.83	21.04	21.40	19.45	20.71	19.83	21.04	21.40
	4H	19.40	20.57	19.80	20.92	21.30	19.40	20.57	19.80	20.92	21.30
	6H	19.34	20.42	19.76	20.78	21.18	19.34	20.42	19.76	20.78	21.18
	8H	19.31	20.33	19.74	20.72	21.12	19.31	20.33	19.74	20.72	21.12
	12H	19.29	20.26	19.72	20.64	21.07	19.29	20.26	19.72	20.64	21.07
4H	2H	19.41	20.58	19.81	20.93	21.31	19.41	20.58	19.81	20.93	21.31
	3H	19.32	20.27	19.74	20.67	21.07	19.32	20.27	19.74	20.67	21.07
	4H	19.26	20.10	19.70	20.52	20.96	19.26	20.10	19.70	20.52	20.96
	6H	19.22	19.94	19.68	20.39	20.85	19.22	19.94	19.68	20.39	20.85
	8H	19.18	19.86	19.65	20.31	20.78	19.18	19.86	19.65	20.31	20.78
	12H	19.16	19.76	19.64	20.24	20.71	19.16	19.76	19.64	20.24	20.71
8H	4H	19.15	19.82	19.62	20.27	20.74	19.15	19.82	19.62	20.27	20.74
	6H	19.09	19.65	19.59	20.14	20.62	19.09	19.65	19.59	20.14	20.62
	8H	19.05	19.56	19.57	20.08	20.57	19.05	19.56	19.57	20.08	20.57
	12H	19.04	19.49	19.55	19.99	20.56	19.04	19.49	19.55	19.99	20.56
12H	4H	19.11	19.71	19.59	20.19	20.66	19.11	19.71	19.59	20.19	20.66
	6H	19.03	19.54	19.55	20.05	20.54	19.03	19.54	19.55	20.05	20.54
	8H	19.02	19.47	19.53	19.97	20.54	19.02	19.47	19.53	19.97	20.54