

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: P866193

Luminaire Tested: PRLX-2002-M-927-55L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866193
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-927-55L-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

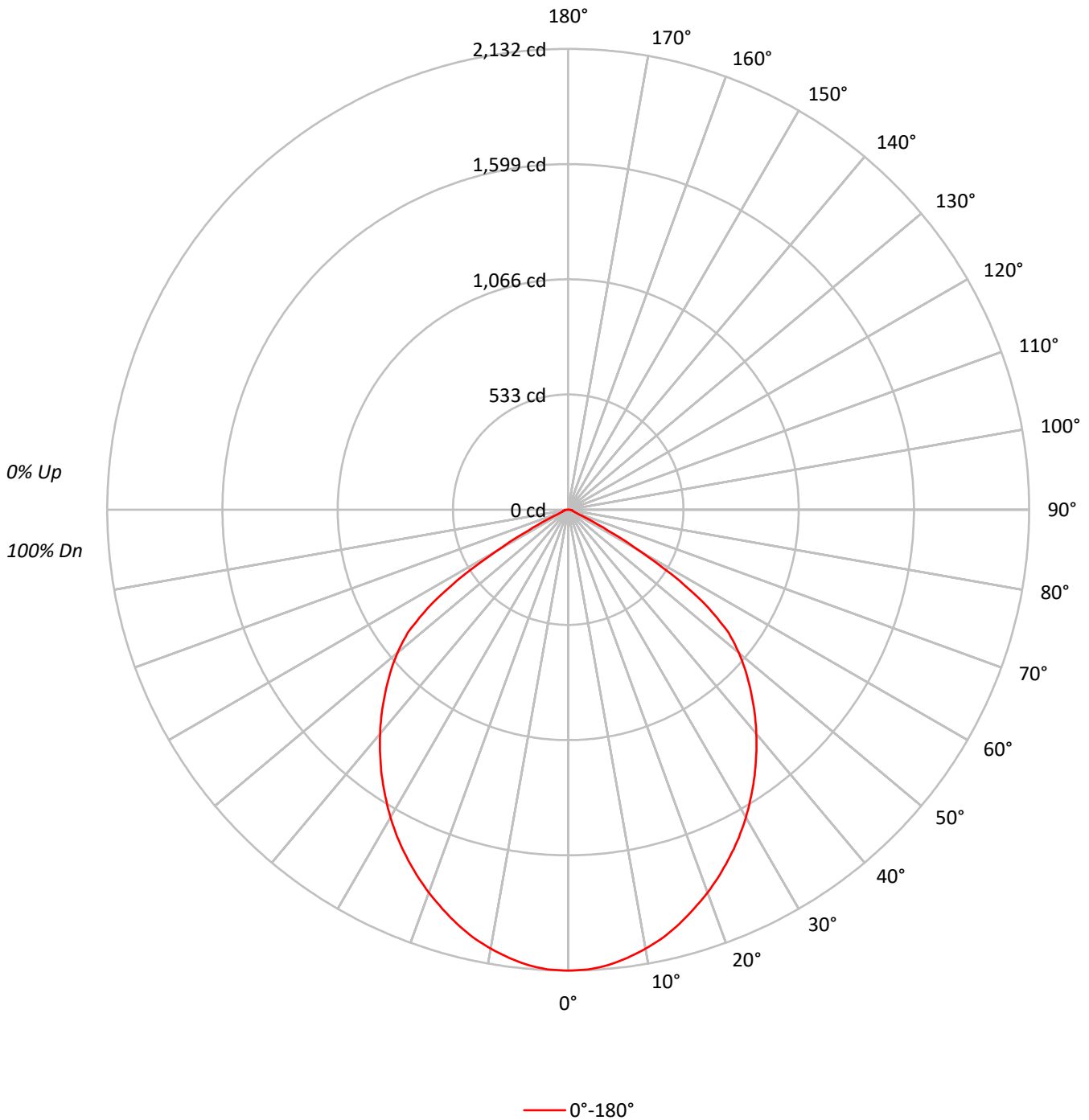
Lumens per Lamp: N/A
Luminaire Lumens: 4281.5 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	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	62	57	68	61	56		66	60	56		64	59	55	53
6	76	64	56	51	74	63	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	40		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	44	38	34		44	38	33		43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16964
5°	16896
10°	16663
15°	16344
20°	15962
25°	15545
30°	15102
35°	14597
40°	14058
45°	13456
50°	12764
55°	10994
60°	6062
65°	1707
70°	682
75°	729
80°	829
85°	1022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13456 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.2	4.7
10°-20°	558.8	13.1
20°-30°	815.4	19.0
30°-40°	939.5	21.9
40°-50°	922.4	21.5
50°-60°	676.4	15.8
60°-70°	132.5	3.1
70°-80°	25.0	0.6
80°-90°	11.2	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°	1574.4	36.8
0°-40°	2513.9	58.7
0°-60°	4112.7	96.1
0°-90°	4281.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4281.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2132	
5°	2116	200
15°	1984	559
25°	1771	815
35°	1503	940
45°	1196	922
55°	793	676
65°	91	133
75°	24	25
85°	11	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2132.3
2.5°	2129.5
5°	2115.6
7.5°	2091.9
10°	2062.6
12.5°	2027.7
15°	1984.4
17.5°	1935.6
20°	1885.3
22.5°	1829.5
25°	1770.9
27.5°	1709.5
30°	1643.9
32.5°	1574.1
35°	1503.0
37.5°	1429.0
40°	1353.6
42.5°	1276.9
45°	1196.0
47.5°	1116.4
50°	1031.3
52.5°	935.0
55°	792.6
57.5°	607.0
60°	381.0
62.5°	205.1
65°	90.7
67.5°	41.9
70°	29.3
72.5°	26.5
75°	23.7
77.5°	20.9
80°	18.1
82.5°	15.4
85°	11.2
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	19.38	20.81	19.75	21.12	21.44	19.38	20.81	19.75	21.12	21.44
	3H	19.29	20.55	19.67	20.87	21.24	19.29	20.55	19.67	20.87	21.24
	4H	19.23	20.40	19.63	20.75	21.13	19.23	20.40	19.63	20.75	21.13
	6H	19.18	20.25	19.59	20.62	21.01	19.18	20.25	19.59	20.62	21.01
	8H	19.15	20.17	19.58	20.56	20.96	19.15	20.17	19.58	20.56	20.96
	12H	19.12	20.09	19.55	20.48	20.91	19.12	20.09	19.55	20.48	20.91
4H	2H	19.24	20.41	19.64	20.76	21.14	19.24	20.41	19.64	20.76	21.14
	3H	19.16	20.10	19.57	20.51	20.91	19.16	20.10	19.57	20.51	20.91
	4H	19.10	19.94	19.53	20.36	20.80	19.10	19.94	19.53	20.36	20.80
	6H	19.06	19.78	19.52	20.22	20.69	19.06	19.78	19.52	20.22	20.69
	8H	19.02	19.70	19.49	20.14	20.61	19.02	19.70	19.49	20.14	20.61
	12H	19.00	19.60	19.48	20.08	20.55	19.00	19.60	19.48	20.08	20.55
8H	4H	18.98	19.66	19.45	20.11	20.58	18.98	19.66	19.45	20.11	20.58
	6H	18.93	19.48	19.43	19.98	20.46	18.93	19.48	19.43	19.98	20.46
	8H	18.89	19.40	19.41	19.91	20.40	18.89	19.40	19.41	19.91	20.40
	12H	18.88	19.33	19.39	19.82	20.39	18.88	19.33	19.39	19.82	20.39
12H	4H	18.94	19.54	19.43	20.03	20.50	18.94	19.54	19.43	20.03	20.50
	6H	18.87	19.38	19.39	19.89	20.38	18.87	19.38	19.39	19.89	20.38
	8H	18.86	19.31	19.37	19.80	20.37	18.86	19.31	19.37	19.80	20.37