

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: P866249

Luminaire Tested: PRLX-2002-M-930-45L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866249
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-930-45L-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 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

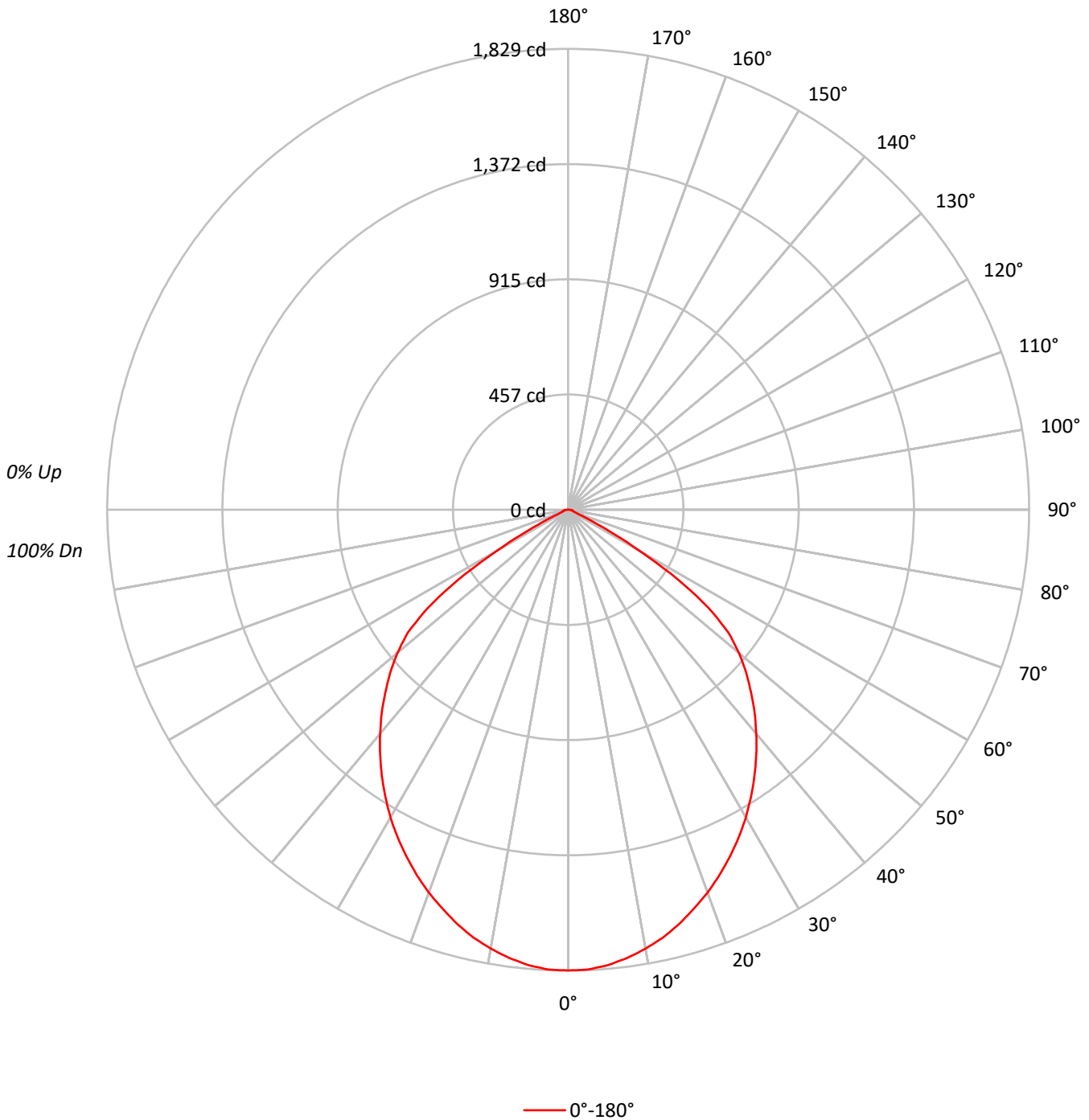
Lumens per Lamp: N/A
Luminaire Lumens: 3672.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): 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°	14549
5°	14490
10°	14290
15°	14018
20°	13689
25°	13332
30°	12952
35°	12519
40°	12057
45°	11540
50°	10947
55°	9429
60°	5198
65°	1465
70°	584
75°	624
80°	715
85°	876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11540 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	4.7
10°-20°	479.2	13.1
20°-30°	699.3	19.0
30°-40°	805.8	21.9
40°-50°	791.1	21.5
50°-60°	580.1	15.8
60°-70°	113.6	3.1
70°-80°	21.5	0.6
80°-90°	9.6	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°	1350.2	36.8
0°-40°	2156.0	58.7
0°-60°	3527.2	96.1
0°-90°	3672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3672.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1829	
5°	1814	172
15°	1702	479
25°	1519	699
35°	1289	806
45°	1026	791
55°	680	580
65°	78	114
75°	20	21
85°	10	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1828.8
2.5°	1826.4
5°	1814.4
7.5°	1794.1
10°	1768.9
12.5°	1739.0
15°	1701.9
17.5°	1660.0
20°	1616.9
22.5°	1569.1
25°	1518.8
27.5°	1466.1
30°	1409.9
32.5°	1350.0
35°	1289.0
37.5°	1225.6
40°	1160.9
42.5°	1095.1
45°	1025.7
47.5°	957.5
50°	884.5
52.5°	801.9
55°	679.8
57.5°	520.6
60°	326.7
62.5°	175.9
65°	77.8
67.5°	35.9
70°	25.1
72.5°	22.7
75°	20.3
77.5°	18.0
80°	15.6
82.5°	13.2
85°	9.6
87.5°	4.8
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	18.85	20.28	19.21	20.59	20.90	18.85	20.28	19.21	20.59	20.90
	3H	18.75	20.01	19.13	20.34	20.70	18.75	20.01	19.13	20.34	20.70
	4H	18.70	19.87	19.10	20.22	20.60	18.70	19.87	19.10	20.22	20.60
	6H	18.65	19.72	19.06	20.09	20.48	18.65	19.72	19.06	20.09	20.48
	8H	18.62	19.63	19.04	20.02	20.43	18.62	19.63	19.04	20.02	20.43
	12H	18.59	19.56	19.02	19.94	20.37	18.59	19.56	19.02	19.94	20.37
4H	2H	18.71	19.88	19.11	20.23	20.61	18.71	19.88	19.11	20.23	20.61
	3H	18.63	19.57	19.04	19.97	20.37	18.63	19.57	19.04	19.97	20.37
	4H	18.57	19.41	19.00	19.82	20.27	18.57	19.41	19.00	19.82	20.27
	6H	18.52	19.25	18.98	19.69	20.16	18.52	19.25	18.98	19.69	20.16
	8H	18.49	19.16	18.95	19.61	20.08	18.49	19.16	18.95	19.61	20.08
	12H	18.46	19.06	18.95	19.54	20.02	18.46	19.06	18.95	19.54	20.02
8H	4H	18.45	19.13	18.92	19.57	20.04	18.45	19.13	18.92	19.57	20.04
	6H	18.39	18.95	18.89	19.45	19.93	18.39	18.95	18.89	19.45	19.93
	8H	18.36	18.86	18.88	19.38	19.87	18.36	18.86	18.88	19.38	19.87
	12H	18.34	18.80	18.86	19.29	19.86	18.34	18.80	18.86	19.29	19.86
12H	4H	18.41	19.01	18.89	19.49	19.97	18.41	19.01	18.89	19.49	19.97
	6H	18.34	18.84	18.85	19.36	19.85	18.34	18.84	18.85	19.36	19.85
	8H	18.32	18.78	18.84	19.27	19.84	18.32	18.78	18.84	19.27	19.84