

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: P866250

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-52)
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-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

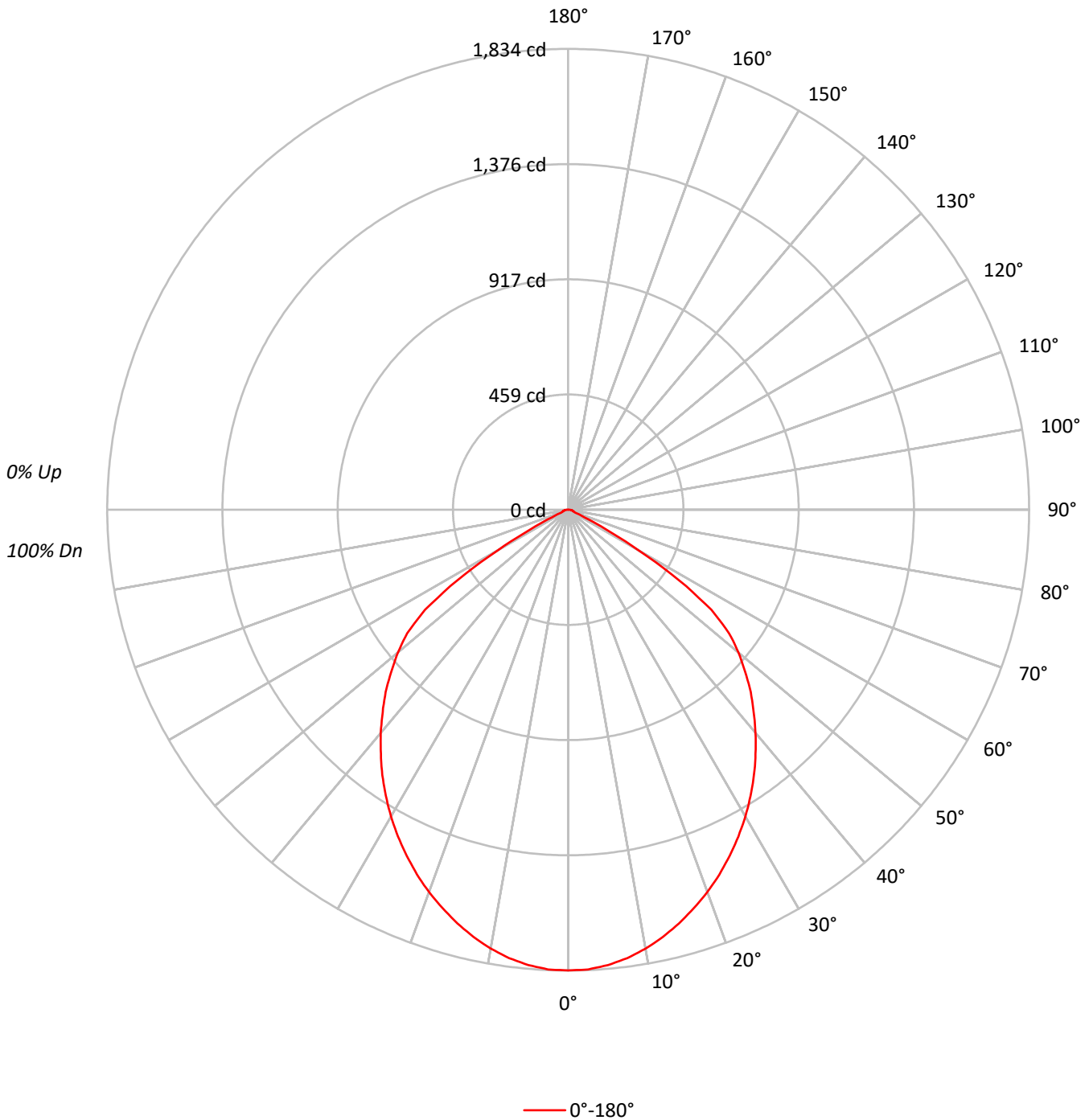
Lumens per Lamp: N/A
Luminaire Lumens: 3672.1 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (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	63	57	68	61	56	66	60	56	64	59	55	53
6	76	64	56	51	74	64	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	41	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	45	38	34	44	38	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14588
5°	14528
10°	14329
15°	14037
20°	13710
25°	13343
30°	12952
35°	12519
40°	12044
45°	11554
50°	10947
55°	9646
60°	5141
65°	1352
70°	556
75°	624
80°	715
85°	876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11554 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	4.7
10°-20°	480.0	13.1
20°-30°	699.8	19.1
30°-40°	805.5	21.9
40°-50°	790.3	21.5
50°-60°	585.4	15.9
60°-70°	108.0	2.9
70°-80°	21.3	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°	1352.0	36.8
0°-40°	2157.4	58.8
0°-60°	3533.1	96.2
0°-90°	3672.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3672.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1834	
5°	1819	172
15°	1704	480
25°	1520	700
35°	1289	805
45°	1027	790
55°	695	585
65°	72	108
75°	20	21
85°	10	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1833.6
2.5°	1831.2
5°	1819.2
7.5°	1800.1
10°	1773.7
12.5°	1741.4
15°	1704.3
17.5°	1662.4
20°	1619.3
22.5°	1571.5
25°	1520.0
27.5°	1466.1
30°	1409.9
32.5°	1350.0
35°	1289.0
37.5°	1224.4
40°	1159.7
42.5°	1092.7
45°	1026.9
47.5°	955.1
50°	884.5
52.5°	806.7
55°	695.4
57.5°	525.4
60°	323.1
62.5°	166.4
65°	71.8
67.5°	31.1
70°	23.9
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	18.91	20.33	19.27	20.65	20.96	18.91	20.33	19.27	20.65	20.96
	3H	18.81	20.06	19.18	20.39	20.76	18.81	20.06	19.18	20.39	20.76
	4H	18.75	19.92	19.15	20.27	20.65	18.75	19.92	19.15	20.27	20.65
	6H	18.70	19.77	19.11	20.14	20.53	18.70	19.77	19.11	20.14	20.53
	8H	18.67	19.68	19.10	20.07	20.48	18.67	19.68	19.10	20.07	20.48
	12H	18.64	19.61	19.07	19.99	20.42	18.64	19.61	19.07	19.99	20.42
4H	2H	18.76	19.93	19.16	20.28	20.66	18.76	19.93	19.16	20.28	20.66
	3H	18.67	19.61	19.08	20.02	20.42	18.67	19.61	19.08	20.02	20.42
	4H	18.61	19.45	19.05	19.87	20.31	18.61	19.45	19.05	19.87	20.31
	6H	18.57	19.29	19.03	19.73	20.20	18.57	19.29	19.03	19.73	20.20
	8H	18.53	19.21	19.00	19.65	20.12	18.53	19.21	19.00	19.65	20.12
	12H	18.51	19.11	18.99	19.59	20.06	18.51	19.11	18.99	19.59	20.06
8H	4H	18.49	19.17	18.96	19.62	20.09	18.49	19.17	18.96	19.62	20.09
	6H	18.44	18.99	18.94	19.49	19.97	18.44	18.99	18.94	19.49	19.97
	8H	18.40	18.91	18.92	19.42	19.91	18.40	18.91	18.92	19.42	19.91
	12H	18.38	18.84	18.90	19.33	19.90	18.38	18.84	18.90	19.33	19.90
12H	4H	18.45	19.05	18.94	19.54	20.01	18.45	19.05	18.94	19.54	20.01
	6H	18.38	18.89	18.90	19.40	19.89	18.38	18.89	18.90	19.40	19.89
	8H	18.36	18.82	18.88	19.31	19.88	18.36	18.82	18.88	19.31	19.88