

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: P866323

Luminaire Tested: PRLX-2002-M-935-55L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-935-55L-L-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

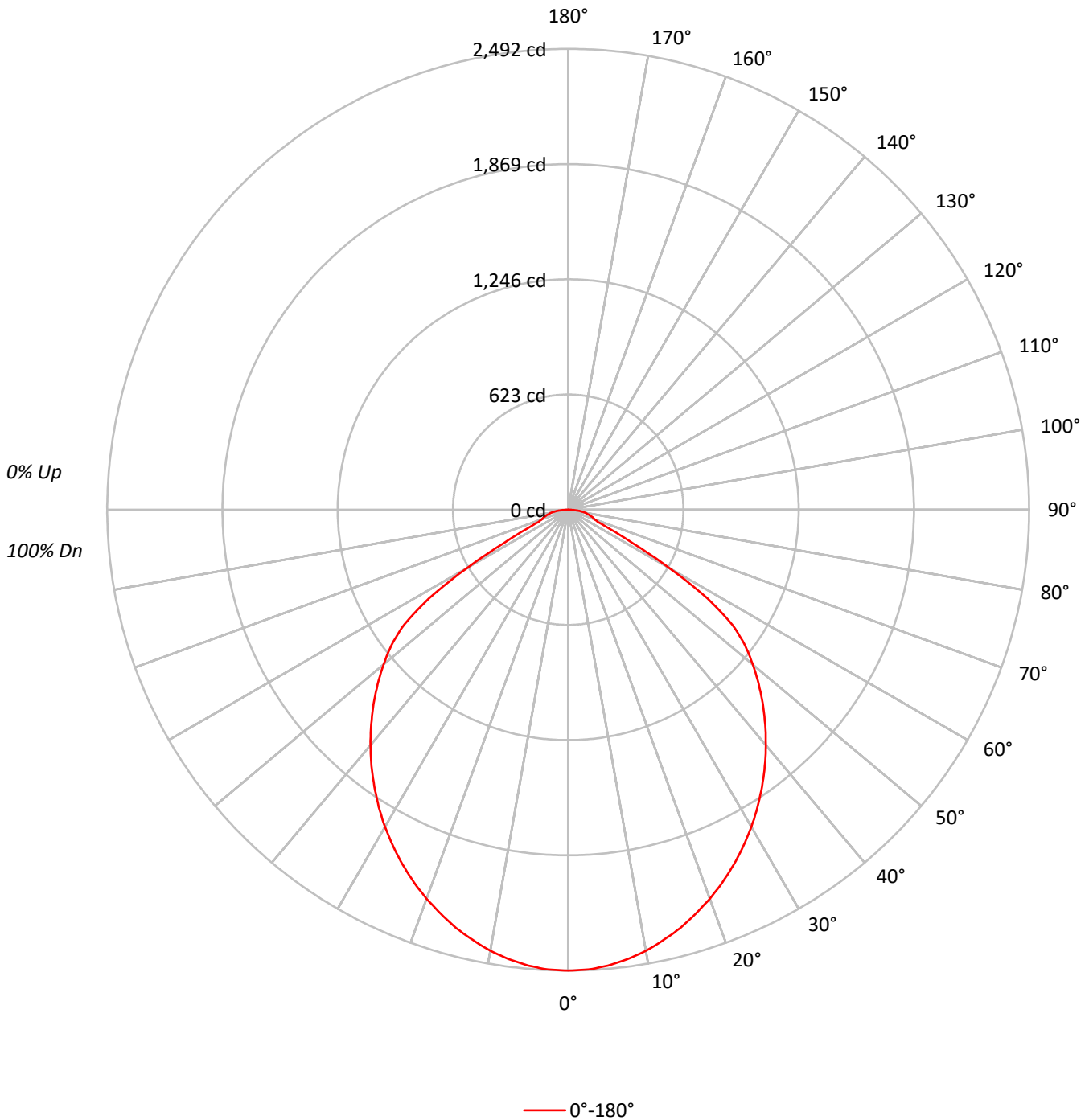
Lumens per Lamp: N/A
Luminaire Lumens: 5566.7 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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: 0.333 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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	58	53	63	57	53	62	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19829
5°	19762
10°	19569
15°	19287
20°	18954
25°	18590
30°	18194
35°	17742
40°	17267
45°	16742
50°	16126
55°	15029
60°	10093
65°	4776
70°	3505
75°	3762
80°	4169
85°	4628

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16742 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.5	4.2
10°-20°	659.7	11.9
20°-30°	975.3	17.5
30°-40°	1142.6	20.5
40°-50°	1147.0	20.6
50°-60°	925.7	16.6
60°-70°	299.2	5.4
70°-80°	129.2	2.3
80°-90°	53.4	1.0
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°	1869.5	33.6
0°-40°	3012.2	54.1
0°-60°	5084.8	91.3
0°-90°	5566.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5566.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2492	
5°	2474	235
15°	2342	660
25°	2118	975
35°	1827	1143
45°	1488	1147
55°	1084	926
65°	254	299
75°	122	129
85°	51	53
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2492.4
2.5°	2489.4
5°	2474.5
7.5°	2452.1
10°	2422.3
12.5°	2383.5
15°	2341.7
17.5°	2290.9
20°	2238.7
22.5°	2180.5
25°	2117.8
27.5°	2050.6
30°	1980.5
32.5°	1905.9
35°	1826.8
37.5°	1746.2
40°	1662.6
42.5°	1576.0
45°	1488.0
47.5°	1396.9
50°	1302.9
52.5°	1205.9
55°	1083.5
57.5°	894.0
60°	634.3
62.5°	397.0
65°	253.7
67.5°	174.6
70°	150.7
72.5°	138.8
75°	122.4
77.5°	107.5
80°	91.0
82.5°	73.1
85°	50.7
87.5°	26.9
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	21.11	22.61	21.48	22.93	23.24	21.11	22.61	21.48	22.93	23.24
	3H	21.22	22.55	21.60	22.88	23.24	21.22	22.55	21.60	22.88	23.24
	4H	21.31	22.55	21.71	22.90	23.28	21.31	22.55	21.71	22.90	23.28
	6H	21.42	22.57	21.84	22.94	23.33	21.42	22.57	21.84	22.94	23.33
	8H	21.48	22.57	21.91	22.96	23.36	21.48	22.57	21.91	22.96	23.36
	12H	21.53	22.57	21.96	22.95	23.38	21.53	22.57	21.96	22.95	23.38
4H	2H	21.08	22.32	21.48	22.67	23.05	21.08	22.32	21.48	22.67	23.05
	3H	21.28	22.30	21.69	22.70	23.10	21.28	22.30	21.69	22.70	23.10
	4H	21.44	22.35	21.87	22.76	23.20	21.44	22.35	21.87	22.76	23.20
	6H	21.66	22.45	22.12	22.89	23.35	21.66	22.45	22.12	22.89	23.35
	8H	21.76	22.50	22.23	22.95	23.41	21.76	22.50	22.23	22.95	23.41
	12H	21.86	22.52	22.35	23.00	23.47	21.86	22.52	22.35	23.00	23.47
8H	4H	21.45	22.19	21.92	22.64	23.11	21.45	22.19	21.92	22.64	23.11
	6H	21.75	22.37	22.25	22.86	23.34	21.75	22.37	22.25	22.86	23.34
	8H	21.92	22.47	22.44	22.99	23.47	21.92	22.47	22.44	22.99	23.47
	12H	22.10	22.59	22.61	23.09	23.65	22.10	22.59	22.61	23.09	23.65
12H	4H	21.44	22.10	21.93	22.58	23.06	21.44	22.10	21.93	22.58	23.06
	6H	21.76	22.31	22.27	22.82	23.31	21.76	22.31	22.27	22.82	23.31
	8H	21.97	22.47	22.48	22.96	23.53	21.97	22.47	22.48	22.96	23.53