

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: P866066

Luminaire Tested: PRLX-2001-M-935-55L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-55L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

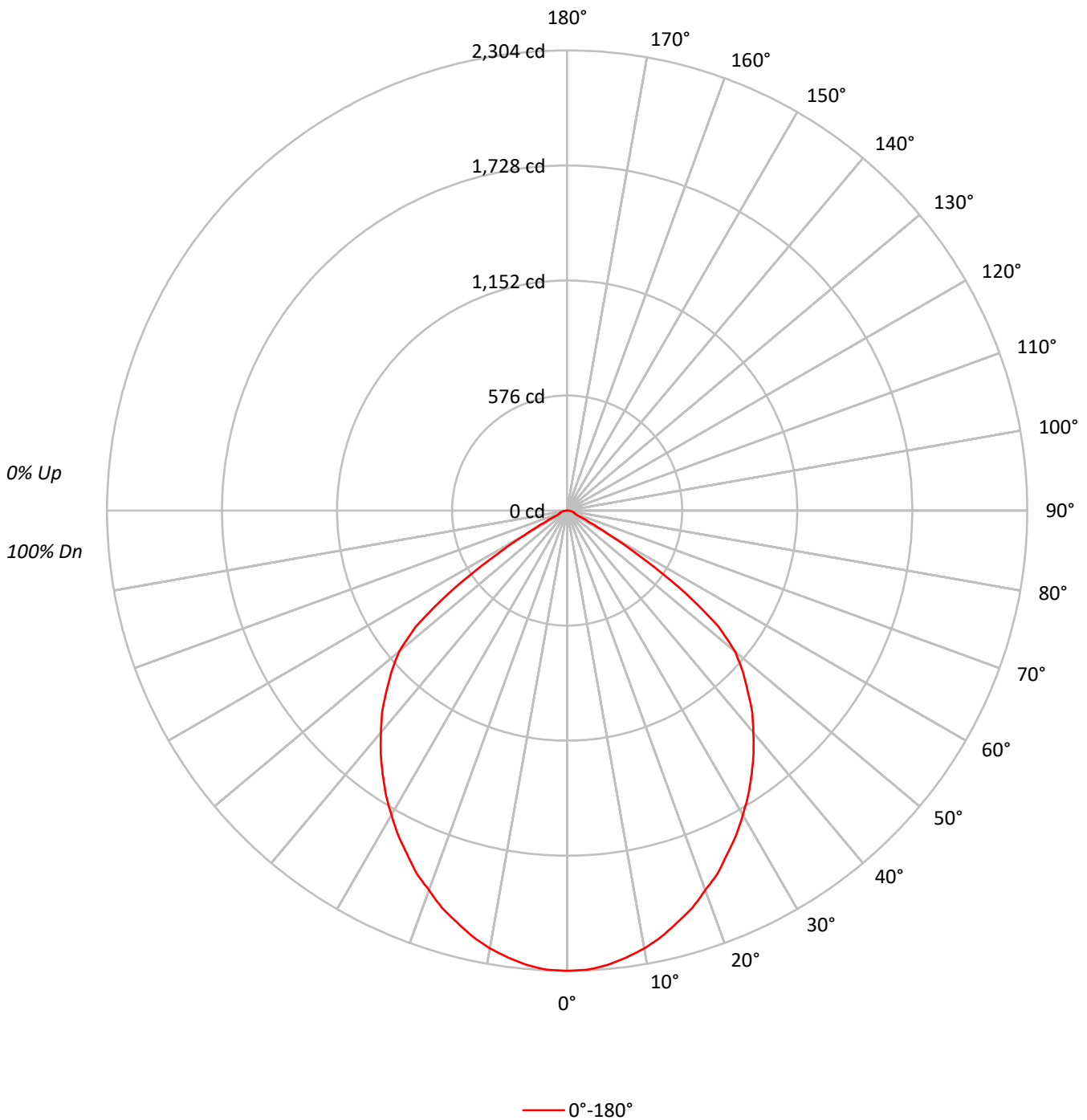
Lumens per Lamp: N/A
Luminaire Lumens: 4451.8 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	39	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19555
5°	19465
10°	19175
15°	18750
20°	18263
25°	17761
30°	17242
35°	16683
40°	16070
45°	15349
50°	14482
55°	10842
60°	4280
65°	1169
70°	1000
75°	1075
80°	1168
85°	1159

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15349 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.2	4.9
10°-20°	601.4	13.5
20°-30°	874.4	19.6
30°-40°	1007.0	22.6
40°-50°	986.9	22.2
50°-60°	627.0	14.1
60°-70°	91.3	2.1
70°-80°	34.5	0.8
80°-90°	13.0	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°	1692.0	38.0
0°-40°	2699.1	60.6
0°-60°	4313.0	96.9
0°-90°	4451.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4451.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2304	
5°	2285	216
15°	2134	601
25°	1897	874
35°	1610	1007
45°	1279	987
55°	733	627
65°	58	91
75°	33	34
85°	12	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2304.4
2.5°	2301.4
5°	2285.0
7.5°	2258.1
10°	2225.3
12.5°	2185.0
15°	2134.2
17.5°	2085.0
20°	2022.3
22.5°	1967.1
25°	1896.9
27.5°	1832.7
30°	1759.6
32.5°	1688.0
35°	1610.4
37.5°	1532.8
40°	1450.7
42.5°	1371.6
45°	1279.0
47.5°	1192.5
50°	1097.0
52.5°	955.2
55°	732.8
57.5°	467.1
60°	252.2
62.5°	126.9
65°	58.2
67.5°	41.8
70°	40.3
72.5°	37.3
75°	32.8
77.5°	28.4
80°	23.9
82.5°	17.9
85°	11.9
87.5°	6.0
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	17.64	19.04	18.00	19.35	19.67	17.64	19.04	18.00	19.35	19.67
	3H	17.57	18.80	17.95	19.13	19.49	17.57	18.80	17.95	19.13	19.49
	4H	17.54	18.69	17.94	19.04	19.42	17.54	18.69	17.94	19.04	19.42
	6H	17.52	18.57	17.94	18.94	19.34	17.52	18.57	17.94	18.94	19.34
	8H	17.51	18.50	17.93	18.89	19.30	17.51	18.50	17.93	18.89	19.30
	12H	17.49	18.44	17.92	18.82	19.25	17.49	18.44	17.92	18.82	19.25
4H	2H	17.48	18.62	17.88	18.97	19.36	17.48	18.62	17.88	18.97	19.36
	3H	17.44	18.36	17.85	18.77	19.17	17.44	18.36	17.85	18.77	19.17
	4H	17.43	18.25	17.86	18.67	19.11	17.43	18.25	17.86	18.67	19.11
	6H	17.44	18.15	17.90	18.59	19.06	17.44	18.15	17.90	18.59	19.06
	8H	17.43	18.09	17.90	18.54	19.01	17.43	18.09	17.90	18.54	19.01
	12H	17.42	18.01	17.91	18.49	18.96	17.42	18.01	17.91	18.49	18.96
8H	4H	17.33	18.00	17.80	18.44	18.91	17.33	18.00	17.80	18.44	18.91
	6H	17.35	17.90	17.86	18.40	18.88	17.35	17.90	17.86	18.40	18.88
	8H	17.36	17.85	17.88	18.37	18.86	17.36	17.85	17.88	18.37	18.86
	12H	17.37	17.82	17.88	18.31	18.88	17.37	17.82	17.88	18.31	18.88
12H	4H	17.30	17.89	17.78	18.37	18.84	17.30	17.89	17.78	18.37	18.84
	6H	17.31	17.81	17.83	18.32	18.81	17.31	17.81	17.83	18.32	18.81
	8H	17.34	17.78	17.85	18.28	18.85	17.34	17.78	17.85	18.28	18.85