

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: P866894

Luminaire Tested: PRLX-2001-L-940-48L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-78)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-940-48L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

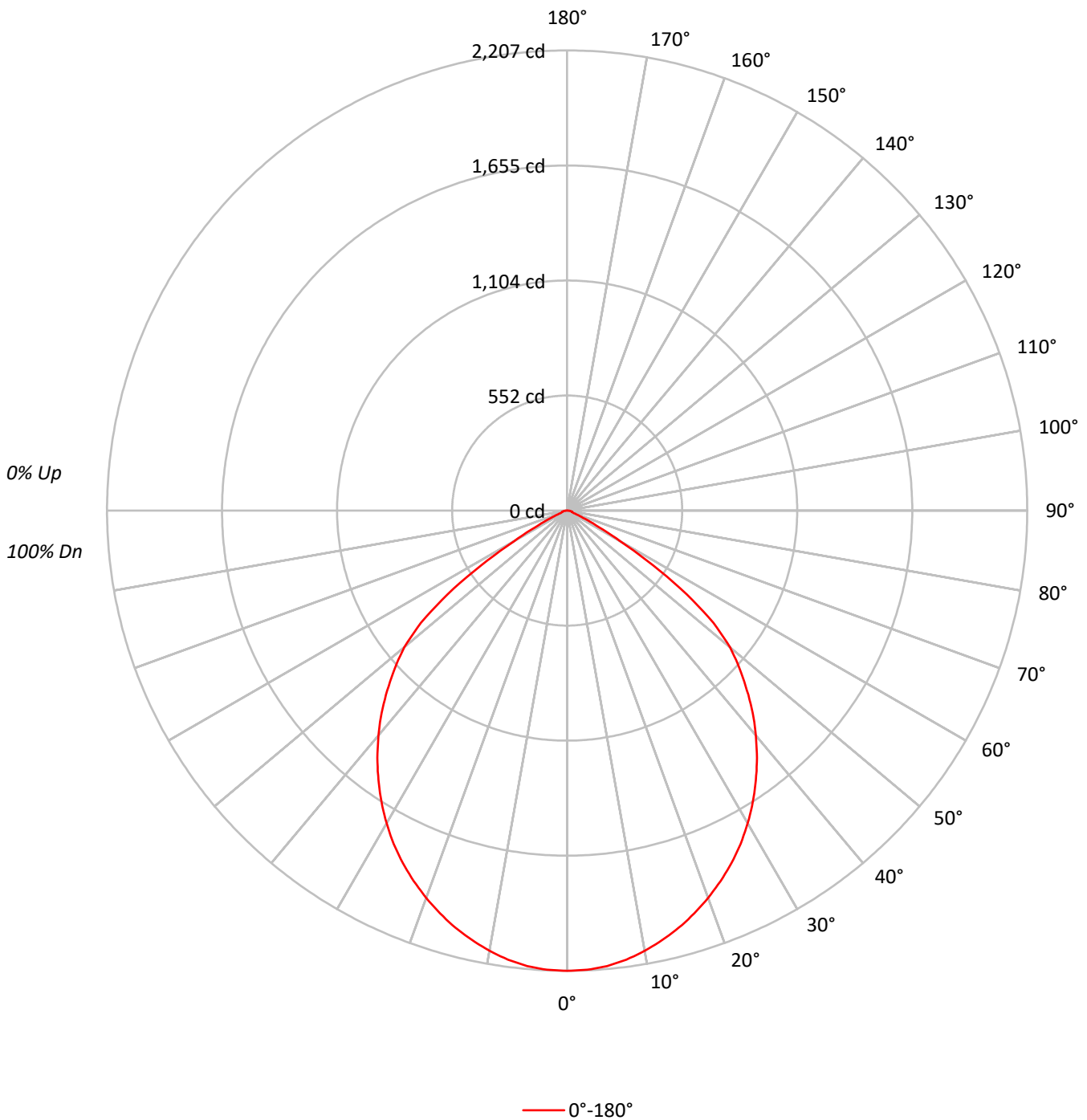
Lumens per Lamp: N/A
Luminaire Lumens: 4335.3 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	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	84	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	69
4	89	79	72	66	87	78	71	66	75	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	54
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	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12067
5°	12033
10°	11901
15°	11721
20°	11502
25°	11252
30°	10935
35°	10533
40°	10043
45°	9431
50°	8666
55°	6691
60°	3235
65°	1221
70°	481
75°	530
80°	601
85°	684

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9431 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.8	4.8
10°-20°	583.5	13.5
20°-30°	858.2	19.8
30°-40°	985.6	22.7
40°-50°	939.6	21.7
50°-60°	606.5	14.0
60°-70°	116.5	2.7
70°-80°	26.2	0.6
80°-90°	11.3	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°	1649.4	38.0
0°-40°	2635.1	60.8
0°-60°	4181.2	96.4
0°-90°	4335.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4335.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2207	
5°	2193	208
15°	2071	583
25°	1865	858
35°	1578	986
45°	1220	940
55°	702	607
65°	94	117
75°	25	26
85°	11	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2207.3
2.5°	2204.6
5°	2192.7
7.5°	2172.7
10°	2143.9
12.5°	2109.7
15°	2071.0
17.5°	2026.3
20°	1977.1
22.5°	1922.8
25°	1865.4
27.5°	1802.0
30°	1732.3
32.5°	1657.5
35°	1578.2
37.5°	1495.7
40°	1407.3
42.5°	1318.4
45°	1219.9
47.5°	1122.8
50°	1018.9
52.5°	884.4
55°	702.0
57.5°	489.1
60°	295.9
62.5°	169.6
65°	94.4
67.5°	49.2
70°	30.1
72.5°	27.4
75°	25.1
77.5°	22.3
80°	19.1
82.5°	15.5
85°	10.9
87.5°	5.5
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	16.56	17.96	16.92	18.27	18.59	16.56	17.96	16.92	18.27	18.59
	3H	16.48	17.71	16.86	18.04	18.41	16.48	17.71	16.86	18.04	18.41
	4H	16.43	17.58	16.84	17.93	18.31	16.43	17.58	16.84	17.93	18.31
	6H	16.39	17.44	16.80	17.81	18.20	16.39	17.44	16.80	17.81	18.20
	8H	16.37	17.36	16.80	17.75	18.16	16.37	17.36	16.80	17.75	18.16
	12H	16.34	17.29	16.77	17.68	18.11	16.34	17.29	16.77	17.68	18.11
4H	2H	16.44	17.58	16.84	17.93	18.32	16.44	17.58	16.84	17.93	18.32
	3H	16.38	17.30	16.79	17.70	18.11	16.38	17.30	16.79	17.70	18.11
	4H	16.33	17.15	16.77	17.57	18.01	16.33	17.15	16.77	17.57	18.01
	6H	16.30	17.01	16.77	17.46	17.92	16.30	17.01	16.77	17.46	17.92
	8H	16.28	16.94	16.75	17.39	17.86	16.28	16.94	16.75	17.39	17.86
	12H	16.26	16.85	16.75	17.33	17.80	16.26	16.85	16.75	17.33	17.80
8H	4H	16.22	16.88	16.69	17.33	17.80	16.22	16.88	16.69	17.33	17.80
	6H	16.19	16.74	16.69	17.23	17.71	16.19	16.74	16.69	17.23	17.71
	8H	16.17	16.67	16.69	17.18	17.67	16.17	16.67	16.69	17.18	17.67
	12H	16.17	16.61	16.68	17.11	17.68	16.17	16.61	16.68	17.11	17.68
12H	4H	16.18	16.77	16.67	17.25	17.72	16.18	16.77	16.67	17.25	17.72
	6H	16.14	16.63	16.66	17.15	17.64	16.14	16.63	16.66	17.15	17.64
	8H	16.14	16.59	16.65	17.08	17.65	16.14	16.59	16.65	17.08	17.65