

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: P866832

Luminaire Tested: PRLX-2001-L-935-48L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-48L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

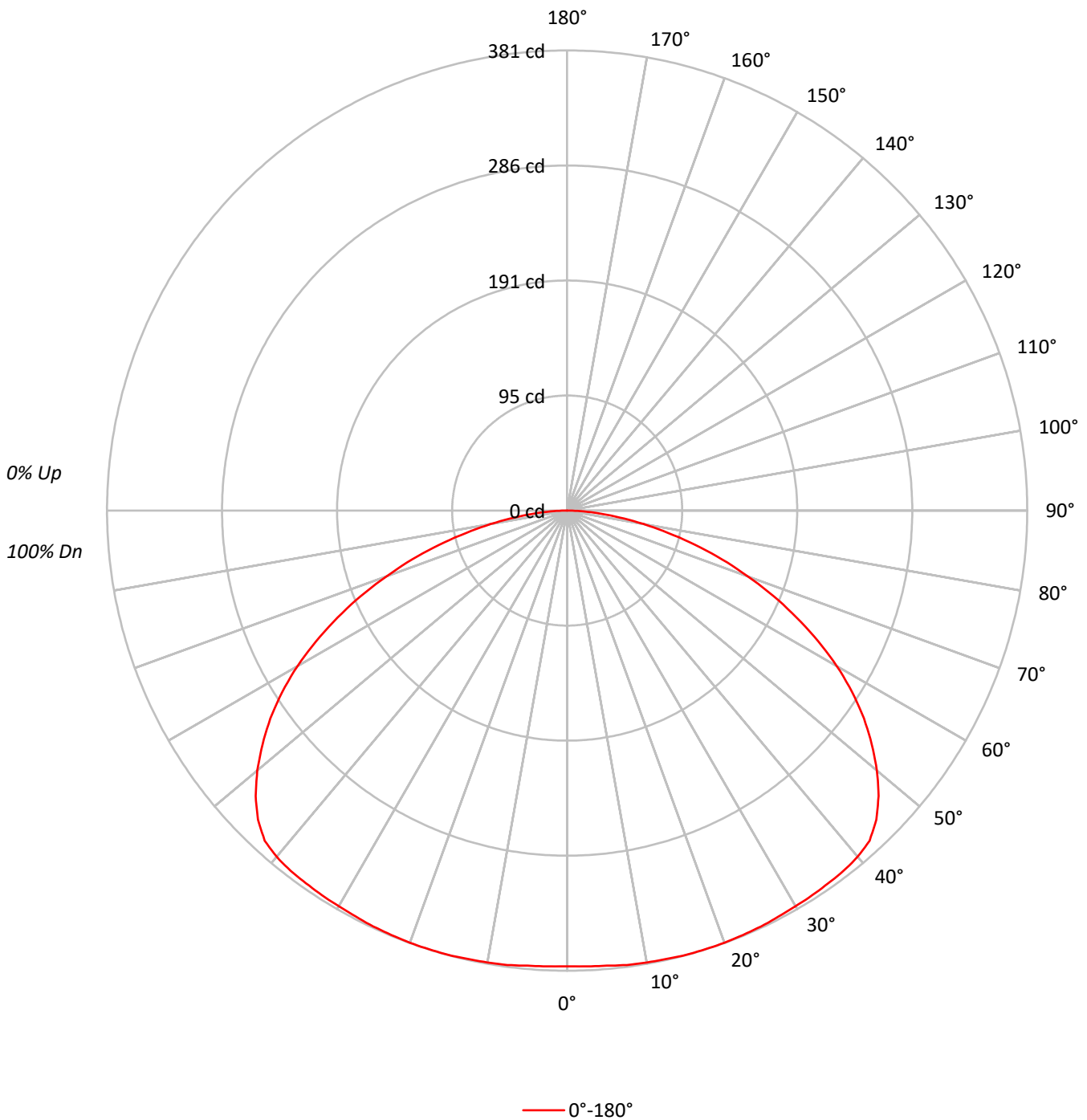
Lumens per Lamp: N/A
Luminaire Lumens: 1455.4 lumens
Efficiency: N/A
Efficacy: 38.8 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69
3	88	77	68	62	86	75	67	61	72	66	60	70	64	59	67	62	58
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49
5	73	60	50	43	71	59	50	43	57	49	43	55	48	42	53	47	42
6	68	54	44	37	66	53	44	37	51	43	37	49	42	36	47	41	36
7	62	48	39	33	61	47	39	32	46	38	32	44	37	32	43	37	32
8	58	44	35	29	56	43	35	29	42	34	28	40	33	28	39	33	28
9	54	40	31	26	52	39	31	25	38	31	25	37	30	25	36	30	25
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2063
5°	2075
10°	2109
15°	2155
20°	2215
25°	2292
30°	2387
35°	2515
40°	2670
45°	2799
50°	2848
55°	2859
60°	2822
65°	2711
70°	2540
75°	2315
80°	2021
85°	1587

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 2859 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	2.5
10°-20°	107.9	7.4
20°-30°	175.7	12.1
30°-40°	236.6	16.3
40°-50°	277.8	19.1
50°-60°	267.2	18.4
60°-70°	207.3	14.2
70°-80°	116.3	8.0
80°-90°	30.5	2.1
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°	319.8	22.0
0°-40°	556.3	38.2
0°-60°	1101.4	75.7
0°-90°	1455.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1455.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	377	
5°	378	36
15°	381	108
25°	380	176
35°	377	237
45°	362	278
55°	300	267
65°	210	207
75°	110	116
85°	25	30
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	377.3
2.5°	377.7
5°	378.2
7.5°	379.5
10°	379.9
12.5°	380.3
15°	380.8
17.5°	380.8
20°	380.8
22.5°	380.3
25°	379.9
27.5°	379.0
30°	378.2
32.5°	377.7
35°	376.8
37.5°	376.0
40°	374.2
42.5°	370.7
45°	362.0
47.5°	349.8
50°	334.9
52.5°	317.9
55°	300.0
57.5°	279.9
60°	258.1
62.5°	234.5
65°	209.6
67.5°	185.1
70°	158.9
72.5°	134.5
75°	109.6
77.5°	85.6
80°	64.2
82.5°	43.7
85°	25.3
87.5°	10.9
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	16.23	17.95	16.60	18.26	18.58	16.23	17.95	16.60	18.26	18.58
	3H	18.05	19.61	18.43	19.94	20.30	18.05	19.61	18.43	19.94	20.30
	4H	18.71	20.18	19.11	20.53	20.90	18.71	20.18	19.11	20.53	20.90
	6H	19.17	20.54	19.58	20.90	21.29	19.17	20.54	19.58	20.90	21.29
	8H	19.32	20.62	19.74	21.01	21.41	19.32	20.62	19.74	21.01	21.41
	12H	19.40	20.66	19.83	21.04	21.47	19.40	20.66	19.83	21.04	21.47
4H	2H	16.89	18.36	17.29	18.71	19.08	16.89	18.36	17.29	18.71	19.08
	3H	18.92	20.17	19.33	20.56	20.96	18.92	20.17	19.33	20.56	20.96
	4H	19.71	20.83	20.14	21.24	21.67	19.71	20.83	20.14	21.24	21.67
	6H	20.29	21.28	20.74	21.71	22.17	20.29	21.28	20.74	21.71	22.17
	8H	20.48	21.40	20.93	21.84	22.30	20.48	21.40	20.93	21.84	22.30
	12H	20.61	21.44	21.08	21.91	22.38	20.61	21.44	21.08	21.91	22.38
8H	4H	20.02	20.94	20.47	21.38	21.84	20.02	20.94	20.47	21.38	21.84
	6H	20.72	21.49	21.21	21.97	22.44	20.72	21.49	21.21	21.97	22.44
	8H	20.97	21.66	21.47	22.16	22.65	20.97	21.66	21.47	22.16	22.65
	12H	21.16	21.77	21.66	22.26	22.82	21.16	21.77	21.66	22.26	22.82
12H	4H	20.05	20.89	20.53	21.36	21.83	20.05	20.89	20.53	21.36	21.83
	6H	20.77	21.46	21.27	21.96	22.45	20.77	21.46	21.27	21.96	22.45
	8H	21.08	21.69	21.58	22.18	22.73	21.08	21.69	21.58	22.18	22.73