

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: P867153

Luminaire Tested: PRLX-2002-L-940-48L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-940-48L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

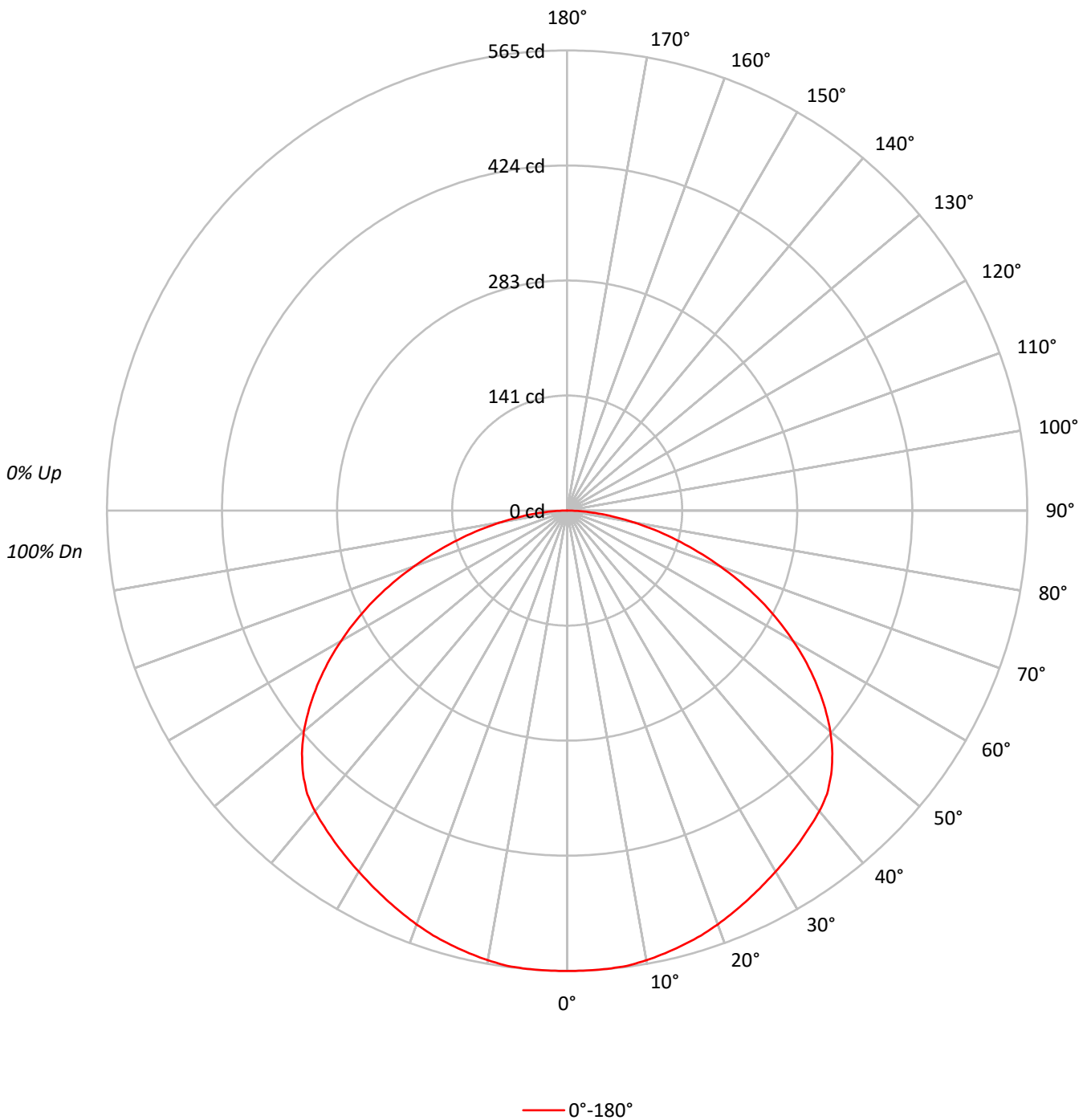
Lumens per Lamp: N/A
Luminaire Lumens: 1898.6 lumens
Efficiency: N/A
Efficacy: 50.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48
5	74	61	51	45	72	60	51	44	58	50	44	55	49	43	54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2789
5°	2797
10°	2809
15°	2820
20°	2839
25°	2866
30°	2916
35°	2995
40°	3104
45°	3200
50°	3240
55°	3223
60°	3167
65°	3066
70°	2881
75°	2642
80°	2358
85°	1936

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 3240 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	2.8
10°-20°	156.1	8.2
20°-30°	243.3	12.8
30°-40°	311.9	16.4
40°-50°	352.6	18.6
50°-60°	334.3	17.6
60°-70°	259.0	13.6
70°-80°	147.3	7.8
80°-90°	40.4	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°	453.2	23.9
0°-40°	765.1	40.3
0°-60°	1452.0	76.5
0°-90°	1898.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1898.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	565	
5°	565	54
15°	552	156
25°	526	243
35°	497	312
45°	459	353
55°	375	334
65°	263	259
75°	139	147
85°	34	40
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	565.3
2.5°	565.3
5°	564.8
7.5°	563.9
10°	560.7
12.5°	556.6
15°	552.1
17.5°	547.0
20°	540.7
22.5°	533.8
25°	526.5
27.5°	519.2
30°	511.9
32.5°	504.6
35°	497.3
37.5°	489.6
40°	481.9
42.5°	472.3
45°	458.6
47.5°	441.7
50°	422.1
52.5°	399.3
55°	374.7
57.5°	348.7
60°	320.9
62.5°	292.2
65°	262.6
67.5°	231.6
70°	199.7
72.5°	168.7
75°	138.6
77.5°	109.9
80°	83.0
82.5°	57.4
85°	34.2
87.5°	15.5
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	16.51	18.20	16.87	18.52	18.83	16.51	18.20	16.87	18.52	18.83
	3H	18.35	19.89	18.72	20.21	20.57	18.35	19.89	18.72	20.21	20.57
	4H	19.02	20.47	19.41	20.81	21.19	19.02	20.47	19.41	20.81	21.19
	6H	19.50	20.85	19.91	21.21	21.60	19.50	20.85	19.91	21.21	21.60
	8H	19.66	20.95	20.08	21.34	21.73	19.66	20.95	20.08	21.34	21.73
	12H	19.76	20.99	20.19	21.38	21.80	19.76	20.99	20.19	21.38	21.80
4H	2H	17.17	18.62	17.57	18.97	19.34	17.17	18.62	17.57	18.97	19.34
	3H	19.22	20.44	19.63	20.84	21.24	19.22	20.44	19.63	20.84	21.24
	4H	20.01	21.12	20.44	21.53	21.97	20.01	21.12	20.44	21.53	21.97
	6H	20.63	21.60	21.08	22.04	22.49	20.63	21.60	21.08	22.04	22.49
	8H	20.83	21.74	21.29	22.18	22.64	20.83	21.74	21.29	22.18	22.64
	12H	20.97	21.79	21.45	22.27	22.73	20.97	21.79	21.45	22.27	22.73
8H	4H	20.33	21.24	20.79	21.68	22.14	20.33	21.24	20.79	21.68	22.14
	6H	21.07	21.82	21.56	22.31	22.78	21.07	21.82	21.56	22.31	22.78
	8H	21.34	22.02	21.84	22.52	23.01	21.34	22.02	21.84	22.52	23.01
	12H	21.55	22.15	22.05	22.64	23.20	21.55	22.15	22.05	22.64	23.20
12H	4H	20.37	21.19	20.85	21.66	22.13	20.37	21.19	20.85	21.66	22.13
	6H	21.12	21.80	21.63	22.31	22.79	21.12	21.80	21.63	22.31	22.79
	8H	21.45	22.05	21.96	22.54	23.10	21.45	22.05	21.96	22.54	23.10