

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: P867151

Luminaire Tested: PRLX-2002-L-940-48L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-940-48L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

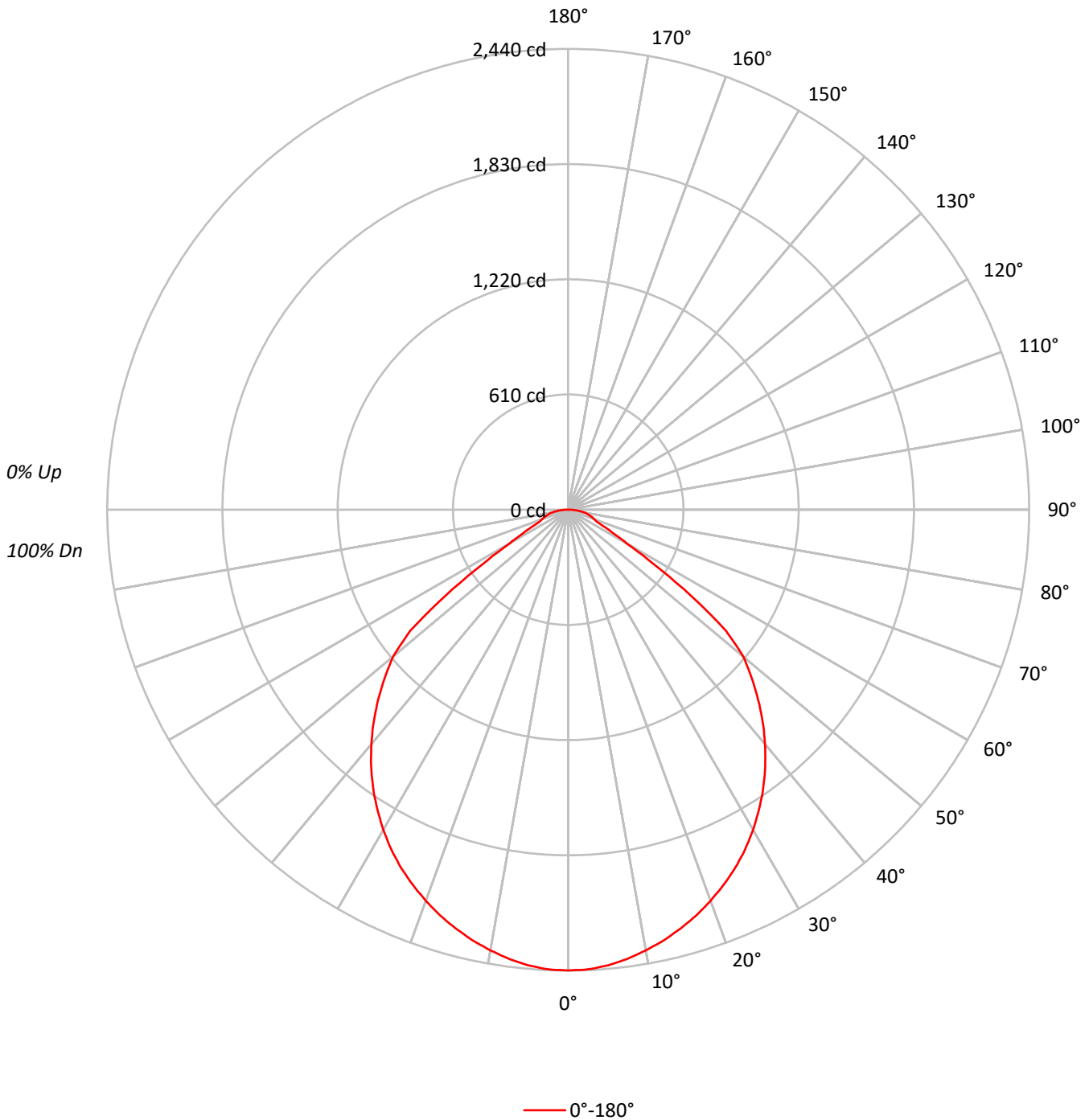
Lumens per Lamp: N/A
Luminaire Lumens: 5153.6 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: 0.333 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	105	101	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12038
5°	11993
10°	11869
15°	11726
20°	11568
25°	11389
30°	11147
35°	10843
40°	10438
45°	9921
50°	9283
55°	6800
60°	3553
65°	2369
70°	2118
75°	2251
80°	2461
85°	2712

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9921 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.5	4.5
10°-20°	647.5	12.6
20°-30°	962.9	18.7
30°-40°	1124.0	21.8
40°-50°	1095.0	21.2
50°-60°	701.5	13.6
60°-70°	218.4	4.2
70°-80°	124.4	2.4
80°-90°	50.4	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°	1839.9	35.7
0°-40°	2963.8	57.5
0°-60°	4760.4	92.4
0°-90°	5153.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5153.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2440	
5°	2422	229
15°	2296	647
25°	2092	963
35°	1800	1124
45°	1422	1095
55°	790	702
65°	203	218
75°	118	124
85°	48	50
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2439.8
2.5°	2436.1
5°	2421.6
7.5°	2398.8
10°	2369.1
12.5°	2335.9
15°	2295.7
17.5°	2252.9
20°	2203.2
22.5°	2149.9
25°	2092.0
27.5°	2028.1
30°	1956.6
32.5°	1880.4
35°	1800.2
37.5°	1713.6
40°	1620.6
42.5°	1524.4
45°	1421.8
47.5°	1317.0
50°	1209.4
52.5°	1052.6
55°	790.5
57.5°	535.2
60°	360.1
62.5°	268.5
65°	202.9
67.5°	160.9
70°	146.8
72.5°	133.6
75°	118.1
77.5°	103.0
80°	86.6
82.5°	68.4
85°	47.9
87.5°	25.5
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	16.19	17.65	16.56	17.96	18.28	16.19	17.65	16.56	17.96	18.28
	3H	16.61	17.90	16.99	18.23	18.59	16.61	17.90	16.99	18.23	18.59
	4H	16.90	18.10	17.30	18.45	18.83	16.90	18.10	17.30	18.45	18.83
	6H	17.21	18.32	17.63	18.69	19.08	17.21	18.32	17.63	18.69	19.08
	8H	17.36	18.41	17.79	18.80	19.21	17.36	18.41	17.79	18.80	19.21
	12H	17.49	18.49	17.92	18.87	19.30	17.49	18.49	17.92	18.87	19.30
4H	2H	16.25	17.46	16.65	17.81	18.19	16.25	17.46	16.65	17.81	18.19
	3H	16.87	17.85	17.28	18.25	18.66	16.87	17.85	17.28	18.25	18.66
	4H	17.29	18.17	17.73	18.59	19.03	17.29	18.17	17.73	18.59	19.03
	6H	17.78	18.55	18.24	18.99	19.45	17.78	18.55	18.24	18.99	19.45
	8H	18.00	18.72	18.47	19.16	19.63	18.00	18.72	18.47	19.16	19.63
	12H	18.21	18.84	18.69	19.32	19.80	18.21	18.84	18.69	19.32	19.80
8H	4H	17.44	18.15	17.90	18.60	19.07	17.44	18.15	17.90	18.60	19.07
	6H	18.07	18.66	18.57	19.15	19.63	18.07	18.66	18.57	19.15	19.63
	8H	18.39	18.92	18.90	19.43	19.92	18.39	18.92	18.90	19.43	19.92
	12H	18.69	19.18	19.21	19.67	20.24	18.69	19.18	19.21	19.67	20.24
12H	4H	17.45	18.09	17.93	18.57	19.04	17.45	18.09	17.93	18.57	19.04
	6H	18.11	18.65	18.63	19.16	19.65	18.11	18.65	18.63	19.16	19.65
	8H	18.50	18.98	19.01	19.47	20.04	18.50	18.98	19.01	19.47	20.04