

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: P866959

Luminaire Tested: PRLX-2002-L-927-48L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866959
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-927-48L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

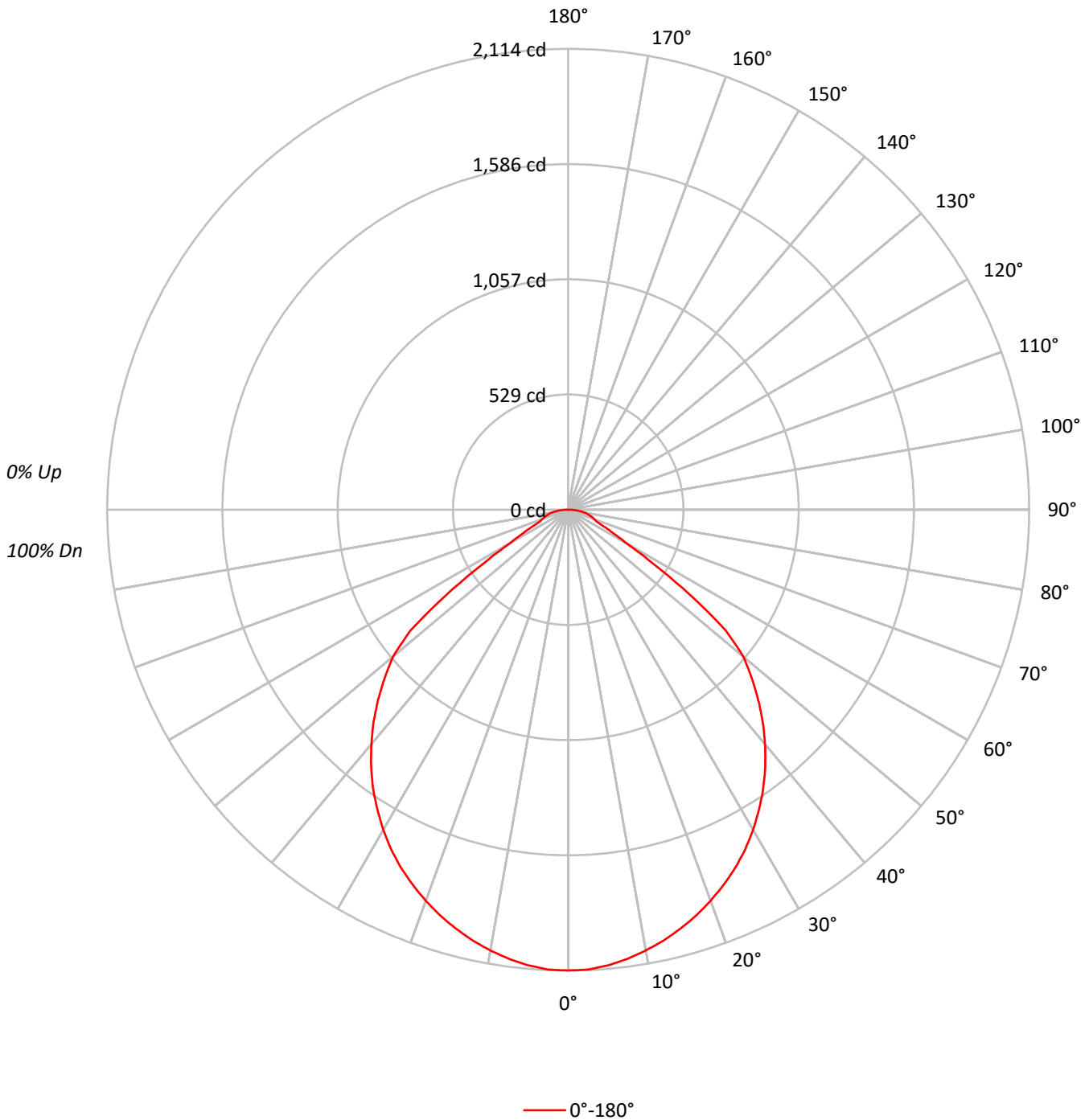
Lumens per Lamp: N/A
Luminaire Lumens: 4465.2 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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°	10430
5°	10391
10°	10284
15°	10160
20°	10023
25°	9868
30°	9658
35°	9395
40°	9043
45°	8596
50°	8043
55°	5891
60°	3079
65°	2052
70°	1835
75°	1950
80°	2131
85°	2349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8596 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	4.5
10°-20°	561.0	12.6
20°-30°	834.3	18.7
30°-40°	973.8	21.8
40°-50°	948.8	21.2
50°-60°	607.8	13.6
60°-70°	189.3	4.2
70°-80°	107.8	2.4
80°-90°	43.6	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°	1594.1	35.7
0°-40°	2568.0	57.5
0°-60°	4124.5	92.4
0°-90°	4465.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4465.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2114	
5°	2098	199
15°	1989	561
25°	1813	834
35°	1560	974
45°	1232	949
55°	685	608
65°	176	189
75°	102	108
85°	42	44
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2113.9
2.5°	2110.8
5°	2098.1
7.5°	2078.4
10°	2052.7
12.5°	2023.9
15°	1989.1
17.5°	1952.0
20°	1908.9
22.5°	1862.7
25°	1812.6
27.5°	1757.3
30°	1695.2
32.5°	1629.3
35°	1559.8
37.5°	1484.7
40°	1404.1
42.5°	1320.8
45°	1231.9
47.5°	1141.1
50°	1047.9
52.5°	912.0
55°	684.9
57.5°	463.7
60°	312.0
62.5°	232.6
65°	175.8
67.5°	139.4
70°	127.2
72.5°	115.7
75°	102.3
77.5°	89.3
80°	75.0
82.5°	59.2
85°	41.5
87.5°	22.1
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	15.70	17.15	16.06	17.46	17.78	15.70	17.15	16.06	17.46	17.78
	3H	16.11	17.40	16.49	17.73	18.09	16.11	17.40	16.49	17.73	18.09
	4H	16.40	17.60	16.80	17.95	18.33	16.40	17.60	16.80	17.95	18.33
	6H	16.72	17.82	17.13	18.19	18.58	16.72	17.82	17.13	18.19	18.58
	8H	16.86	17.91	17.29	18.30	18.71	16.86	17.91	17.29	18.30	18.71
	12H	16.99	17.99	17.42	18.38	18.81	16.99	17.99	17.42	18.38	18.81
4H	2H	15.75	16.96	16.16	17.31	17.69	15.75	16.96	16.16	17.31	17.69
	3H	16.37	17.35	16.78	17.76	18.16	16.37	17.35	16.78	17.76	18.16
	4H	16.79	17.67	17.23	18.09	18.53	16.79	17.67	17.23	18.09	18.53
	6H	17.28	18.05	17.74	18.49	18.96	17.28	18.05	17.74	18.49	18.96
	8H	17.51	18.22	17.97	18.67	19.13	17.51	18.22	17.97	18.67	19.13
	12H	17.71	18.34	18.19	18.82	19.30	17.71	18.34	18.19	18.82	19.30
8H	4H	16.94	17.65	17.40	18.10	18.57	16.94	17.65	17.40	18.10	18.57
	6H	17.57	18.16	18.07	18.66	19.13	17.57	18.16	18.07	18.66	19.13
	8H	17.89	18.42	18.40	18.94	19.43	17.89	18.42	18.40	18.94	19.43
	12H	18.20	18.68	18.71	19.17	19.74	18.20	18.68	18.71	19.17	19.74
12H	4H	16.95	17.59	17.44	18.07	18.54	16.95	17.59	17.44	18.07	18.54
	6H	17.62	18.15	18.13	18.66	19.15	17.62	18.15	18.13	18.66	19.15
	8H	18.00	18.48	18.51	18.97	19.54	18.00	18.48	18.51	18.97	19.54