

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: P865951

Luminaire Tested: PRLX-2001-M-927-75L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-75L-G-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

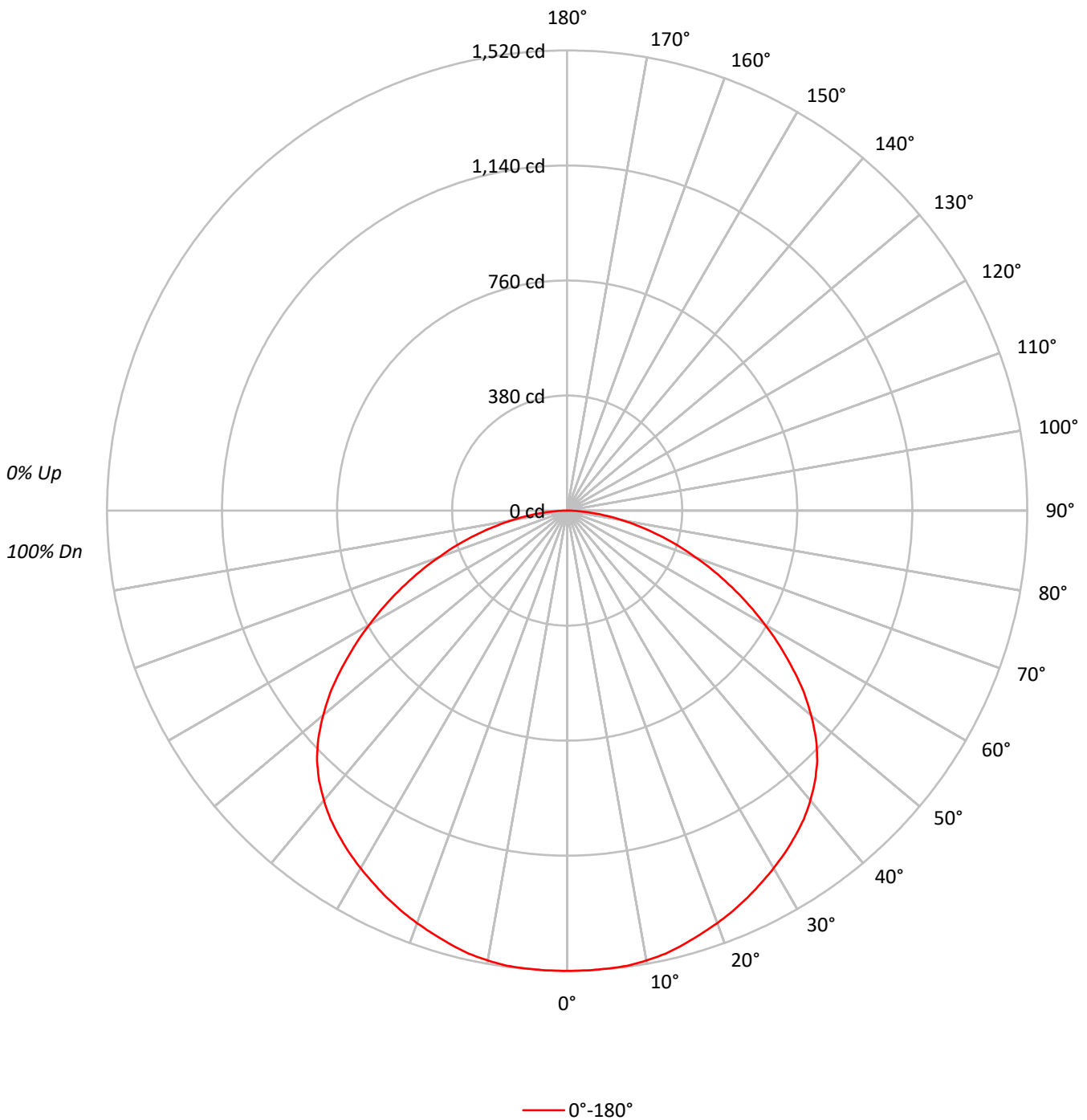
Lumens per Lamp: N/A
Luminaire Lumens: 4766.6 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12903
5°	12936
10°	13004
15°	13040
20°	13095
25°	13203
30°	13369
35°	13602
40°	13849
45°	14022
50°	13892
55°	13457
60°	12822
65°	12074
70°	11190
75°	10295
80°	9114
85°	7410

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14022 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	3.0
10°-20°	419.4	8.8
20°-30°	651.0	13.7
30°-40°	822.3	17.3
40°-50°	897.6	18.8
50°-60°	812.2	17.0
60°-70°	595.9	12.5
70°-80°	332.9	7.0
80°-90°	90.6	1.9
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°	1215.1	25.5
0°-40°	2037.4	42.7
0°-60°	3747.2	78.6
0°-90°	4766.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4766.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1520	
5°	1519	145
15°	1484	419
25°	1410	651
35°	1313	822
45°	1168	898
55°	910	812
65°	601	596
75°	314	333
85°	76	91
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1520.5
2.5°	1520.5
5°	1518.6
7.5°	1516.7
10°	1509.1
12.5°	1499.5
15°	1484.3
17.5°	1467.2
20°	1450.1
22.5°	1431.0
25°	1410.1
27.5°	1387.3
30°	1364.4
32.5°	1339.7
35°	1313.0
37.5°	1284.5
40°	1250.2
42.5°	1212.2
45°	1168.4
47.5°	1115.1
50°	1052.3
52.5°	985.7
55°	909.6
57.5°	833.5
60°	755.5
62.5°	677.5
65°	601.3
67.5°	527.1
70°	451.0
72.5°	382.5
75°	314.0
77.5°	247.4
80°	186.5
82.5°	129.4
85°	76.1
87.5°	34.3
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	21.28	22.95	21.65	23.26	23.58	21.28	22.95	21.65	23.26	23.58
	3H	22.97	24.48	23.35	24.81	25.16	22.97	24.48	23.35	24.81	25.16
	4H	23.60	25.02	24.00	25.37	25.74	23.60	25.02	24.00	25.37	25.74
	6H	24.06	25.37	24.47	25.74	26.13	24.06	25.37	24.47	25.74	26.13
	8H	24.20	25.46	24.62	25.85	26.24	24.20	25.46	24.62	25.85	26.24
	12H	24.29	25.50	24.72	25.88	26.31	24.29	25.50	24.72	25.88	26.31
4H	2H	21.89	23.30	22.28	23.65	24.03	21.89	23.30	22.28	23.65	24.03
	3H	23.80	24.99	24.21	25.38	25.78	23.80	24.99	24.21	25.38	25.78
	4H	24.55	25.63	24.98	26.04	26.48	24.55	25.63	24.98	26.04	26.48
	6H	25.13	26.07	25.59	26.51	26.97	25.13	26.07	25.59	26.51	26.97
	8H	25.32	26.20	25.78	26.65	27.11	25.32	26.20	25.78	26.65	27.11
	12H	25.46	26.25	25.93	26.72	27.19	25.46	26.25	25.93	26.72	27.19
8H	4H	24.85	25.73	25.31	26.17	26.64	24.85	25.73	25.31	26.17	26.64
	6H	25.55	26.28	26.04	26.77	27.24	25.55	26.28	26.04	26.77	27.24
	8H	25.80	26.46	26.31	26.97	27.45	25.80	26.46	26.31	26.97	27.45
	12H	26.00	26.59	26.51	27.08	27.64	26.00	26.59	26.51	27.08	27.64
12H	4H	24.88	25.67	25.36	26.15	26.62	24.88	25.67	25.36	26.15	26.62
	6H	25.60	26.26	26.10	26.76	27.25	25.60	26.26	26.10	26.76	27.25
	8H	25.91	26.49	26.42	26.98	27.54	25.91	26.49	26.42	26.98	27.54