

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: P866273

Luminaire Tested: PRLX-2002-M-930-75L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-930-75L-L-U-S-X-X-BRSS-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

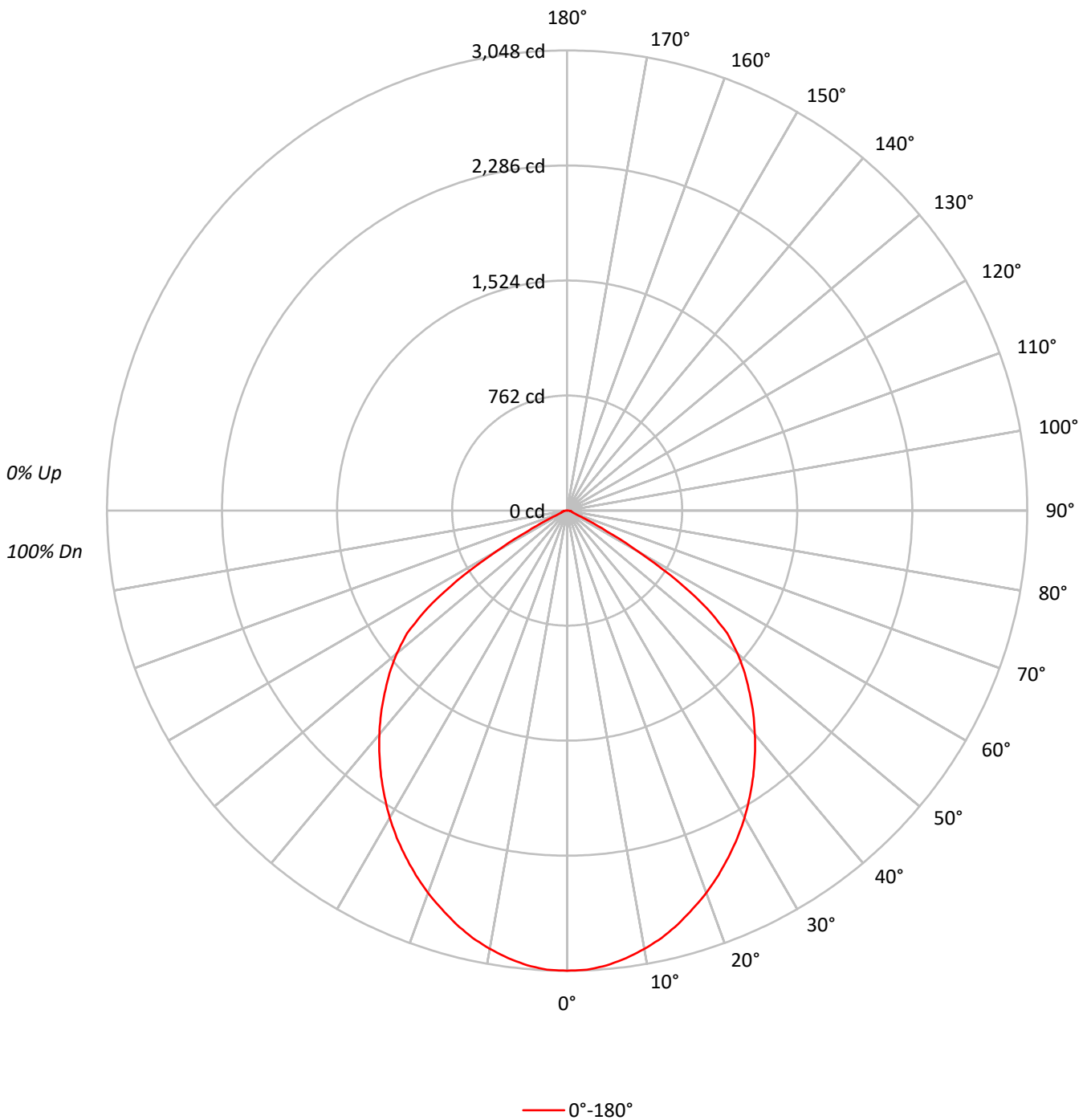
Lumens per Lamp: N/A
Luminaire Lumens: 6120.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866273

CATALOG NUMBER: PRLX-2002-M-930-75L-L-U-S-X-X-BRSS-X

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	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35
10	58	46	39	34	57	45	38	34	44	38	34	44	38	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24249
5°	24150
10°	23817
15°	23363
20°	22816
25°	22220
30°	21586
35°	20865
40°	20095
45°	19234
50°	18245
55°	15715
60°	8665
65°	2442
70°	975
75°	1042
80°	1187
85°	1461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19234 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.2	4.7
10°-20°	798.7	13.1
20°-30°	1165.5	19.0
30°-40°	1342.9	21.9
40°-50°	1318.5	21.5
50°-60°	966.9	15.8
60°-70°	189.4	3.1
70°-80°	35.8	0.6
80°-90°	16.0	0.3
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°	2250.4	36.8
0°-40°	3593.3	58.7
0°-60°	5878.7	96.1
0°-90°	6120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6120.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3048	
5°	3024	286
15°	2836	799
25°	2531	1166
35°	2148	1343
45°	1710	1318
55°	1133	967
65°	130	189
75°	34	36
85°	16	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3048.0
2.5°	3044.0
5°	3024.0
7.5°	2990.1
10°	2948.2
12.5°	2898.4
15°	2836.5
17.5°	2766.7
20°	2694.9
22.5°	2615.1
25°	2531.3
27.5°	2443.6
30°	2349.8
32.5°	2250.1
35°	2148.3
37.5°	2042.6
40°	1934.9
42.5°	1825.2
45°	1709.5
47.5°	1595.8
50°	1474.1
52.5°	1336.5
55°	1133.0
57.5°	867.7
60°	544.6
62.5°	293.2
65°	129.7
67.5°	59.8
70°	41.9
72.5°	37.9
75°	33.9
77.5°	29.9
80°	25.9
82.5°	21.9
85°	16.0
87.5°	8.0
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	20.62	22.05	20.99	22.37	22.68	20.62	22.05	20.99	22.37	22.68
	3H	20.53	21.79	20.91	22.12	22.48	20.53	21.79	20.91	22.12	22.48
	4H	20.47	21.64	20.88	21.99	22.38	20.47	21.64	20.88	21.99	22.38
	6H	20.42	21.49	20.83	21.86	22.26	20.42	21.49	20.83	21.86	22.26
	8H	20.39	21.41	20.82	21.80	22.20	20.39	21.41	20.82	21.80	22.20
	12H	20.36	21.34	20.79	21.72	22.15	20.36	21.34	20.79	21.72	22.15
4H	2H	20.48	21.65	20.89	22.00	22.39	20.48	21.65	20.89	22.00	22.39
	3H	20.40	21.34	20.81	21.75	22.15	20.40	21.34	20.81	21.75	22.15
	4H	20.34	21.18	20.78	21.60	22.04	20.34	21.18	20.78	21.60	22.04
	6H	20.30	21.02	20.76	21.47	21.93	20.30	21.02	20.76	21.47	21.93
	8H	20.26	20.94	20.73	21.38	21.85	20.26	20.94	20.73	21.38	21.85
	12H	20.24	20.84	20.72	21.32	21.79	20.24	20.84	20.72	21.32	21.79
8H	4H	20.23	20.90	20.69	21.35	21.82	20.23	20.90	20.69	21.35	21.82
	6H	20.17	20.73	20.67	21.22	21.70	20.17	20.73	20.67	21.22	21.70
	8H	20.13	20.64	20.65	21.15	21.64	20.13	20.64	20.65	21.15	21.64
	12H	20.12	20.57	20.63	21.07	21.63	20.12	20.57	20.63	21.07	21.63
12H	4H	20.18	20.79	20.67	21.27	21.74	20.18	20.79	20.67	21.27	21.74
	6H	20.11	20.62	20.63	21.13	21.62	20.11	20.62	20.63	21.13	21.62
	8H	20.10	20.55	20.61	21.05	21.61	20.10	20.55	20.61	21.05	21.61