

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: P866901

Luminaire Tested: PRLX-2001-L-940-67L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-940-67L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

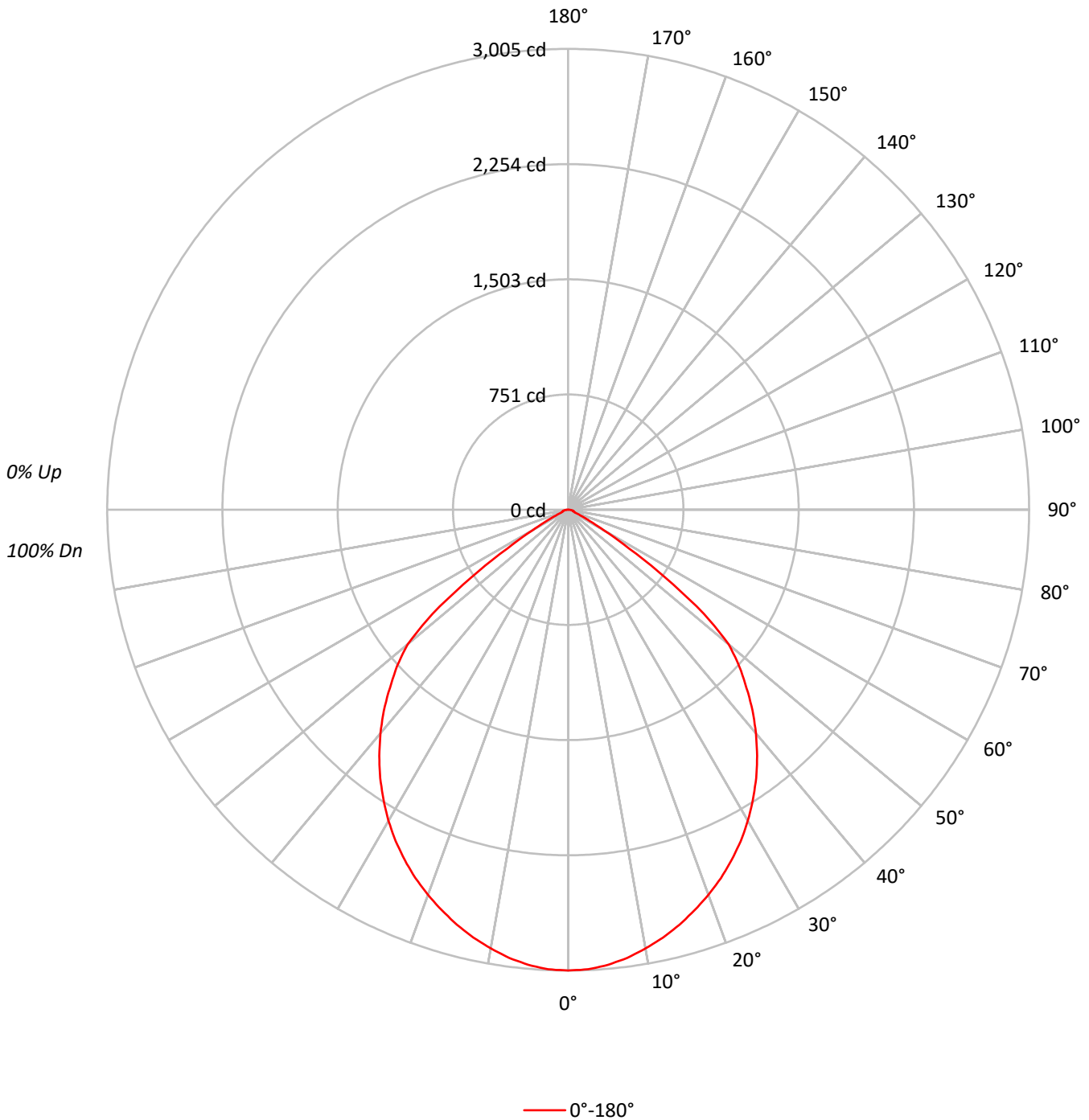
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5695.6 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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

TEST NUMBER: P866901
CATALOG NUMBER: PRLX-2001-L-940-67L-L-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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16427
5°	16348
10°	16125
15°	15853
20°	15550
25°	15205
30°	14786
35°	14252
40°	13585
45°	12711
50°	11619
55°	7373
60°	2925
65°	1119
70°	676
75°	739
80°	831
85°	922

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12711 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.0	5.0
10°-20°	789.4	13.9
20°-30°	1160.3	20.4
30°-40°	1333.2	23.4
40°-50°	1266.7	22.2
50°-60°	702.3	12.3
60°-70°	109.6	1.9
70°-80°	36.8	0.6
80°-90°	15.3	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°	2231.7	39.2
0°-40°	3564.9	62.6
0°-60°	5533.9	97.2
0°-90°	5695.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5695.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3005	
5°	2979	282
15°	2801	789
25°	2521	1160
35°	2136	1333
45°	1644	1267
55°	774	702
65°	86	110
75°	35	37
85°	15	15
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3004.8
2.5°	2999.9
5°	2979.0
7.5°	2947.8
10°	2904.8
12.5°	2857.6
15°	2801.1
17.5°	2739.2
20°	2672.9
22.5°	2601.1
25°	2520.8
27.5°	2436.1
30°	2342.3
32.5°	2241.6
35°	2135.5
37.5°	2023.2
40°	1903.6
42.5°	1779.1
45°	1644.1
47.5°	1513.4
50°	1366.2
52.5°	1115.3
55°	773.6
57.5°	470.5
60°	267.5
62.5°	158.9
65°	86.5
67.5°	47.2
70°	42.3
72.5°	38.6
75°	35.0
77.5°	31.3
80°	26.4
82.5°	20.9
85°	14.7
87.5°	7.4
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	15.35	16.73	15.72	17.04	17.36	15.35	16.73	15.72	17.04	17.36
	3H	15.29	16.50	15.67	16.83	17.19	15.29	16.50	15.67	16.83	17.19
	4H	15.27	16.39	15.67	16.74	17.12	15.27	16.39	15.67	16.74	17.12
	6H	15.25	16.28	15.67	16.65	17.05	15.25	16.28	15.67	16.65	17.05
	8H	15.24	16.22	15.67	16.61	17.01	15.24	16.22	15.67	16.61	17.01
	12H	15.23	16.16	15.66	16.55	16.98	15.23	16.16	15.66	16.55	16.98
4H	2H	15.22	16.34	15.62	16.69	17.08	15.22	16.34	15.62	16.69	17.08
	3H	15.19	16.09	15.60	16.50	16.90	15.19	16.09	15.60	16.50	16.90
	4H	15.18	15.99	15.62	16.40	16.85	15.18	15.99	15.62	16.40	16.85
	6H	15.21	15.90	15.67	16.35	16.81	15.21	15.90	15.67	16.35	16.81
	8H	15.21	15.85	15.67	16.30	16.77	15.21	15.85	15.67	16.30	16.77
	12H	15.21	15.79	15.70	16.27	16.74	15.21	15.79	15.70	16.27	16.74
8H	4H	15.09	15.74	15.56	16.19	16.66	15.09	15.74	15.56	16.19	16.66
	6H	15.13	15.67	15.63	16.16	16.64	15.13	15.67	15.63	16.16	16.64
	8H	15.15	15.64	15.67	16.15	16.64	15.15	15.64	15.67	16.15	16.64
	12H	15.19	15.63	15.70	16.12	16.69	15.19	15.63	15.70	16.12	16.69
12H	4H	15.05	15.63	15.54	16.11	16.58	15.05	15.63	15.54	16.11	16.58
	6H	15.09	15.57	15.61	16.09	16.58	15.09	15.57	15.61	16.09	16.58
	8H	15.14	15.58	15.65	16.07	16.64	15.14	15.58	15.65	16.07	16.64