

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: P865421

Luminaire Tested: PRLX-2001-S-927-10L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-927-10L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

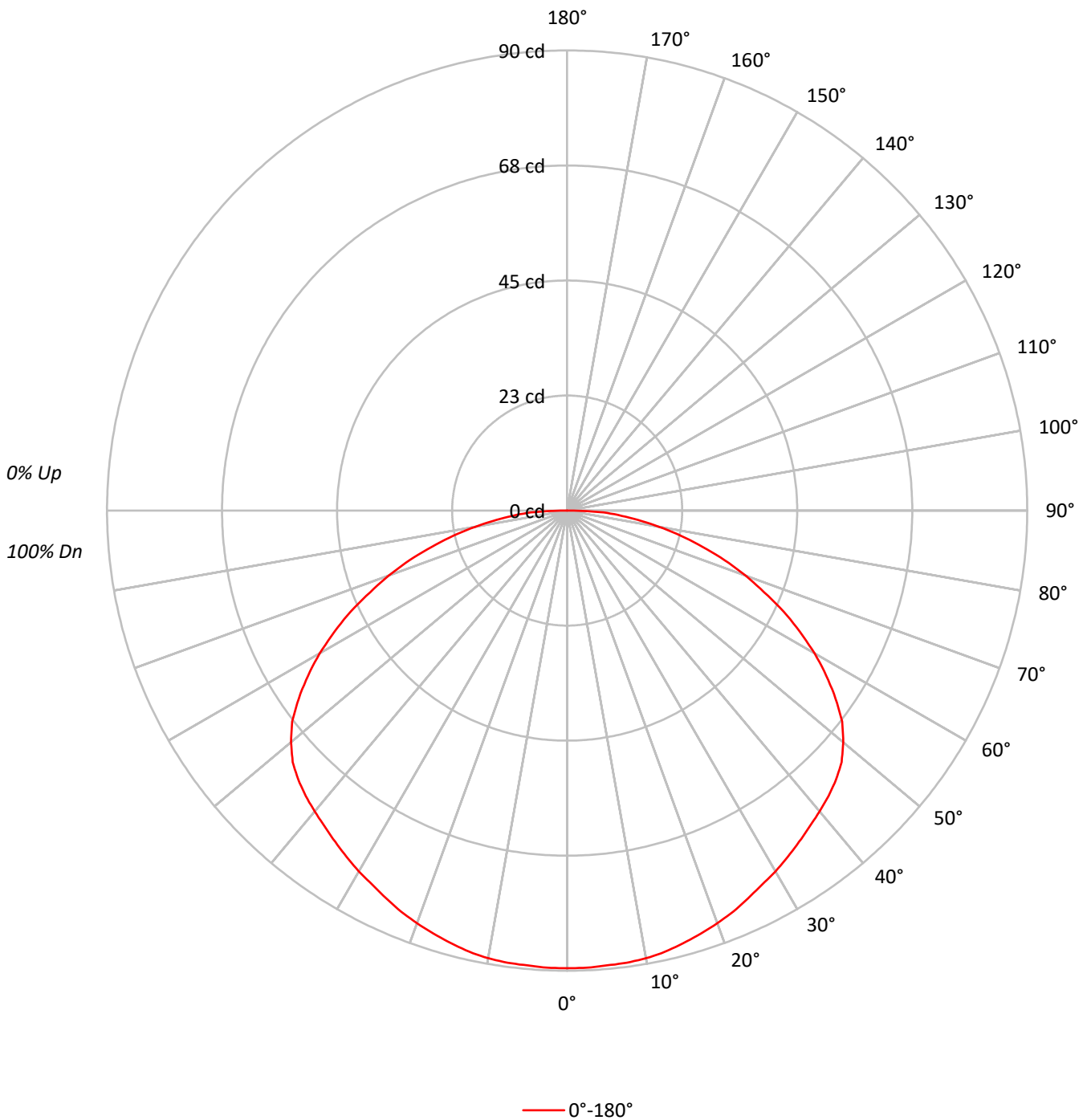
Lumens per Lamp: N/A
Luminaire Lumens: 321.9 lumens
Efficiency: N/A
Efficacy: 30.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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: 0.5 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	107	102	97	93	105	100	95	91	95	92	89	91	89	86	88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71	79	74	70	76	72	68	66
3	88	76	67	60	85	75	66	60	72	64	59	69	63	58	66	61	57	54
4	80	67	57	50	77	66	57	50	63	55	49	61	54	48	58	53	48	45
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	36	48	41	36	47	41	36	33
7	62	48	39	32	60	47	38	32	45	38	32	44	37	31	43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28	40	33	28	39	33	28	26
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25	23
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1460
5°	1462
10°	1472
15°	1479
20°	1491
25°	1506
30°	1535
35°	1575
40°	1635
45°	1716
50°	1789
55°	1823
60°	1823
65°	1802
70°	1769
75°	1727
80°	1709
85°	1871

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 2393 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	2.6
10°-20°	24.8	7.7
20°-30°	38.7	12.0
30°-40°	49.6	15.4
40°-50°	57.4	17.8
50°-60°	57.1	17.7
60°-70°	46.1	14.3
70°-80°	29.1	9.0
80°-90°	10.7	3.3
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°	72.0	22.4
0°-40°	121.6	37.8
0°-60°	236.1	73.3
0°-90°	321.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	321.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	90	
5°	89	9
15°	88	25
25°	84	39
35°	79	50
45°	74	57
55°	64	57
65°	47	46
75°	27	29
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	89.5
2.5°	89.5
5°	89.3
7.5°	89.2
10°	88.9
12.5°	88.4
15°	87.6
17.5°	86.8
20°	85.9
22.5°	84.9
25°	83.7
27.5°	82.5
30°	81.5
32.5°	80.3
35°	79.1
37.5°	77.9
40°	76.8
42.5°	75.7
45°	74.4
47.5°	72.8
50°	70.5
52.5°	67.8
55°	64.1
57.5°	60.1
60°	55.9
62.5°	51.3
65°	46.7
67.5°	41.7
70°	37.1
72.5°	32.3
75°	27.4
77.5°	22.8
80°	18.2
82.5°	13.9
85°	10.0
87.5°	6.4
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	14.57	16.30	14.93	16.61	16.93	14.57	16.30	14.93	16.61	16.93
	3H	16.58	18.15	16.95	18.48	18.84	16.58	18.15	16.95	18.48	18.84
	4H	17.39	18.88	17.78	19.23	19.60	17.39	18.88	17.78	19.23	19.60
	6H	18.06	19.45	18.47	19.81	20.20	18.06	19.45	18.47	19.81	20.20
	8H	18.32	19.65	18.74	20.04	20.43	18.32	19.65	18.74	20.04	20.43
	12H	18.54	19.82	18.97	20.20	20.63	18.54	19.82	18.97	20.20	20.63
4H	2H	15.27	16.77	15.67	17.11	17.48	15.27	16.77	15.67	17.11	17.48
	3H	17.51	18.78	17.92	19.17	19.57	17.51	18.78	17.92	19.17	19.57
	4H	18.47	19.62	18.90	20.03	20.46	18.47	19.62	18.90	20.03	20.46
	6H	19.29	20.30	19.74	20.74	21.19	19.29	20.30	19.74	20.74	21.19
	8H	19.62	20.57	20.07	21.01	21.47	19.62	20.57	20.07	21.01	21.47
	12H	19.91	20.77	20.39	21.24	21.71	19.91	20.77	20.39	21.24	21.71
8H	4H	18.86	19.81	19.32	20.25	20.72	18.86	19.81	19.32	20.25	20.72
	6H	19.84	20.64	20.33	21.12	21.59	19.84	20.64	20.33	21.12	21.59
	8H	20.27	20.99	20.77	21.49	21.97	20.27	20.99	20.77	21.49	21.97
	12H	20.68	21.32	21.19	21.81	22.37	20.68	21.32	21.19	21.81	22.37
12H	4H	18.92	19.79	19.40	20.26	20.72	18.92	19.79	19.40	20.26	20.72
	6H	19.94	20.66	20.44	21.16	21.64	19.94	20.66	20.44	21.16	21.64
	8H	20.45	21.08	20.95	21.57	22.13	20.45	21.08	20.95	21.57	22.13