

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: P865593

Luminaire Tested: PRLX-2002-S-927-15L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-927-15L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

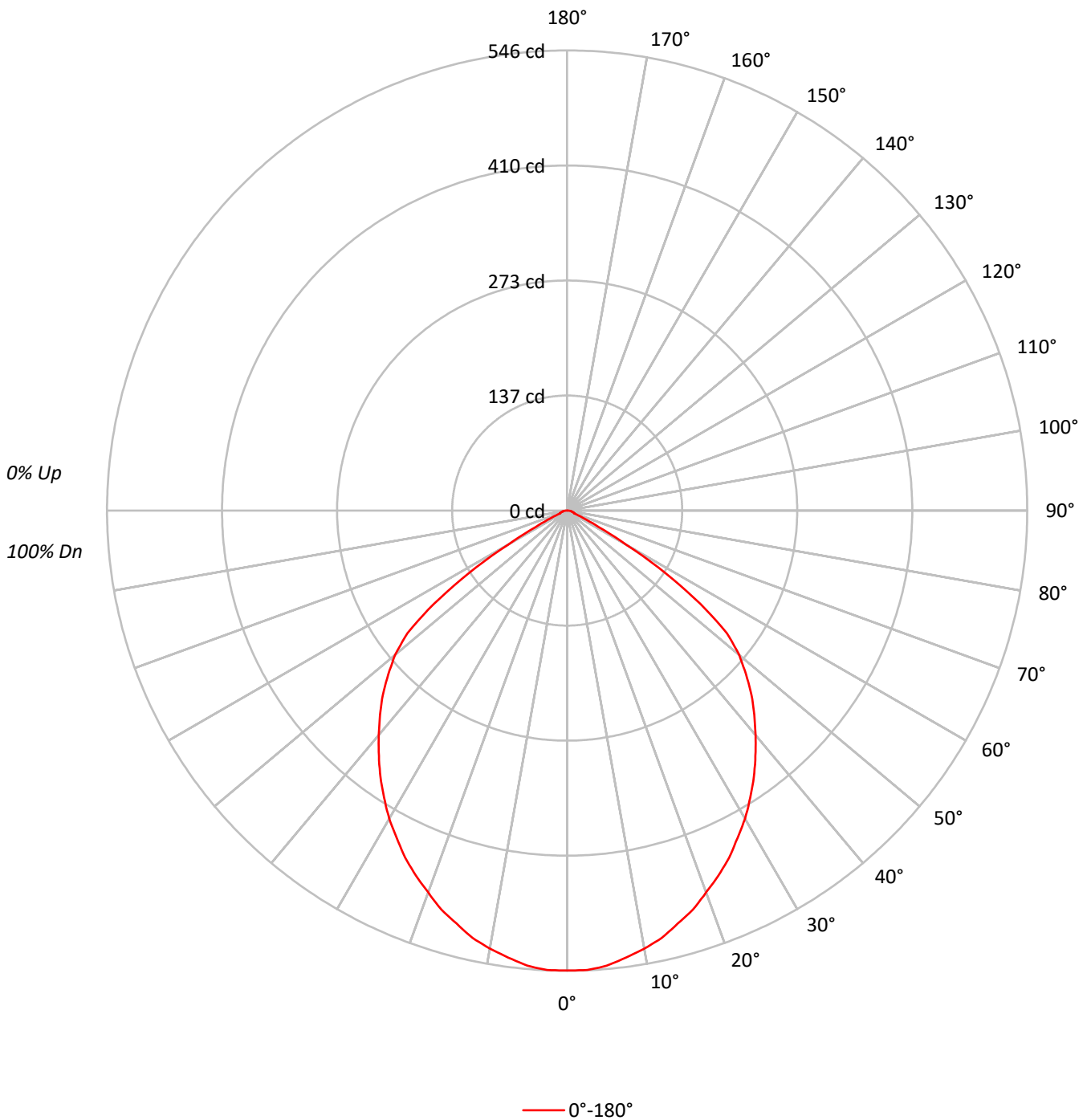
Lumens per Lamp: N/A
Luminaire Lumens: 1087.2 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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: P865593

CATALOG NUMBER: PRLX-2002-S-927-15L-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	102	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	37	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10251
5°	10222
10°	10065
15°	9865
20°	9637
25°	9422
30°	9158
35°	8856
40°	8528
45°	8219
50°	7782
55°	6324
60°	3021
65°	960
70°	461
75°	523
80°	519
85°	776

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8219 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	4.7
10°-20°	143.1	13.2
20°-30°	209.0	19.2
30°-40°	241.3	22.2
40°-50°	237.8	21.9
50°-60°	165.3	15.2
60°-70°	28.7	2.6
70°-80°	7.4	0.7
80°-90°	3.3	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°	403.3	37.1
0°-40°	644.6	59.3
0°-60°	1047.8	96.4
0°-90°	1087.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1087.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	546	
5°	542	51
15°	507	143
25°	455	209
35°	386	241
45°	309	238
55°	193	165
65°	22	29
75°	7	7
85°	4	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	545.7
2.5°	545.7
5°	542.1
7.5°	534.9
10°	527.7
12.5°	519.3
15°	507.3
17.5°	496.5
20°	482.1
22.5°	468.9
25°	454.6
27.5°	437.8
30°	422.2
32.5°	404.2
35°	386.2
37.5°	367.0
40°	347.8
42.5°	328.6
45°	309.4
47.5°	287.8
50°	266.3
52.5°	238.7
55°	193.1
57.5°	139.1
60°	80.4
62.5°	42.0
65°	21.6
67.5°	9.6
70°	8.4
72.5°	8.4
75°	7.2
77.5°	6.0
80°	4.8
82.5°	4.8
85°	3.6
87.5°	1.2
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	16.87	18.29	17.24	18.61	18.92	16.87	18.29	17.24	18.61	18.92
	3H	16.78	18.03	17.16	18.36	18.73	16.78	18.03	17.16	18.36	18.73
	4H	16.74	17.90	17.14	18.25	18.63	16.74	17.90	17.14	18.25	18.63
	6H	16.69	17.76	17.11	18.13	18.52	16.69	17.76	17.11	18.13	18.52
	8H	16.67	17.68	17.10	18.07	18.48	16.67	17.68	17.10	18.07	18.48
	12H	16.65	17.62	17.08	18.00	18.43	16.65	17.62	17.08	18.00	18.43
4H	2H	16.74	17.90	17.14	18.25	18.63	16.74	17.90	17.14	18.25	18.63
	3H	16.66	17.60	17.07	18.00	18.40	16.66	17.60	17.07	18.00	18.40
	4H	16.62	17.45	17.05	17.87	18.31	16.62	17.45	17.05	17.87	18.31
	6H	16.59	17.31	17.05	17.75	18.22	16.59	17.31	17.05	17.75	18.22
	8H	16.56	17.24	17.03	17.68	18.15	16.56	17.24	17.03	17.68	18.15
	12H	16.56	17.15	17.04	17.63	18.11	16.56	17.15	17.04	17.63	18.11
8H	4H	16.51	17.18	16.98	17.63	18.10	16.51	17.18	16.98	17.63	18.10
	6H	16.47	17.03	16.97	17.52	18.00	16.47	17.03	16.97	17.52	18.00
	8H	16.46	16.96	16.97	17.47	17.96	16.46	16.96	16.97	17.47	17.96
	12H	16.47	16.92	16.98	17.42	17.98	16.47	16.92	16.98	17.42	17.98
12H	4H	16.47	17.07	16.95	17.55	18.02	16.47	17.07	16.95	17.55	18.02
	6H	16.42	16.92	16.94	17.43	17.93	16.42	16.92	16.94	17.43	17.93
	8H	16.43	16.88	16.94	17.38	17.94	16.43	16.88	16.94	17.38	17.94