

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: P865633

Luminaire Tested: PRLX-2002-S-930-15L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865633
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-930-15L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

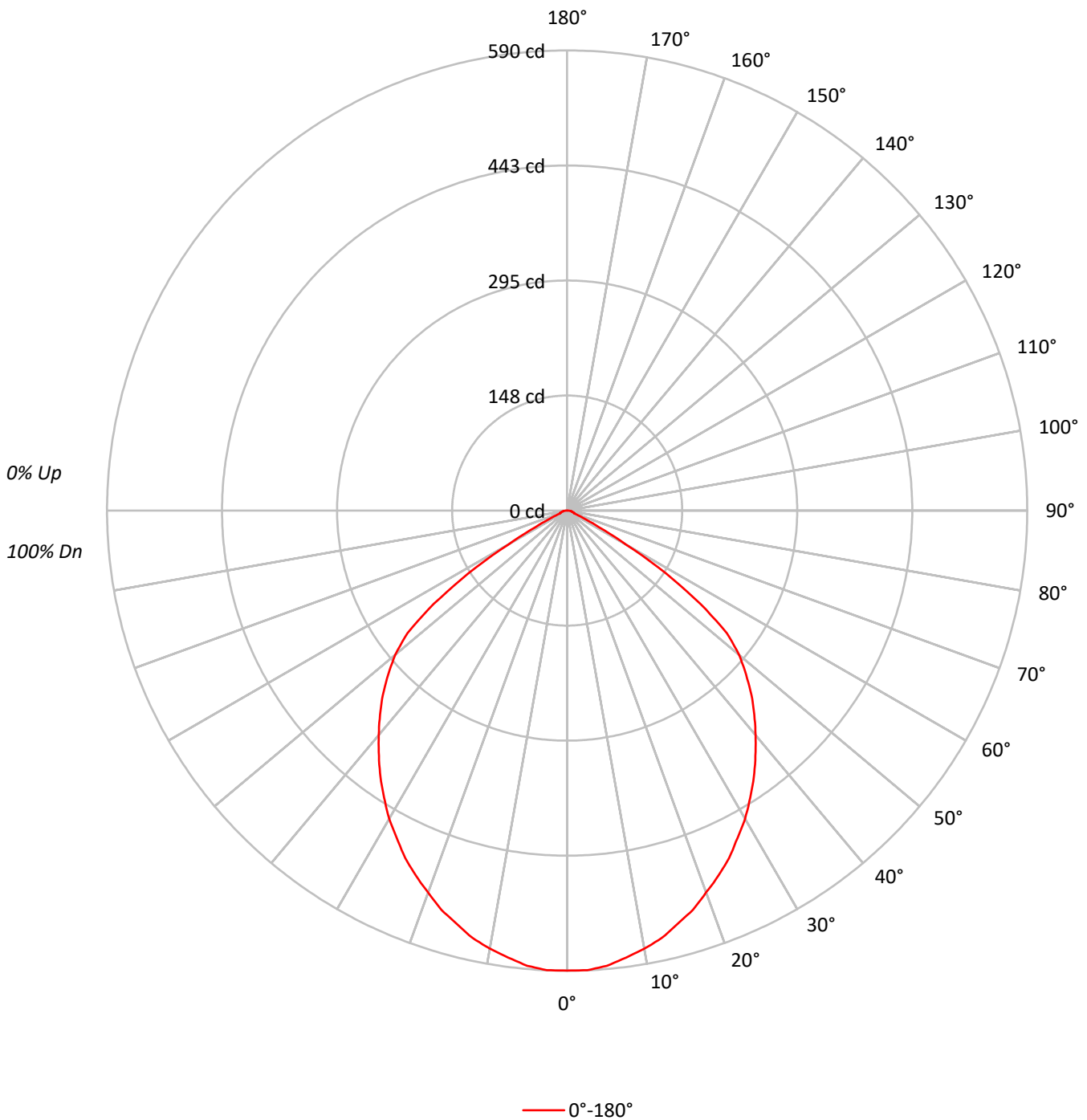
Lumens per Lamp: N/A
Luminaire Lumens: 1175.1 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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: P865633

CATALOG NUMBER: PRLX-2002-S-930-15L-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°	11079
5°	11048
10°	10878
15°	10663
20°	10417
25°	10183
30°	9897
35°	9572
40°	9218
45°	8883
50°	8410
55°	6835
60°	3261
65°	1036
70°	500
75°	566
80°	563
85°	841

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8883 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	4.7
10°-20°	154.6	13.2
20°-30°	225.9	19.2
30°-40°	260.8	22.2
40°-50°	257.1	21.9
50°-60°	178.7	15.2
60°-70°	31.1	2.6
70°-80°	8.1	0.7
80°-90°	3.5	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°	435.9	37.1
0°-40°	696.7	59.3
0°-60°	1132.4	96.4
0°-90°	1175.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1175.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	590	
5°	586	55
15°	548	155
25°	491	226
35°	417	261
45°	334	257
55°	209	179
65°	23	31
75°	8	8
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	589.8
2.5°	589.8
5°	585.9
7.5°	578.1
10°	570.3
12.5°	561.3
15°	548.3
17.5°	536.6
20°	521.1
22.5°	506.8
25°	491.3
27.5°	473.1
30°	456.3
32.5°	436.8
35°	417.4
37.5°	396.6
40°	375.9
42.5°	355.2
45°	334.4
47.5°	311.1
50°	287.8
52.5°	258.0
55°	208.7
57.5°	150.4
60°	86.8
62.5°	45.4
65°	23.3
67.5°	10.4
70°	9.1
72.5°	9.1
75°	7.8
77.5°	6.5
80°	5.2
82.5°	5.2
85°	3.9
87.5°	1.3
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	17.15	18.57	17.51	18.88	19.20	17.15	18.57	17.51	18.88	19.20
	3H	17.06	18.31	17.43	18.64	19.00	17.06	18.31	17.43	18.64	19.00
	4H	17.01	18.18	17.41	18.53	18.91	17.01	18.18	17.41	18.53	18.91
	6H	16.97	18.03	17.38	18.40	18.79	16.97	18.03	17.38	18.40	18.79
	8H	16.94	17.95	17.37	18.34	18.75	16.94	17.95	17.37	18.34	18.75
	12H	16.92	17.89	17.36	18.27	18.70	16.92	17.89	17.36	18.27	18.70
4H	2H	17.01	18.17	17.41	18.52	18.90	17.01	18.17	17.41	18.52	18.90
	3H	16.93	17.87	17.35	18.27	18.68	16.93	17.87	17.35	18.27	18.68
	4H	16.89	17.72	17.33	18.14	18.59	16.89	17.72	17.33	18.14	18.59
	6H	16.86	17.58	17.32	18.02	18.49	16.86	17.58	17.32	18.02	18.49
	8H	16.84	17.51	17.30	17.96	18.43	16.84	17.51	17.30	17.96	18.43
	12H	16.83	17.43	17.31	17.91	18.38	16.83	17.43	17.31	17.91	18.38
8H	4H	16.78	17.46	17.25	17.90	18.37	16.78	17.46	17.25	17.90	18.37
	6H	16.74	17.30	17.24	17.79	18.27	16.74	17.30	17.24	17.79	18.27
	8H	16.73	17.23	17.25	17.75	18.24	16.73	17.23	17.25	17.75	18.24
	12H	16.74	17.20	17.25	17.69	18.26	16.74	17.20	17.25	17.69	18.26
12H	4H	16.74	17.34	17.23	17.82	18.29	16.74	17.34	17.23	17.82	18.29
	6H	16.69	17.19	17.21	17.71	18.20	16.69	17.19	17.21	17.71	18.20
	8H	16.70	17.16	17.21	17.65	18.22	16.70	17.16	17.21	17.65	18.22