

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: P867005

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-930-15L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

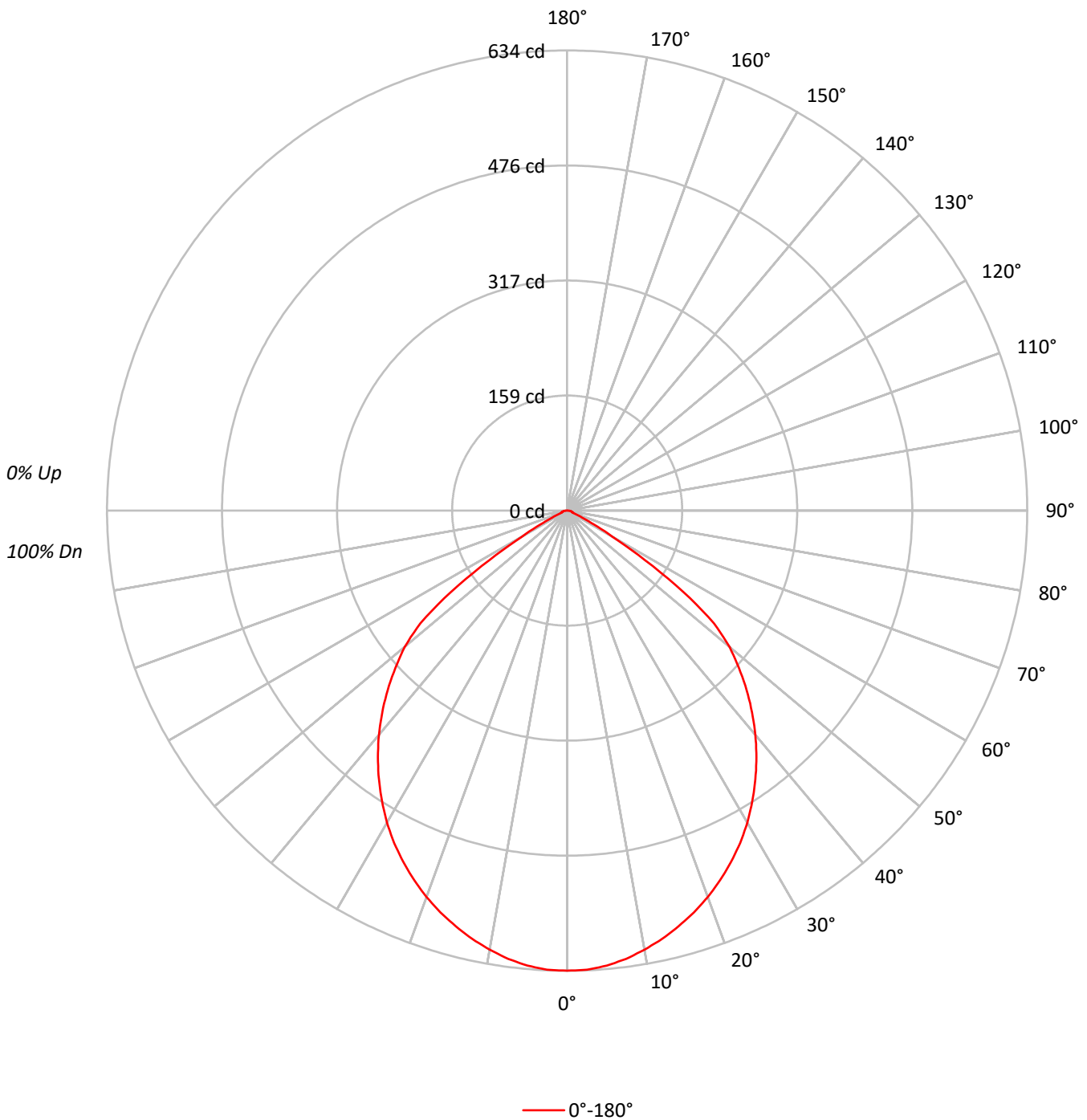
Lumens per Lamp: N/A
Luminaire Lumens: 1230.8 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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: 0.5 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90				90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	96	88	81	76	94	86	80	75	83	78	74	81	77	73	78	75	72	70				70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62				62
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	60	57	55				55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49				49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44				44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	46	39	35	46	39	35	45	39	35	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3128
5°	3116
10°	3077
15°	3029
20°	2974
25°	2908
30°	2828
35°	2724
40°	2599
45°	2441
50°	2243
55°	1687
60°	710
65°	262
70°	120
75°	132
80°	151
85°	175

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2441 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	4.8
10°-20°	167.1	13.6
20°-30°	245.9	20.0
30°-40°	282.4	22.9
40°-50°	269.0	21.9
50°-60°	168.5	13.7
60°-70°	27.9	2.3
70°-80°	7.3	0.6
80°-90°	3.2	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°	472.6	38.4
0°-40°	755.0	61.3
0°-60°	1192.5	96.9
0°-90°	1230.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1230.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	634	
5°	629	60
15°	593	167
25°	534	246
35°	452	282
45°	350	269
55°	196	168
65°	22	28
75°	7	7
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	633.9
2.5°	633.3
5°	629.2
7.5°	622.9
10°	614.2
12.5°	604.5
15°	593.0
17.5°	580.5
20°	566.5
22.5°	551.0
25°	534.2
27.5°	516.3
30°	496.4
32.5°	474.7
35°	452.2
37.5°	428.4
40°	403.5
42.5°	377.1
45°	349.8
47.5°	320.8
50°	292.2
52.5°	255.2
55°	196.1
57.5°	126.7
60°	72.0
62.5°	40.8
65°	22.4
67.5°	10.6
70°	8.3
72.5°	7.7
75°	6.9
77.5°	6.1
80°	5.3
82.5°	4.3
85°	3.1
87.5°	1.6
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	11.18	12.57	11.54	12.89	13.20	11.18	12.57	11.54	12.89	13.20
	3H	11.09	12.32	11.47	12.65	13.01	11.09	12.32	11.47	12.65	13.01
	4H	11.05	12.19	11.45	12.54	12.92	11.05	12.19	11.45	12.54	12.92
	6H	11.01	12.05	11.43	12.42	12.82	11.01	12.05	11.43	12.42	12.82
	8H	10.99	11.98	11.42	12.37	12.77	10.99	11.98	11.42	12.37	12.77
	12H	10.97	11.91	11.40	12.29	12.72	10.97	11.91	11.40	12.29	12.72
4H	2H	11.05	12.19	11.45	12.54	12.92	11.05	12.19	11.45	12.54	12.92
	3H	10.98	11.90	11.39	12.30	12.70	10.98	11.90	11.39	12.30	12.70
	4H	10.94	11.75	11.37	12.17	12.62	10.94	11.75	11.37	12.17	12.62
	6H	10.92	11.62	11.38	12.07	12.53	10.92	11.62	11.38	12.07	12.53
	8H	10.90	11.55	11.37	12.00	12.47	10.90	11.55	11.37	12.00	12.47
	12H	10.88	11.47	11.37	11.95	12.42	10.88	11.47	11.37	11.95	12.42
8H	4H	10.83	11.49	11.30	11.93	12.40	10.83	11.49	11.30	11.93	12.40
	6H	10.81	11.35	11.31	11.85	12.33	10.81	11.35	11.31	11.85	12.33
	8H	10.79	11.29	11.31	11.80	12.29	10.79	11.29	11.31	11.80	12.29
	12H	10.80	11.24	11.32	11.74	12.31	10.80	11.24	11.32	11.74	12.31
12H	4H	10.79	11.37	11.28	11.85	12.33	10.79	11.37	11.28	11.85	12.33
	6H	10.76	11.25	11.28	11.76	12.25	10.76	11.25	11.28	11.76	12.25
	8H	10.77	11.21	11.28	11.70	12.27	10.77	11.21	11.28	11.70	12.27