

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: P867093

Luminaire Tested: PRLX-2002-L-935-67L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867093
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: Pentalux
Catalog Number: PRLX-2002-L-935-67L-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 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

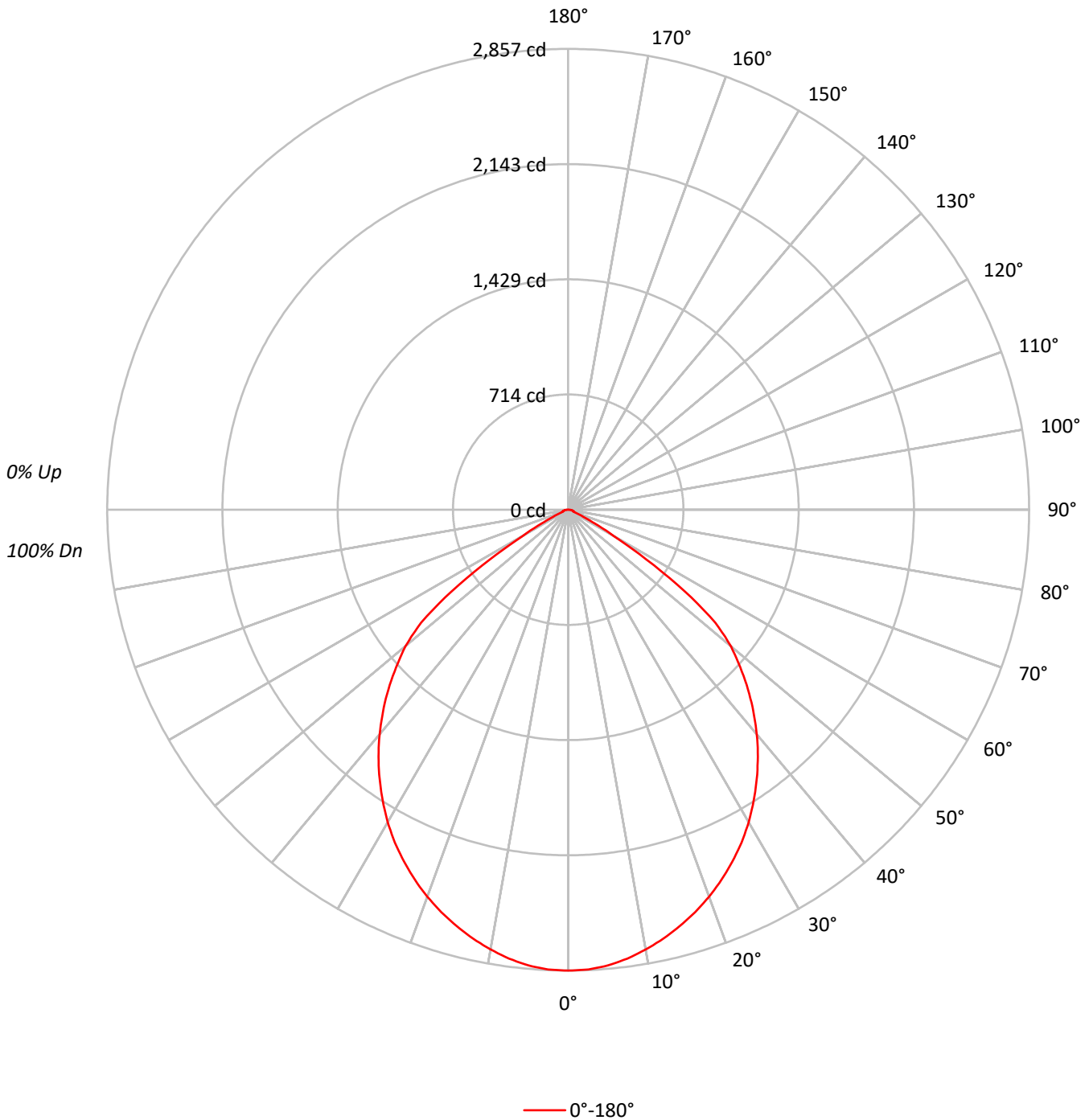
Lumens per Lamp: N/A
Luminaire Lumens: 5547.1 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14096
5°	14045
10°	13869
15°	13651
20°	13406
25°	13106
30°	12745
35°	12274
40°	11714
45°	11001
50°	10108
55°	7602
60°	3201
65°	1180
70°	542
75°	593
80°	685
85°	798

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11001 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.5	4.8
10°-20°	753.3	13.6
20°-30°	1108.1	20.0
30°-40°	1272.7	22.9
40°-50°	1212.4	21.9
50°-60°	759.3	13.7
60°-70°	125.7	2.3
70°-80°	32.8	0.6
80°-90°	14.3	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°	2130.0	38.4
0°-40°	3402.7	61.3
0°-60°	5374.3	96.9
0°-90°	5547.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5547.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2857	
5°	2836	269
15°	2673	753
25°	2408	1108
35°	2038	1273
45°	1577	1212
55°	884	759
65°	101	126
75°	31	33
85°	14	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2857.1
2.5°	2854.1
5°	2835.9
7.5°	2807.1
10°	2768.4
12.5°	2724.3
15°	2672.6
17.5°	2616.2
20°	2553.3
22.5°	2483.3
25°	2407.5
27.5°	2327.0
30°	2237.1
32.5°	2139.6
35°	2037.9
37.5°	1931.0
40°	1818.7
42.5°	1699.4
45°	1576.6
47.5°	1445.6
50°	1316.9
52.5°	1150.0
55°	883.8
57.5°	571.2
60°	324.4
62.5°	183.9
65°	101.1
67.5°	47.6
70°	37.6
72.5°	34.7
75°	31.1
77.5°	27.6
80°	24.1
82.5°	19.4
85°	14.1
87.5°	7.1
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	16.41	17.81	16.78	18.12	18.43	16.41	17.81	16.78	18.12	18.43
	3H	16.33	17.55	16.71	17.88	18.25	16.33	17.55	16.71	17.88	18.25
	4H	16.28	17.42	16.69	17.77	18.16	16.28	17.42	16.69	17.77	18.16
	6H	16.24	17.29	16.66	17.66	18.05	16.24	17.29	16.66	17.66	18.05
	8H	16.22	17.21	16.65	17.60	18.01	16.22	17.21	16.65	17.60	18.01
	12H	16.20	17.14	16.63	17.53	17.96	16.20	17.14	16.63	17.53	17.96
4H	2H	16.28	17.42	16.68	17.77	18.15	16.28	17.42	16.68	17.77	18.15
	3H	16.21	17.13	16.63	17.53	17.94	16.21	17.13	16.63	17.53	17.94
	4H	16.17	16.99	16.61	17.41	17.85	16.17	16.99	16.61	17.41	17.85
	6H	16.15	16.86	16.62	17.30	17.77	16.15	16.86	16.62	17.30	17.77
	8H	16.13	16.79	16.60	17.23	17.71	16.13	16.79	16.60	17.23	17.71
	12H	16.12	16.70	16.60	17.18	17.66	16.12	16.70	16.60	17.18	17.66
8H	4H	16.06	16.72	16.53	17.17	17.64	16.06	16.72	16.53	17.17	17.64
	6H	16.04	16.58	16.54	17.08	17.56	16.04	16.58	16.54	17.08	17.56
	8H	16.03	16.52	16.55	17.04	17.53	16.03	16.52	16.55	17.04	17.53
	12H	16.04	16.48	16.55	16.97	17.54	16.04	16.48	16.55	16.97	17.54
12H	4H	16.02	16.61	16.51	17.09	17.56	16.02	16.61	16.51	17.09	17.56
	6H	15.99	16.48	16.51	17.00	17.49	15.99	16.48	16.51	17.00	17.49
	8H	16.00	16.45	16.52	16.94	17.51	16.00	16.45	16.52	16.94	17.51