

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: P867257

Luminaire Tested: PRLX-2004-L-930-133L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-930-133L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

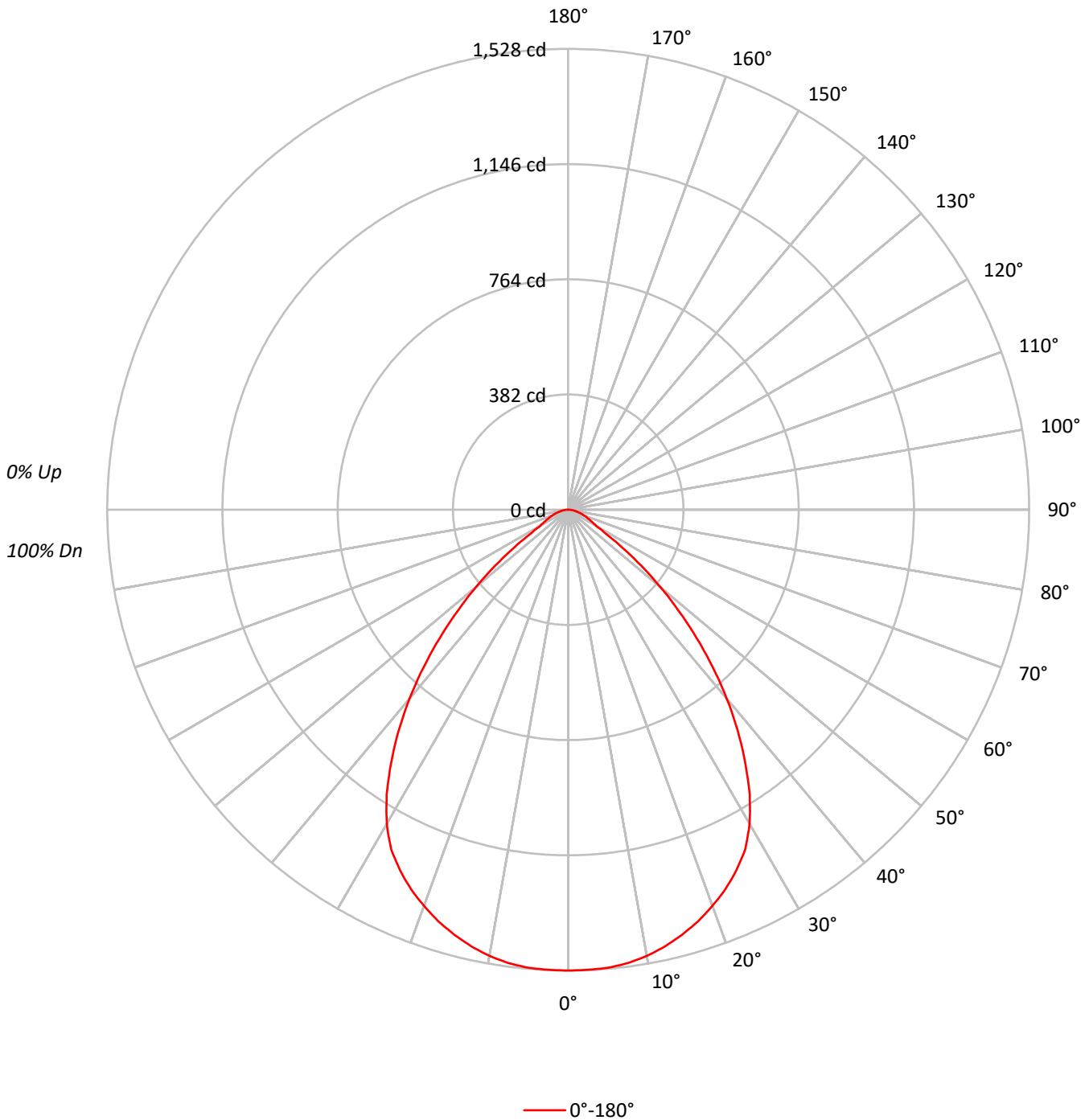
Lumens per Lamp: N/A
Luminaire Lumens: 2594.8 lumens
Efficiency: N/A
Efficacy: 23.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.17
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
Input Voltage (V): 120
Input Current (Ain): 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	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67	75	70	67	73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7539
5°	7550
10°	7528
15°	7451
20°	7339
25°	7182
30°	6852
35°	6161
40°	5266
45°	4208
50°	3054
55°	1875
60°	1058
65°	902
70°	799
75°	726
80°	656
85°	589

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4208 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	5.6
10°-20°	411.2	15.8
20°-30°	605.2	23.3
30°-40°	635.3	24.5
40°-50°	463.7	17.9
50°-60°	204.3	7.9
60°-70°	77.9	3.0
70°-80°	40.5	1.6
80°-90°	11.9	0.5
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°	1161.2	44.7
0°-40°	1796.4	69.2
0°-60°	2464.5	95.0
0°-90°	2594.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2594.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1528	
5°	1524	145
15°	1459	411
25°	1319	605
35°	1023	635
45°	603	464
55°	218	204
65°	77	78
75°	38	40
85°	10	12
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1528.0
2.5°	1526.8
5°	1524.5
7.5°	1516.4
10°	1502.6
12.5°	1483.0
15°	1458.8
17.5°	1431.1
20°	1397.7
22.5°	1361.9
25°	1319.2
27.5°	1270.8
30°	1202.8
32.5°	1119.7
35°	1022.9
37.5°	922.6
40°	817.6
42.5°	710.4
45°	603.1
47.5°	497.0
50°	397.9
52.5°	304.4
55°	218.0
57.5°	147.6
60°	107.2
62.5°	91.1
65°	77.3
67.5°	65.7
70°	55.4
72.5°	46.1
75°	38.1
77.5°	30.0
80°	23.1
82.5°	17.3
85°	10.4
87.5°	4.6
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	9.85	11.15	10.22	11.46	11.78	9.85	11.15	10.22	11.46	11.78
	3H	10.73	11.88	11.11	12.21	12.58	10.73	11.88	11.11	12.21	12.58
	4H	11.08	12.15	11.49	12.51	12.89	11.08	12.15	11.49	12.51	12.89
	6H	11.35	12.33	11.76	12.70	13.09	11.35	12.33	11.76	12.70	13.09
	8H	11.44	12.37	11.87	12.76	13.17	11.44	12.37	11.87	12.76	13.17
	12H	11.50	12.39	11.93	12.77	13.20	11.50	12.39	11.93	12.77	13.20
4H	2H	10.08	11.15	10.48	11.50	11.88	10.08	11.15	10.48	11.50	11.88
	3H	11.18	12.05	11.59	12.45	12.86	11.18	12.05	11.59	12.45	12.86
	4H	11.65	12.43	12.08	12.84	13.29	11.65	12.43	12.08	12.84	13.29
	6H	12.03	12.70	12.50	13.15	13.62	12.03	12.70	12.50	13.15	13.62
	8H	12.17	12.80	12.64	13.24	13.71	12.17	12.80	12.64	13.24	13.71
	12H	12.27	12.82	12.75	13.30	13.78	12.27	12.82	12.75	13.30	13.78
8H	4H	11.78	12.41	12.25	12.86	13.33	11.78	12.41	12.25	12.86	13.33
	6H	12.27	12.78	12.77	13.28	13.76	12.27	12.78	12.77	13.28	13.76
	8H	12.48	12.94	13.00	13.45	13.95	12.48	12.94	13.00	13.45	13.95
	12H	12.64	13.05	13.16	13.55	14.12	12.64	13.05	13.16	13.55	14.12
12H	4H	11.78	12.33	12.26	12.81	13.29	11.78	12.33	12.26	12.81	13.29
	6H	12.28	12.75	12.81	13.26	13.75	12.28	12.75	12.81	13.26	13.75
	8H	12.54	12.95	13.06	13.45	14.02	12.54	12.95	13.06	13.45	14.02