

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: P867253

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-85)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-930-133L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

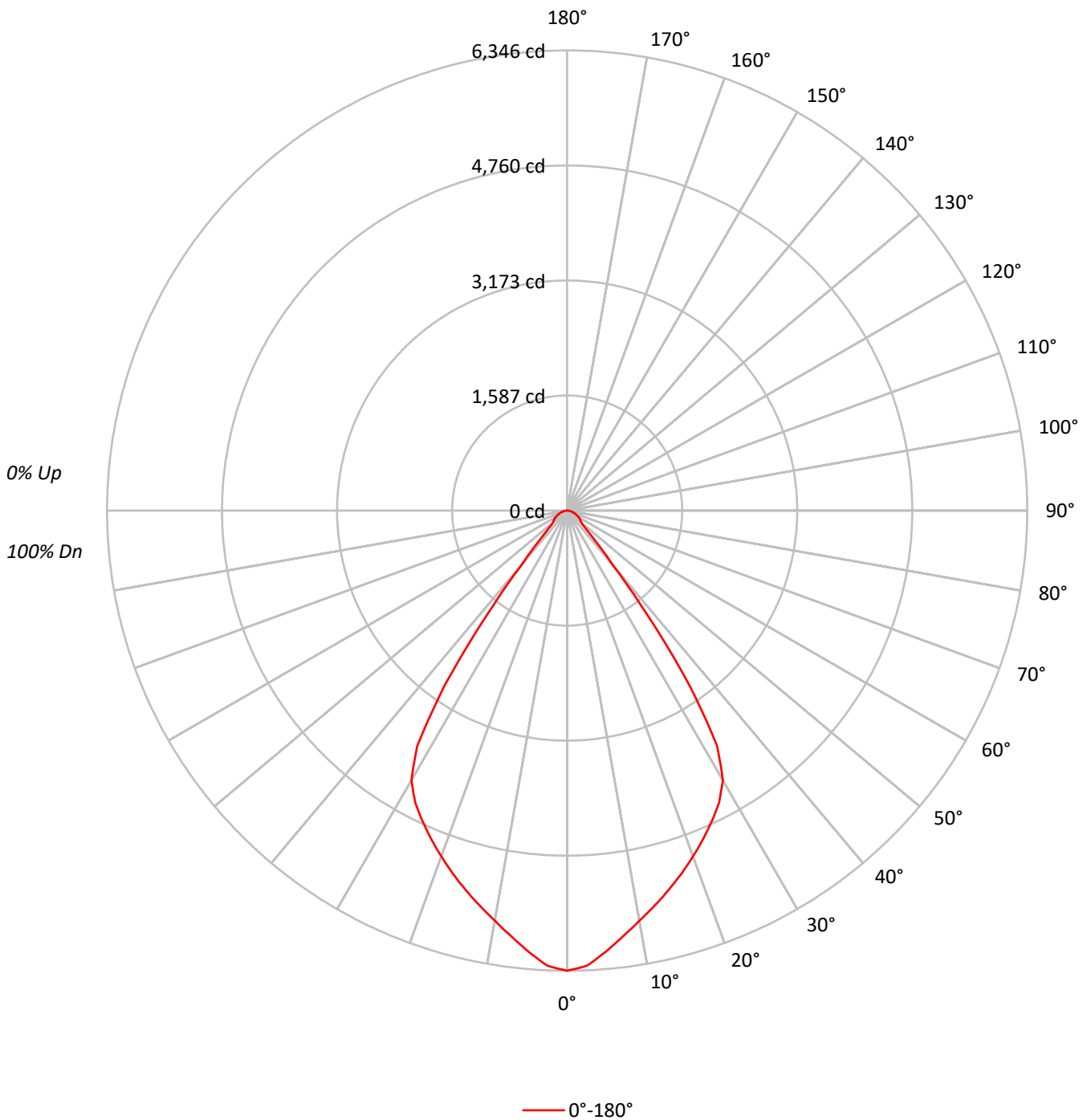
Lumens per Lamp: N/A
Luminaire Lumens: 6796.2 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 0.99
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P867253

CATALOG NUMBER: PRLX-2004-L-930-133L-L-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	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71
5	90	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61
7	80	70	64	59	79	69	63	59	68	63	58	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49
10	68	58	52	48	67	58	52	48	57	51	47	56	51	47	55	50	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31310
5°	30247
10°	28771
15°	27655
20°	26647
25°	25708
30°	24466
35°	17746
40°	6306
45°	2776
50°	1920
55°	1895
60°	1787
65°	1682
70°	1581
75°	1495
80°	1409
85°	1308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2776 cd/sqm

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CATALOG NUMBER: PRLX-2004-L-930-133L-L-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.5	8.4
10°-20°	1524.7	22.4
20°-30°	2170.6	31.9
30°-40°	1721.1	25.3
40°-50°	360.7	5.3
50°-60°	195.5	2.9
60°-70°	143.2	2.1
70°-80°	83.0	1.2
80°-90°	25.9	0.4
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°	4266.8	62.8
0°-40°	5987.9	88.1
0°-60°	6544.1	96.3
0°-90°	6796.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6796.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6346	
5°	6107	571
15°	5414	1525
25°	4722	2171
35°	2946	1721
45°	398	361
55°	220	195
65°	144	143
75°	78	83
85°	23	26
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6346.0
2.5°	6282.6
5°	6107.3
7.5°	5919.3
10°	5742.9
12.5°	5579.1
15°	5414.2
17.5°	5248.2
20°	5075.2
22.5°	4902.2
25°	4722.3
27.5°	4537.8
30°	4294.5
32.5°	3847.0
35°	2946.4
37.5°	1810.5
40°	979.1
42.5°	598.5
45°	397.9
47.5°	289.5
50°	250.2
52.5°	237.6
55°	220.3
57.5°	200.7
60°	181.1
62.5°	162.6
65°	144.1
67.5°	126.9
70°	109.6
72.5°	93.4
75°	78.4
77.5°	63.4
80°	49.6
82.5°	35.7
85°	23.1
87.5°	11.5
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	9.04	10.10	9.41	10.41	10.73	9.04	10.10	9.41	10.41	10.73
	3H	10.67	11.61	11.05	11.94	12.31	10.67	11.61	11.05	11.94	12.31
	4H	11.30	12.17	11.70	12.52	12.91	11.30	12.17	11.70	12.52	12.91
	6H	11.78	12.57	12.19	12.94	13.34	11.78	12.57	12.19	12.94	13.34
	8H	11.94	12.68	12.37	13.08	13.49	11.94	12.68	12.37	13.08	13.49
	12H	12.04	12.76	12.48	13.14	13.57	12.04	12.76	12.48	13.14	13.57
4H	2H	9.53	10.40	9.94	10.75	11.14	9.53	10.40	9.94	10.75	11.14
	3H	11.37	12.08	11.79	12.49	12.90	11.37	12.08	11.79	12.49	12.90
	4H	12.12	12.76	12.56	13.18	13.63	12.12	12.76	12.56	13.18	13.63
	6H	12.73	13.28	13.20	13.73	14.20	12.73	13.28	13.20	13.73	14.20
	8H	12.94	13.45	13.42	13.90	14.37	12.94	13.45	13.42	13.90	14.37
	12H	13.09	13.53	13.58	14.02	14.50	13.09	13.53	13.58	14.02	14.50
8H	4H	12.36	12.86	12.83	13.31	13.79	12.36	12.86	12.83	13.31	13.79
	6H	13.11	13.51	13.62	14.01	14.50	13.11	13.51	13.62	14.01	14.50
	8H	13.40	13.76	13.93	14.28	14.78	13.40	13.76	13.93	14.28	14.78
	12H	13.65	13.96	14.17	14.46	15.04	13.65	13.96	14.17	14.46	15.04
12H	4H	12.36	12.80	12.85	13.29	13.77	12.36	12.80	12.85	13.29	13.77
	6H	13.15	13.51	13.68	14.03	14.53	13.15	13.51	13.68	14.03	14.53
	8H	13.50	13.81	14.02	14.31	14.89	13.50	13.81	14.02	14.31	14.89