

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: P867189

Luminaire Tested: PRLX-2004-L-927-133L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867189
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: Prenalux
Catalog Number: PRLX-2004-L-927-133L-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

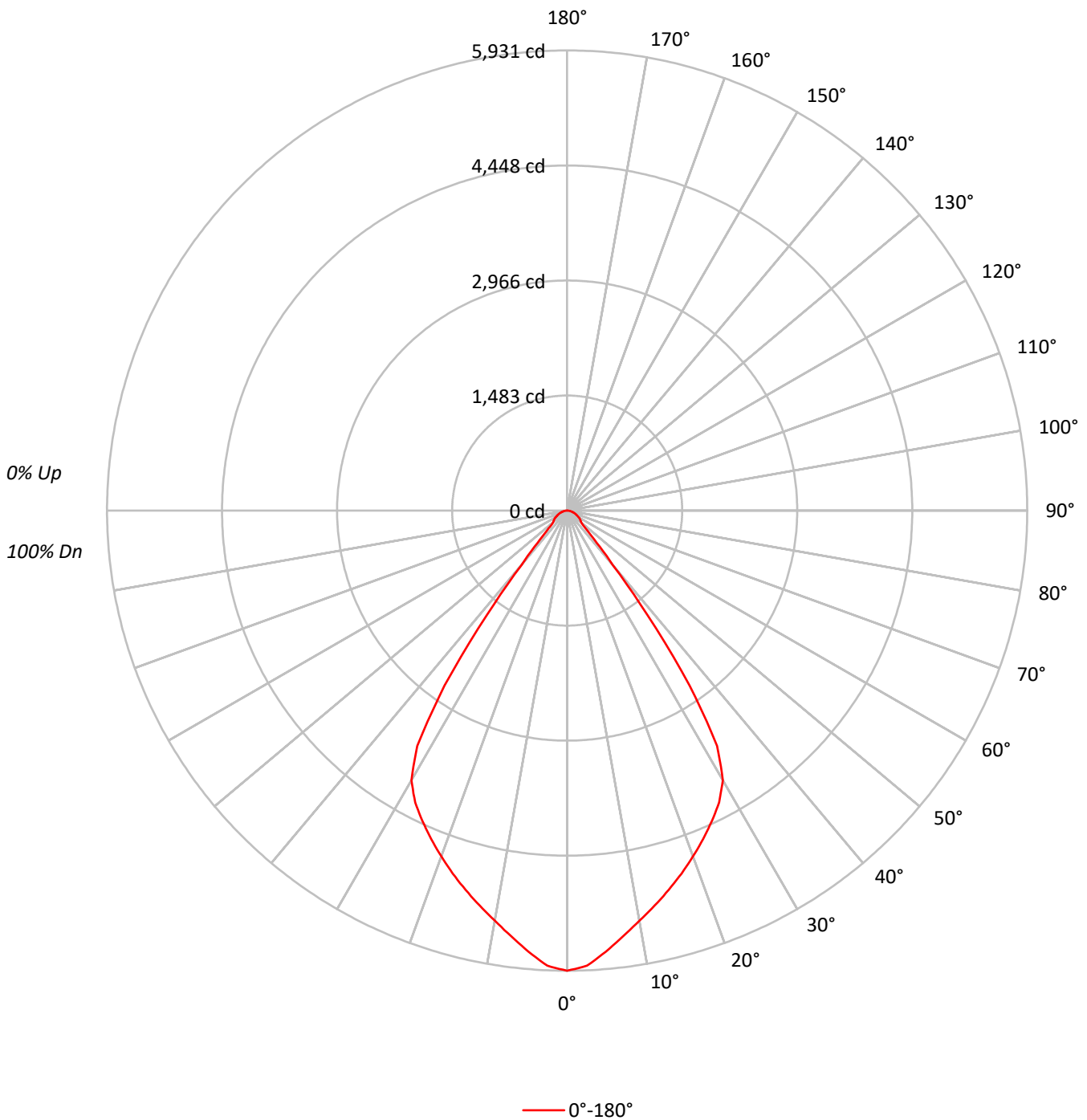
Lumens per Lamp: N/A
Luminaire Lumens: 6351.7 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 0.99
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29262
5°	28269
10°	26890
15°	25846
20°	24904
25°	24026
30°	22866
35°	16586
40°	5893
45°	2594
50°	1795
55°	1771
60°	1670
65°	1573
70°	1477
75°	1397
80°	1316
85°	1223

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2594 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.1	8.4
10°-20°	1425.0	22.4
20°-30°	2028.7	31.9
30°-40°	1608.6	25.3
40°-50°	337.1	5.3
50°-60°	182.7	2.9
60°-70°	133.9	2.1
70°-80°	77.6	1.2
80°-90°	24.2	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°	3987.7	62.8
0°-40°	5596.3	88.1
0°-60°	6116.0	96.3
0°-90°	6351.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6351.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5931	
5°	5708	534
15°	5060	1425
25°	4414	2029
35°	2754	1609
45°	372	337
55°	206	183
65°	135	134
75°	73	78
85°	22	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5931.0
2.5°	5871.7
5°	5707.9
7.5°	5532.2
10°	5367.3
12.5°	5214.3
15°	5060.1
17.5°	4904.9
20°	4743.3
22.5°	4581.6
25°	4413.5
27.5°	4241.0
30°	4013.6
32.5°	3595.5
35°	2753.7
37.5°	1692.1
40°	915.0
42.5°	559.4
45°	371.8
47.5°	270.5
50°	233.9
52.5°	222.0
55°	205.9
57.5°	187.5
60°	169.2
62.5°	152.0
65°	134.7
67.5°	118.6
70°	102.4
72.5°	87.3
75°	73.3
77.5°	59.3
80°	46.3
82.5°	33.4
85°	21.6
87.5°	10.8
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	8.80	9.86	9.17	10.17	10.49	8.80	9.86	9.17	10.17	10.49
	3H	10.44	11.37	10.82	11.70	12.07	10.44	11.37	10.82	11.70	12.07
	4H	11.06	11.93	11.47	12.28	12.67	11.06	11.93	11.47	12.28	12.67
	6H	11.54	12.33	11.96	12.71	13.10	11.54	12.33	11.96	12.71	13.10
	8H	11.70	12.45	12.14	12.84	13.25	11.70	12.45	12.14	12.84	13.25
	12H	11.81	12.52	12.24	12.91	13.34	11.81	12.52	12.24	12.91	13.34
4H	2H	9.29	10.16	9.70	10.51	10.90	9.29	10.16	9.70	10.51	10.90
	3H	11.14	11.85	11.55	12.25	12.66	11.14	11.85	11.55	12.25	12.66
	4H	11.89	12.52	12.33	12.95	13.39	11.89	12.52	12.33	12.95	13.39
	6H	12.50	13.04	12.97	13.49	13.97	12.50	13.04	12.97	13.49	13.97
	8H	12.71	13.21	13.18	13.66	14.14	12.71	13.21	13.18	13.66	14.14
	12H	12.86	13.30	13.35	13.79	14.26	12.86	13.30	13.35	13.79	14.26
8H	4H	12.12	12.63	12.60	13.08	13.55	12.12	12.63	12.60	13.08	13.55
	6H	12.87	13.28	13.38	13.78	14.26	12.87	13.28	13.38	13.78	14.26
	8H	13.17	13.53	13.70	14.05	14.54	13.17	13.53	13.70	14.05	14.54
	12H	13.41	13.72	13.93	14.22	14.80	13.41	13.72	13.93	14.22	14.80
12H	4H	12.13	12.57	12.62	13.05	13.53	12.13	12.57	12.62	13.05	13.53
	6H	12.91	13.27	13.44	13.79	14.29	12.91	13.27	13.44	13.79	14.29
	8H	13.27	13.58	13.79	14.08	14.66	13.27	13.58	13.79	14.08	14.66