

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: P867193

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867193
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: Prenalux
Catalog Number: PRLX-2004-L-927-133L-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

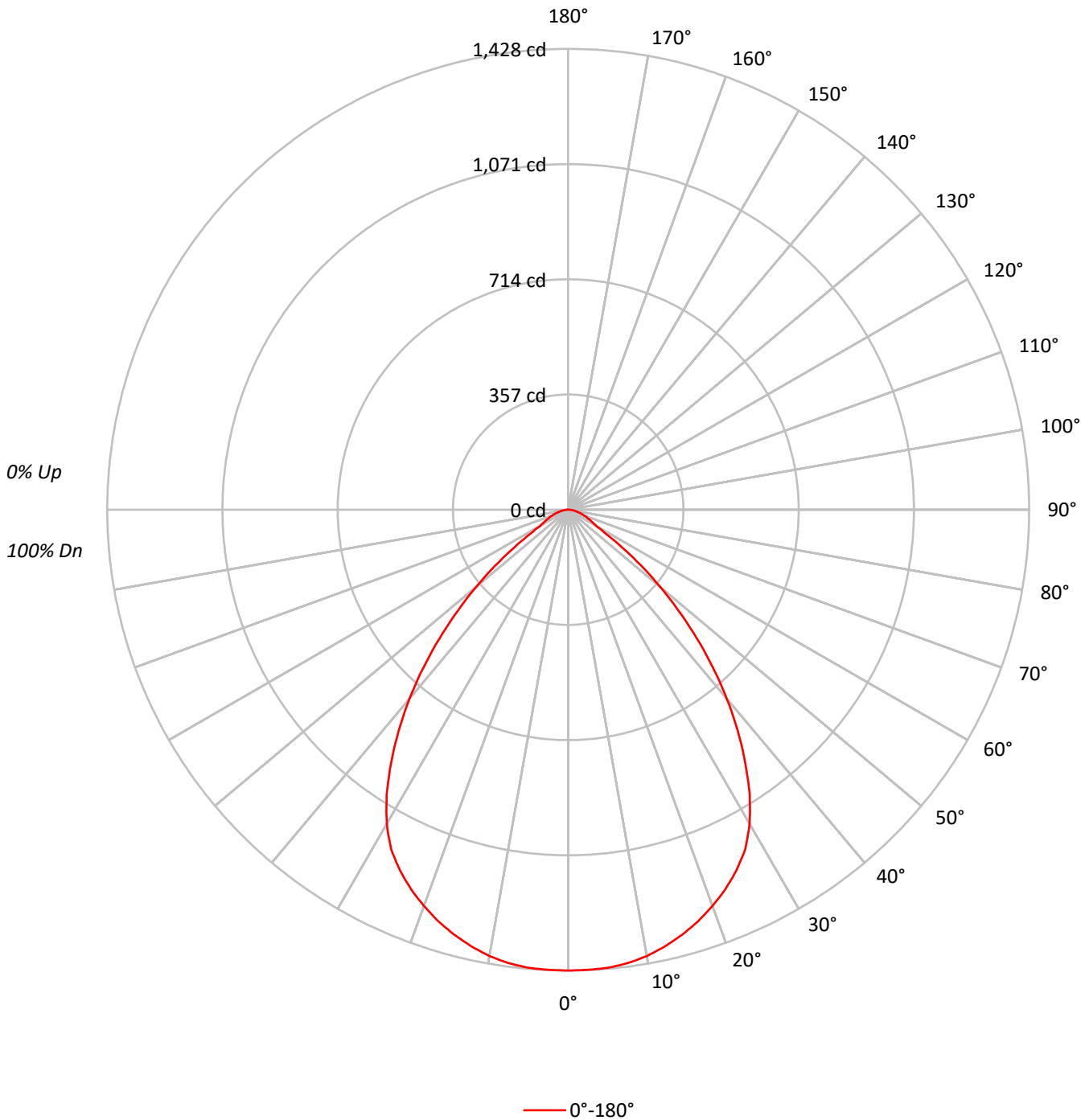
Lumens per Lamp: N/A
Luminaire Lumens: 2425.1 lumens
Efficiency: N/A
Efficacy: 21.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.17
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P867193

CATALOG NUMBER: PRLX-2004-L-927-133L-G-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	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°	7045
5°	7057
10°	7035
15°	6964
20°	6859
25°	6712
30°	6404
35°	5758
40°	4921
45°	3933
50°	2854
55°	1752
60°	989
65°	843
70°	746
75°	679
80°	614
85°	549

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3933 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	5.6
10°-20°	384.3	15.8
20°-30°	565.6	23.3
30°-40°	593.7	24.5
40°-50°	433.4	17.9
50°-60°	191.0	7.9
60°-70°	72.8	3.0
70°-80°	37.8	1.6
80°-90°	11.2	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°	1085.2	44.7
0°-40°	1678.9	69.2
0°-60°	2303.3	95.0
0°-90°	2425.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2425.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1428	
5°	1425	135
15°	1363	384
25°	1233	566
35°	956	594
45°	564	433
55°	204	191
65°	72	73
75°	36	38
85°	10	11
90°	0	

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CATALOG NUMBER: PRLX-2004-L-927-133L-G-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	1428.0
2.5°	1427.0
5°	1424.8
7.5°	1417.3
10°	1404.3
12.5°	1386.0
15°	1363.4
17.5°	1337.5
20°	1306.3
22.5°	1272.8
25°	1233.0
27.5°	1187.7
30°	1124.1
32.5°	1046.5
35°	956.0
37.5°	862.2
40°	764.1
42.5°	663.9
45°	563.7
47.5°	464.5
50°	371.8
52.5°	284.5
55°	203.7
57.5°	138.0
60°	100.2
62.5°	85.1
65°	72.2
67.5°	61.4
70°	51.7
72.5°	43.1
75°	35.6
77.5°	28.0
80°	21.6
82.5°	16.2
85°	9.7
87.5°	4.3
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	9.62	10.92	9.98	11.23	11.55	9.62	10.92	9.98	11.23	11.55
	3H	10.50	11.65	10.88	11.98	12.34	10.50	11.65	10.88	11.98	12.34
	4H	10.85	11.92	11.25	12.27	12.65	10.85	11.92	11.25	12.27	12.65
	6H	11.11	12.09	11.53	12.47	12.86	11.11	12.09	11.53	12.47	12.86
	8H	11.21	12.14	11.64	12.53	12.93	11.21	12.14	11.64	12.53	12.93
	12H	11.26	12.15	11.70	12.54	12.97	11.26	12.15	11.70	12.54	12.97
4H	2H	9.84	10.91	10.25	11.26	11.65	9.84	10.91	10.25	11.26	11.65
	3H	10.94	11.81	11.36	12.22	12.62	10.94	11.81	11.36	12.22	12.62
	4H	11.41	12.19	11.85	12.61	13.05	11.41	12.19	11.85	12.61	13.05
	6H	11.80	12.47	12.26	12.91	13.38	11.80	12.47	12.26	12.91	13.38
	8H	11.93	12.56	12.40	13.01	13.48	11.93	12.56	12.40	13.01	13.48
	12H	12.03	12.58	12.52	13.07	13.54	12.03	12.58	12.52	13.07	13.54
8H	4H	11.55	12.17	12.02	12.62	13.09	11.55	12.17	12.02	12.62	13.09
	6H	12.03	12.55	12.54	13.04	13.52	12.03	12.55	12.54	13.04	13.52
	8H	12.24	12.70	12.76	13.22	13.71	12.24	12.70	12.76	13.22	13.71
	12H	12.41	12.82	12.92	13.31	13.88	12.41	12.82	12.92	13.31	13.88
12H	4H	11.54	12.09	12.03	12.58	13.05	11.54	12.09	12.03	12.58	13.05
	6H	12.05	12.51	12.57	13.03	13.52	12.05	12.51	12.57	13.03	13.52
	8H	12.31	12.72	12.82	13.21	13.78	12.31	12.72	12.82	13.21	13.78