

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: P867062

Luminaire Tested: PRLX-2002-L-935-133L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-935-133L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

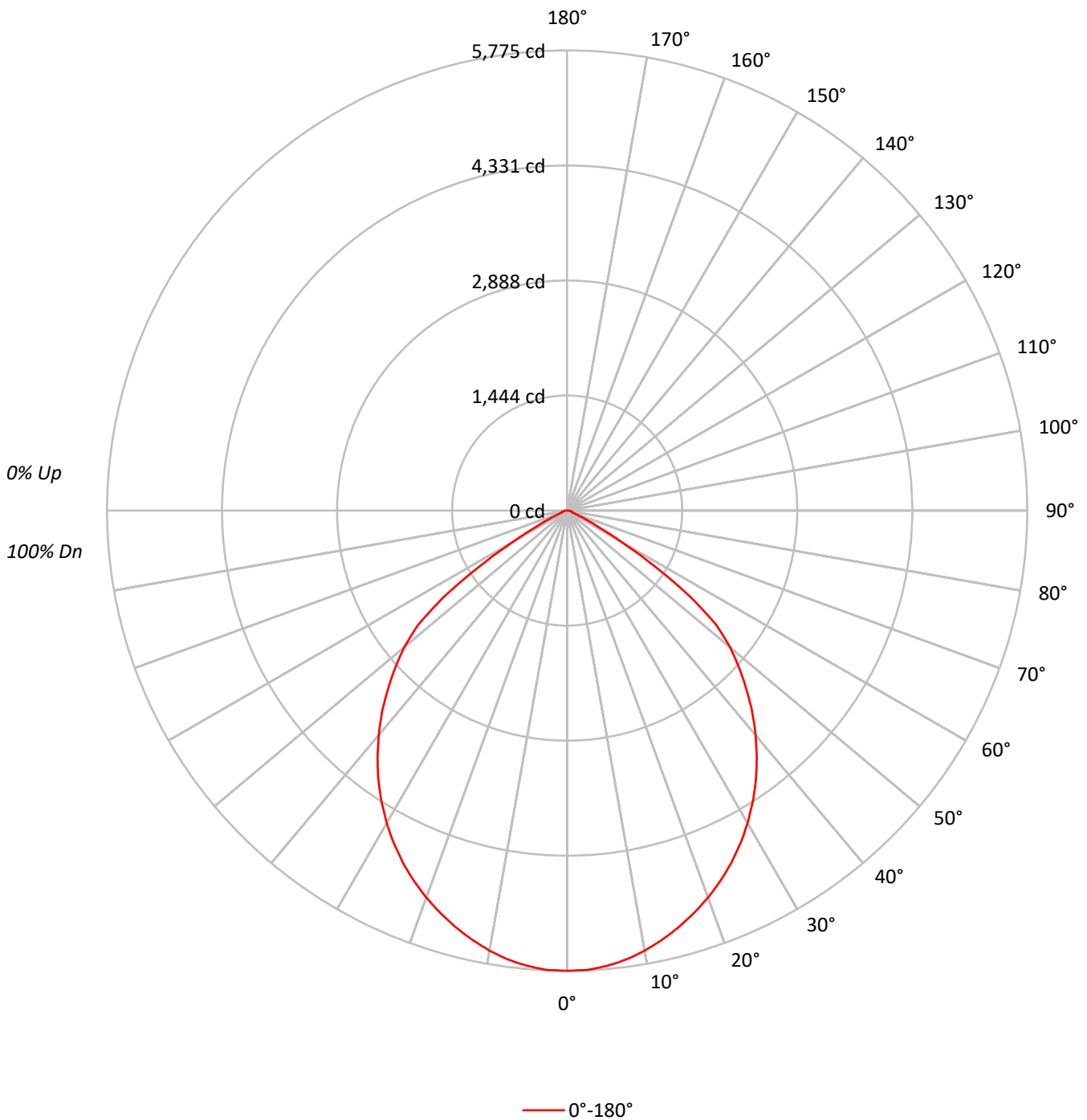
Lumens per Lamp: N/A
Luminaire Lumens: 11350.9 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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

TEST NUMBER: P867062

CATALOG NUMBER: PRLX-2002-L-935-133L-L-X-X-GREY-X

Luminous Intensity Polar Plot



TEST NUMBER: P867062

CATALOG NUMBER: PRLX-2002-L-935-133L-L-X-X-GREY-X

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	91	90
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28494
5°	28408
10°	28092
15°	27643
20°	27139
25°	26543
30°	25795
35°	24881
40°	23690
45°	22231
50°	20486
55°	16286
60°	7666
65°	2768
70°	1066
75°	1182
80°	1355
85°	1619

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22231 cd/sqm

TEST NUMBER: P867062

CATALOG NUMBER: PRLX-2002-L-935-133L-L-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.4	4.8
10°-20°	1525.1	13.4
20°-30°	2243.3	19.8
30°-40°	2577.3	22.7
40°-50°	2454.8	21.6
50°-60°	1614.3	14.2
60°-70°	298.2	2.6
70°-80°	65.1	0.6
80°-90°	29.2	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°	4311.9	38.0
0°-40°	6889.2	60.7
0°-60°	10958.3	96.5
0°-90°	11350.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11350.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5775	
5°	5736	543
15°	5412	1525
25°	4876	2243
35°	4131	2577
45°	3186	2455
55°	1893	1614
65°	237	298
75°	62	65
85°	29	29
90°	0	

TEST NUMBER: P867062

CATALOG NUMBER: PRLX-2002-L-935-133L-L-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	5775.3
2.5°	5769.4
5°	5736.0
7.5°	5682.4
10°	5607.3
12.5°	5515.6
15°	5411.9
17.5°	5295.1
20°	5168.8
22.5°	5028.2
25°	4875.7
27.5°	4708.9
30°	4527.8
32.5°	4333.6
35°	4131.0
37.5°	3909.4
40°	3678.2
42.5°	3441.1
45°	3186.1
47.5°	2933.5
50°	2669.0
52.5°	2359.2
55°	1893.3
57.5°	1297.6
60°	776.9
62.5°	437.3
65°	237.1
67.5°	119.2
70°	73.9
72.5°	67.9
75°	62.0
77.5°	56.0
80°	47.7
82.5°	39.3
85°	28.6
87.5°	15.5
90°	0.0



TEST NUMBER: P867062
 CATALOG NUMBER: PRLX-2002-L-935-133L-L-X-X-GREY-X

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	19.63	21.03	20.00	21.35	21.66	19.63	21.03	20.00	21.35	21.66
	3H	19.55	20.78	19.93	21.11	21.48	19.55	20.78	19.93	21.11	21.48
	4H	19.50	20.65	19.90	21.00	21.38	19.50	20.65	19.90	21.00	21.38
	6H	19.45	20.50	19.87	20.87	21.27	19.45	20.50	19.87	20.87	21.27
	8H	19.43	20.42	19.86	20.81	21.22	19.43	20.42	19.86	20.81	21.22
	12H	19.40	20.35	19.83	20.74	21.17	19.40	20.35	19.83	20.74	21.17
4H	2H	19.51	20.65	19.91	21.00	21.38	19.51	20.65	19.91	21.00	21.38
	3H	19.44	20.36	19.85	20.76	21.17	19.44	20.36	19.85	20.76	21.17
	4H	19.39	20.21	19.82	20.63	21.07	19.39	20.21	19.82	20.63	21.07
	6H	19.35	20.06	19.82	20.51	20.97	19.35	20.06	19.82	20.51	20.97
	8H	19.33	19.99	19.79	20.43	20.90	19.33	19.99	19.79	20.43	20.90
	12H	19.31	19.89	19.79	20.38	20.85	19.31	19.89	19.79	20.38	20.85
8H	4H	19.27	19.93	19.74	20.38	20.85	19.27	19.93	19.74	20.38	20.85
	6H	19.23	19.78	19.74	20.28	20.76	19.23	19.78	19.74	20.28	20.76
	8H	19.21	19.71	19.73	20.22	20.71	19.21	19.71	19.73	20.22	20.71
	12H	19.21	19.65	19.72	20.15	20.72	19.21	19.65	19.72	20.15	20.72
12H	4H	19.23	19.82	19.72	20.30	20.77	19.23	19.82	19.72	20.30	20.77
	6H	19.18	19.68	19.70	20.19	20.68	19.18	19.68	19.70	20.19	20.68
	8H	19.18	19.62	19.69	20.12	20.69	19.18	19.62	19.69	20.12	20.69