

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: P866466

Luminaire Tested: PRLX-2004-M-927-75L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-56)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-M-927-75L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

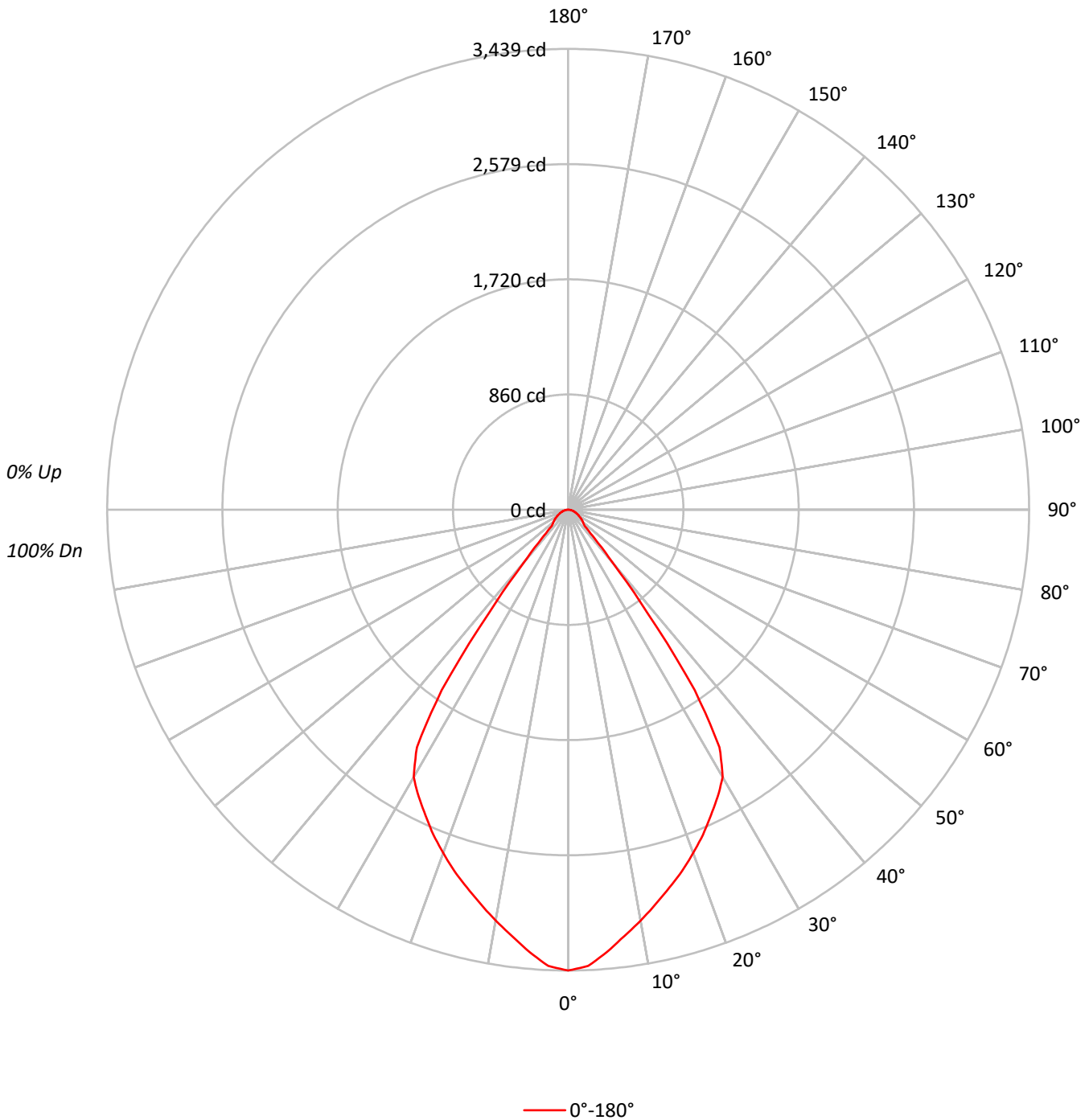
Lumens per Lamp: N/A
Luminaire Lumens: 3642.9 lumens
Efficiency: N/A
Efficacy: 52.3 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866466

CATALOG NUMBER: PRLX-2004-M-927-75L-L-U-S-X-X-GREY-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	100	100	98	97	96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	76	93	85	80	76	83	78	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	71	67	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	57	54	53
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	51	49
10	68	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27357
5°	26459
10°	25151
15°	24043
20°	23087
25°	22100
30°	21170
35°	15969
40°	5316
45°	1970
50°	1790
55°	1637
60°	1483
65°	1361
70°	1284
75°	1230
80°	1132
85°	1041

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1970 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.9	8.5
10°-20°	822.2	22.6
20°-30°	1160.0	31.8
30°-40°	937.5	25.7
40°-50°	179.4	4.9
50°-60°	106.1	2.9
60°-70°	72.5	2.0
70°-80°	42.2	1.2
80°-90°	13.2	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°	2292.1	62.9
0°-40°	3229.6	88.7
0°-60°	3515.1	96.5
0°-90°	3642.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3642.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3439	
5°	3313	310
15°	2919	822
25°	2518	1160
35°	1644	938
45°	175	179
55°	118	106
65°	72	72
75°	40	42
85°	11	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3438.7
2.5°	3408.2
5°	3313.1
7.5°	3208.4
10°	3113.3
12.5°	3014.3
15°	2919.1
17.5°	2825.9
20°	2726.9
22.5°	2626.1
25°	2517.6
27.5°	2414.9
30°	2304.5
32.5°	2100.9
35°	1644.2
37.5°	970.5
40°	511.9
42.5°	287.3
45°	175.1
47.5°	154.1
50°	144.6
52.5°	131.3
55°	118.0
57.5°	106.6
60°	93.2
62.5°	83.7
65°	72.3
67.5°	62.8
70°	55.2
72.5°	47.6
75°	40.0
77.5°	32.4
80°	24.7
82.5°	19.0
85°	11.4
87.5°	5.7
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	8.47	9.52	8.83	9.83	10.14	8.47	9.52	8.83	9.83	10.14
	3H	9.93	10.85	10.31	11.19	11.56	9.93	10.85	10.31	11.19	11.56
	4H	10.53	11.40	10.94	11.75	12.14	10.53	11.40	10.94	11.75	12.14
	6H	10.99	11.78	11.41	12.15	12.55	10.99	11.78	11.41	12.15	12.55
	8H	11.16	11.90	11.59	12.29	12.70	11.16	11.90	11.59	12.29	12.70
	12H	11.26	11.97	11.70	12.35	12.79	11.26	11.97	11.70	12.35	12.79
4H	2H	8.88	9.74	9.29	10.10	10.49	8.88	9.74	9.29	10.10	10.49
	3H	10.58	11.29	11.00	11.70	12.10	10.58	11.29	11.00	11.70	12.10
	4H	11.32	11.95	11.76	12.38	12.82	11.32	11.95	11.76	12.38	12.82
	6H	11.91	12.45	12.38	12.90	13.38	11.91	12.45	12.38	12.90	13.38
	8H	12.13	12.63	12.60	13.08	13.56	12.13	12.63	12.60	13.08	13.56
	12H	12.28	12.71	12.77	13.20	13.68	12.28	12.71	12.77	13.20	13.68
8H	4H	11.55	12.05	12.02	12.50	12.98	11.55	12.05	12.02	12.50	12.98
	6H	12.28	12.68	12.78	13.18	13.66	12.28	12.68	12.78	13.18	13.66
	8H	12.58	12.94	13.12	13.46	13.96	12.58	12.94	13.12	13.46	13.96
	12H	12.83	13.14	13.35	13.63	14.21	12.83	13.14	13.35	13.63	14.21
12H	4H	11.55	11.99	12.04	12.47	12.95	11.55	11.99	12.04	12.47	12.95
	6H	12.32	12.67	12.85	13.20	13.69	12.32	12.67	12.85	13.20	13.69
	8H	12.69	13.00	13.21	13.50	14.07	12.69	13.00	13.21	13.50	14.07