

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: P866462

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-M-927-75L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

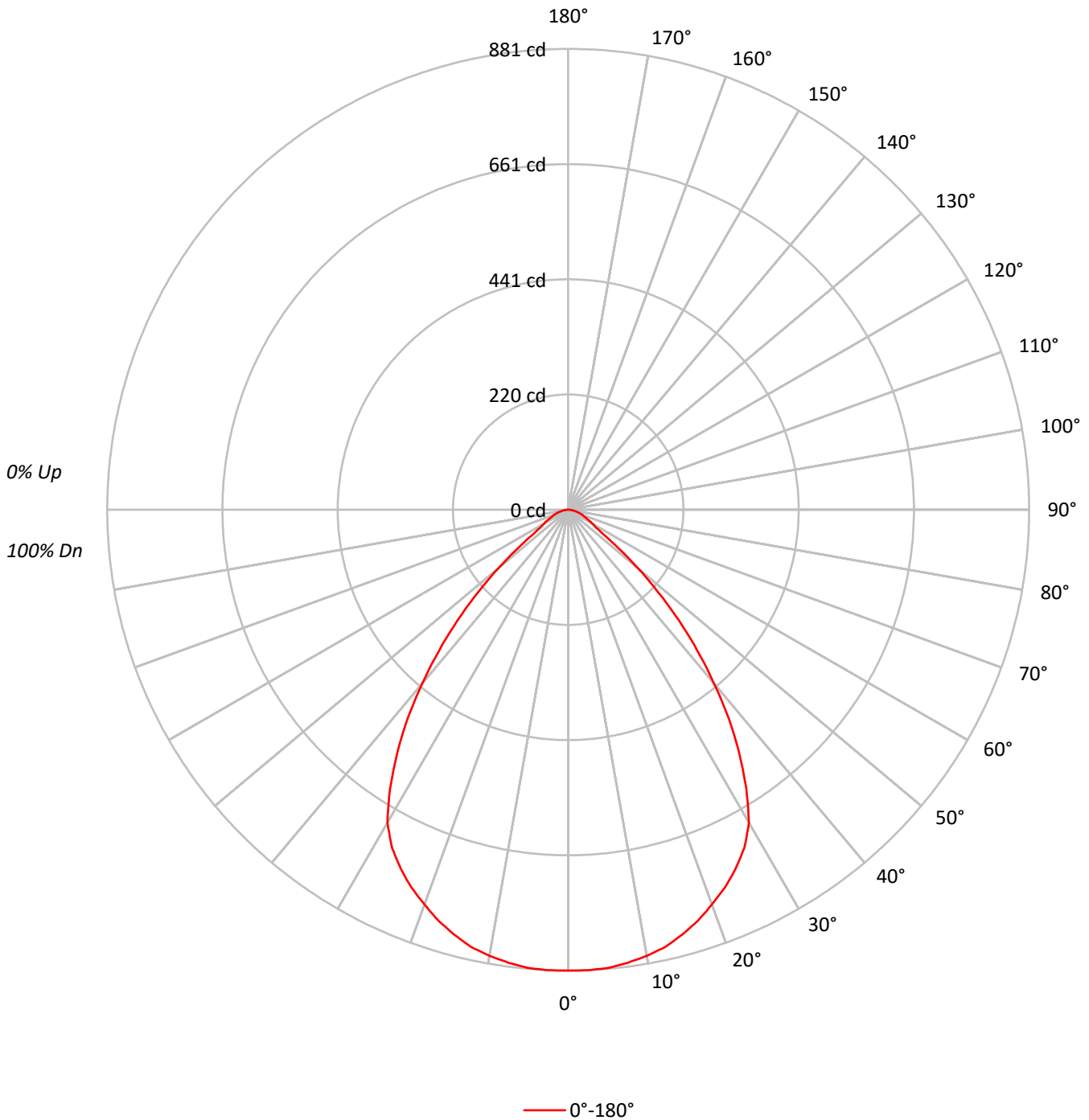
Lumens per Lamp: N/A
Luminaire Lumens: 1399.8 lumens
Efficiency: N/A
Efficacy: 20.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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: P866462

CATALOG NUMBER: PRLX-2004-M-927-75L-G-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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	46	43	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7010
5°	7021
10°	6995
15°	6928
20°	6799
25°	6649
30°	6346
35°	5545
40°	4506
45°	3362
50°	2167
55°	1108
60°	848
65°	717
70°	663
75°	584
80°	522
85°	520

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3362 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	6.0
10°-20°	236.9	16.9
20°-30°	347.4	24.8
30°-40°	353.5	25.3
40°-50°	229.7	16.4
50°-60°	83.9	6.0
60°-70°	38.8	2.8
70°-80°	20.3	1.4
80°-90°	5.7	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°	667.8	47.7
0°-40°	1021.3	73.0
0°-60°	1335.0	95.4
0°-90°	1399.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1399.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	881	
5°	879	83
15°	841	237
25°	757	347
35°	571	354
45°	299	230
55°	80	84
65°	38	39
75°	19	20
85°	6	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	881.1
2.5°	881.1
5°	879.2
7.5°	873.5
10°	865.9
12.5°	856.3
15°	841.1
17.5°	824.0
20°	803.1
22.5°	782.1
25°	757.4
27.5°	728.8
30°	690.8
32.5°	633.7
35°	570.9
37.5°	504.3
40°	433.9
42.5°	365.4
45°	298.8
47.5°	232.2
50°	175.1
52.5°	121.8
55°	79.9
57.5°	62.8
60°	53.3
62.5°	45.7
65°	38.1
67.5°	32.4
70°	28.5
72.5°	22.8
75°	19.0
77.5°	15.2
80°	11.4
82.5°	7.6
85°	5.7
87.5°	1.9
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	7.84	9.10	8.21	9.41	9.72	7.84	9.10	8.21	9.41	9.72
	3H	9.03	10.13	9.41	10.46	10.83	9.03	10.13	9.41	10.46	10.83
	4H	9.47	10.49	9.87	10.85	11.23	9.47	10.49	9.87	10.85	11.23
	6H	9.80	10.74	10.21	11.11	11.51	9.80	10.74	10.21	11.11	11.51
	8H	9.89	10.78	10.32	11.17	11.58	9.89	10.78	10.32	11.17	11.58
	12H	9.96	10.81	10.39	11.19	11.62	9.96	10.81	10.39	11.19	11.62
4H	2H	8.19	9.22	8.60	9.57	9.96	8.19	9.22	8.60	9.57	9.96
	3H	9.60	10.44	10.02	10.85	11.25	9.60	10.44	10.02	10.85	11.25
	4H	10.16	10.91	10.60	11.33	11.78	10.16	10.91	10.60	11.33	11.78
	6H	10.61	11.26	11.08	11.70	12.17	10.61	11.26	11.08	11.70	12.17
	8H	10.74	11.34	11.21	11.79	12.26	10.74	11.34	11.21	11.79	12.26
	12H	10.85	11.38	11.34	11.86	12.34	10.85	11.38	11.34	11.86	12.34
8H	4H	10.34	10.94	10.81	11.38	11.86	10.34	10.94	10.81	11.38	11.86
	6H	10.89	11.38	11.40	11.88	12.36	10.89	11.38	11.40	11.88	12.36
	8H	11.08	11.52	11.60	12.03	12.53	11.08	11.52	11.60	12.03	12.53
	12H	11.27	11.66	11.79	12.16	12.73	11.27	11.66	11.79	12.16	12.73
12H	4H	10.33	10.86	10.82	11.34	11.82	10.33	10.86	10.82	11.34	11.82
	6H	10.91	11.35	11.43	11.86	12.36	10.91	11.35	11.43	11.86	12.36
	8H	11.14	11.53	11.66	12.03	12.60	11.14	11.53	11.66	12.03	12.60