

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: P866454

Luminaire Tested: PRLX-2004-M-927-65L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866454
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-927-65L-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 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

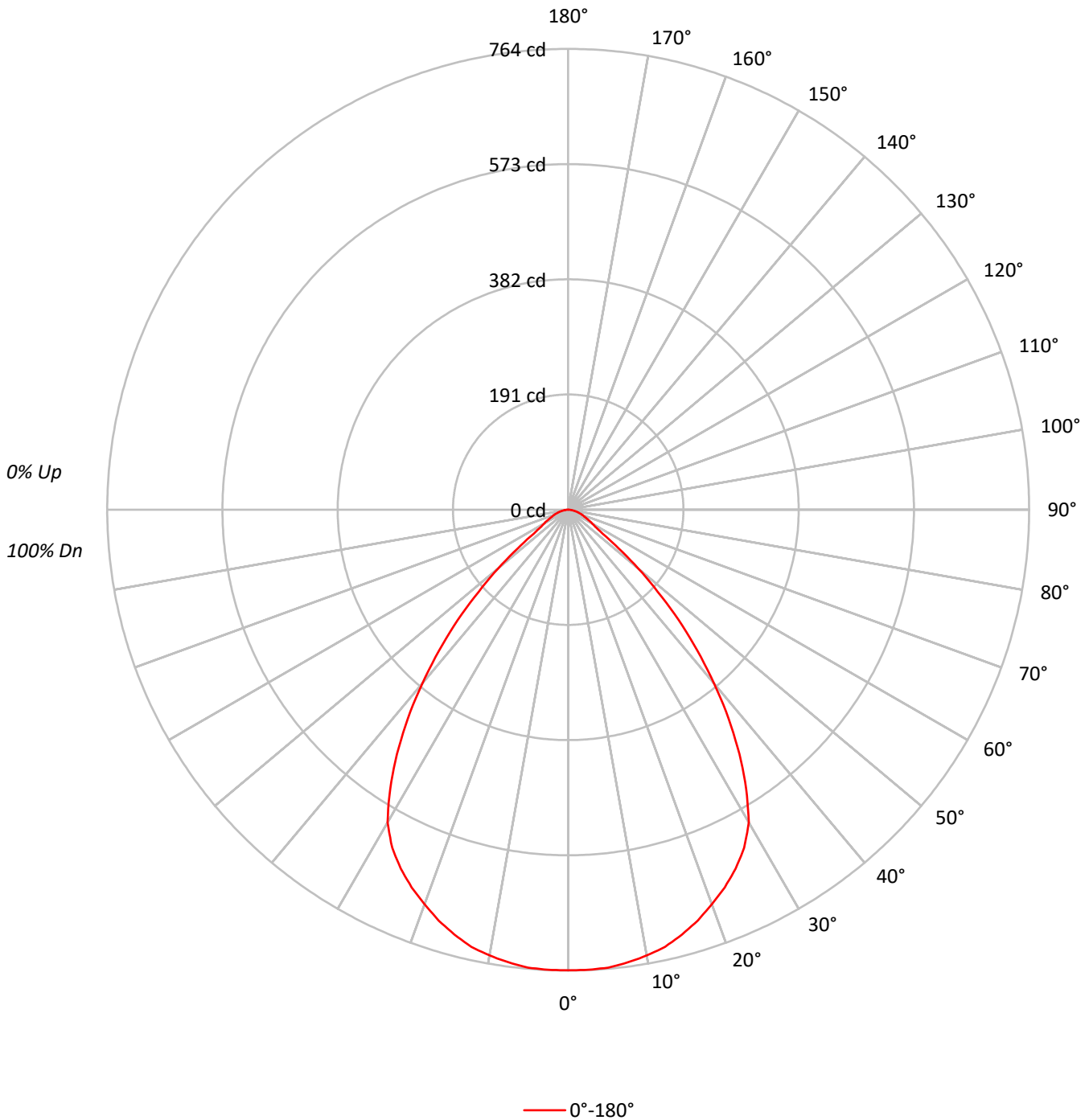
Lumens per Lamp: N/A
Luminaire Lumens: 1213.1 lumens
Efficiency: N/A
Efficacy: 20.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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

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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	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°	6075
5°	6085
10°	6062
15°	6004
20°	5893
25°	5762
30°	5500
35°	4806
40°	3905
45°	2913
50°	1878
55°	961
60°	735
65°	621
70°	575
75°	507
80°	454
85°	447

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2913 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	6.0
10°-20°	205.3	16.9
20°-30°	301.1	24.8
30°-40°	306.4	25.3
40°-50°	199.1	16.4
50°-60°	72.7	6.0
60°-70°	33.6	2.8
70°-80°	17.6	1.5
80°-90°	4.9	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°	578.8	47.7
0°-40°	885.2	73.0
0°-60°	1157.0	95.4
0°-90°	1213.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1213.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	764	
5°	762	72
15°	729	205
25°	656	301
35°	495	306
45°	259	199
55°	69	73
65°	33	34
75°	16	18
85°	5	5
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	763.6
2.5°	763.6
5°	762.0
7.5°	757.0
10°	750.4
12.5°	742.2
15°	729.0
17.5°	714.1
20°	696.0
22.5°	677.8
25°	656.4
27.5°	631.7
30°	598.7
32.5°	549.2
35°	494.8
37.5°	437.0
40°	376.0
42.5°	316.7
45°	258.9
47.5°	201.2
50°	151.7
52.5°	105.6
55°	69.3
57.5°	54.4
60°	46.2
62.5°	39.6
65°	33.0
67.5°	28.0
70°	24.7
72.5°	19.8
75°	16.5
77.5°	13.2
80°	9.9
82.5°	6.6
85°	4.9
87.5°	1.6
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	7.34	8.60	7.71	8.91	9.22	7.34	8.60	7.71	8.91	9.22
	3H	8.52	9.63	8.90	9.96	10.33	8.52	9.63	8.90	9.96	10.33
	4H	8.97	9.99	9.37	10.35	10.73	8.97	9.99	9.37	10.35	10.73
	6H	9.30	10.24	9.71	10.61	11.01	9.30	10.24	9.71	10.61	11.01
	8H	9.39	10.28	9.82	10.67	11.08	9.39	10.28	9.82	10.67	11.08
	12H	9.46	10.31	9.89	10.70	11.13	9.46	10.31	9.89	10.70	11.13
4H	2H	7.69	8.72	8.10	9.07	9.46	7.69	8.72	8.10	9.07	9.46
	3H	9.10	9.94	9.52	10.34	10.75	9.10	9.94	9.52	10.34	10.75
	4H	9.67	10.41	10.10	10.83	11.28	9.67	10.41	10.10	10.83	11.28
	6H	10.12	10.76	10.58	11.21	11.68	10.12	10.76	10.58	11.21	11.68
	8H	10.24	10.84	10.71	11.29	11.76	10.24	10.84	10.71	11.29	11.76
	12H	10.35	10.88	10.84	11.37	11.84	10.35	10.88	10.84	11.37	11.84
8H	4H	9.84	10.44	10.31	10.89	11.36	9.84	10.44	10.31	10.89	11.36
	6H	10.40	10.89	10.90	11.38	11.87	10.40	10.89	10.90	11.38	11.87
	8H	10.58	11.02	11.11	11.54	12.03	10.58	11.02	11.11	11.54	12.03
	12H	10.77	11.16	11.29	11.66	12.23	10.77	11.16	11.29	11.66	12.23
12H	4H	9.83	10.36	10.32	10.85	11.32	9.83	10.36	10.32	10.85	11.32
	6H	10.41	10.85	10.94	11.37	11.86	10.41	10.85	10.94	11.37	11.86
	8H	10.65	11.04	11.17	11.53	12.11	10.65	11.04	11.17	11.53	12.11