

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: P866438

Luminaire Tested: PRLX-2004-M-927-45L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866438
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: Prenalux
Catalog Number: PRLX-2004-M-927-45L-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 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

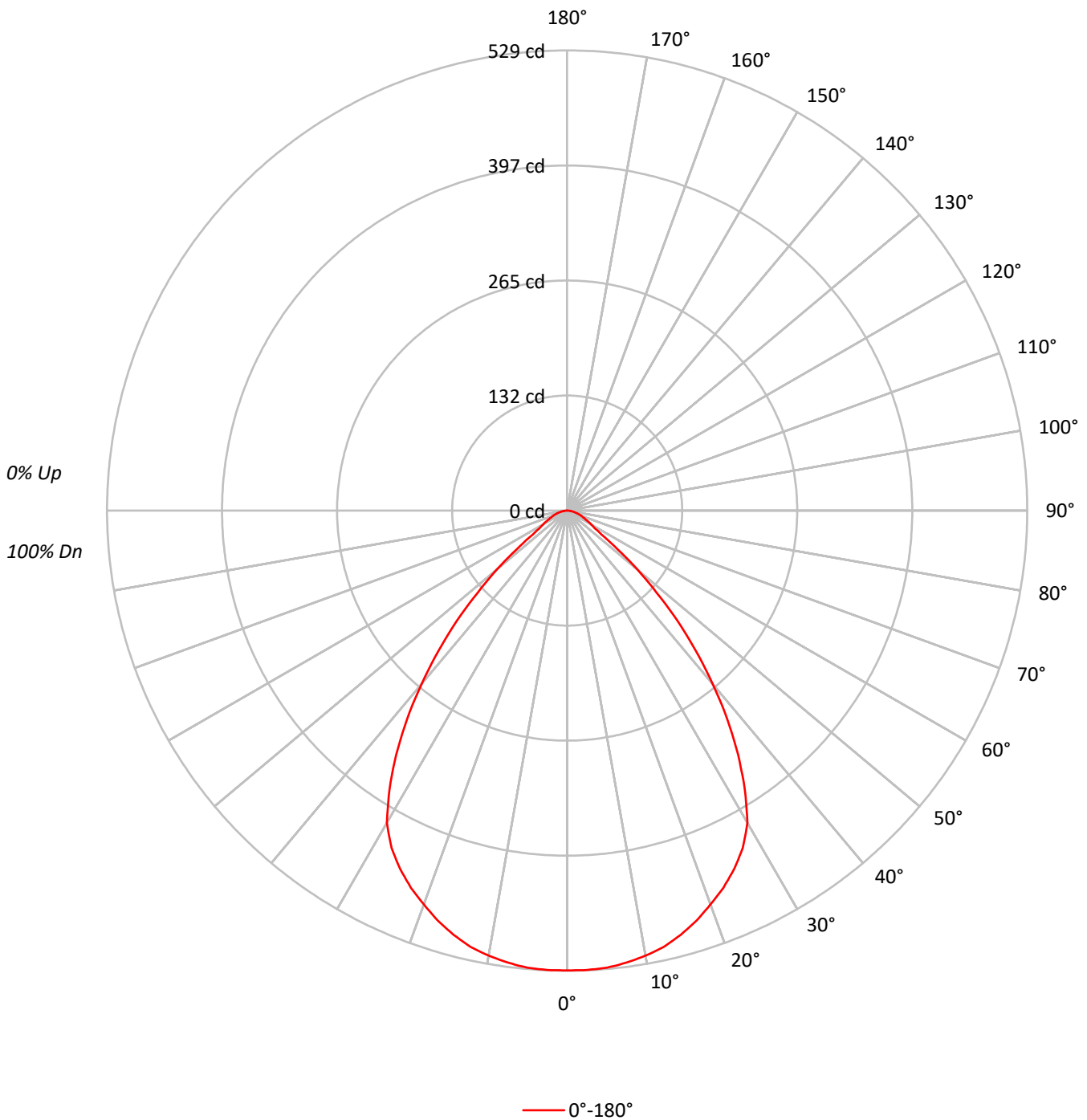
Lumens per Lamp: N/A
Luminaire Lumens: 839.8 lumens
Efficiency: N/A
Efficacy: 21.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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: 0.333 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°	4205
5°	4213
10°	4197
15°	4157
20°	4079
25°	3989
30°	3808
35°	3326
40°	2703
45°	2017
50°	1300
55°	666
60°	509
65°	429
70°	398
75°	350
80°	316
85°	310

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2017 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	6.0
10°-20°	142.1	16.9
20°-30°	208.5	24.8
30°-40°	212.1	25.3
40°-50°	137.8	16.4
50°-60°	50.4	6.0
60°-70°	23.3	2.8
70°-80°	12.2	1.5
80°-90°	3.4	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°	400.7	47.7
0°-40°	612.8	73.0
0°-60°	801.0	95.4
0°-90°	839.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	839.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	529	
5°	528	50
15°	505	142
25°	454	208
35°	342	212
45°	179	138
55°	48	50
65°	23	23
75°	11	12
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	528.6
2.5°	528.6
5°	527.5
7.5°	524.1
10°	519.5
12.5°	513.8
15°	504.7
17.5°	494.4
20°	481.8
22.5°	469.3
25°	454.4
27.5°	437.3
30°	414.5
32.5°	380.2
35°	342.5
37.5°	302.6
40°	260.3
42.5°	219.2
45°	179.3
47.5°	139.3
50°	105.0
52.5°	73.1
55°	48.0
57.5°	37.7
60°	32.0
62.5°	27.4
65°	22.8
67.5°	19.4
70°	17.1
72.5°	13.7
75°	11.4
77.5°	9.1
80°	6.9
82.5°	4.6
85°	3.4
87.5°	1.1
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	6.07	7.33	6.44	7.64	7.95	6.07	7.33	6.44	7.64	7.95
	3H	7.25	8.36	7.63	8.69	9.05	7.25	8.36	7.63	8.69	9.05
	4H	7.69	8.72	8.10	9.07	9.46	7.69	8.72	8.10	9.07	9.46
	6H	8.02	8.97	8.44	9.34	9.73	8.02	8.97	8.44	9.34	9.73
	8H	8.12	9.01	8.55	9.40	9.81	8.12	9.01	8.55	9.40	9.81
	12H	8.19	9.04	8.62	9.42	9.85	8.19	9.04	8.62	9.42	9.85
4H	2H	6.42	7.45	6.82	7.80	8.18	6.42	7.45	6.82	7.80	8.18
	3H	7.83	8.66	8.24	9.07	9.47	7.83	8.66	8.24	9.07	9.47
	4H	8.39	9.13	8.82	9.56	10.00	8.39	9.13	8.82	9.56	10.00
	6H	8.84	9.48	9.31	9.93	10.40	8.84	9.48	9.31	9.93	10.40
	8H	8.97	9.57	9.44	10.02	10.49	8.97	9.57	9.44	10.02	10.49
	12H	9.08	9.61	9.57	10.09	10.57	9.08	9.61	9.57	10.09	10.57
8H	4H	8.56	9.16	9.03	9.61	10.08	8.56	9.16	9.03	9.61	10.08
	6H	9.12	9.61	9.62	10.11	10.59	9.12	9.61	9.62	10.11	10.59
	8H	9.31	9.75	9.83	10.27	10.76	9.31	9.75	9.83	10.27	10.76
	12H	9.50	9.89	10.02	10.39	10.96	9.50	9.89	10.02	10.39	10.96
12H	4H	8.56	9.08	9.04	9.57	10.04	8.56	9.08	9.04	9.57	10.04
	6H	9.14	9.58	9.66	10.09	10.59	9.14	9.58	9.66	10.09	10.59
	8H	9.38	9.77	9.89	10.26	10.83	9.38	9.77	9.89	10.26	10.83