

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: P865814

Luminaire Tested: PRLX-2004-S-935-05L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-935-05L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

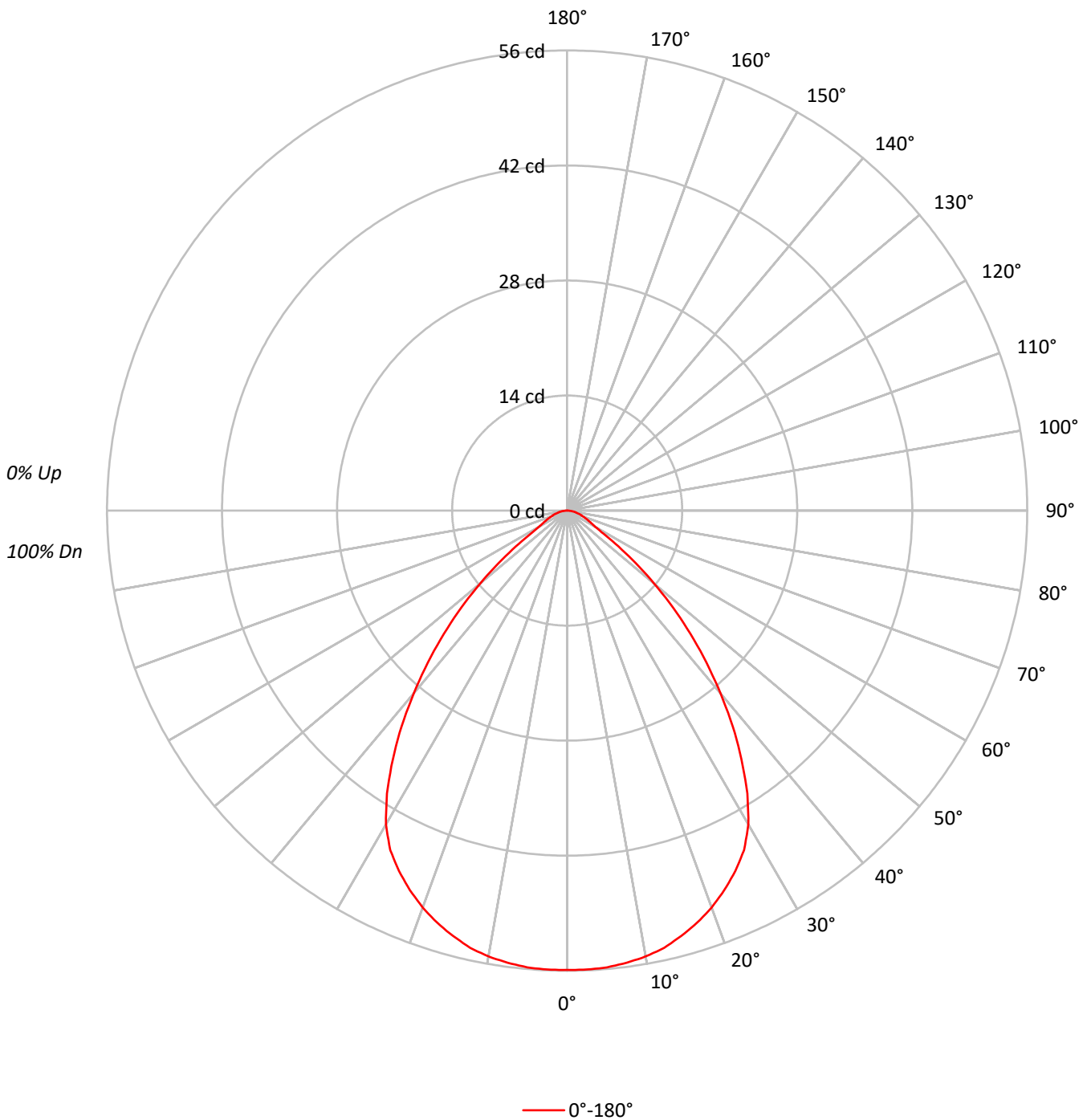
Lumens per Lamp: N/A
Luminaire Lumens: 93.8 lumens
Efficiency: N/A
Efficacy: 15.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.16
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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

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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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	81	74	69	89	80	74	68	78	72	68	76	71	67	74	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	912
5°	914
10°	913
15°	905
20°	892
25°	871
30°	831
35°	737
40°	617
45°	489
50°	350
55°	216
60°	127
65°	108
70°	95
75°	88
80°	85
85°	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 489 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	5.7
10°-20°	15.1	16.1
20°-30°	22.2	23.7
30°-40°	23.0	24.5
40°-50°	16.3	17.4
50°-60°	7.1	7.6
60°-70°	2.8	3.0
70°-80°	1.5	1.6
80°-90°	0.4	0.5
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°	42.6	45.4
0°-40°	65.6	69.9
0°-60°	89.0	94.9
0°-90°	93.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	93.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	56	
5°	56	5
15°	54	15
25°	48	22
35°	37	23
45°	21	16
55°	8	7
65°	3	3
75°	1	1
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	55.9
2.5°	55.9
5°	55.8
7.5°	55.5
10°	55.1
12.5°	54.5
15°	53.6
17.5°	52.6
20°	51.4
22.5°	50.0
25°	48.4
27.5°	46.6
30°	44.1
32.5°	40.8
35°	37.0
37.5°	33.1
40°	29.0
42.5°	25.1
45°	21.2
47.5°	17.5
50°	13.8
52.5°	10.5
55°	7.6
57.5°	5.2
60°	3.9
62.5°	3.3
65°	2.8
67.5°	2.4
70°	2.0
72.5°	1.7
75°	1.4
77.5°	1.1
80°	0.9
82.5°	0.6
85°	0.4
87.5°	0.2
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	2.31	3.61	2.68	3.92	4.23	2.31	3.61	2.68	3.92	4.23
	3H	3.25	4.39	3.63	4.72	5.09	3.25	4.39	3.63	4.72	5.09
	4H	3.63	4.69	4.03	5.04	5.43	3.63	4.69	4.03	5.04	5.43
	6H	3.92	4.90	4.34	5.27	5.66	3.92	4.90	4.34	5.27	5.66
	8H	4.02	4.94	4.45	5.33	5.74	4.02	4.94	4.45	5.33	5.74
	12H	4.08	4.96	4.51	5.34	5.77	4.08	4.96	4.51	5.34	5.77
4H	2H	2.56	3.62	2.96	3.97	4.36	2.56	3.62	2.96	3.97	4.36
	3H	3.72	4.58	4.13	4.99	5.39	3.72	4.58	4.13	4.99	5.39
	4H	4.22	4.99	4.65	5.41	5.85	4.22	4.99	4.65	5.41	5.85
	6H	4.64	5.31	5.11	5.76	6.22	4.64	5.31	5.11	5.76	6.22
	8H	4.78	5.40	5.25	5.85	6.32	4.78	5.40	5.25	5.85	6.32
	12H	4.88	5.43	5.37	5.91	6.39	4.88	5.43	5.37	5.91	6.39
8H	4H	4.36	4.99	4.83	5.43	5.90	4.36	4.99	4.83	5.43	5.90
	6H	4.91	5.42	5.41	5.91	6.39	4.91	5.42	5.41	5.91	6.39
	8H	5.11	5.57	5.63	6.08	6.57	5.11	5.57	5.63	6.08	6.57
	12H	5.28	5.69	5.80	6.18	6.75	5.28	5.69	5.80	6.18	6.75
12H	4H	4.36	4.91	4.85	5.39	5.87	4.36	4.91	4.85	5.39	5.87
	6H	4.92	5.38	5.45	5.90	6.39	4.92	5.38	5.45	5.90	6.39
	8H	5.18	5.58	5.69	6.08	6.65	5.18	5.58	5.69	6.08	6.65