

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: P865662

Luminaire Tested: PRLX-2002-S-935-10L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-935-10L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

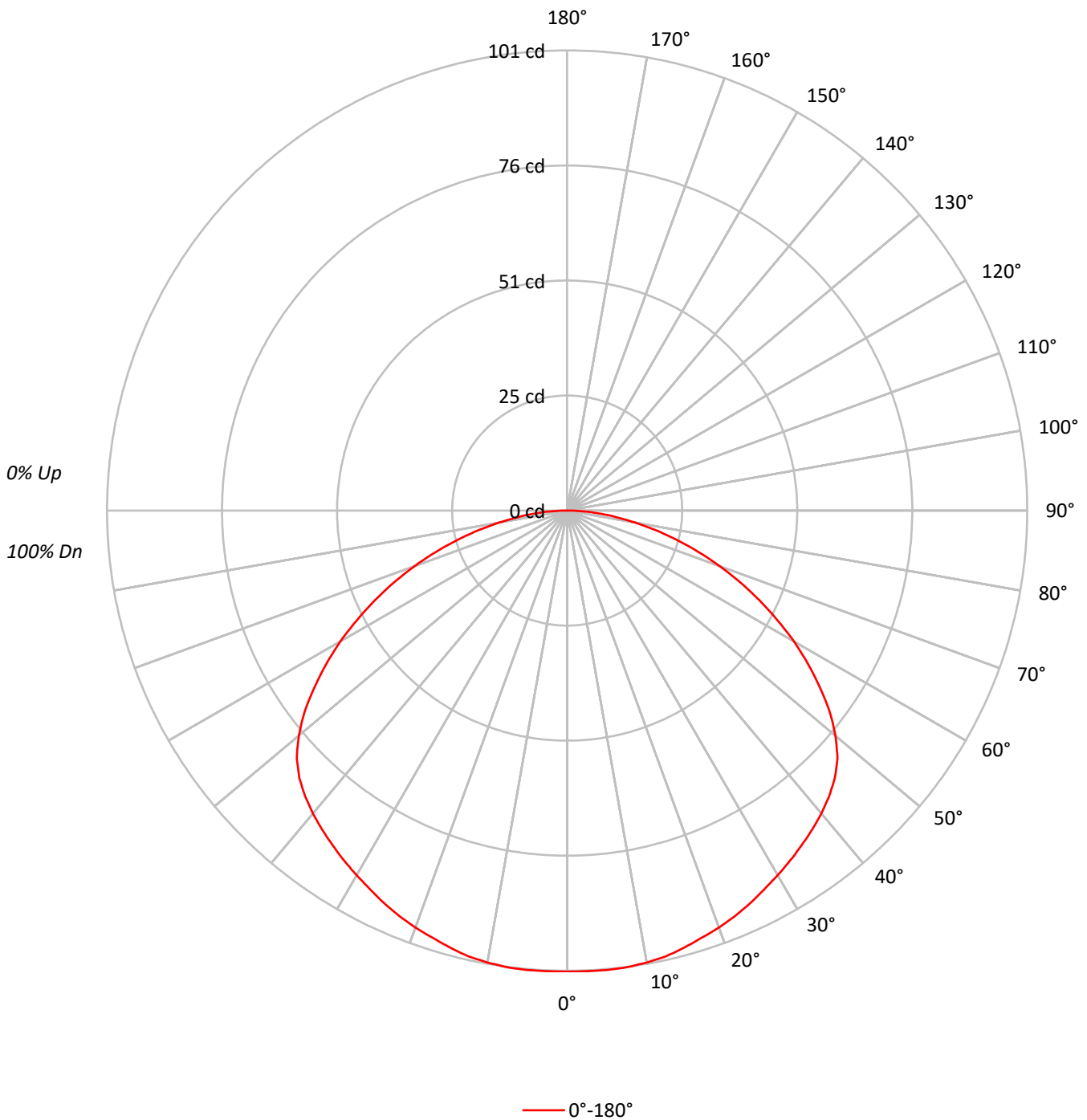
Lumens per Lamp: N/A
Luminaire Lumens: 342.6 lumens
Efficiency: N/A
Efficacy: 32.6 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.53
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1901
5°	1908
10°	1921
15°	1931
20°	1947
25°	1971
30°	2004
35°	2057
40°	2128
45°	2208
50°	2247
55°	2220
60°	2160
65°	2067
70°	1955
75°	1807
80°	1633
85°	1487

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 2247 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	2.8
10°-20°	28.1	8.2
20°-30°	43.9	12.8
30°-40°	56.3	16.4
40°-50°	63.9	18.7
50°-60°	60.5	17.7
60°-70°	46.1	13.4
70°-80°	26.5	7.7
80°-90°	7.8	2.3
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°	81.6	23.8
0°-40°	137.9	40.3
0°-60°	262.3	76.6
0°-90°	342.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	342.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	101	
5°	101	10
15°	99	28
25°	95	44
35°	90	56
45°	83	64
55°	68	60
65°	46	46
75°	25	26
85°	7	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	101.2
2.5°	101.2
5°	101.2
7.5°	101.1
10°	100.7
12.5°	100.2
15°	99.3
17.5°	98.3
20°	97.4
22.5°	96.3
25°	95.1
27.5°	93.7
30°	92.4
32.5°	91.1
35°	89.7
37.5°	88.3
40°	86.8
42.5°	85.1
45°	83.1
47.5°	80.5
50°	76.9
52.5°	72.7
55°	67.8
57.5°	62.7
60°	57.5
62.5°	52.0
65°	46.5
67.5°	41.1
70°	35.6
72.5°	30.2
75°	24.9
77.5°	19.9
80°	15.1
82.5°	10.7
85°	6.9
87.5°	3.5
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	15.18	16.87	15.54	17.19	17.50	15.18	16.87	15.54	17.19	17.50
	3H	16.98	18.52	17.36	18.85	19.21	16.98	18.52	17.36	18.85	19.21
	4H	17.66	19.11	18.05	19.45	19.83	17.66	19.11	18.05	19.45	19.83
	6H	18.16	19.50	18.57	19.87	20.26	18.16	19.50	18.57	19.87	20.26
	8H	18.32	19.61	18.74	20.00	20.40	18.32	19.61	18.74	20.00	20.40
	12H	18.44	19.68	18.87	20.06	20.49	18.44	19.68	18.87	20.06	20.49
4H	2H	15.82	17.27	16.22	17.62	17.99	15.82	17.27	16.22	17.62	17.99
	3H	17.85	19.07	18.25	19.46	19.86	17.85	19.07	18.25	19.46	19.86
	4H	18.65	19.76	19.08	20.17	20.60	18.65	19.76	19.08	20.17	20.60
	6H	19.28	20.25	19.73	20.69	21.14	19.28	20.25	19.73	20.69	21.14
	8H	19.49	20.40	19.95	20.85	21.31	19.49	20.40	19.95	20.85	21.31
	12H	19.66	20.48	20.14	20.96	21.43	19.66	20.48	20.14	20.96	21.43
8H	4H	18.97	19.88	19.43	20.32	20.78	18.97	19.88	19.43	20.32	20.78
	6H	19.72	20.48	20.22	20.97	21.44	19.72	20.48	20.22	20.97	21.44
	8H	20.02	20.70	20.52	21.20	21.69	20.02	20.70	20.52	21.20	21.69
	12H	20.27	20.87	20.77	21.36	21.92	20.27	20.87	20.77	21.36	21.92
12H	4H	19.01	19.83	19.49	20.30	20.77	19.01	19.83	19.49	20.30	20.77
	6H	19.79	20.47	20.29	20.97	21.46	19.79	20.47	20.29	20.97	21.46
	8H	20.14	20.74	20.64	21.23	21.79	20.14	20.74	20.64	21.23	21.79