

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: P866293

Luminaire Tested: PRLX-2002-M-935-25L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-935-25L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

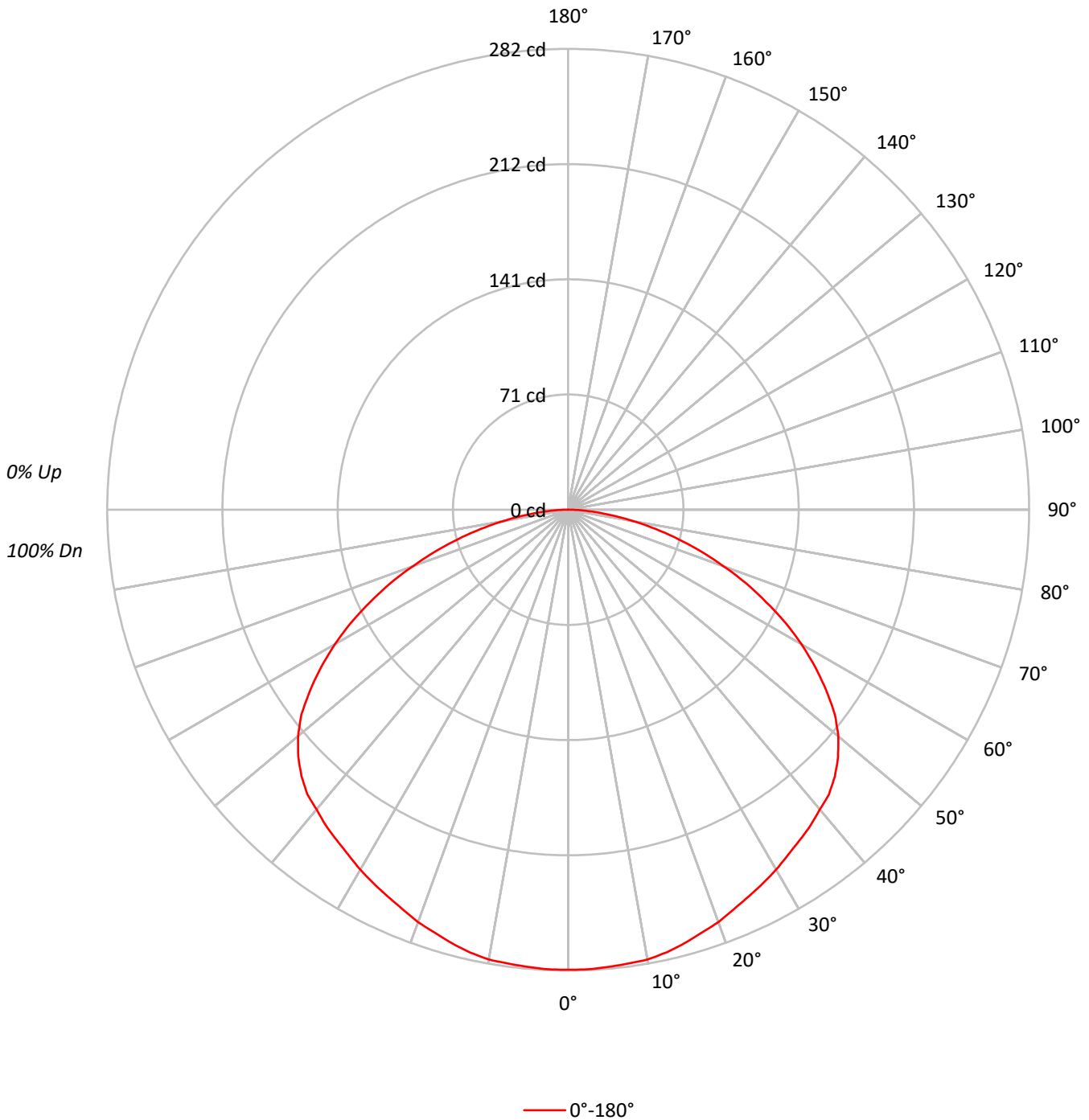
Lumens per Lamp: N/A
Luminaire Lumens: 955.3 lumens
Efficiency: N/A
Efficacy: 44.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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: 0.5 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	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	64	60		68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	44	72	59	51	44	57	50	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	45	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	26	39	31	26		38	31	26		37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2240
5°	2243
10°	2258
15°	2263
20°	2274
25°	2293
30°	2337
35°	2398
40°	2487
45°	2596
50°	2670
55°	2673
60°	2622
65°	2515
70°	2352
75°	2149
80°	1865
85°	1488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 2687 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	2.8
10°-20°	77.6	8.1
20°-30°	120.7	12.6
30°-40°	154.9	16.2
40°-50°	177.5	18.6
50°-60°	171.7	18.0
60°-70°	132.2	13.8
70°-80°	74.1	7.8
80°-90°	19.6	2.0
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°	225.1	23.6
0°-40°	380.1	39.8
0°-60°	729.3	76.3
0°-90°	955.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	955.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	282	
5°	281	27
15°	275	78
25°	261	121
35°	247	155
45°	231	178
55°	193	172
65°	134	132
75°	70	74
85°	16	20
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	281.5
2.5°	281.5
5°	280.9
7.5°	280.2
10°	279.5
12.5°	277.5
15°	274.7
17.5°	271.4
20°	268.6
22.5°	264.6
25°	261.2
27.5°	257.8
30°	254.4
32.5°	250.3
35°	246.9
37.5°	243.5
40°	239.5
42.5°	236.1
45°	230.7
47.5°	223.9
50°	215.7
52.5°	205.6
55°	192.7
57.5°	179.1
60°	164.8
62.5°	149.9
65°	133.6
67.5°	118.0
70°	101.1
72.5°	85.5
75°	69.9
77.5°	54.9
80°	40.7
82.5°	27.8
85°	16.3
87.5°	7.5
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	15.92	17.62	16.28	17.93	18.25	15.92	17.62	16.28	17.93	18.25
	3H	17.73	19.27	18.10	19.59	19.95	17.73	19.27	18.10	19.59	19.95
	4H	18.38	19.84	18.78	20.18	20.56	18.38	19.84	18.78	20.18	20.56
	6H	18.84	20.19	19.25	20.56	20.95	18.84	20.19	19.25	20.56	20.95
	8H	18.98	20.27	19.40	20.66	21.06	18.98	20.27	19.40	20.66	21.06
	12H	19.07	20.31	19.50	20.69	21.12	19.07	20.31	19.50	20.69	21.12
4H	2H	16.57	18.02	16.97	18.37	18.75	16.57	18.02	16.97	18.37	18.75
	3H	18.59	19.81	19.00	20.21	20.61	18.59	19.81	19.00	20.21	20.61
	4H	19.37	20.48	19.80	20.89	21.32	19.37	20.48	19.80	20.89	21.32
	6H	19.95	20.92	20.40	21.36	21.81	19.95	20.92	20.40	21.36	21.81
	8H	20.13	21.04	20.59	21.48	21.95	20.13	21.04	20.59	21.48	21.95
	12H	20.26	21.08	20.74	21.56	22.02	20.26	21.08	20.74	21.56	22.02
8H	4H	19.68	20.59	20.13	21.03	21.49	19.68	20.59	20.13	21.03	21.49
	6H	20.37	21.13	20.86	21.62	22.09	20.37	21.13	20.86	21.62	22.09
	8H	20.62	21.30	21.13	21.81	22.29	20.62	21.30	21.13	21.81	22.29
	12H	20.81	21.42	21.32	21.90	22.46	20.81	21.42	21.32	21.90	22.46
12H	4H	19.71	20.53	20.19	21.00	21.47	19.71	20.53	20.19	21.00	21.47
	6H	20.42	21.11	20.93	21.61	22.09	20.42	21.11	20.93	21.61	22.09
	8H	20.73	21.33	21.23	21.82	22.38	20.73	21.33	21.23	21.82	22.38