

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: P866166

Luminaire Tested: PRLX-2002-M-927-25L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-927-25L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

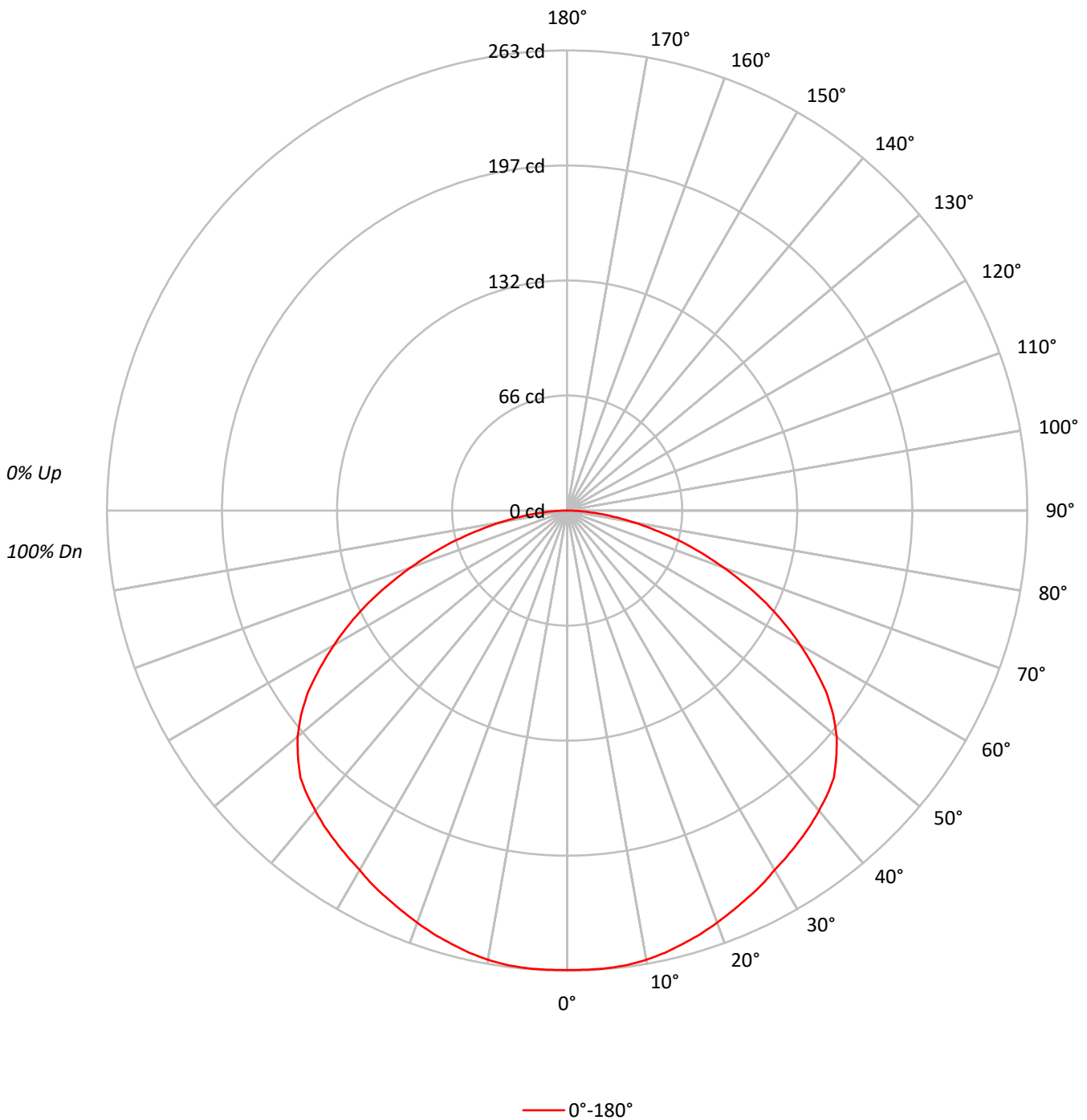
Lumens per Lamp: N/A
Luminaire Lumens: 893.8 lumens
Efficiency: N/A
Efficacy: 41.2 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	59	68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47
5	74	61	51	44	72	59	51	44	57	49	44	55	48	43	53	47	43	40
6	68	54	45	38	66	53	44	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	58	44	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	55	41	32	26	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°	2089
5°	2097
10°	2106
15°	2111
20°	2122
25°	2144
30°	2179
35°	2243
40°	2325
45°	2427
50°	2489
55°	2508
60°	2452
65°	2364
70°	2212
75°	2029
80°	1773
85°	1451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 2508 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.0	2.8
10°-20°	72.5	8.1
20°-30°	112.8	12.6
30°-40°	144.8	16.2
40°-50°	165.7	18.5
50°-60°	160.5	18.0
60°-70°	123.9	13.9
70°-80°	69.8	7.8
80°-90°	18.7	2.1
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°	210.3	23.5
0°-40°	355.1	39.7
0°-60°	681.3	76.2
0°-90°	893.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	893.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	263	
5°	263	25
15°	256	72
25°	244	113
35°	231	145
45°	216	166
55°	181	161
65°	126	124
75°	66	70
85°	16	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	262.6
2.5°	262.6
5°	262.6
7.5°	262.0
10°	260.7
12.5°	258.8
15°	256.3
17.5°	253.7
20°	250.6
22.5°	247.4
25°	244.2
27.5°	241.0
30°	237.2
32.5°	234.1
35°	230.9
37.5°	227.7
40°	223.9
42.5°	220.1
45°	215.7
47.5°	208.7
50°	201.1
52.5°	191.6
55°	180.8
57.5°	167.5
60°	154.1
62.5°	140.2
65°	125.6
67.5°	110.4
70°	95.1
72.5°	80.6
75°	66.0
77.5°	51.4
80°	38.7
82.5°	26.6
85°	15.9
87.5°	7.0
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	15.68	17.38	16.05	17.70	18.01	15.68	17.38	16.05	17.70	18.01
	3H	17.50	19.04	17.87	19.37	19.73	17.50	19.04	17.87	19.37	19.73
	4H	18.16	19.62	18.56	19.97	20.34	18.16	19.62	18.56	19.97	20.34
	6H	18.63	19.98	19.04	20.34	20.73	18.63	19.98	19.04	20.34	20.73
	8H	18.77	20.07	19.19	20.45	20.85	18.77	20.07	19.19	20.45	20.85
	12H	18.87	20.11	19.29	20.49	20.92	18.87	20.11	19.29	20.49	20.92
4H	2H	16.34	17.80	16.74	18.14	18.52	16.34	17.80	16.74	18.14	18.52
	3H	18.37	19.59	18.78	19.99	20.39	18.37	19.59	18.78	19.99	20.39
	4H	19.16	20.27	19.59	20.68	21.11	19.16	20.27	19.59	20.68	21.11
	6H	19.74	20.72	20.20	21.16	21.61	19.74	20.72	20.20	21.16	21.61
	8H	19.93	20.85	20.39	21.29	21.75	19.93	20.85	20.39	21.29	21.75
	12H	20.07	20.89	20.55	21.37	21.83	20.07	20.89	20.55	21.37	21.83
8H	4H	19.47	20.38	19.92	20.82	21.28	19.47	20.38	19.92	20.82	21.28
	6H	20.17	20.93	20.66	21.42	21.89	20.17	20.93	20.66	21.42	21.89
	8H	20.43	21.11	20.94	21.62	22.10	20.43	21.11	20.94	21.62	22.10
	12H	20.63	21.24	21.14	21.73	22.28	20.63	21.24	21.14	21.73	22.28
12H	4H	19.50	20.32	19.98	20.80	21.27	19.50	20.32	19.98	20.80	21.27
	6H	20.22	20.91	20.73	21.41	21.90	20.22	20.91	20.73	21.41	21.90
	8H	20.54	21.14	21.04	21.63	22.19	20.54	21.14	21.04	21.63	22.19