

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: P866174

Luminaire Tested: PRLX-2002-M-927-35L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866174
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-927-35L-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 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

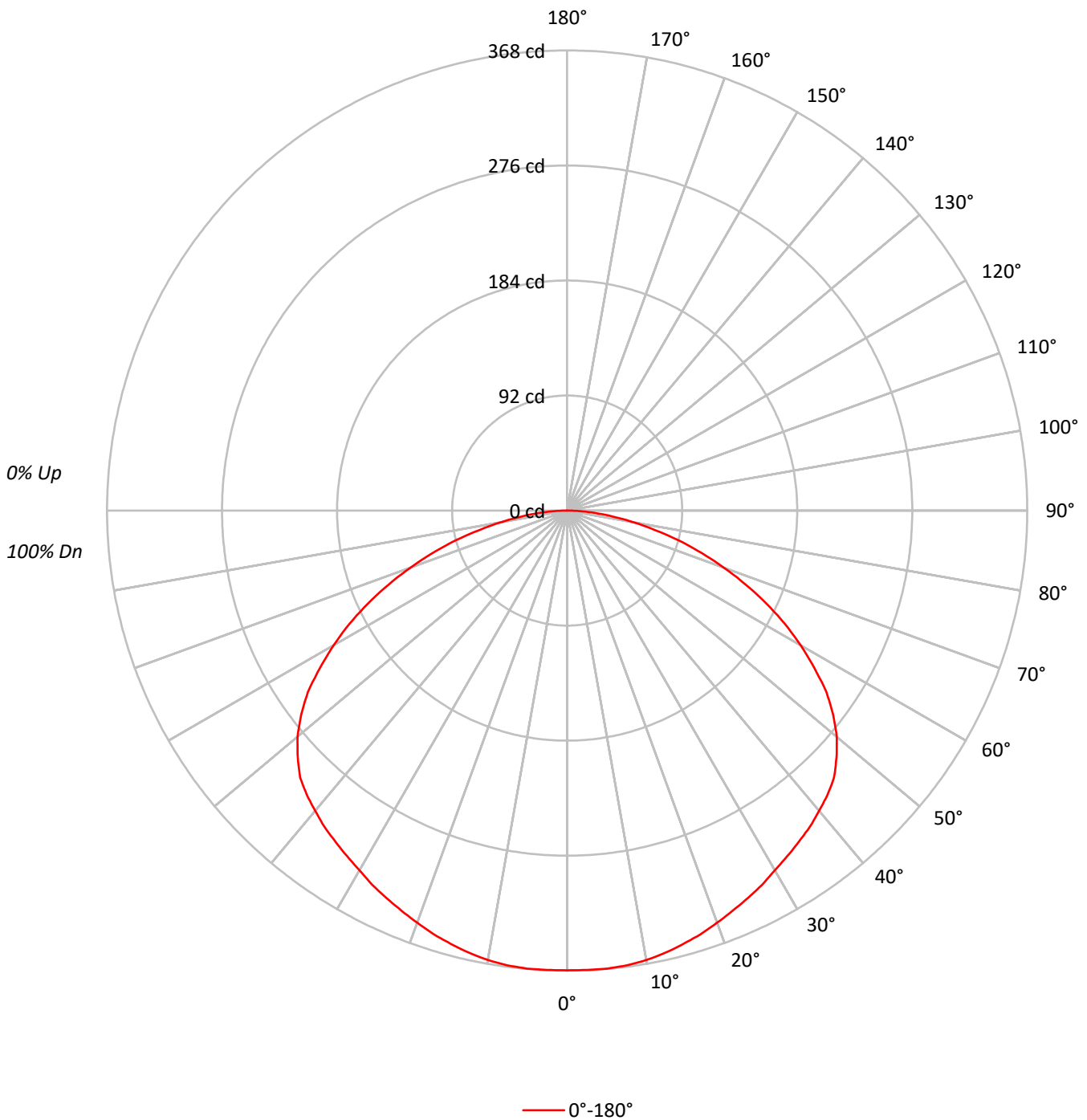
Lumens per Lamp: N/A
Luminaire Lumens: 1251.3 lumens
Efficiency: N/A
Efficacy: 41.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49
5	74	61	51	44	72	59	51	44	57	49	44	55	48	43	53	47	43
6	68	54	45	38	66	53	44	38	51	44	38	50	43	37	48	42	37
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33
8	58	44	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2925
5°	2937
10°	2949
15°	2955
20°	2970
25°	3001
30°	3051
35°	3139
40°	3256
45°	3397
50°	3484
55°	3511
60°	3434
65°	3309
70°	3098
75°	2840
80°	2483
85°	2026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 3511 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	2.8
10°-20°	101.4	8.1
20°-30°	158.0	12.6
30°-40°	202.8	16.2
40°-50°	232.0	18.5
50°-60°	224.7	18.0
60°-70°	173.5	13.9
70°-80°	97.8	7.8
80°-90°	26.2	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°	294.4	23.5
0°-40°	497.2	39.7
0°-60°	953.8	76.2
0°-90°	1251.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1251.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	368	
5°	368	35
15°	359	101
25°	342	158
35°	323	203
45°	302	232
55°	253	225
65°	176	173
75°	92	98
85°	22	26
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	367.7
2.5°	367.7
5°	367.7
7.5°	366.8
10°	365.0
12.5°	362.3
15°	358.8
17.5°	355.2
20°	350.8
22.5°	346.3
25°	341.9
27.5°	337.5
30°	332.1
32.5°	327.7
35°	323.2
37.5°	318.8
40°	313.5
42.5°	308.2
45°	301.9
47.5°	292.2
50°	281.5
52.5°	268.2
55°	253.1
57.5°	234.4
60°	215.8
62.5°	196.3
65°	175.8
67.5°	154.5
70°	133.2
72.5°	112.8
75°	92.4
77.5°	71.9
80°	54.2
82.5°	37.3
85°	22.2
87.5°	9.8
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	16.85	18.55	17.21	18.87	19.18	16.85	18.55	17.21	18.87	19.18
	3H	18.67	20.21	19.04	20.54	20.89	18.67	20.21	19.04	20.54	20.89
	4H	19.33	20.79	19.73	21.13	21.51	19.33	20.79	19.73	21.13	21.51
	6H	19.79	21.15	20.20	21.51	21.90	19.79	21.15	20.20	21.51	21.90
	8H	19.94	21.23	20.36	21.62	22.02	19.94	21.23	20.36	21.62	22.02
	12H	20.03	21.28	20.46	21.66	22.08	20.03	21.28	20.46	21.66	22.08
4H	2H	17.51	18.96	17.90	19.31	19.68	17.51	18.96	17.90	19.31	19.68
	3H	19.54	20.76	19.94	21.16	21.56	19.54	20.76	19.94	21.16	21.56
	4H	20.32	21.44	20.75	21.85	22.28	20.32	21.44	20.75	21.85	22.28
	6H	20.91	21.89	21.36	22.32	22.78	20.91	21.89	21.36	22.32	22.78
	8H	21.10	22.01	21.56	22.46	22.92	21.10	22.01	21.56	22.46	22.92
	12H	21.24	22.06	21.72	22.53	23.00	21.24	22.06	21.72	22.53	23.00
8H	4H	20.63	21.55	21.09	21.99	22.45	20.63	21.55	21.09	21.99	22.45
	6H	21.34	22.10	21.83	22.58	23.06	21.34	22.10	21.83	22.58	23.06
	8H	21.60	22.28	22.10	22.78	23.27	21.60	22.28	22.10	22.78	23.27
	12H	21.80	22.41	22.31	22.89	23.45	21.80	22.41	22.31	22.89	23.45
12H	4H	20.67	21.49	21.15	21.97	22.43	20.67	21.49	21.15	21.97	22.43
	6H	21.39	22.08	21.90	22.58	23.06	21.39	22.08	21.90	22.58	23.06
	8H	21.71	22.31	22.21	22.80	23.36	21.71	22.31	22.21	22.80	23.36