

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: P866173

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866173
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-927-35L-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 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

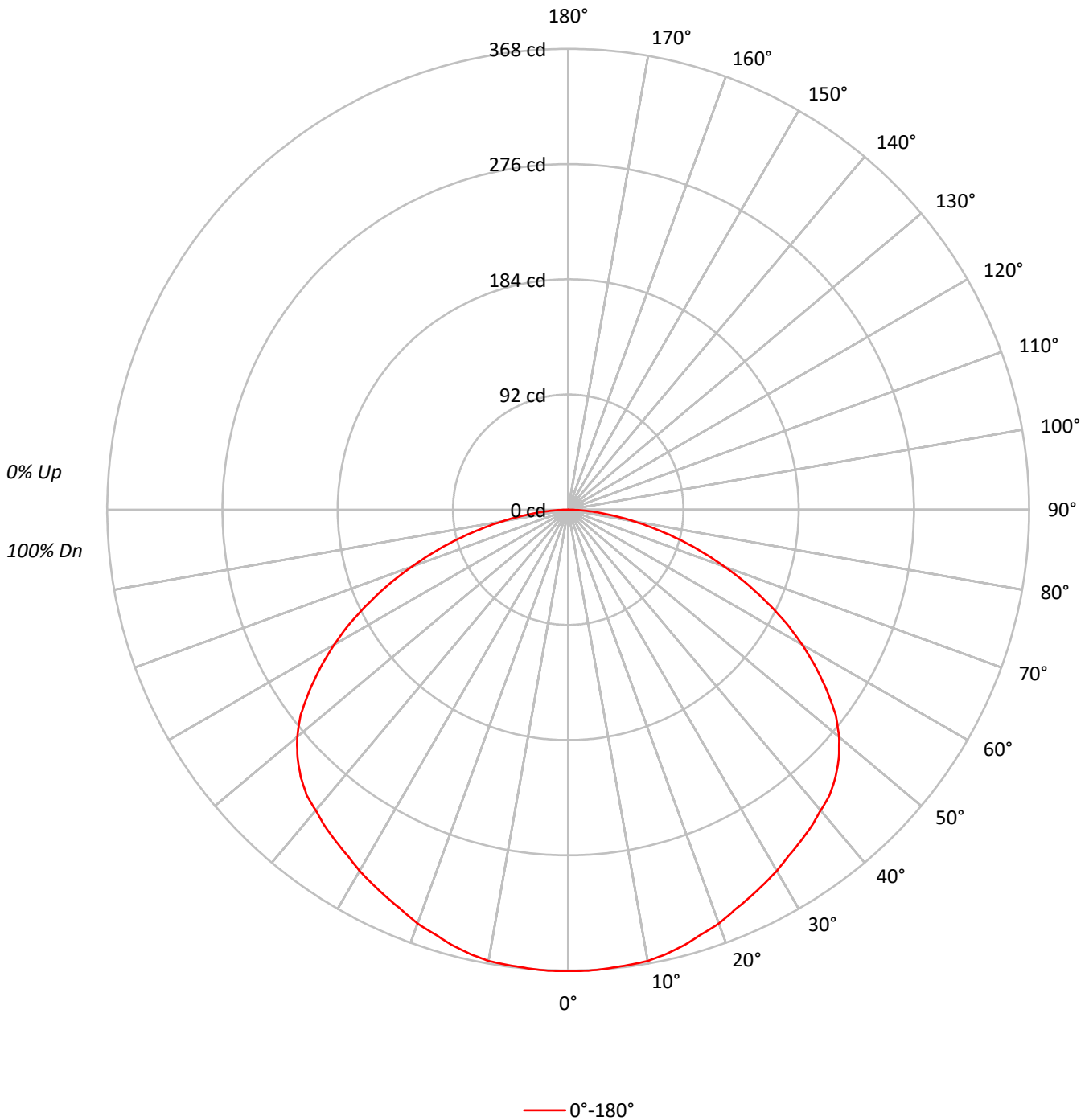
Lumens per Lamp: N/A
Luminaire Lumens: 1250.5 lumens
Efficiency: N/A
Efficacy: 41.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 30
Input Voltage (V): 120
Input Current (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°	2932
5°	2937
10°	2956
15°	2963
20°	2978
25°	3001
30°	3059
35°	3140
40°	3256
45°	3397
50°	3495
55°	3498
60°	3434
65°	3292
70°	3077
75°	2813
80°	2442
85°	1944

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 3517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	2.8
10°-20°	101.6	8.1
20°-30°	158.1	12.6
30°-40°	202.8	16.2
40°-50°	232.4	18.6
50°-60°	224.8	18.0
60°-70°	173.1	13.8
70°-80°	97.0	7.8
80°-90°	25.6	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°	294.7	23.6
0°-40°	497.6	39.8
0°-60°	954.7	76.3
0°-90°	1250.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1250.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	368	
5°	368	35
15°	360	102
25°	342	158
35°	323	203
45°	302	232
55°	252	225
65°	175	173
75°	92	97
85°	21	26
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	368.5
2.5°	368.5
5°	367.7
7.5°	366.8
10°	365.9
12.5°	363.2
15°	359.7
17.5°	355.2
20°	351.7
22.5°	346.3
25°	341.9
27.5°	337.5
30°	333.0
32.5°	327.7
35°	323.3
37.5°	318.8
40°	313.5
42.5°	309.0
45°	301.9
47.5°	293.1
50°	282.4
52.5°	269.1
55°	252.2
57.5°	234.4
60°	215.8
62.5°	196.3
65°	174.9
67.5°	154.5
70°	132.3
72.5°	111.9
75°	91.5
77.5°	71.9
80°	53.3
82.5°	36.4
85°	21.3
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	17.22	18.87	19.18	16.85	18.55	17.22	18.87	19.18
	3H	18.66	20.20	19.04	20.53	20.89	18.66	20.20	19.04	20.53	20.89
	4H	19.31	20.77	19.71	21.12	21.49	19.31	20.77	19.71	21.12	21.49
	6H	19.78	21.13	20.19	21.49	21.88	19.78	21.13	20.19	21.49	21.88
	8H	19.92	21.21	20.34	21.60	21.99	19.92	21.21	20.34	21.60	21.99
	12H	20.00	21.24	20.43	21.63	22.05	20.00	21.24	20.43	21.63	22.05
4H	2H	17.50	18.96	17.90	19.31	19.68	17.50	18.96	17.90	19.31	19.68
	3H	19.52	20.75	19.93	21.14	21.54	19.52	20.75	19.93	21.14	21.54
	4H	20.30	21.41	20.73	21.82	22.26	20.30	21.41	20.73	21.82	22.26
	6H	20.88	21.86	21.34	22.30	22.75	20.88	21.86	21.34	22.30	22.75
	8H	21.07	21.98	21.53	22.42	22.88	21.07	21.98	21.53	22.42	22.88
	12H	21.20	22.02	21.68	22.49	22.96	21.20	22.02	21.68	22.49	22.96
8H	4H	20.61	21.52	21.07	21.96	22.43	20.61	21.52	21.07	21.96	22.43
	6H	21.31	22.07	21.80	22.55	23.03	21.31	22.07	21.80	22.55	23.03
	8H	21.56	22.24	22.06	22.74	23.23	21.56	22.24	22.06	22.74	23.23
	12H	21.75	22.35	22.25	22.84	23.40	21.75	22.35	22.25	22.84	23.40
12H	4H	20.64	21.47	21.12	21.94	22.41	20.64	21.47	21.12	21.94	22.41
	6H	21.36	22.04	21.86	22.55	23.03	21.36	22.04	21.86	22.55	23.03
	8H	21.66	22.27	22.17	22.76	23.31	21.66	22.27	22.17	22.76	23.31