

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: P866237

Luminaire Tested: PRLX-2002-M-930-35L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866237
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-930-35L-G-U-S-X-X-BRSS-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

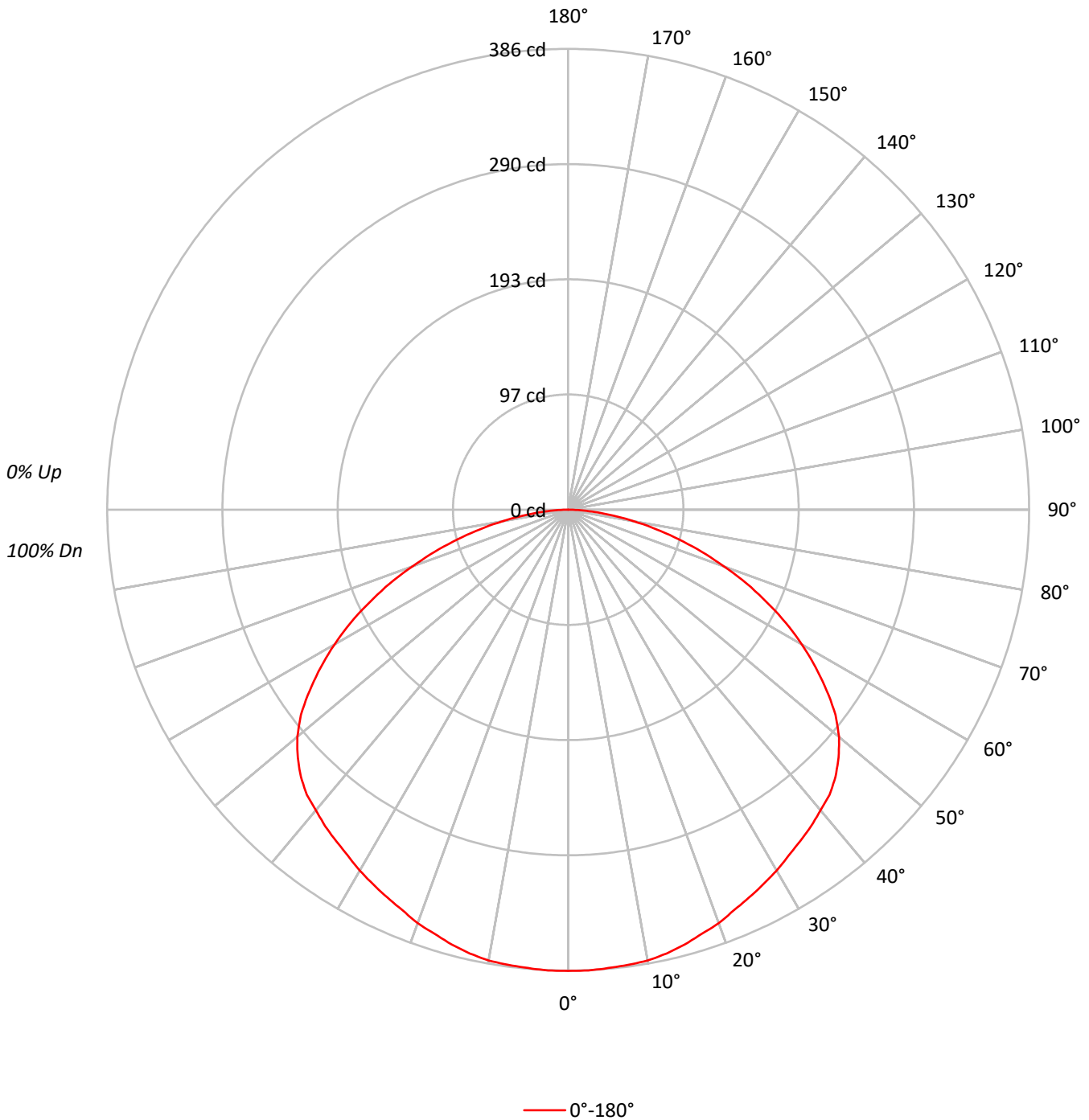
Lumens per Lamp: N/A
Luminaire Lumens: 1310.8 lumens
Efficiency: N/A
Efficacy: 43.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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°	3073
5°	3078
10°	3098
15°	3105
20°	3121
25°	3146
30°	3207
35°	3290
40°	3413
45°	3561
50°	3664
55°	3667
60°	3599
65°	3452
70°	3226
75°	2948
80°	2561
85°	2036

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 3687 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	2.8
10°-20°	106.5	8.1
20°-30°	165.7	12.6
30°-40°	212.6	16.2
40°-50°	243.6	18.6
50°-60°	235.7	18.0
60°-70°	181.5	13.8
70°-80°	101.7	7.8
80°-90°	26.8	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°	308.9	23.6
0°-40°	521.5	39.8
0°-60°	1000.8	76.3
0°-90°	1310.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1310.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	386	
5°	385	37
15°	377	107
25°	358	166
35°	339	213
45°	316	244
55°	264	236
65°	183	181
75°	96	102
85°	22	27
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	386.3
2.5°	386.3
5°	385.4
7.5°	384.5
10°	383.5
12.5°	380.7
15°	377.0
17.5°	372.4
20°	368.6
22.5°	363.0
25°	358.4
27.5°	353.7
30°	349.1
32.5°	343.5
35°	338.8
37.5°	334.2
40°	328.6
42.5°	323.9
45°	316.5
47.5°	307.2
50°	296.0
52.5°	282.1
55°	264.4
57.5°	245.8
60°	226.2
62.5°	205.7
65°	183.4
67.5°	162.0
70°	138.7
72.5°	117.3
75°	95.9
77.5°	75.4
80°	55.9
82.5°	38.2
85°	22.3
87.5°	10.2
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	17.02	18.72	17.38	19.03	19.35	17.02	18.72	17.38	19.03	19.35
	3H	18.83	20.37	19.20	20.70	21.05	18.83	20.37	19.20	20.70	21.05
	4H	19.48	20.94	19.88	21.28	21.66	19.48	20.94	19.88	21.28	21.66
	6H	19.94	21.29	20.35	21.66	22.05	19.94	21.29	20.35	21.66	22.05
	8H	20.08	21.38	20.50	21.76	22.16	20.08	21.38	20.50	21.76	22.16
	12H	20.17	21.41	20.60	21.79	22.22	20.17	21.41	20.60	21.79	22.22
4H	2H	17.67	19.13	18.07	19.47	19.85	17.67	19.13	18.07	19.47	19.85
	3H	19.69	20.91	20.10	21.31	21.71	19.69	20.91	20.10	21.31	21.71
	4H	20.47	21.58	20.90	21.99	22.42	20.47	21.58	20.90	21.99	22.42
	6H	21.05	22.02	21.50	22.46	22.91	21.05	22.02	21.50	22.46	22.91
	8H	21.23	22.15	21.69	22.59	23.05	21.23	22.15	21.69	22.59	23.05
	12H	21.36	22.18	21.84	22.66	23.12	21.36	22.18	21.84	22.66	23.12
8H	4H	20.78	21.69	21.23	22.13	22.59	20.78	21.69	21.23	22.13	22.59
	6H	21.47	22.23	21.96	22.72	23.19	21.47	22.23	21.96	22.72	23.19
	8H	21.72	22.40	22.23	22.91	23.39	21.72	22.40	22.23	22.91	23.39
	12H	21.91	22.52	22.42	23.01	23.56	21.91	22.52	22.42	23.01	23.56
12H	4H	20.81	21.63	21.29	22.10	22.57	20.81	21.63	21.29	22.10	22.57
	6H	21.52	22.21	22.03	22.71	23.19	21.52	22.21	22.03	22.71	23.19
	8H	21.83	22.43	22.33	22.92	23.48	21.83	22.43	22.33	22.92	23.48