

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: P866045

Luminaire Tested: PRLX-2001-M-935-35L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-35L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

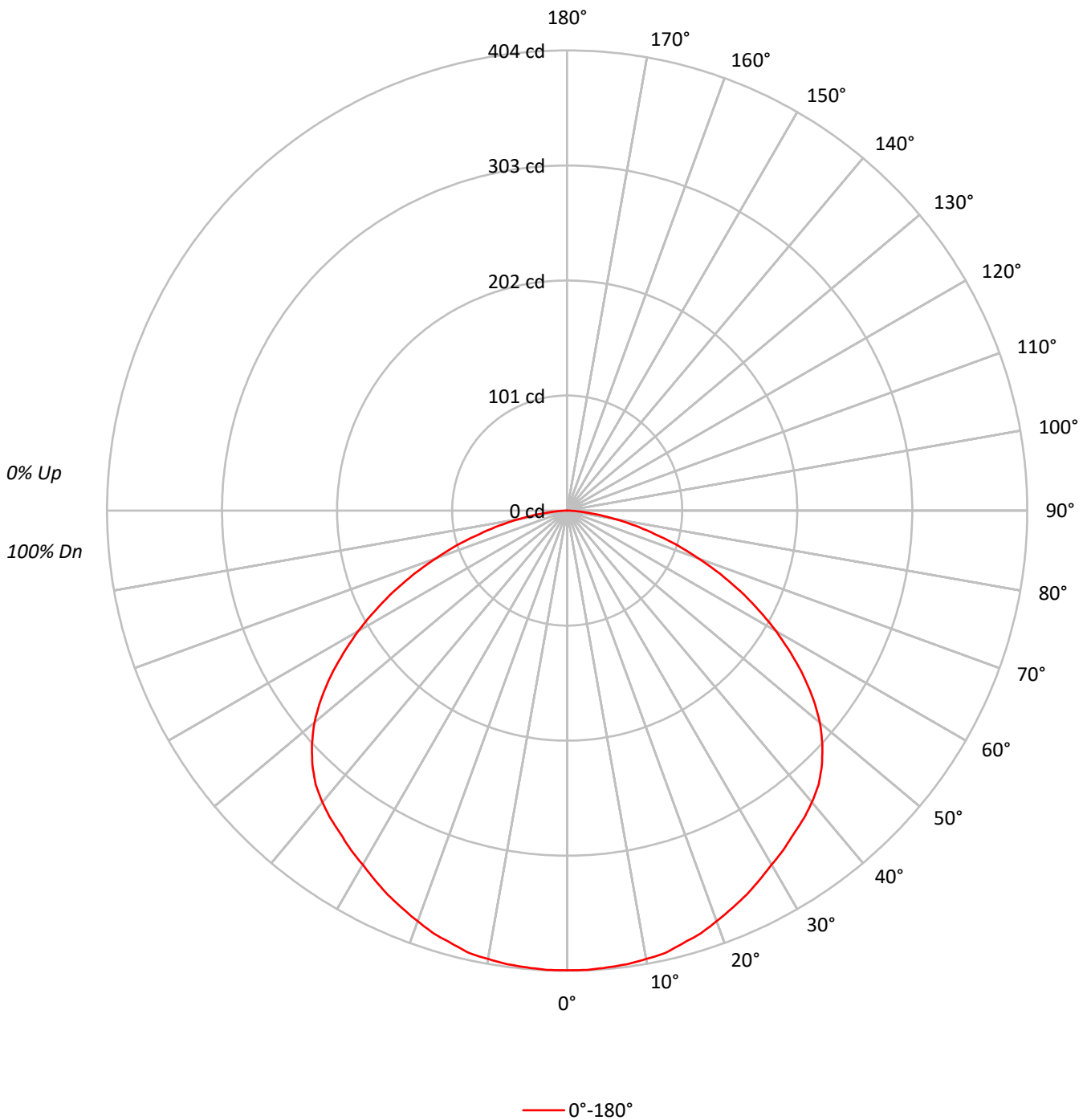
Lumens per Lamp: N/A
Luminaire Lumens: 1277.1 lumens
Efficiency: N/A
Efficacy: 42.6 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.333 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	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3425
5°	3430
10°	3445
15°	3454
20°	3465
25°	3486
30°	3518
35°	3592
40°	3703
45°	3796
50°	3825
55°	3752
60°	3595
65°	3375
70°	3039
75°	2616
80°	2087
85°	1295

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 3825 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	3.0
10°-20°	111.2	8.7
20°-30°	171.8	13.5
30°-40°	217.6	17.0
40°-50°	243.3	19.0
50°-60°	225.8	17.7
60°-70°	165.8	13.0
70°-80°	85.6	6.7
80°-90°	17.7	1.4
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°	321.3	25.2
0°-40°	538.9	42.2
0°-60°	1008.0	78.9
0°-90°	1277.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1277.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	404	
5°	403	38
15°	393	111
25°	372	172
35°	347	218
45°	316	243
55°	254	226
65°	168	166
75°	80	86
85°	13	18
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	403.6
2.5°	403.6
5°	402.7
7.5°	401.7
10°	399.8
12.5°	397.9
15°	393.2
17.5°	389.4
20°	383.7
22.5°	378.0
25°	372.3
27.5°	365.7
30°	359.0
32.5°	353.3
35°	346.7
37.5°	341.0
40°	334.3
42.5°	326.7
45°	316.3
47.5°	303.9
50°	289.7
52.5°	272.6
55°	253.6
57.5°	232.7
60°	211.8
62.5°	189.9
65°	168.1
67.5°	145.3
70°	122.5
72.5°	101.6
75°	79.8
77.5°	60.8
80°	42.7
82.5°	26.6
85°	13.3
87.5°	3.8
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	16.99	18.66	17.36	18.97	19.29	16.99	18.66	17.36	18.97	19.29
	3H	18.63	20.14	19.01	20.46	20.82	18.63	20.14	19.01	20.46	20.82
	4H	19.18	20.60	19.57	20.94	21.32	19.18	20.60	19.57	20.94	21.32
	6H	19.52	20.84	19.93	21.20	21.59	19.52	20.84	19.93	21.20	21.59
	8H	19.60	20.86	20.02	21.25	21.64	19.60	20.86	20.02	21.25	21.64
	12H	19.63	20.84	20.06	21.22	21.65	19.63	20.84	20.06	21.22	21.65
4H	2H	17.60	19.02	18.00	19.37	19.74	17.60	19.02	18.00	19.37	19.74
	3H	19.44	20.63	19.85	21.02	21.42	19.44	20.63	19.85	21.02	21.42
	4H	20.09	21.17	20.52	21.58	22.01	20.09	21.17	20.52	21.58	22.01
	6H	20.54	21.48	20.99	21.92	22.37	20.54	21.48	20.99	21.92	22.37
	8H	20.65	21.53	21.11	21.97	22.43	20.65	21.53	21.11	21.97	22.43
	12H	20.71	21.50	21.19	21.97	22.44	20.71	21.50	21.19	21.97	22.44
8H	4H	20.34	21.22	20.80	21.66	22.13	20.34	21.22	20.80	21.66	22.13
	6H	20.88	21.60	21.37	22.09	22.56	20.88	21.60	21.37	22.09	22.56
	8H	21.03	21.68	21.54	22.19	22.67	21.03	21.68	21.54	22.19	22.67
	12H	21.13	21.70	21.63	22.19	22.75	21.13	21.70	21.63	22.19	22.75
12H	4H	20.36	21.15	20.84	21.62	22.09	20.36	21.15	20.84	21.62	22.09
	6H	20.90	21.55	21.41	22.06	22.54	20.90	21.55	21.41	22.06	22.54
	8H	21.10	21.67	21.60	22.16	22.72	21.10	21.67	21.60	22.16	22.72