

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: P866050

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-35L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

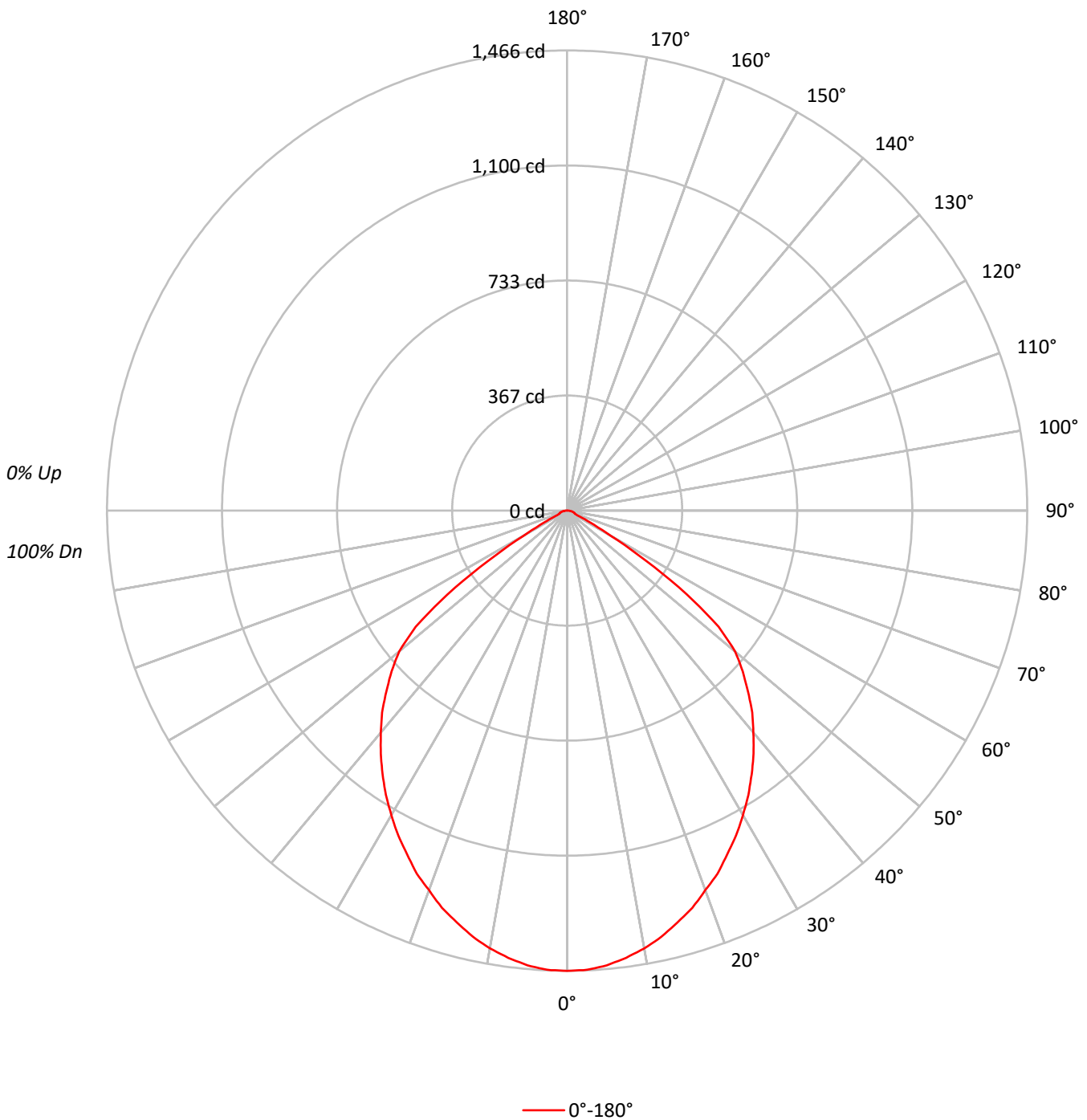
Lumens per Lamp: N/A
Luminaire Lumens: 2832.9 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.5 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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65		73	68	64		71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51		61	55	51		60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42		52	46	41		51	45	41	39
9	63	51	43	38	61	50	43	38	49	42	38		48	42	38		47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34		44	39	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12444
5°	12387
10°	12202
15°	11931
20°	11622
25°	11302
30°	10973
35°	10616
40°	10227
45°	9768
50°	9216
55°	6899
60°	2724
65°	743
70°	635
75°	685
80°	743
85°	740

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9768 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	4.9
10°-20°	382.7	13.5
20°-30°	556.5	19.6
30°-40°	640.8	22.6
40°-50°	628.0	22.2
50°-60°	399.0	14.1
60°-70°	58.1	2.1
70°-80°	21.9	0.8
80°-90°	8.3	0.3
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°	1076.7	38.0
0°-40°	1717.6	60.6
0°-60°	2744.6	96.9
0°-90°	2832.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2832.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1466	
5°	1454	138
15°	1358	383
25°	1207	556
35°	1025	641
45°	814	628
55°	466	399
65°	37	58
75°	21	22
85°	8	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1466.4
2.5°	1464.5
5°	1454.1
7.5°	1437.0
10°	1416.1
12.5°	1390.4
15°	1358.1
17.5°	1326.8
20°	1286.9
22.5°	1251.8
25°	1207.1
27.5°	1166.3
30°	1119.8
32.5°	1074.2
35°	1024.8
37.5°	975.4
40°	923.2
42.5°	872.8
45°	813.9
47.5°	758.8
50°	698.1
52.5°	607.8
55°	466.3
57.5°	297.3
60°	160.5
62.5°	80.7
65°	37.0
67.5°	26.6
70°	25.6
72.5°	23.7
75°	20.9
77.5°	18.0
80°	15.2
82.5°	11.4
85°	7.6
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	16.07	17.47	16.43	17.78	18.10	16.07	17.47	16.43	17.78	18.10
	3H	16.00	17.23	16.38	17.56	17.92	16.00	17.23	16.38	17.56	17.92
	4H	15.97	17.12	16.38	17.47	17.85	15.97	17.12	16.38	17.47	17.85
	6H	15.95	17.00	16.37	17.37	17.77	15.95	17.00	16.37	17.37	17.77
	8H	15.94	16.93	16.37	17.32	17.73	15.94	16.93	16.37	17.32	17.73
	12H	15.92	16.87	16.35	17.25	17.68	15.92	16.87	16.35	17.25	17.68
4H	2H	15.91	17.05	16.31	17.40	17.79	15.91	17.05	16.31	17.40	17.79
	3H	15.87	16.79	16.28	17.20	17.60	15.87	16.79	16.28	17.20	17.60
	4H	15.86	16.68	16.29	17.10	17.54	15.86	16.68	16.29	17.10	17.54
	6H	15.87	16.58	16.33	17.02	17.49	15.87	16.58	16.33	17.02	17.49
	8H	15.86	16.52	16.33	16.97	17.44	15.86	16.52	16.33	16.97	17.44
	12H	15.85	16.44	16.34	16.92	17.39	15.85	16.44	16.34	16.92	17.39
8H	4H	15.77	16.43	16.23	16.87	17.34	15.77	16.43	16.23	16.87	17.34
	6H	15.78	16.33	16.29	16.83	17.31	15.78	16.33	16.29	16.83	17.31
	8H	15.79	16.29	16.31	16.80	17.29	15.79	16.29	16.31	16.80	17.29
	12H	15.80	16.25	16.31	16.74	17.31	15.80	16.25	16.31	16.74	17.31
12H	4H	15.73	16.32	16.21	16.80	17.27	15.73	16.32	16.21	16.80	17.27
	6H	15.74	16.24	16.26	16.75	17.24	15.74	16.24	16.26	16.75	17.24
	8H	15.77	16.21	16.28	16.71	17.28	15.77	16.21	16.28	16.71	17.28