

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: P866079

Luminaire Tested: PRLX-2001-M-935-75L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-M-935-75L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

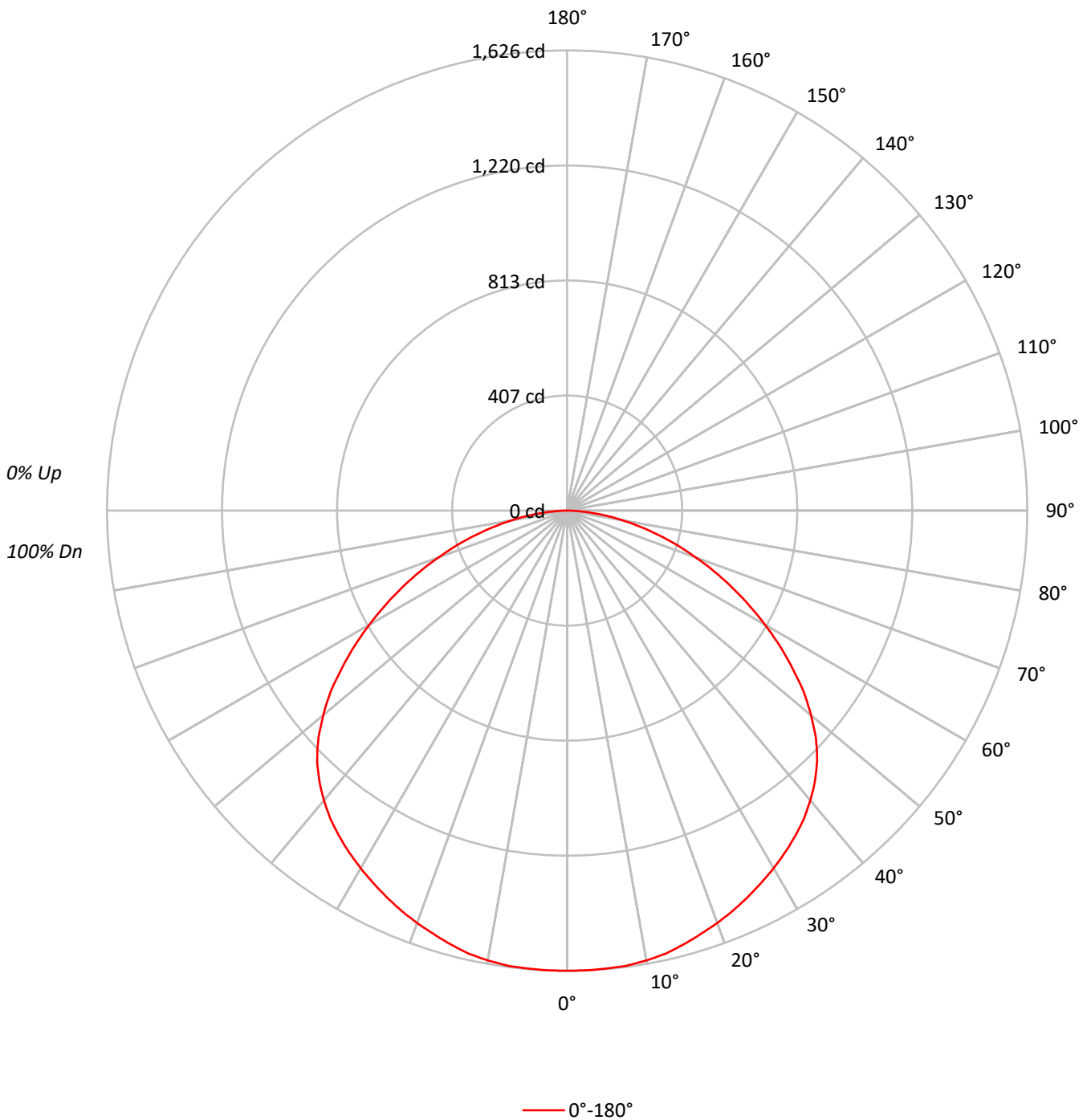
Lumens per Lamp: N/A
Luminaire Lumens: 5097.7 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	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	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13799
5°	13835
10°	13907
15°	13946
20°	14005
25°	14121
30°	14298
35°	14548
40°	14812
45°	14996
50°	14857
55°	14392
60°	13713
65°	12913
70°	11967
75°	11010
80°	9744
85°	7926

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14996 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	3.0
10°-20°	448.5	8.8
20°-30°	696.2	13.7
30°-40°	879.4	17.3
40°-50°	960.0	18.8
50°-60°	868.6	17.0
60°-70°	637.3	12.5
70°-80°	356.0	7.0
80°-90°	96.9	1.9
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°	1299.5	25.5
0°-40°	2178.9	42.7
0°-60°	4007.5	78.6
0°-90°	5097.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5097.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1626	
5°	1624	155
15°	1587	449
25°	1508	696
35°	1404	879
45°	1250	960
55°	973	869
65°	643	637
75°	336	356
85°	81	97
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1626.1
2.5°	1626.1
5°	1624.1
7.5°	1622.0
10°	1613.9
12.5°	1603.7
15°	1587.4
17.5°	1569.1
20°	1550.8
22.5°	1530.4
25°	1508.1
27.5°	1483.6
30°	1459.2
32.5°	1432.8
35°	1404.3
37.5°	1373.7
40°	1337.1
42.5°	1296.4
45°	1249.6
47.5°	1192.6
50°	1125.4
52.5°	1054.2
55°	972.8
57.5°	891.4
60°	808.0
62.5°	724.5
65°	643.1
67.5°	563.7
70°	482.3
72.5°	409.1
75°	335.8
77.5°	264.6
80°	199.4
82.5°	138.4
85°	81.4
87.5°	36.6
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	21.52	23.18	21.88	23.49	23.81	21.52	23.18	21.88	23.49	23.81
	3H	23.21	24.71	23.58	25.04	25.40	23.21	24.71	23.58	25.04	25.40
	4H	23.84	25.25	24.23	25.60	25.98	23.84	25.25	24.23	25.60	25.98
	6H	24.29	25.60	24.70	25.97	26.36	24.29	25.60	24.70	25.97	26.36
	8H	24.43	25.69	24.86	26.08	26.48	24.43	25.69	24.86	26.08	26.48
	12H	24.52	25.73	24.95	26.11	26.54	24.52	25.73	24.95	26.11	26.54
4H	2H	22.12	23.54	22.52	23.89	24.26	22.12	23.54	22.52	23.89	24.26
	3H	24.03	25.22	24.44	25.62	26.02	24.03	25.22	24.44	25.62	26.02
	4H	24.79	25.86	25.22	26.27	26.71	24.79	25.86	25.22	26.27	26.71
	6H	25.37	26.31	25.82	26.75	27.20	25.37	26.31	25.82	26.75	27.20
	8H	25.56	26.44	26.02	26.88	27.34	25.56	26.44	26.02	26.88	27.34
	12H	25.69	26.48	26.17	26.96	27.42	25.69	26.48	26.17	26.96	27.42
8H	4H	25.08	25.96	25.54	26.41	26.87	25.08	25.96	25.54	26.41	26.87
	6H	25.78	26.51	26.27	27.00	27.47	25.78	26.51	26.27	27.00	27.47
	8H	26.04	26.70	26.55	27.20	27.69	26.04	26.70	26.55	27.20	27.69
	12H	26.24	26.82	26.74	27.31	27.87	26.24	26.82	26.74	27.31	27.87
12H	4H	25.11	25.91	25.59	26.38	26.85	25.11	25.91	25.59	26.38	26.85
	6H	25.83	26.49	26.34	27.00	27.48	25.83	26.49	26.34	27.00	27.48
	8H	26.14	26.73	26.65	27.22	27.78	26.14	26.73	26.65	27.22	27.78