

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: P866594

Luminaire Tested: PRLX-2004-M-935-75L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-56)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-935-75L-L-U-S-X-X-GREY-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

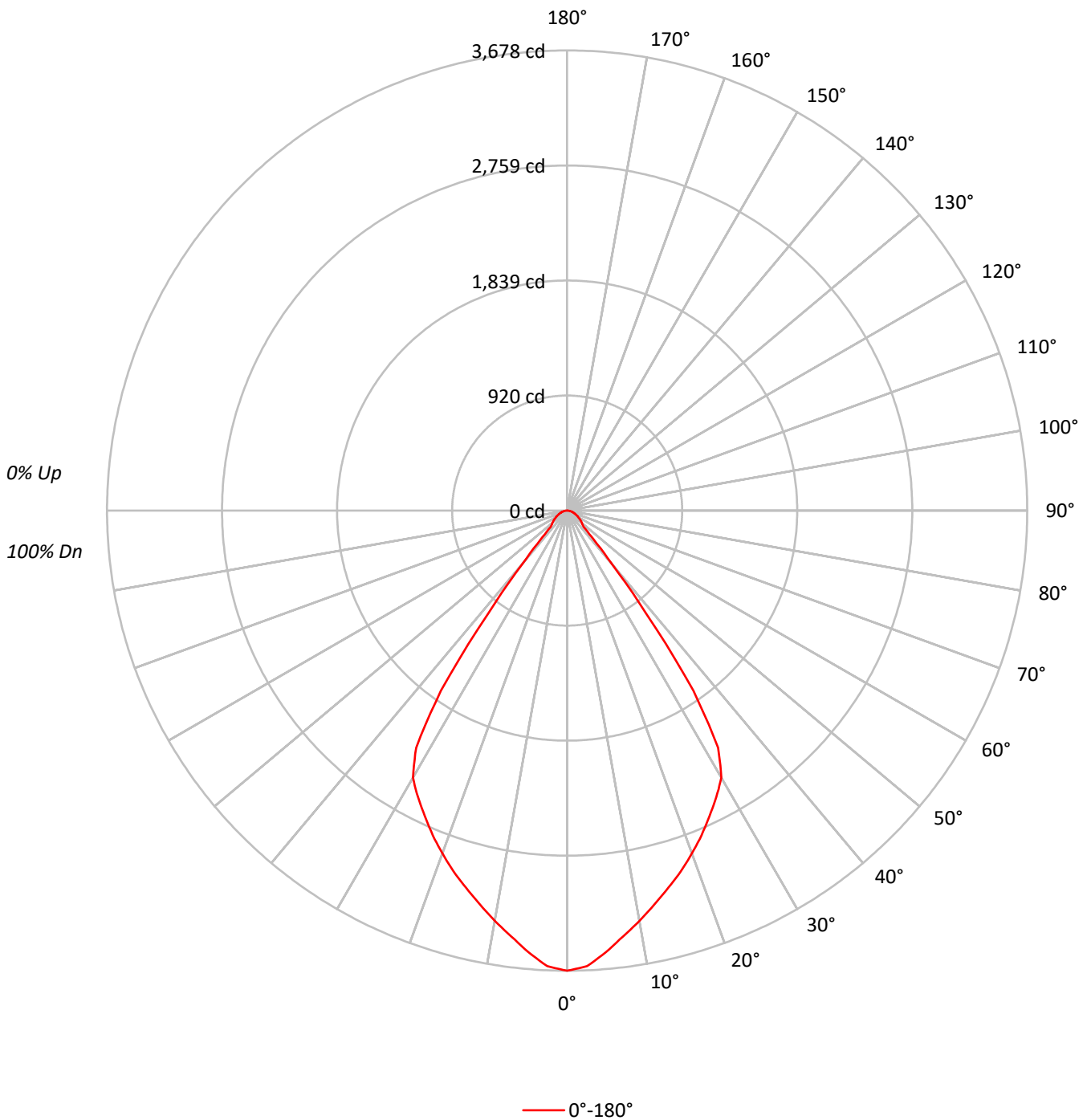
Lumens per Lamp: N/A
Luminaire Lumens: 3896.0 lumens
Efficiency: N/A
Efficacy: 55.9 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	76	93	85	80	76	83	78	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	71	67	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	57	54	53
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	51	49
10	68	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29257
5°	28297
10°	26897
15°	25713
20°	24691
25°	23635
30°	22641
35°	17078
40°	5686
45°	2106
50°	1915
55°	1750
60°	1586
65°	1455
70°	1372
75°	1313
80°	1214
85°	1114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2106 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.4	8.5
10°-20°	879.3	22.6
20°-30°	1240.6	31.8
30°-40°	1002.7	25.7
40°-50°	191.9	4.9
50°-60°	113.4	2.9
60°-70°	77.5	2.0
70°-80°	45.1	1.2
80°-90°	14.1	0.4
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°	2451.3	62.9
0°-40°	3453.9	88.7
0°-60°	3759.3	96.5
0°-90°	3896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3896.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3678	
5°	3543	331
15°	3122	879
25°	2692	1241
35°	1758	1003
45°	187	192
55°	126	113
65°	77	77
75°	43	45
85°	12	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3677.5
2.5°	3645.0
5°	3543.2
7.5°	3431.3
10°	3329.5
12.5°	3223.7
15°	3121.9
17.5°	3022.2
20°	2916.4
22.5°	2808.5
25°	2692.5
27.5°	2582.6
30°	2464.6
32.5°	2246.8
35°	1758.4
37.5°	1037.9
40°	547.5
42.5°	307.3
45°	187.2
47.5°	164.8
50°	154.7
52.5°	140.4
55°	126.2
57.5°	114.0
60°	99.7
62.5°	89.5
65°	77.3
67.5°	67.2
70°	59.0
72.5°	50.9
75°	42.7
77.5°	34.6
80°	26.5
82.5°	20.4
85°	12.2
87.5°	6.1
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	8.70	9.75	9.07	10.06	10.38	8.70	9.75	9.07	10.06	10.38
	3H	10.16	11.09	10.54	11.42	11.79	10.16	11.09	10.54	11.42	11.79
	4H	10.77	11.63	11.17	11.98	12.37	10.77	11.63	11.17	11.98	12.37
	6H	11.22	12.01	11.64	12.39	12.78	11.22	12.01	11.64	12.39	12.78
	8H	11.39	12.13	11.83	12.53	12.93	11.39	12.13	11.83	12.53	12.93
	12H	11.50	12.20	11.93	12.59	13.02	11.50	12.20	11.93	12.59	13.02
4H	2H	9.12	9.98	9.52	10.33	10.72	9.12	9.98	9.52	10.33	10.72
	3H	10.82	11.52	11.23	11.93	12.33	10.82	11.52	11.23	11.93	12.33
	4H	11.55	12.18	11.99	12.61	13.05	11.55	12.18	11.99	12.61	13.05
	6H	12.14	12.68	12.61	13.13	13.61	12.14	12.68	12.61	13.13	13.61
	8H	12.36	12.87	12.84	13.32	13.79	12.36	12.87	12.84	13.32	13.79
	12H	12.51	12.95	13.00	13.44	13.91	12.51	12.95	13.00	13.44	13.91
8H	4H	11.78	12.28	12.25	12.73	13.21	11.78	12.28	12.25	12.73	13.21
	6H	12.51	12.91	13.02	13.41	13.90	12.51	12.91	13.02	13.41	13.90
	8H	12.82	13.18	13.35	13.70	14.19	12.82	13.18	13.35	13.70	14.19
	12H	13.06	13.37	13.58	13.87	14.45	13.06	13.37	13.58	13.87	14.45
12H	4H	11.78	12.22	12.27	12.71	13.18	11.78	12.22	12.27	12.71	13.18
	6H	12.55	12.91	13.08	13.43	13.92	12.55	12.91	13.08	13.43	13.92
	8H	12.93	13.23	13.45	13.73	14.31	12.93	13.23	13.45	13.73	14.31