

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: P866078

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-75L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

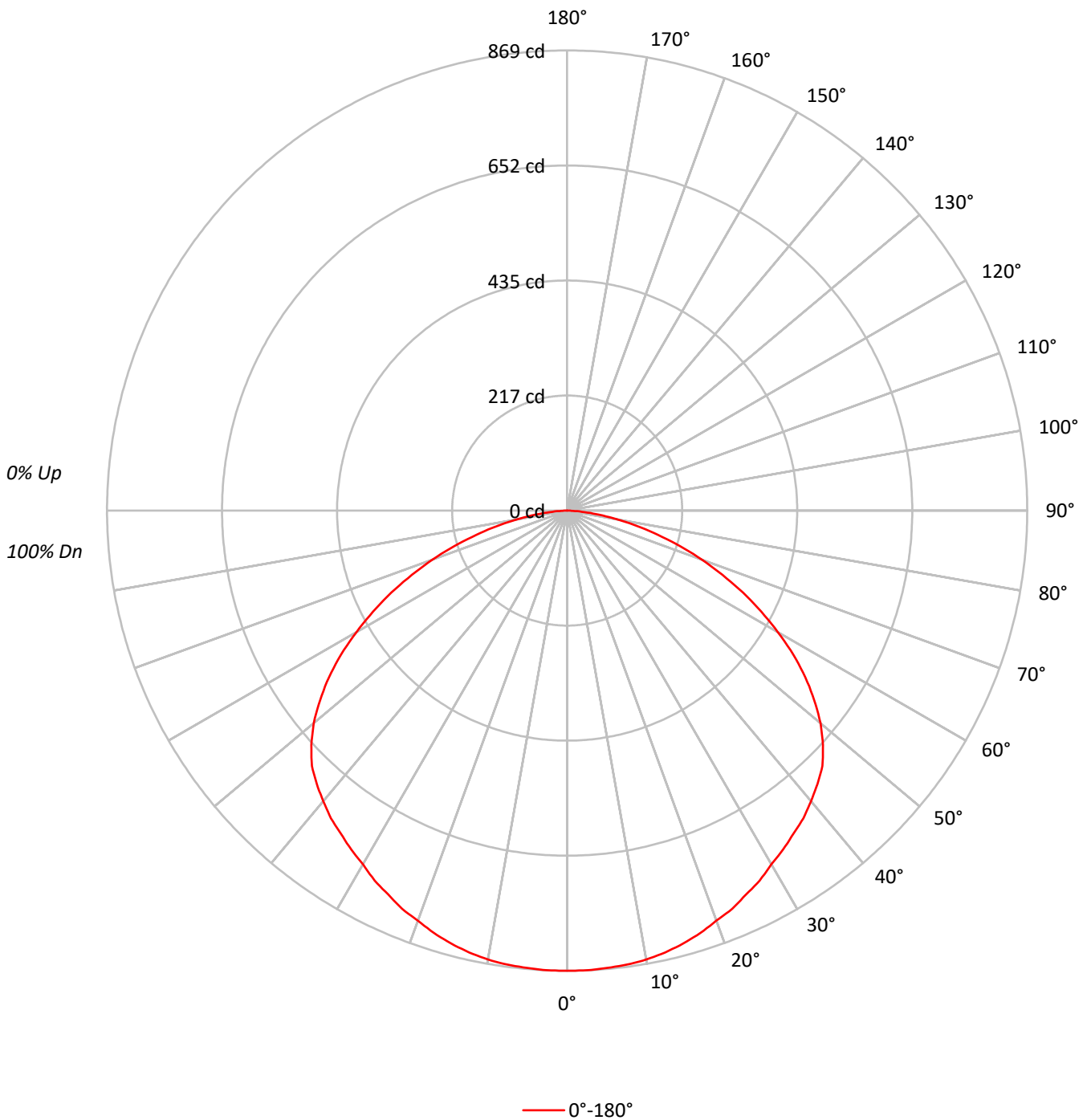
Lumens per Lamp: N/A
Luminaire Lumens: 2763.7 lumens
Efficiency: N/A
Efficacy: 39.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 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: 0.5 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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	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	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7374
5°	7385
10°	7418
15°	7438
20°	7443
25°	7489
30°	7558
35°	7717
40°	7936
45°	8182
50°	8249
55°	8130
60°	7805
65°	7355
70°	6716
75°	5807
80°	4677
85°	3174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 8249 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	3.0
10°-20°	239.0	8.6
20°-30°	369.5	13.4
30°-40°	467.4	16.9
40°-50°	523.3	18.9
50°-60°	489.1	17.7
60°-70°	361.7	13.1
70°-80°	189.9	6.9
80°-90°	41.3	1.5
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°	691.1	25.0
0°-40°	1158.5	41.9
0°-60°	2170.9	78.6
0°-90°	2763.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2763.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	869	
5°	867	83
15°	847	239
25°	800	369
35°	745	467
45°	682	523
55°	550	489
65°	366	362
75°	177	190
85°	33	41
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	869.0
2.5°	869.0
5°	867.0
7.5°	864.9
10°	860.9
12.5°	854.8
15°	846.6
17.5°	836.5
20°	824.2
22.5°	814.1
25°	799.8
27.5°	787.6
30°	771.3
32.5°	759.1
35°	744.9
37.5°	732.7
40°	716.4
42.5°	700.1
45°	681.8
47.5°	655.3
50°	624.8
52.5°	588.2
55°	549.5
57.5°	506.8
60°	459.9
62.5°	413.1
65°	366.3
67.5°	317.5
70°	270.7
72.5°	223.9
75°	177.1
77.5°	136.4
80°	95.7
82.5°	61.1
85°	32.6
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	19.71	21.38	20.07	21.70	22.01	19.71	21.38	20.07	21.70	22.01
	3H	21.37	22.88	21.75	23.21	23.57	21.37	22.88	21.75	23.21	23.57
	4H	21.93	23.36	22.33	23.70	24.08	21.93	23.36	22.33	23.70	24.08
	6H	22.29	23.62	22.71	23.98	24.37	22.29	23.62	22.71	23.98	24.37
	8H	22.38	23.65	22.81	24.03	24.43	22.38	23.65	22.81	24.03	24.43
	12H	22.43	23.64	22.86	24.02	24.45	22.43	23.64	22.86	24.02	24.45
4H	2H	20.32	21.74	20.72	22.09	22.46	20.32	21.74	20.72	22.09	22.46
	3H	22.19	23.38	22.60	23.78	24.18	22.19	23.38	22.60	23.78	24.18
	4H	22.86	23.94	23.29	24.35	24.78	22.86	23.94	23.29	24.35	24.78
	6H	23.33	24.27	23.78	24.71	25.16	23.33	24.27	23.78	24.71	25.16
	8H	23.45	24.33	23.91	24.77	25.24	23.45	24.33	23.91	24.77	25.24
	12H	23.52	24.31	24.00	24.79	25.26	23.52	24.31	24.00	24.79	25.26
8H	4H	23.12	24.00	23.58	24.44	24.91	23.12	24.00	23.58	24.44	24.91
	6H	23.68	24.41	24.17	24.90	25.37	23.68	24.41	24.17	24.90	25.37
	8H	23.85	24.50	24.35	25.01	25.49	23.85	24.50	24.35	25.01	25.49
	12H	23.96	24.54	24.47	25.03	25.59	23.96	24.54	24.47	25.03	25.59
12H	4H	23.14	23.93	23.62	24.41	24.88	23.14	23.93	23.62	24.41	24.88
	6H	23.70	24.36	24.21	24.87	25.35	23.70	24.36	24.21	24.87	25.35
	8H	23.92	24.50	24.42	24.99	25.55	23.92	24.50	24.42	24.99	25.55