

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: P866842

Luminaire Tested: PRLX-2001-L-935-67L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-67L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

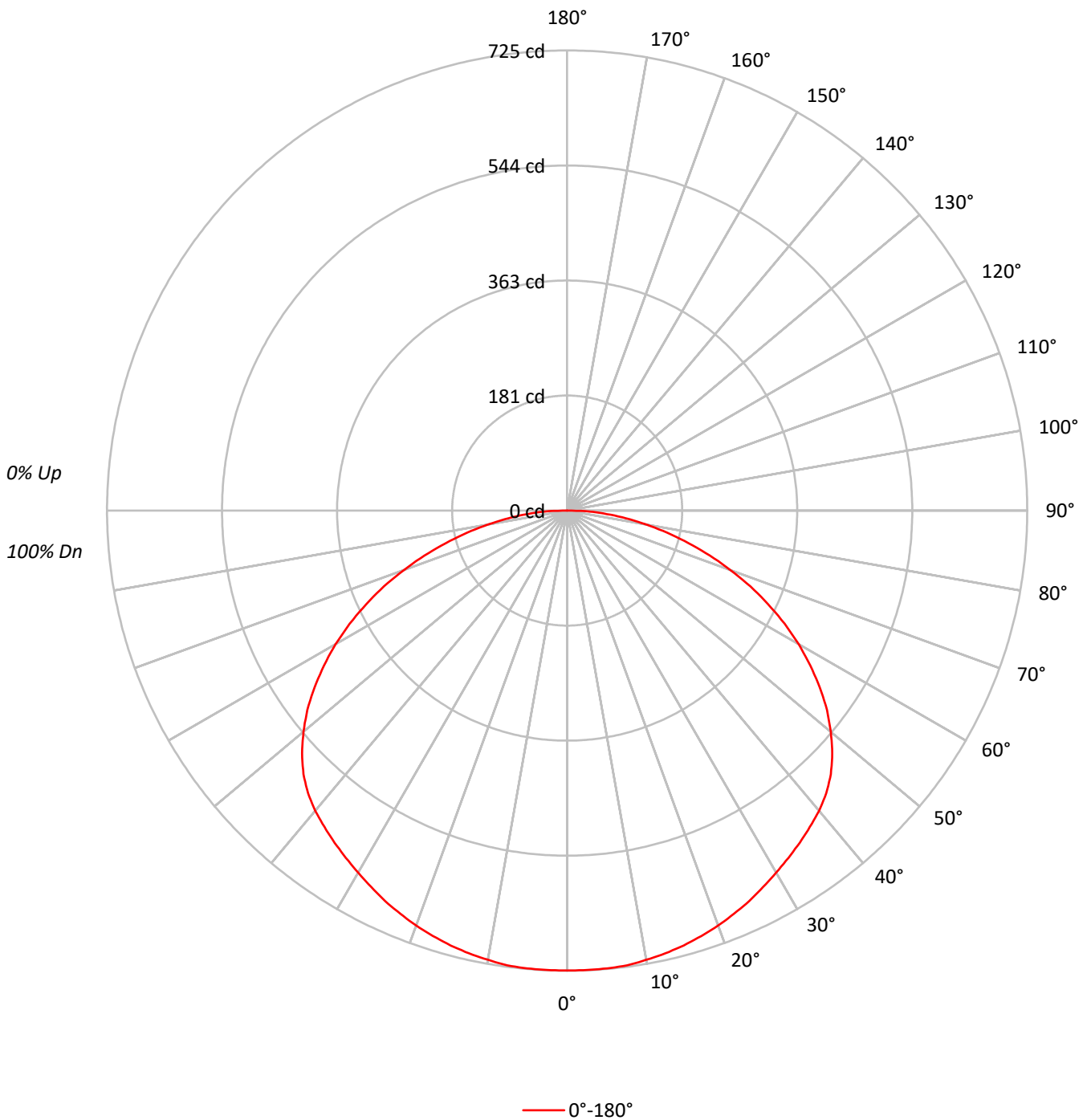
Lumens per Lamp: N/A
Luminaire Lumens: 2493.5 lumens
Efficiency: N/A
Efficacy: 49.5 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): 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	108	103	98	94	105	100	96	92	96	93	89		92	89	87		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3961
5°	3973
10°	3990
15°	4014
20°	4048
25°	4094
30°	4158
35°	4263
40°	4407
45°	4543
50°	4613
55°	4632
60°	4606
65°	4522
70°	4368
75°	4182
80°	3976
85°	3945

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 4633 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	2.8
10°-20°	200.5	8.0
20°-30°	313.3	12.6
30°-40°	400.6	16.1
40°-50°	451.9	18.1
50°-60°	433.6	17.4
60°-70°	345.4	13.9
70°-80°	209.7	8.4
80°-90°	69.5	2.8
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°	582.8	23.4
0°-40°	983.4	39.4
0°-60°	1868.9	75.0
0°-90°	2493.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2493.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	725	
5°	724	69
15°	709	200
25°	679	313
35°	639	401
45°	588	452
55°	486	434
65°	350	345
75°	198	210
85°	63	69
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	724.6
2.5°	724.6
5°	724.0
7.5°	722.8
10°	718.7
12.5°	714.6
15°	709.3
17.5°	702.8
20°	695.8
22.5°	687.5
25°	678.7
27.5°	668.7
30°	658.7
32.5°	648.7
35°	638.8
37.5°	628.2
40°	617.6
42.5°	604.1
45°	587.6
47.5°	566.5
50°	542.4
52.5°	515.9
55°	486.0
57.5°	454.2
60°	421.3
62.5°	386.1
65°	349.6
67.5°	312.6
70°	273.3
72.5°	235.6
75°	198.0
77.5°	161.6
80°	126.3
82.5°	93.4
85°	62.9
87.5°	35.8
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	17.74	19.45	18.10	19.76	20.08	17.74	19.45	18.10	19.76	20.08
	3H	19.70	21.26	20.08	21.58	21.94	19.70	21.26	20.08	21.58	21.94
	4H	20.46	21.93	20.86	22.28	22.65	20.46	21.93	20.86	22.28	22.65
	6H	21.06	22.42	21.47	22.79	23.18	21.06	22.42	21.47	22.79	23.18
	8H	21.28	22.58	21.70	22.97	23.37	21.28	22.58	21.70	22.97	23.37
	12H	21.45	22.70	21.88	23.08	23.51	21.45	22.70	21.88	23.08	23.51
4H	2H	18.43	19.90	18.83	20.25	20.62	18.43	19.90	18.83	20.25	20.62
	3H	20.61	21.85	21.02	22.25	22.65	20.61	21.85	21.02	22.25	22.65
	4H	21.51	22.64	21.94	23.05	23.48	21.51	22.64	21.94	23.05	23.48
	6H	22.25	23.24	22.70	23.68	24.13	22.25	23.24	22.70	23.68	24.13
	8H	22.53	23.45	22.98	23.89	24.36	22.53	23.45	22.98	23.89	24.36
	12H	22.76	23.60	23.24	24.07	24.54	22.76	23.60	23.24	24.07	24.54
8H	4H	21.87	22.80	22.33	23.24	23.71	21.87	22.80	22.33	23.24	23.71
	6H	22.76	23.53	23.25	24.02	24.49	22.76	23.53	23.25	24.02	24.49
	8H	23.12	23.82	23.63	24.33	24.81	23.12	23.82	23.63	24.33	24.81
	12H	23.45	24.07	23.96	24.56	25.12	23.45	24.07	23.96	24.56	25.12
12H	4H	21.93	22.76	22.40	23.24	23.70	21.93	22.76	22.40	23.24	23.70
	6H	22.84	23.54	23.34	24.04	24.52	22.84	23.54	23.34	24.04	24.52
	8H	23.28	23.90	23.78	24.38	24.94	23.28	23.90	23.78	24.38	24.94