

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: P866906

Luminaire Tested: PRLX-2001-L-940-67L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866906
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-940-67L-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

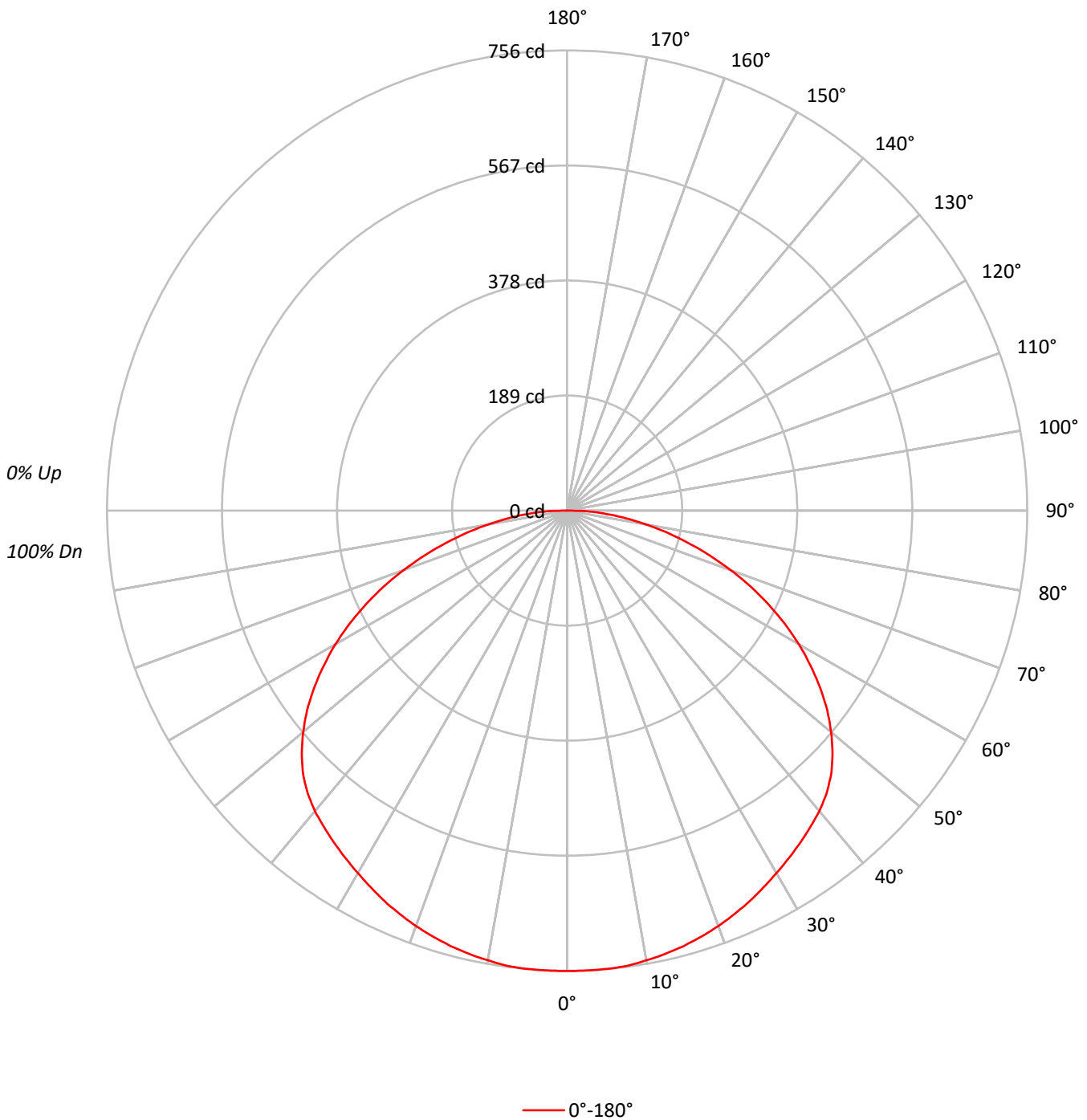
Lumens per Lamp: N/A
Luminaire Lumens: 2603.2 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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°	4135
5°	4148
10°	4165
15°	4191
20°	4226
25°	4274
30°	4341
35°	4450
40°	4602
45°	4743
50°	4815
55°	4835
60°	4810
65°	4722
70°	4560
75°	4366
80°	4153
85°	4115

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 4837 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	2.8
10°-20°	209.3	8.0
20°-30°	327.1	12.6
30°-40°	418.2	16.1
40°-50°	471.8	18.1
50°-60°	452.7	17.4
60°-70°	360.6	13.9
70°-80°	218.9	8.4
80°-90°	72.5	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°	608.4	23.4
0°-40°	1026.6	39.4
0°-60°	1951.1	75.0
0°-90°	2603.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2603.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	756	
5°	756	72
15°	740	209
25°	709	327
35°	667	418
45°	614	472
55°	507	453
65°	365	361
75°	207	219
85°	66	73
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	756.4
2.5°	756.4
5°	755.8
7.5°	754.6
10°	750.3
12.5°	746.0
15°	740.5
17.5°	733.7
20°	726.4
22.5°	717.8
25°	708.6
27.5°	698.1
30°	687.7
32.5°	677.3
35°	666.8
37.5°	655.8
40°	644.8
42.5°	630.7
45°	613.5
47.5°	591.4
50°	566.2
52.5°	538.6
55°	507.3
57.5°	474.2
60°	439.9
62.5°	403.1
65°	365.0
67.5°	326.4
70°	285.3
72.5°	246.0
75°	206.7
77.5°	168.7
80°	131.9
82.5°	97.5
85°	65.6
87.5°	37.4
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	17.89	19.60	18.25	19.91	20.23	17.89	19.60	18.25	19.91	20.23
	3H	19.85	21.41	20.23	21.73	22.09	19.85	21.41	20.23	21.73	22.09
	4H	20.61	22.08	21.01	22.43	22.80	20.61	22.08	21.01	22.43	22.80
	6H	21.21	22.57	21.62	22.94	23.33	21.21	22.57	21.62	22.94	23.33
	8H	21.43	22.73	21.85	23.12	23.52	21.43	22.73	21.85	23.12	23.52
	12H	21.60	22.85	22.03	23.23	23.66	21.60	22.85	22.03	23.23	23.66
4H	2H	18.58	20.05	18.98	20.40	20.77	18.58	20.05	18.98	20.40	20.77
	3H	20.76	22.00	21.17	22.40	22.80	20.76	22.00	21.17	22.40	22.80
	4H	21.66	22.79	22.09	23.20	23.63	21.66	22.79	22.09	23.20	23.63
	6H	22.40	23.39	22.85	23.83	24.28	22.40	23.39	22.85	23.83	24.28
	8H	22.68	23.60	23.13	24.04	24.51	22.68	23.60	23.13	24.04	24.51
	12H	22.91	23.75	23.39	24.22	24.69	22.91	23.75	23.39	24.22	24.69
8H	4H	22.02	22.95	22.48	23.39	23.86	22.02	22.95	22.48	23.39	23.86
	6H	22.91	23.68	23.40	24.17	24.64	22.91	23.68	23.40	24.17	24.64
	8H	23.27	23.97	23.78	24.47	24.96	23.27	23.97	23.78	24.47	24.96
	12H	23.60	24.22	24.11	24.71	25.27	23.60	24.22	24.11	24.71	25.27
12H	4H	22.08	22.91	22.55	23.39	23.85	22.08	22.91	22.55	23.39	23.85
	6H	22.99	23.69	23.49	24.19	24.67	22.99	23.69	23.49	24.19	24.67
	8H	23.43	24.05	23.93	24.53	25.09	23.43	24.05	23.93	24.53	25.09