

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: P867158

Luminaire Tested: PRLX-2002-L-940-67L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-940-67L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

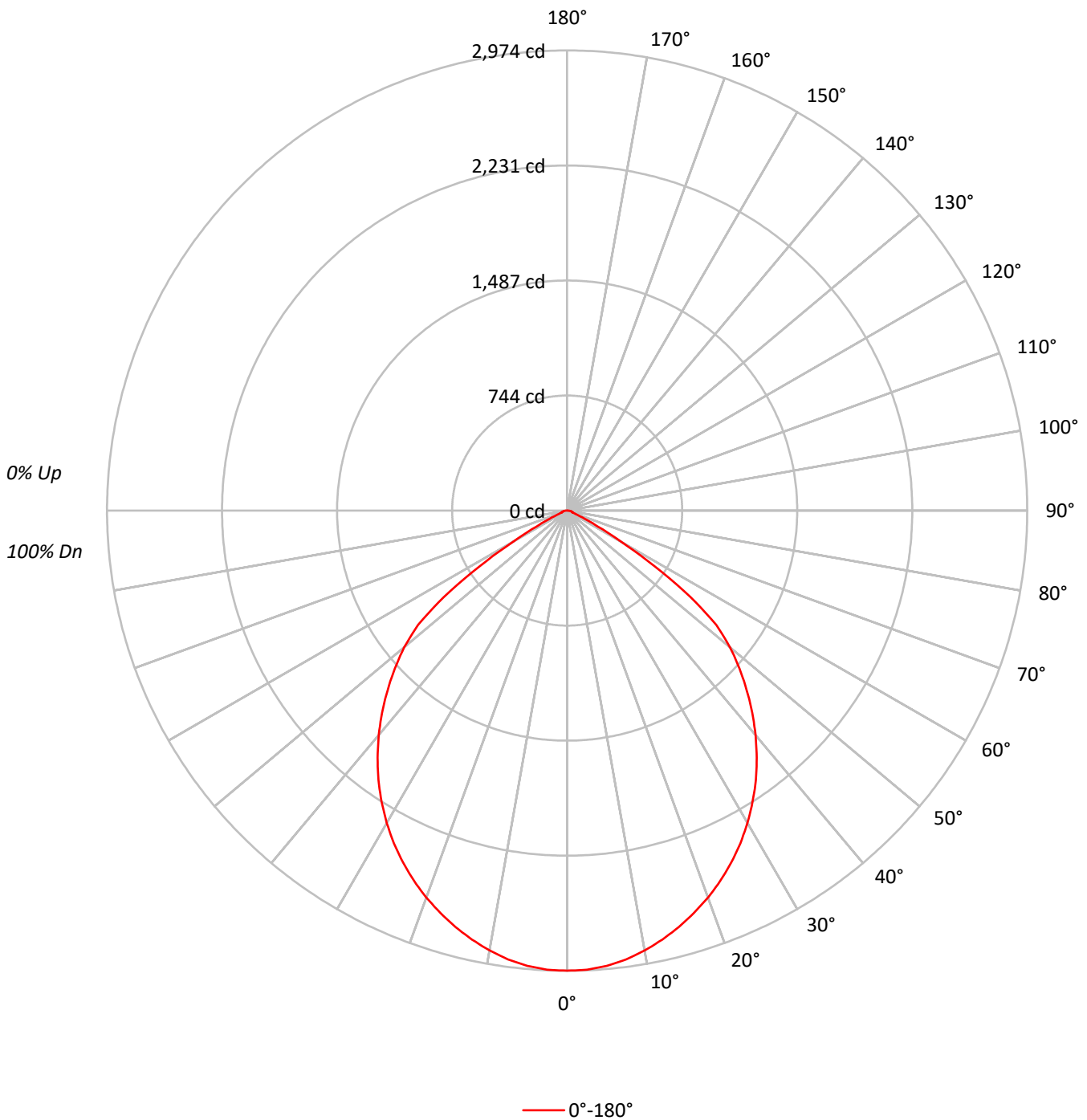
Lumens per Lamp: N/A
Luminaire Lumens: 5844.1 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14671
5°	14627
10°	14464
15°	14233
20°	13973
25°	13666
30°	13281
35°	12810
40°	12197
45°	11446
50°	10548
55°	8385
60°	3947
65°	1425
70°	548
75°	608
80°	696
85°	832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11446 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.8	4.8
10°-20°	785.2	13.4
20°-30°	1155.0	19.8
30°-40°	1327.0	22.7
40°-50°	1263.9	21.6
50°-60°	831.2	14.2
60°-70°	153.5	2.6
70°-80°	33.5	0.6
80°-90°	15.0	0.3
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°	2220.1	38.0
0°-40°	3547.0	60.7
0°-60°	5642.1	96.5
0°-90°	5844.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5844.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2974	
5°	2953	280
15°	2786	785
25°	2510	1155
35°	2127	1327
45°	1640	1264
55°	975	831
65°	122	153
75°	32	34
85°	15	15
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2973.5
2.5°	2970.5
5°	2953.3
7.5°	2925.7
10°	2887.0
12.5°	2839.8
15°	2786.4
17.5°	2726.3
20°	2661.3
22.5°	2588.9
25°	2510.3
27.5°	2424.5
30°	2331.2
32.5°	2231.2
35°	2126.9
37.5°	2012.8
40°	1893.8
42.5°	1771.7
45°	1640.4
47.5°	1510.4
50°	1374.2
52.5°	1214.7
55°	974.8
57.5°	668.1
60°	400.0
62.5°	225.1
65°	122.1
67.5°	61.3
70°	38.0
72.5°	35.0
75°	31.9
77.5°	28.8
80°	24.5
82.5°	20.2
85°	14.7
87.5°	8.0
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	17.32	18.73	17.69	19.04	19.36	17.32	18.73	17.69	19.04	19.36
	3H	17.24	18.48	17.62	18.81	19.17	17.24	18.48	17.62	18.81	19.17
	4H	17.19	18.34	17.59	18.69	19.07	17.19	18.34	17.59	18.69	19.07
	6H	17.15	18.20	17.56	18.57	18.96	17.15	18.20	17.56	18.57	18.96
	8H	17.12	18.12	17.55	18.51	18.91	17.12	18.12	17.55	18.51	18.91
	12H	17.09	18.05	17.53	18.43	18.86	17.09	18.05	17.53	18.43	18.86
4H	2H	17.20	18.35	17.60	18.70	19.08	17.20	18.35	17.60	18.70	19.08
	3H	17.13	18.05	17.54	18.46	18.86	17.13	18.05	17.54	18.46	18.86
	4H	17.08	17.90	17.51	18.32	18.76	17.08	17.90	17.51	18.32	18.76
	6H	17.05	17.76	17.51	18.20	18.67	17.05	17.76	17.51	18.20	18.67
	8H	17.02	17.68	17.49	18.13	18.60	17.02	17.68	17.49	18.13	18.60
	12H	17.00	17.59	17.49	18.07	18.54	17.00	17.59	17.49	18.07	18.54
8H	4H	16.97	17.63	17.43	18.07	18.55	16.97	17.63	17.43	18.07	18.55
	6H	16.93	17.47	17.43	17.97	18.45	16.93	17.47	17.43	17.97	18.45
	8H	16.90	17.40	17.42	17.91	18.40	16.90	17.40	17.42	17.91	18.40
	12H	16.90	17.35	17.41	17.84	18.41	16.90	17.35	17.41	17.84	18.41
12H	4H	16.92	17.51	17.41	17.99	18.47	16.92	17.51	17.41	17.99	18.47
	6H	16.87	17.37	17.39	17.88	18.37	16.87	17.37	17.39	17.88	18.37
	8H	16.87	17.32	17.39	17.81	18.38	16.87	17.32	17.39	17.81	18.38