

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: P867110

Luminaire Tested: PRLX-2002-L-940-100L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867110
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-940-100L-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 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

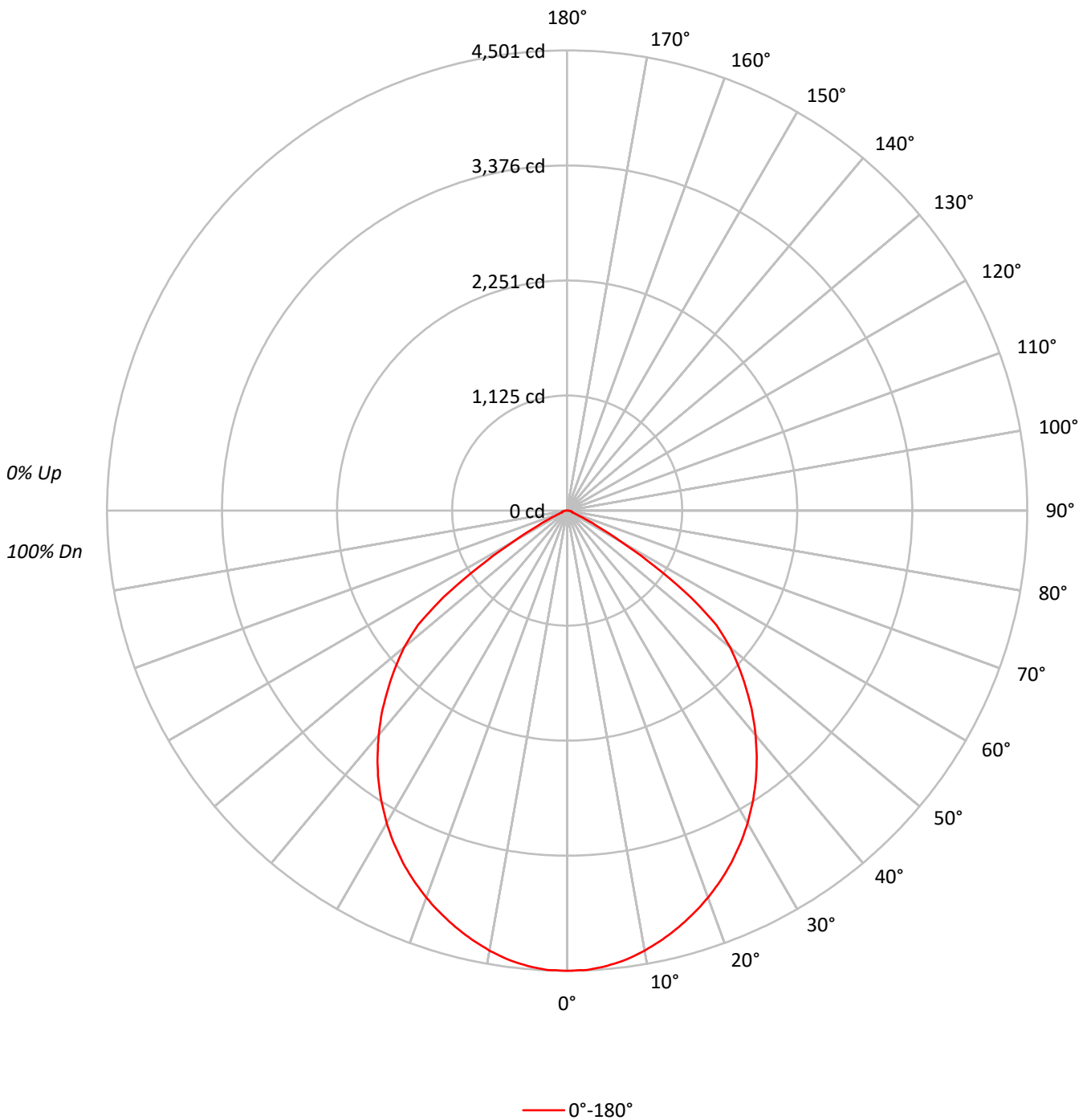
Lumens per Lamp: N/A
Luminaire Lumens: 8847.1 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90				90
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69				69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61				61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54				54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	48				48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43				43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36				36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22209
5°	22142
10°	21896
15°	21546
20°	21153
25°	20688
30°	20106
35°	19393
40°	18465
45°	17327
50°	15968
55°	12694
60°	5975
65°	2157
70°	831
75°	921
80°	1054
85°	1262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17327 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.6	4.8
10°-20°	1188.7	13.4
20°-30°	1748.5	19.8
30°-40°	2008.8	22.7
40°-50°	1913.4	21.6
50°-60°	1258.2	14.2
60°-70°	232.4	2.6
70°-80°	50.7	0.6
80°-90°	22.7	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°	3360.8	38.0
0°-40°	5369.6	60.7
0°-60°	8541.2	96.5
0°-90°	8847.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8847.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4501	
5°	4471	424
15°	4218	1189
25°	3800	1748
35°	3220	2009
45°	2483	1913
55°	1476	1258
65°	185	232
75°	48	51
85°	22	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4501.4
2.5°	4496.8
5°	4470.8
7.5°	4429.0
10°	4370.5
12.5°	4298.9
15°	4218.2
17.5°	4127.1
20°	4028.7
22.5°	3919.1
25°	3800.2
27.5°	3670.2
30°	3529.1
32.5°	3377.7
35°	3219.8
37.5°	3047.1
40°	2866.9
42.5°	2682.1
45°	2483.3
47.5°	2286.5
50°	2080.3
52.5°	1838.8
55°	1475.7
57.5°	1011.4
60°	605.5
62.5°	340.8
65°	184.8
67.5°	92.9
70°	57.6
72.5°	52.9
75°	48.3
77.5°	43.6
80°	37.1
82.5°	30.6
85°	22.3
87.5°	12.1
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	18.76	20.17	19.13	20.48	20.80	18.76	20.17	19.13	20.48	20.80
	3H	18.68	19.92	19.06	20.25	20.61	18.68	19.92	19.06	20.25	20.61
	4H	18.63	19.78	19.04	20.13	20.51	18.63	19.78	19.04	20.13	20.51
	6H	18.59	19.64	19.00	20.01	20.40	18.59	19.64	19.00	20.01	20.40
	8H	18.56	19.56	18.99	19.95	20.35	18.56	19.56	18.99	19.95	20.35
	12H	18.54	19.49	18.97	19.87	20.30	18.54	19.49	18.97	19.87	20.30
4H	2H	18.64	19.79	19.04	20.14	20.52	18.64	19.79	19.04	20.14	20.52
	3H	18.57	19.50	18.98	19.90	20.30	18.57	19.50	18.98	19.90	20.30
	4H	18.52	19.34	18.95	19.76	20.20	18.52	19.34	18.95	19.76	20.20
	6H	18.49	19.20	18.95	19.64	20.11	18.49	19.20	18.95	19.64	20.11
	8H	18.46	19.12	18.93	19.57	20.04	18.46	19.12	18.93	19.57	20.04
	12H	18.44	19.03	18.93	19.51	19.98	18.44	19.03	18.93	19.51	19.98
8H	4H	18.41	19.07	18.87	19.52	19.99	18.41	19.07	18.87	19.52	19.99
	6H	18.37	18.91	18.87	19.41	19.89	18.37	18.91	18.87	19.41	19.89
	8H	18.34	18.84	18.86	19.35	19.85	18.34	18.84	18.86	19.35	19.85
	12H	18.34	18.79	18.85	19.28	19.85	18.34	18.79	18.85	19.28	19.85
12H	4H	18.37	18.95	18.85	19.44	19.91	18.37	18.95	18.85	19.44	19.91
	6H	18.31	18.81	18.83	19.32	19.81	18.31	18.81	18.83	19.32	19.81
	8H	18.31	18.76	18.83	19.25	19.82	18.31	18.76	18.83	19.25	19.82