

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: P867130

Luminaire Tested: PRLX-2002-L-940-133L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-70)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-940-133L-G-X-X-GREY-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

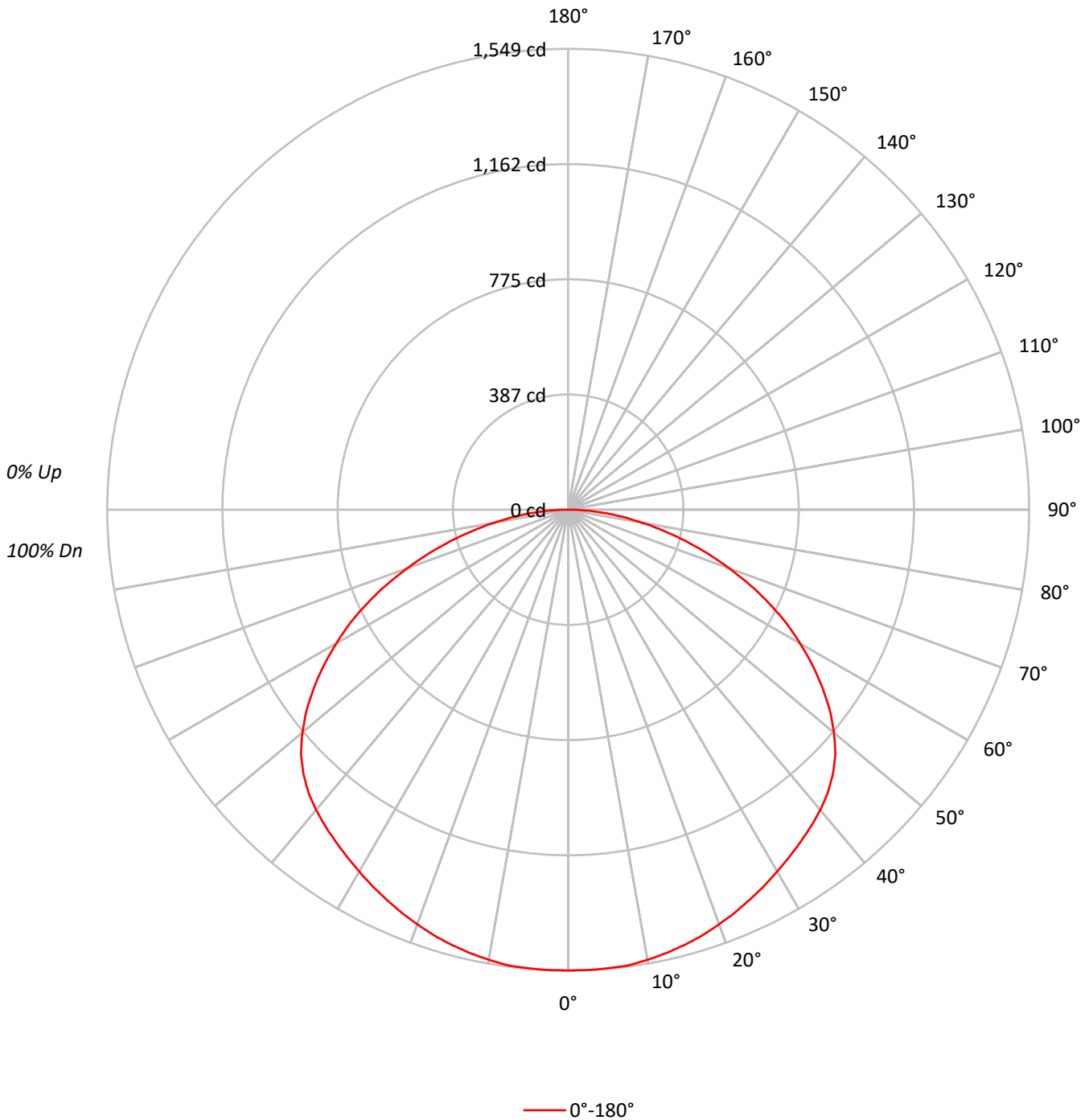
Lumens per Lamp: N/A
Luminaire Lumens: 5296.3 lumens
Efficiency: N/A
Efficacy: 47.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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	108	103	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73	80	75	71	77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	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	50	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	44	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	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	29	24	35	28	23	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7641
5°	7664
10°	7696
15°	7733
20°	7785
25°	7869
30°	8001
35°	8204
40°	8484
45°	8775
50°	8947
55°	8967
60°	8887
65°	8699
70°	8290
75°	7802
80°	7174
85°	6618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 8982 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	2.8
10°-20°	428.0	8.1
20°-30°	667.7	12.6
30°-40°	854.4	16.1
40°-50°	968.0	18.3
50°-60°	930.3	17.6
60°-70°	735.1	13.9
70°-80°	433.5	8.2
80°-90°	131.8	2.5
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°	1243.1	23.5
0°-40°	2097.5	39.6
0°-60°	3995.8	75.4
0°-90°	5296.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5296.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1549	
5°	1547	147
15°	1514	428
25°	1445	668
35°	1362	854
45°	1258	968
55°	1042	930
65°	745	735
75°	409	434
85°	117	132
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1548.7
2.5°	1548.7
5°	1547.4
7.5°	1545.0
10°	1536.2
12.5°	1526.3
15°	1513.9
17.5°	1500.2
20°	1482.8
22.5°	1465.3
25°	1445.4
27.5°	1425.5
30°	1404.4
32.5°	1383.2
35°	1362.1
37.5°	1340.9
40°	1317.3
42.5°	1291.2
45°	1257.6
47.5°	1217.8
50°	1165.6
52.5°	1108.3
55°	1042.4
57.5°	974.0
60°	900.6
62.5°	826.0
65°	745.1
67.5°	661.8
70°	574.7
72.5°	492.6
75°	409.3
77.5°	328.4
80°	252.5
82.5°	181.6
85°	116.9
87.5°	59.7
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	20.07	21.78	20.43	22.09	22.40	20.07	21.78	20.43	22.09	22.40
	3H	21.98	23.53	22.36	23.86	24.22	21.98	23.53	22.36	23.86	24.22
	4H	22.71	24.17	23.10	24.52	24.89	22.71	24.17	23.10	24.52	24.89
	6H	23.25	24.61	23.66	24.98	25.37	23.25	24.61	23.66	24.98	25.37
	8H	23.44	24.74	23.86	25.13	25.53	23.44	24.74	23.86	25.13	25.53
	12H	23.58	24.83	24.01	25.21	25.64	23.58	24.83	24.01	25.21	25.64
4H	2H	20.75	22.22	21.15	22.56	22.94	20.75	22.22	21.15	22.56	22.94
	3H	22.88	24.12	23.29	24.51	24.91	22.88	24.12	23.29	24.51	24.91
	4H	23.74	24.86	24.17	25.27	25.70	23.74	24.86	24.17	25.27	25.70
	6H	24.42	25.40	24.87	25.84	26.29	24.42	25.40	24.87	25.84	26.29
	8H	24.66	25.58	25.11	26.02	26.48	24.66	25.58	25.11	26.02	26.48
	12H	24.85	25.68	25.33	26.15	26.62	24.85	25.68	25.33	26.15	26.62
8H	4H	24.08	25.00	24.54	25.44	25.91	24.08	25.00	24.54	25.44	25.91
	6H	24.89	25.66	25.38	26.15	26.62	24.89	25.66	25.38	26.15	26.62
	8H	25.21	25.91	25.72	26.41	26.89	25.21	25.91	25.72	26.41	26.89
	12H	25.49	26.10	25.99	26.59	27.15	25.49	26.10	25.99	26.59	27.15
12H	4H	24.13	24.96	24.61	25.43	25.90	24.13	24.96	24.61	25.43	25.90
	6H	24.96	25.66	25.47	26.16	26.64	24.96	25.66	25.47	26.16	26.64
	8H	25.35	25.96	25.85	26.45	27.01	25.35	25.96	25.85	26.45	27.01