

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: P867129

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-940-133L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

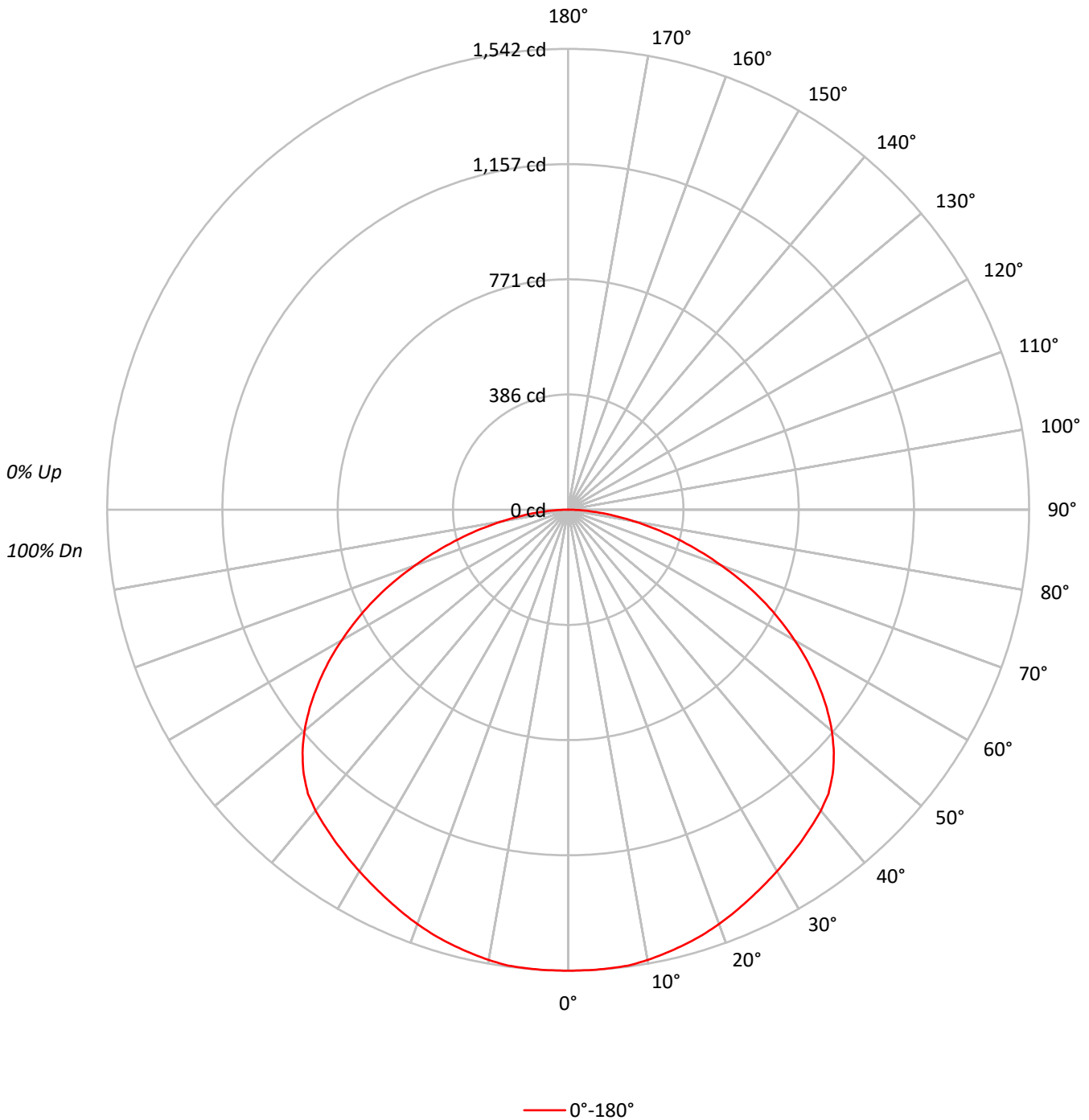
Lumens per Lamp: N/A
Luminaire Lumens: 5180.9 lumens
Efficiency: N/A
Efficacy: 46.3 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48
5	74	61	51	45	72	60	51	44	58	50	44	55	49	43	54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7610
5°	7633
10°	7665
15°	7694
20°	7746
25°	7821
30°	7958
35°	8174
40°	8468
45°	8732
50°	8842
55°	8795
60°	8641
65°	8365
70°	7859
75°	7210
80°	6433
85°	5282

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 8842 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	2.8
10°-20°	425.9	8.2
20°-30°	663.9	12.8
30°-40°	851.1	16.4
40°-50°	962.2	18.6
50°-60°	912.2	17.6
60°-70°	706.7	13.6
70°-80°	401.8	7.8
80°-90°	110.3	2.1
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°	1236.6	23.9
0°-40°	2087.7	40.3
0°-60°	3962.1	76.5
0°-90°	5180.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5180.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1542	
5°	1541	147
15°	1506	426
25°	1437	664
35°	1357	851
45°	1251	962
55°	1022	912
65°	716	707
75°	378	402
85°	93	110
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1542.5
2.5°	1542.5
5°	1541.2
7.5°	1538.7
10°	1530.0
12.5°	1518.8
15°	1506.4
17.5°	1492.7
20°	1475.3
22.5°	1456.6
25°	1436.7
27.5°	1416.8
30°	1396.9
32.5°	1377.0
35°	1357.1
37.5°	1336.0
40°	1314.8
42.5°	1288.7
45°	1251.4
47.5°	1205.4
50°	1151.9
52.5°	1089.7
55°	1022.5
57.5°	951.6
60°	875.7
62.5°	797.4
65°	716.5
67.5°	631.9
70°	544.8
72.5°	460.3
75°	378.2
77.5°	299.8
80°	226.4
82.5°	156.7
85°	93.3
87.5°	42.3
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	20.00	21.69	20.36	22.01	22.32	20.00	21.69	20.36	22.01	22.32
	3H	21.83	23.37	22.21	23.70	24.06	21.83	23.37	22.21	23.70	24.06
	4H	22.50	23.95	22.90	24.30	24.68	22.50	23.95	22.90	24.30	24.68
	6H	22.99	24.34	23.40	24.70	25.09	22.99	24.34	23.40	24.70	25.09
	8H	23.15	24.43	23.57	24.82	25.22	23.15	24.43	23.57	24.82	25.22
	12H	23.25	24.48	23.67	24.86	25.29	23.25	24.48	23.67	24.86	25.29
4H	2H	20.66	22.11	21.06	22.46	22.83	20.66	22.11	21.06	22.46	22.83
	3H	22.71	23.93	23.12	24.32	24.72	22.71	23.93	23.12	24.32	24.72
	4H	23.50	24.61	23.93	25.02	25.45	23.50	24.61	23.93	25.02	25.45
	6H	24.12	25.08	24.57	25.52	25.98	24.12	25.08	24.57	25.52	25.98
	8H	24.32	25.23	24.78	25.67	26.13	24.32	25.23	24.78	25.67	26.13
	12H	24.46	25.28	24.94	25.75	26.22	24.46	25.28	24.94	25.75	26.22
8H	4H	23.82	24.73	24.28	25.17	25.63	23.82	24.73	24.28	25.17	25.63
	6H	24.55	25.31	25.04	25.80	26.27	24.55	25.31	25.04	25.80	26.27
	8H	24.83	25.50	25.33	26.01	26.49	24.83	25.50	25.33	26.01	26.49
	12H	25.04	25.64	25.54	26.13	26.69	25.04	25.64	25.54	26.13	26.69
12H	4H	23.86	24.68	24.34	25.15	25.62	23.86	24.68	24.34	25.15	25.62
	6H	24.61	25.29	25.12	25.80	26.28	24.61	25.29	25.12	25.80	26.28
	8H	24.94	25.54	25.44	26.03	26.59	24.94	25.54	25.44	26.03	26.59