

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: P866938

Luminaire Tested: PRLX-2002-L-927-133L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866938
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: Pentalux
Catalog Number: PRLX-2002-L-927-133L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

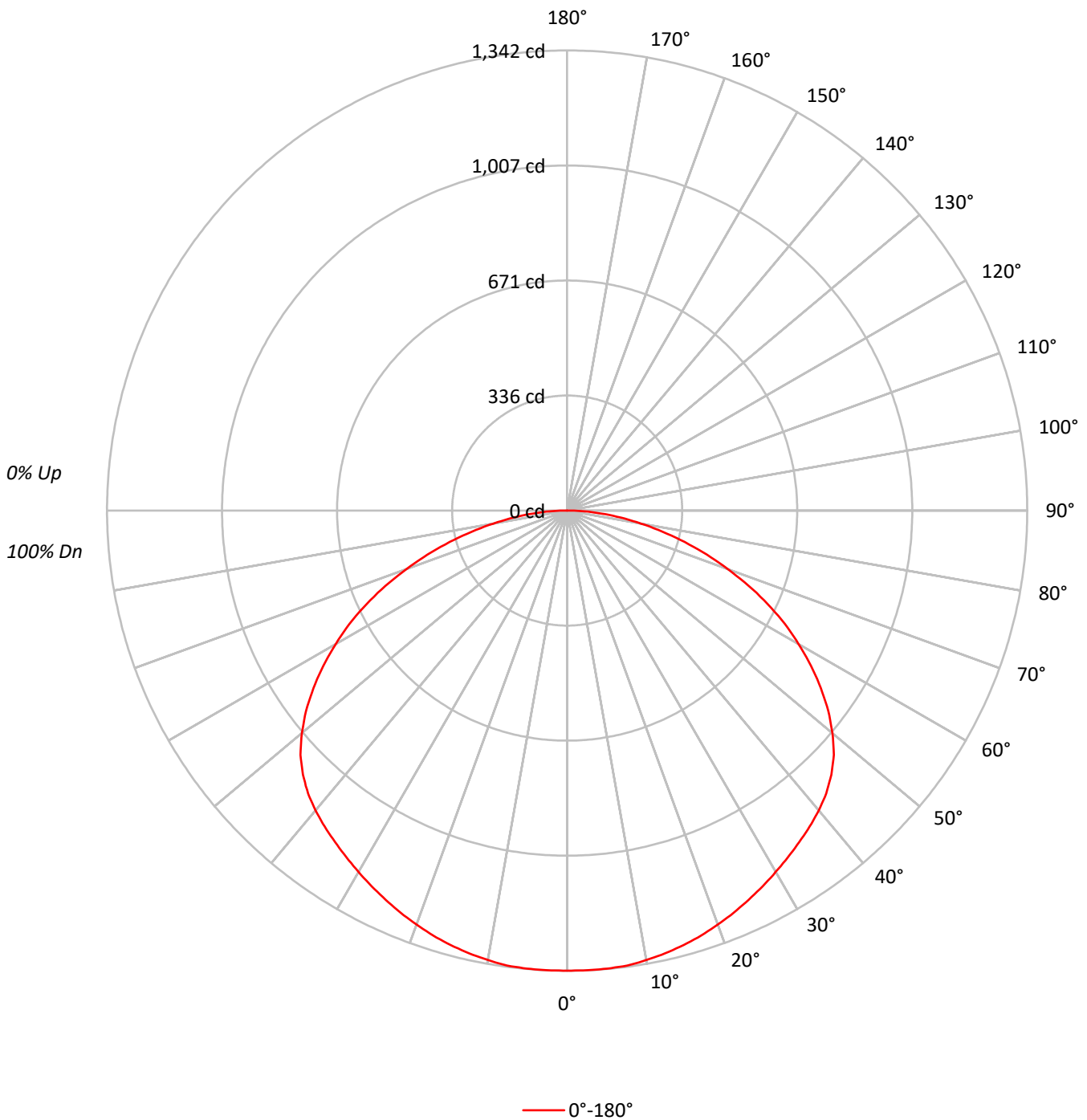
Lumens per Lamp: N/A
Luminaire Lumens: 4588.8 lumens
Efficiency: N/A
Efficacy: 41.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
Input Voltage (V): 120
Input Current (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	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°	6620
5°	6641
10°	6669
15°	6700
20°	6745
25°	6818
30°	6932
35°	7108
40°	7351
45°	7603
50°	7752
55°	7769
60°	7700
65°	7537
70°	7182
75°	6760
80°	6217
85°	5735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 7783 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	2.8
10°-20°	370.8	8.1
20°-30°	578.6	12.6
30°-40°	740.3	16.1
40°-50°	838.7	18.3
50°-60°	806.0	17.6
60°-70°	636.9	13.9
70°-80°	375.6	8.2
80°-90°	114.2	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°	1077.1	23.5
0°-40°	1817.4	39.6
0°-60°	3462.1	75.4
0°-90°	4588.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4588.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1342	
5°	1341	128
15°	1312	371
25°	1252	579
35°	1180	740
45°	1090	839
55°	903	806
65°	646	637
75°	355	376
85°	101	114
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1341.8
2.5°	1341.8
5°	1340.8
7.5°	1338.6
10°	1331.1
12.5°	1322.4
15°	1311.7
17.5°	1299.8
20°	1284.7
22.5°	1269.6
25°	1252.4
27.5°	1235.1
30°	1216.8
32.5°	1198.5
35°	1180.2
37.5°	1161.8
40°	1141.4
42.5°	1118.7
45°	1089.6
47.5°	1055.1
50°	1009.9
52.5°	960.3
55°	903.2
57.5°	843.9
60°	780.3
62.5°	715.6
65°	645.6
67.5°	573.4
70°	497.9
72.5°	426.8
75°	354.6
77.5°	284.5
80°	218.8
82.5°	157.4
85°	101.3
87.5°	51.7
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	19.57	21.28	19.94	21.59	21.91	19.57	21.28	19.94	21.59	21.91
	3H	21.49	23.04	21.86	23.36	23.72	21.49	23.04	21.86	23.36	23.72
	4H	22.21	23.67	22.61	24.02	24.39	22.21	23.67	22.61	24.02	24.39
	6H	22.75	24.11	23.16	24.48	24.87	22.75	24.11	23.16	24.48	24.87
	8H	22.94	24.24	23.36	24.63	25.03	22.94	24.24	23.36	24.63	25.03
	12H	23.08	24.33	23.51	24.71	25.14	23.08	24.33	23.51	24.71	25.14
4H	2H	20.26	21.72	20.65	22.07	22.44	20.26	21.72	20.65	22.07	22.44
	3H	22.39	23.62	22.79	24.02	24.41	22.39	23.62	22.79	24.02	24.41
	4H	23.24	24.36	23.67	24.77	25.21	23.24	24.36	23.67	24.77	25.21
	6H	23.92	24.90	24.37	25.34	25.79	23.92	24.90	24.37	25.34	25.79
	8H	24.16	25.08	24.62	25.52	25.98	24.16	25.08	24.62	25.52	25.98
	12H	24.35	25.18	24.83	25.65	26.12	24.35	25.18	24.83	25.65	26.12
8H	4H	23.58	24.51	24.04	24.95	25.41	23.58	24.51	24.04	24.95	25.41
	6H	24.39	25.16	24.88	25.65	26.12	24.39	25.16	24.88	25.65	26.12
	8H	24.72	25.41	25.22	25.91	26.39	24.72	25.41	25.22	25.91	26.39
	12H	24.99	25.60	25.50	26.09	26.65	24.99	25.60	25.50	26.09	26.65
12H	4H	23.63	24.46	24.11	24.93	25.40	23.63	24.46	24.11	24.93	25.40
	6H	24.46	25.16	24.97	25.66	26.14	24.46	25.16	24.97	25.66	26.14
	8H	24.85	25.46	25.35	25.95	26.51	24.85	25.46	25.35	25.95	26.51