

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: P866939

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-68)
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-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

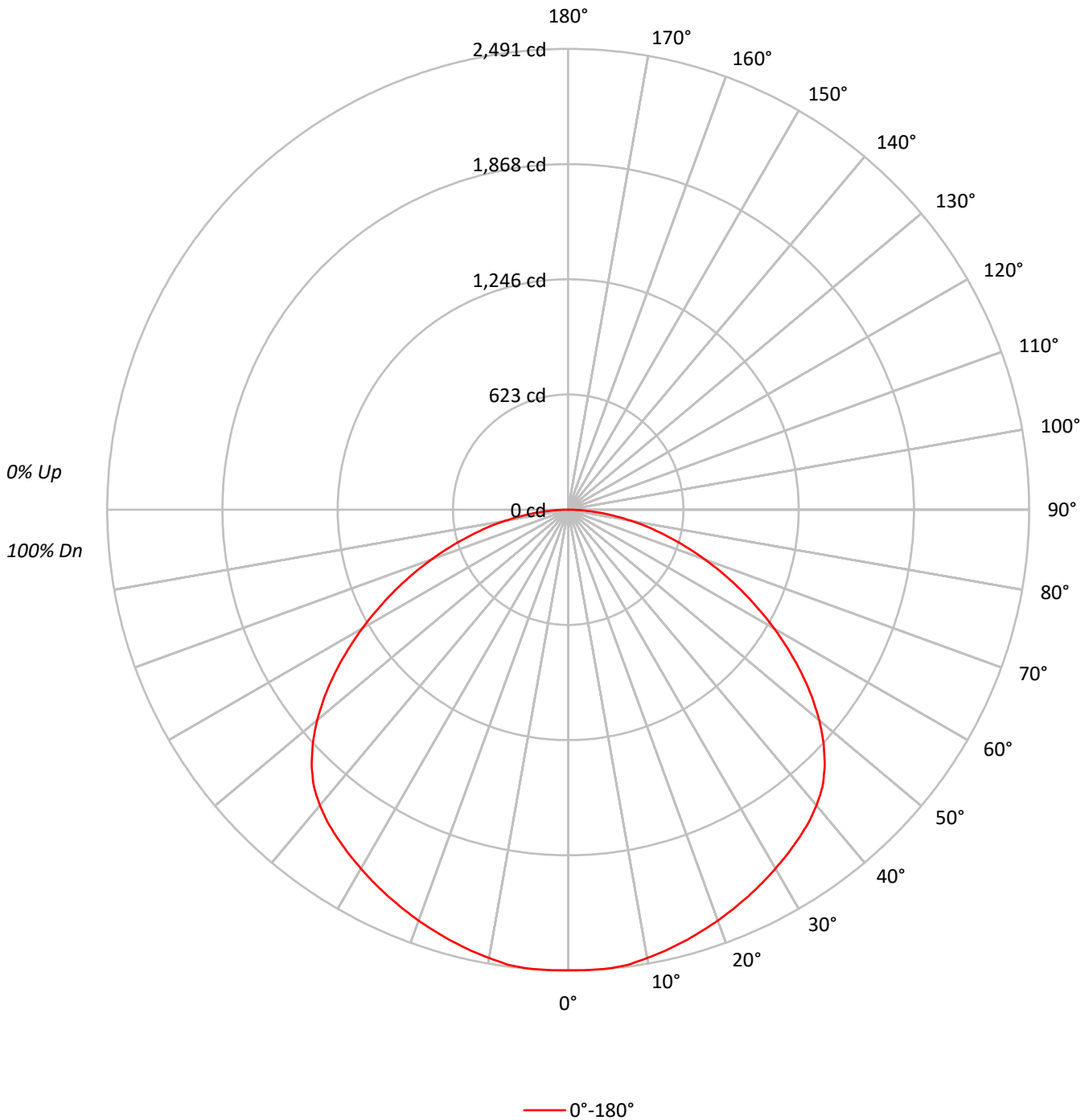
Lumens per Lamp: N/A
Luminaire Lumens: 8011.3 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: 0.333 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	106	101	97	93	97	94	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	24		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12284
5°	12331
10°	12327
15°	12343
20°	12410
25°	12544
30°	12759
35°	13074
40°	13445
45°	13679
50°	13600
55°	13239
60°	12688
65°	12041
70°	11318
75°	10561
80°	9800
85°	8723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13679 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	3.0
10°-20°	683.1	8.5
20°-30°	1064.5	13.3
30°-40°	1360.3	17.0
40°-50°	1506.1	18.8
50°-60°	1372.6	17.1
60°-70°	1022.7	12.8
70°-80°	590.3	7.4
80°-90°	175.0	2.2
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°	1984.3	24.8
0°-40°	3344.6	41.7
0°-60°	6223.3	77.7
0°-90°	8011.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8011.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2490	
5°	2490	237
15°	2416	683
25°	2304	1064
35°	2171	1360
45°	1960	1506
55°	1539	1373
65°	1031	1023
75°	554	590
85°	154	175
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2489.7
2.5°	2490.7
5°	2489.7
7.5°	2481.0
10°	2460.6
12.5°	2440.1
15°	2416.4
17.5°	2390.5
20°	2363.6
22.5°	2334.5
25°	2304.3
27.5°	2273.0
30°	2239.6
32.5°	2206.2
35°	2170.6
37.5°	2132.9
40°	2087.6
42.5°	2033.8
45°	1960.5
47.5°	1872.1
50°	1771.9
52.5°	1658.7
55°	1539.1
57.5°	1411.9
60°	1285.8
62.5°	1158.6
65°	1031.4
67.5°	908.6
70°	784.6
72.5°	669.3
75°	554.0
77.5°	450.5
80°	344.9
82.5°	245.7
85°	154.1
87.5°	71.1
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	21.24	22.92	21.61	23.23	23.55	21.24	22.92	21.61	23.23	23.55
	3H	22.99	24.51	23.37	24.84	25.20	22.99	24.51	23.37	24.84	25.20
	4H	23.66	25.09	24.05	25.44	25.81	23.66	25.09	24.05	25.44	25.81
	6H	24.18	25.51	24.59	25.87	26.26	24.18	25.51	24.59	25.87	26.26
	8H	24.35	25.62	24.77	26.01	26.41	24.35	25.62	24.77	26.01	26.41
	12H	24.47	25.69	24.90	26.07	26.50	24.47	25.69	24.90	26.07	26.50
4H	2H	21.86	23.29	22.26	23.64	24.02	21.86	23.29	22.26	23.64	24.02
	3H	23.84	25.04	24.25	25.44	25.84	23.84	25.04	24.25	25.44	25.84
	4H	24.63	25.73	25.07	26.14	26.57	24.63	25.73	25.07	26.14	26.57
	6H	25.29	26.24	25.74	26.68	27.14	25.29	26.24	25.74	26.68	27.14
	8H	25.52	26.41	25.98	26.85	27.32	25.52	26.41	25.98	26.85	27.32
	12H	25.69	26.49	26.17	26.97	27.44	25.69	26.49	26.17	26.97	27.44
8H	4H	24.96	25.85	25.42	26.29	26.76	24.96	25.85	25.42	26.29	26.76
	6H	25.74	26.49	26.23	26.97	27.45	25.74	26.49	26.23	26.97	27.45
	8H	26.05	26.72	26.55	27.22	27.71	26.05	26.72	26.55	27.22	27.71
	12H	26.30	26.89	26.80	27.38	27.94	26.30	26.89	26.80	27.38	27.94
12H	4H	25.00	25.80	25.48	26.28	26.75	25.00	25.80	25.48	26.28	26.75
	6H	25.81	26.48	26.31	26.98	27.47	25.81	26.48	26.31	26.98	27.47
	8H	26.17	26.77	26.68	27.26	27.81	26.17	26.77	26.68	27.26	27.81