

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: P866936

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-71)
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-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

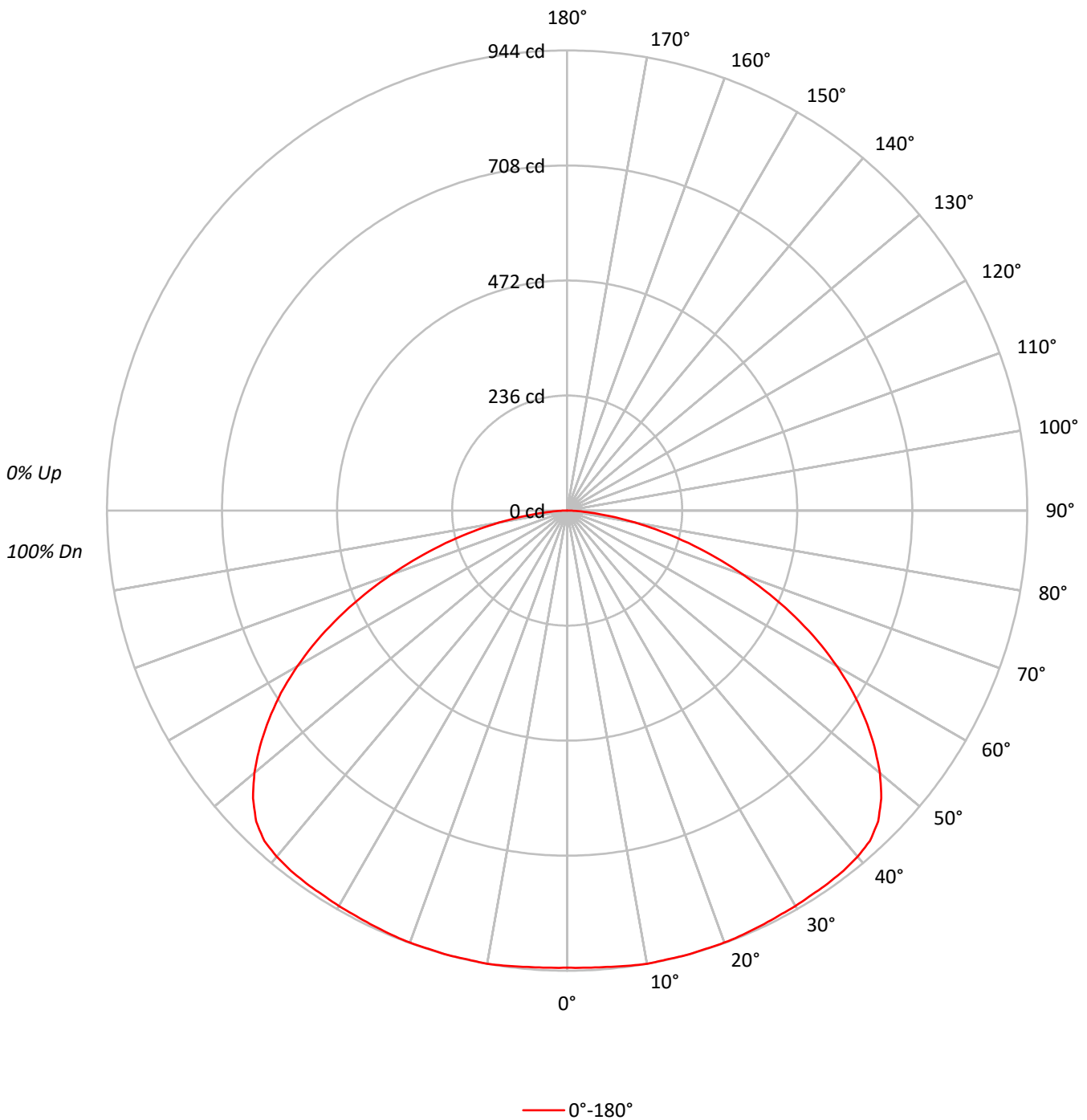
Lumens per Lamp: N/A
Luminaire Lumens: 3578.8 lumens
Efficiency: N/A
Efficacy: 32.0 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58
4	81	68	59	52	78	67	58	51	64	56	51	62	55	50	59	54	49
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	48	41	36
7	63	48	39	33	61	48	39	33	46	38	32	44	37	32	43	37	32
8	58	44	35	29	56	43	35	29	42	34	29	41	34	28	39	33	28
9	54	40	32	26	53	39	31	26	38	31	26	37	30	25	36	30	25
10	50	37	29	23	49	36	28	23	35	28	23	34	28	23	33	27	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4626
5°	4655
10°	4730
15°	4822
20°	4952
25°	5116
30°	5336
35°	5622
40°	5970
45°	6294
50°	6428
55°	6425
60°	6306
65°	6027
70°	5535
75°	4911
80°	4012
85°	2683

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 6438 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	2.5
10°-20°	267.4	7.5
20°-30°	434.9	12.2
30°-40°	585.8	16.4
40°-50°	691.7	19.3
50°-60°	665.7	18.6
60°-70°	509.1	14.2
70°-80°	273.4	7.6
80°-90°	60.8	1.7
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°	792.2	22.1
0°-40°	1378.0	38.5
0°-60°	2735.5	76.4
0°-90°	3578.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3578.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	938	
5°	940	90
15°	944	267
25°	940	435
35°	933	586
45°	902	692
55°	747	666
65°	516	509
75°	258	273
85°	47	61
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	937.7
2.5°	938.7
5°	939.8
7.5°	942.0
10°	944.1
12.5°	943.1
15°	944.1
17.5°	943.1
20°	943.1
22.5°	942.0
25°	939.8
27.5°	937.7
30°	936.6
32.5°	934.4
35°	933.4
37.5°	931.2
40°	926.9
42.5°	919.3
45°	902.1
47.5°	874.1
50°	837.4
52.5°	794.3
55°	746.9
57.5°	696.2
60°	639.1
62.5°	579.8
65°	516.3
67.5°	450.5
70°	383.7
72.5°	320.1
75°	257.6
77.5°	197.2
80°	141.2
82.5°	89.5
85°	47.4
87.5°	16.2
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	19.08	20.80	19.45	21.11	21.43	19.08	20.80	19.45	21.11	21.43
	3H	20.84	22.39	21.21	22.72	23.08	20.84	22.39	21.21	22.72	23.08
	4H	21.44	22.91	21.84	23.26	23.63	21.44	22.91	21.84	23.26	23.63
	6H	21.84	23.20	22.25	23.56	23.95	21.84	23.20	22.25	23.56	23.95
	8H	21.94	23.24	22.36	23.63	24.03	21.94	23.24	22.36	23.63	24.03
	12H	21.99	23.24	22.42	23.62	24.05	21.99	23.24	22.42	23.62	24.05
4H	2H	19.73	21.20	20.13	21.55	21.92	19.73	21.20	20.13	21.55	21.92
	3H	21.69	22.92	22.10	23.32	23.71	21.69	22.92	22.10	23.32	23.71
	4H	22.41	23.53	22.84	23.94	24.37	22.41	23.53	22.84	23.94	24.37
	6H	22.92	23.89	23.37	24.33	24.78	22.92	23.89	23.37	24.33	24.78
	8H	23.05	23.97	23.51	24.41	24.87	23.05	23.97	23.51	24.41	24.87
	12H	23.13	23.96	23.61	24.43	24.90	23.13	23.96	23.61	24.43	24.90
8H	4H	22.69	23.61	23.15	24.05	24.51	22.69	23.61	23.15	24.05	24.51
	6H	23.30	24.06	23.79	24.54	25.01	23.30	24.06	23.79	24.54	25.01
	8H	23.48	24.16	23.99	24.67	25.15	23.48	24.16	23.99	24.67	25.15
	12H	23.61	24.21	24.11	24.70	25.26	23.61	24.21	24.11	24.70	25.26
12H	4H	22.72	23.54	23.20	24.02	24.48	22.72	23.54	23.20	24.02	24.48
	6H	23.33	24.01	23.84	24.52	25.00	23.33	24.01	23.84	24.52	25.00
	8H	23.56	24.17	24.07	24.66	25.21	23.56	24.17	24.07	24.66	25.21