

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: P867368

Luminaire Tested: PRLX-2004-L-940-100L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-75)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-940-100L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

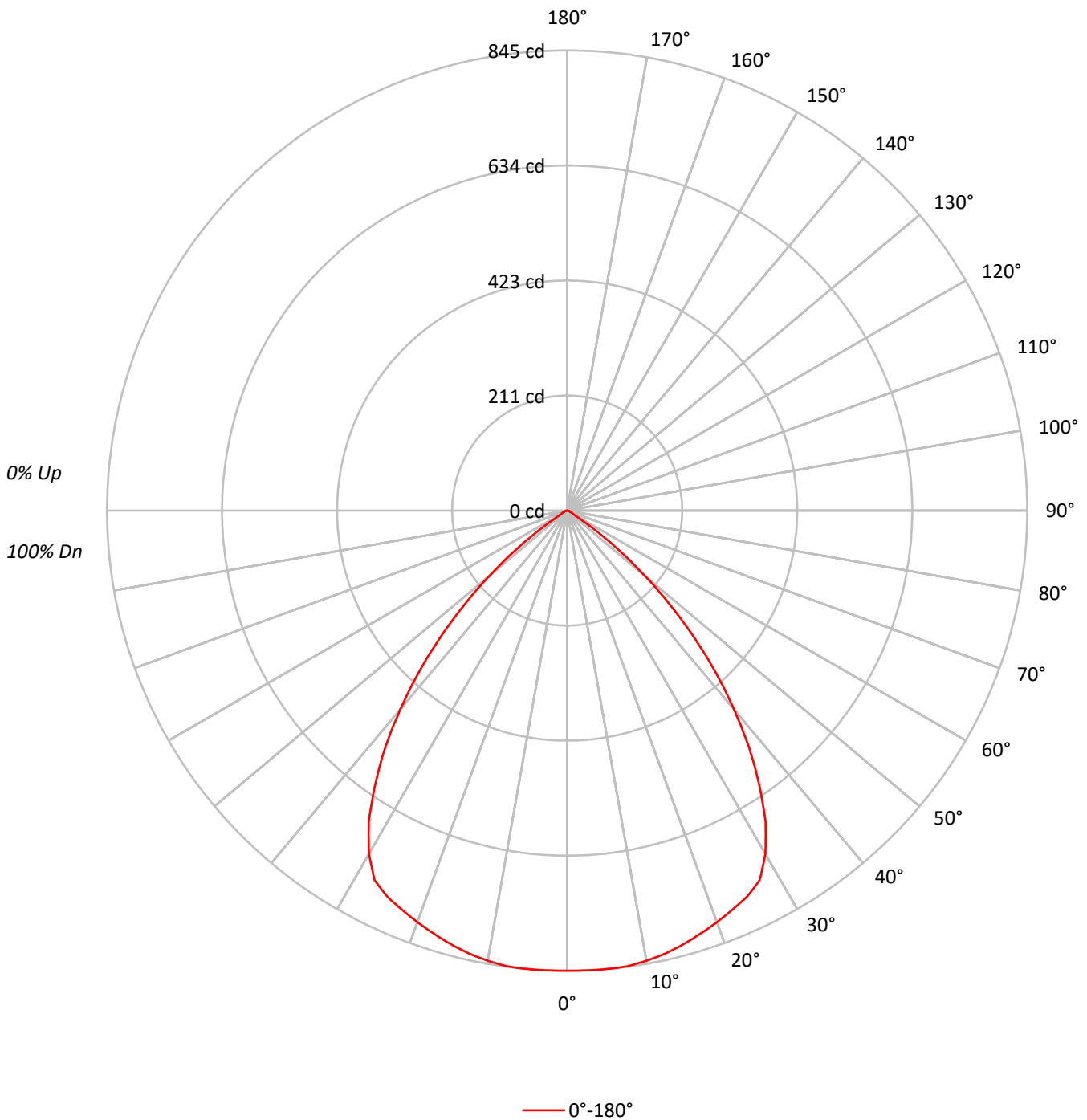
Lumens per Lamp: N/A
Luminaire Lumens: 1386.5 lumens
Efficiency: N/A
Efficacy: 17.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.19
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	51
8	72	60	53	49	70	60	53	48	59	53	48	58	52	48	56	51	48	46
9	67	56	49	45	66	56	49	44	55	49	44	54	48	44	53	48	44	42
10	64	52	45	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4170
5°	4185
10°	4206
15°	4212
20°	4223
25°	4257
30°	4148
35°	3703
40°	3068
45°	2300
50°	1425
55°	551
60°	119
65°	98
70°	81
75°	71
80°	80
85°	51

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2300 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	5.8
10°-20°	232.9	16.8
20°-30°	358.6	25.9
30°-40°	380.7	27.5
40°-50°	252.7	18.2
50°-60°	67.1	4.8
60°-70°	8.6	0.6
70°-80°	4.0	0.3
80°-90°	1.4	0.1
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°	672.0	48.5
0°-40°	1052.7	75.9
0°-60°	1372.5	99.0
0°-90°	1386.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1386.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	845	
5°	845	81
15°	825	233
25°	782	359
35°	615	381
45°	330	253
55°	64	67
65°	8	9
75°	4	4
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	845.1
2.5°	845.1
5°	845.1
7.5°	844.2
10°	839.5
12.5°	833.0
15°	824.7
17.5°	814.5
20°	804.3
22.5°	793.1
25°	782.0
27.5°	765.3
30°	728.1
32.5°	678.0
35°	614.8
37.5°	548.9
40°	476.4
42.5°	404.0
45°	329.7
47.5°	256.3
50°	185.7
52.5°	121.7
55°	64.1
57.5°	21.4
60°	12.1
62.5°	10.2
65°	8.4
67.5°	7.4
70°	5.6
72.5°	4.6
75°	3.7
77.5°	2.8
80°	2.8
82.5°	1.9
85°	0.9
87.5°	0.9
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	0.00	0.00	0.00	0.16	0.48	0.00	0.00	0.00	0.16	0.48
	3H	0.00	0.17	0.00	0.50	0.87	0.00	0.17	0.00	0.50	0.87
	4H	0.00	0.24	0.00	0.59	0.98	0.00	0.24	0.00	0.59	0.98
	6H	0.00	0.29	0.00	0.66	1.05	0.00	0.29	0.00	0.66	1.05
	8H	0.00	0.30	0.00	0.69	1.09	0.00	0.30	0.00	0.69	1.09
	12H	0.00	0.27	0.00	0.65	1.08	0.00	0.27	0.00	0.65	1.08
4H	2H	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.39
	3H	0.00	0.08	0.00	0.48	0.89	0.00	0.08	0.00	0.48	0.89
	4H	0.00	0.21	0.00	0.64	1.08	0.00	0.21	0.00	0.64	1.08
	6H	0.00	0.36	0.23	0.81	1.28	0.00	0.36	0.23	0.81	1.28
	8H	0.00	0.42	0.33	0.87	1.34	0.00	0.42	0.33	0.87	1.34
	12H	0.00	0.39	0.39	0.87	1.35	0.00	0.39	0.39	0.87	1.35
8H	4H	0.00	0.09	0.00	0.54	1.01	0.00	0.09	0.00	0.54	1.01
	6H	0.00	0.33	0.38	0.83	1.31	0.00	0.33	0.38	0.83	1.31
	8H	0.04	0.45	0.56	0.96	1.46	0.04	0.45	0.56	0.96	1.46
	12H	0.12	0.48	0.64	0.98	1.56	0.12	0.48	0.64	0.98	1.56
12H	4H	0.00	0.00	0.00	0.48	0.96	0.00	0.00	0.00	0.48	0.96
	6H	0.00	0.28	0.40	0.80	1.30	0.00	0.28	0.40	0.80	1.30
	8H	0.08	0.44	0.59	0.94	1.51	0.08	0.44	0.59	0.94	1.51