

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: P867225

Luminaire Tested: PRLX-2004-L-927-67L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-927-67L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

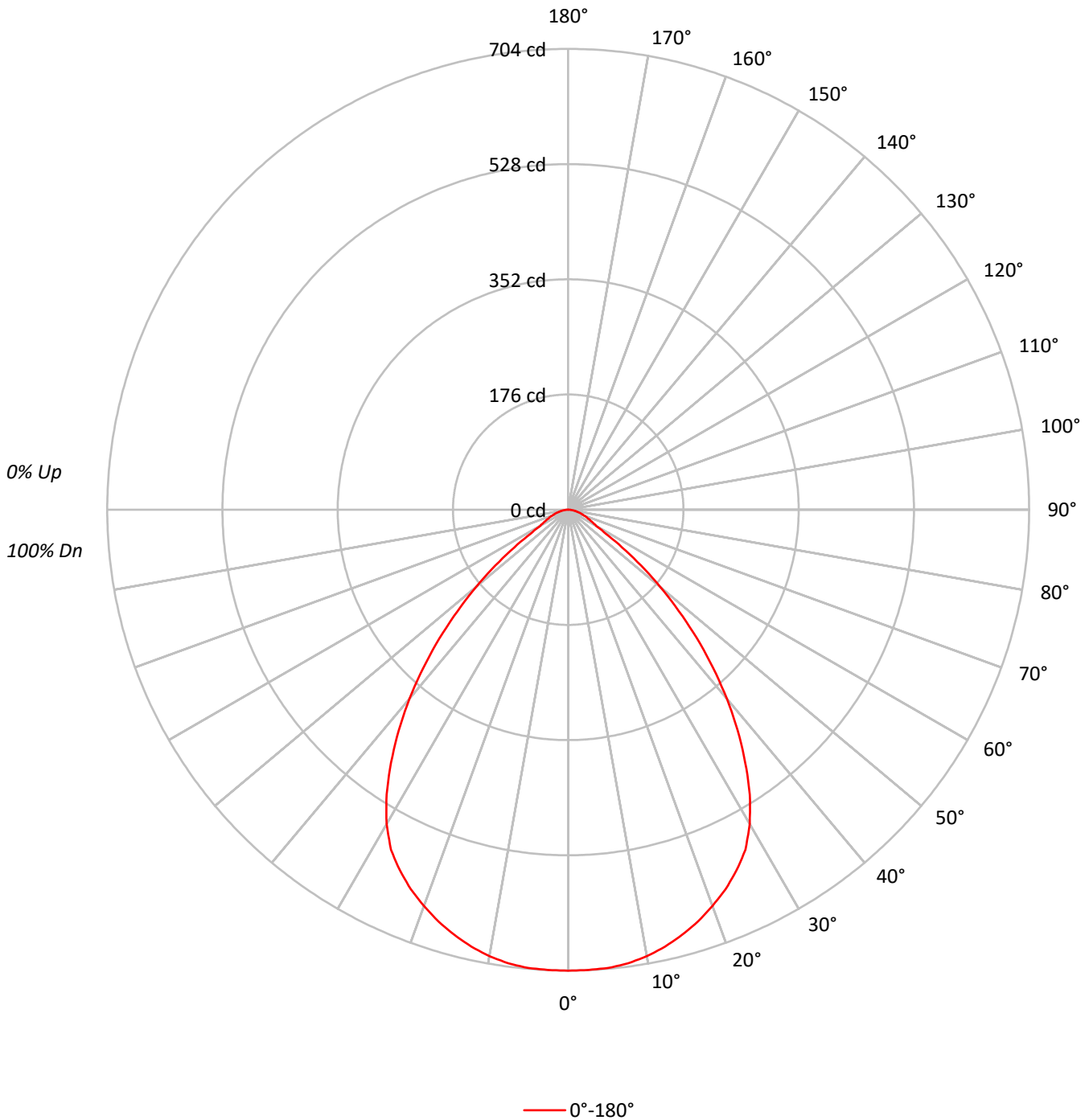
Lumens per Lamp: N/A
Luminaire Lumens: 1196.0 lumens
Efficiency: N/A
Efficacy: 23.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.17
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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: 0.5 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	112	108	105	102	109	106	103	101	102	100	97		98	96	95		95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	74		80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67		75	70	67		73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	60		69	64	60		68	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55		64	58	54		62	58	54	52
7	74	63	55	50	72	62	55	50	60	54	49		59	53	49		58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45		55	49	45		54	49	45	43
9	65	54	46	42	64	53	46	42	52	46	41		51	45	41		50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38		48	42	38		47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3475
5°	3480
10°	3470
15°	3435
20°	3382
25°	3310
30°	3158
35°	2840
40°	2427
45°	1940
50°	1408
55°	864
60°	487
65°	416
70°	368
75°	334
80°	301
85°	272

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1940 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	5.6
10°-20°	189.5	15.8
20°-30°	279.0	23.3
30°-40°	292.8	24.5
40°-50°	213.8	17.9
50°-60°	94.2	7.9
60°-70°	35.9	3.0
70°-80°	18.6	1.6
80°-90°	5.5	0.5
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°	535.2	44.8
0°-40°	828.0	69.2
0°-60°	1136.0	95.0
0°-90°	1196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	704	
5°	703	67
15°	672	190
25°	608	279
35°	472	293
45°	278	214
55°	100	94
65°	36	36
75°	18	19
85°	5	5
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	704.3
2.5°	703.8
5°	702.7
7.5°	699.0
10°	692.6
12.5°	683.6
15°	672.4
17.5°	659.6
20°	644.2
22.5°	627.7
25°	608.1
27.5°	585.8
30°	554.4
32.5°	516.1
35°	471.5
37.5°	425.2
40°	376.9
42.5°	327.4
45°	278.0
47.5°	229.1
50°	183.4
52.5°	140.3
55°	100.5
57.5°	68.0
60°	49.4
62.5°	42.0
65°	35.6
67.5°	30.3
70°	25.5
72.5°	21.3
75°	17.5
77.5°	13.8
80°	10.6
82.5°	8.0
85°	4.8
87.5°	2.1
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	7.16	8.46	7.52	8.77	9.09	7.16	8.46	7.52	8.77	9.09
	3H	8.04	9.19	8.42	9.52	9.88	8.04	9.19	8.42	9.52	9.88
	4H	8.39	9.46	8.79	9.81	10.19	8.39	9.46	8.79	9.81	10.19
	6H	8.65	9.63	9.07	10.00	10.40	8.65	9.63	9.07	10.00	10.40
	8H	8.75	9.68	9.18	10.07	10.47	8.75	9.68	9.18	10.07	10.47
	12H	8.80	9.69	9.24	10.07	10.50	8.80	9.69	9.24	10.07	10.50
4H	2H	7.38	8.45	7.78	8.80	9.19	7.38	8.45	7.78	8.80	9.19
	3H	8.48	9.35	8.90	9.76	10.16	8.48	9.35	8.90	9.76	10.16
	4H	8.95	9.73	9.39	10.15	10.59	8.95	9.73	9.39	10.15	10.59
	6H	9.34	10.00	9.80	10.45	10.92	9.34	10.00	9.80	10.45	10.92
	8H	9.47	10.10	9.94	10.55	11.02	9.47	10.10	9.94	10.55	11.02
	12H	9.57	10.12	10.06	10.61	11.08	9.57	10.12	10.06	10.61	11.08
8H	4H	9.09	9.71	9.56	10.16	10.63	9.09	9.71	9.56	10.16	10.63
	6H	9.57	10.08	10.07	10.58	11.06	9.57	10.08	10.07	10.58	11.06
	8H	9.78	10.24	10.30	10.76	11.25	9.78	10.24	10.30	10.76	11.25
	12H	9.95	10.36	10.46	10.85	11.42	9.95	10.36	10.46	10.85	11.42
12H	4H	9.08	9.63	9.57	10.12	10.59	9.08	9.63	9.57	10.12	10.59
	6H	9.59	10.05	10.11	10.56	11.06	9.59	10.05	10.11	10.56	11.06
	8H	9.85	10.26	10.36	10.75	11.32	9.85	10.26	10.36	10.75	11.32