

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: P867222

Luminaire Tested: PRLX-2004-L-927-67L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-86)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-927-67L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

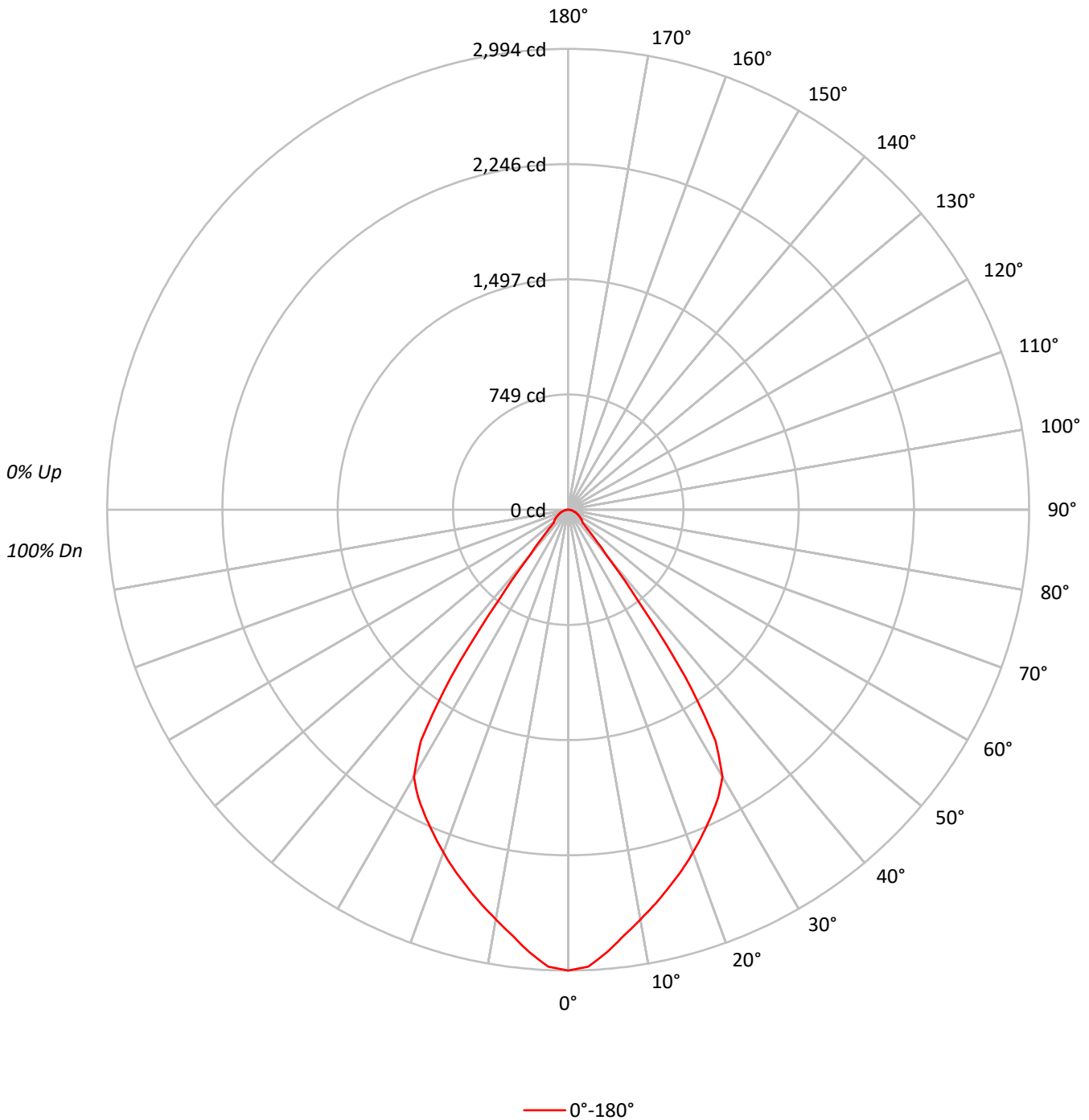
Lumens per Lamp: N/A
Luminaire Lumens: 3122.2 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: 0.333 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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53
9	72	62	56	51	71	62	55	51	61	55	51	60	55	51	59	54	51	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14772
5°	14292
10°	13544
15°	12956
20°	12441
25°	11956
30°	11416
35°	7997
40°	2516
45°	1220
50°	910
55°	878
60°	818
65°	757
70°	705
75°	658
80°	619
85°	572

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1220 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.5	8.6
10°-20°	714.5	22.9
20°-30°	1010.5	32.4
30°-40°	769.5	24.6
40°-50°	154.7	5.0
50°-60°	90.7	2.9
60°-70°	64.6	2.1
70°-80°	36.8	1.2
80°-90°	11.3	0.4
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°	1994.5	63.9
0°-40°	2764.0	88.5
0°-60°	3009.5	96.4
0°-90°	3122.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3122.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2994	
5°	2886	270
15°	2536	714
25°	2196	1011
35°	1328	770
45°	175	155
55°	102	91
65°	65	65
75°	34	37
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2994.1
2.5°	2971.8
5°	2885.7
7.5°	2789.0
10°	2703.4
12.5°	2621.0
15°	2536.5
17.5°	2455.7
20°	2369.6
22.5°	2282.4
25°	2196.3
27.5°	2109.1
30°	2003.9
32.5°	1781.2
35°	1327.8
37.5°	734.1
40°	390.7
42.5°	258.3
45°	174.9
47.5°	126.0
50°	118.5
52.5°	111.1
55°	102.1
57.5°	92.0
60°	82.9
62.5°	73.4
65°	64.8
67.5°	56.9
70°	48.9
72.5°	41.5
75°	34.5
77.5°	28.2
80°	21.8
82.5°	15.9
85°	10.1
87.5°	4.8
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	6.33	7.38	6.70	7.69	8.01	6.33	7.38	6.70	7.69	8.01
	3H	7.89	8.82	8.28	9.16	9.52	7.89	8.82	8.28	9.16	9.52
	4H	8.48	9.35	8.89	9.70	10.09	8.48	9.35	8.89	9.70	10.09
	6H	8.94	9.73	9.36	10.10	10.50	8.94	9.73	9.36	10.10	10.50
	8H	9.10	9.84	9.53	10.23	10.64	9.10	9.84	9.53	10.23	10.64
	12H	9.19	9.90	9.63	10.29	10.72	9.19	9.90	9.63	10.29	10.72
4H	2H	6.79	7.66	7.20	8.01	8.40	6.79	7.66	7.20	8.01	8.40
	3H	8.57	9.27	8.98	9.68	10.09	8.57	9.27	8.98	9.68	10.09
	4H	9.28	9.91	9.72	10.33	10.78	9.28	9.91	9.72	10.33	10.78
	6H	9.87	10.41	10.34	10.86	11.33	9.87	10.41	10.34	10.86	11.33
	8H	10.07	10.57	10.54	11.02	11.50	10.07	10.57	10.54	11.02	11.50
	12H	10.21	10.65	10.70	11.14	11.62	10.21	10.65	10.70	11.14	11.62
8H	4H	9.50	10.01	9.98	10.46	10.93	9.50	10.01	9.98	10.46	10.93
	6H	10.23	10.63	10.74	11.13	11.62	10.23	10.63	10.74	11.13	11.62
	8H	10.52	10.87	11.05	11.39	11.89	10.52	10.87	11.05	11.39	11.89
	12H	10.75	11.06	11.27	11.56	12.14	10.75	11.06	11.27	11.56	12.14
12H	4H	9.50	9.94	9.99	10.43	10.91	9.50	9.94	9.99	10.43	10.91
	6H	10.27	10.62	10.80	11.14	11.64	10.27	10.62	10.80	11.14	11.64
	8H	10.61	10.92	11.14	11.42	12.00	10.61	10.92	11.14	11.42	12.00