

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: P867286

Luminaire Tested: PRLX-2004-L-930-67L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867286
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-930-67L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

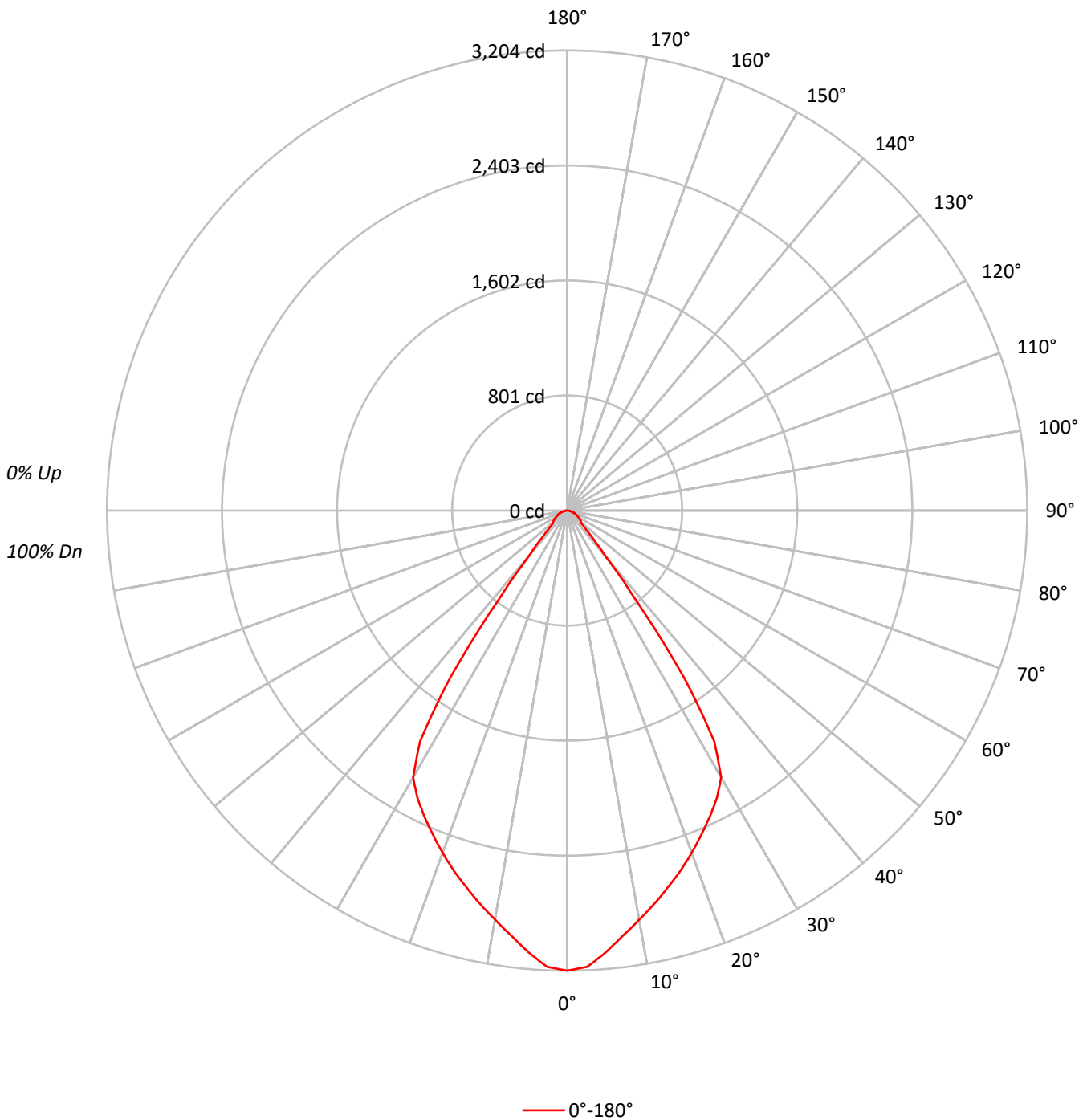
Lumens per Lamp: N/A
Luminaire Lumens: 3340.6 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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°	15806
5°	15292
10°	14492
15°	13863
20°	13312
25°	12793
30°	12215
35°	8557
40°	2692
45°	1305
50°	973
55°	939
60°	875
65°	810
70°	754
75°	705
80°	662
85°	611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1305 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.4	8.6
10°-20°	764.5	22.9
20°-30°	1081.2	32.4
30°-40°	823.3	24.6
40°-50°	165.5	5.0
50°-60°	97.1	2.9
60°-70°	69.1	2.1
70°-80°	39.4	1.2
80°-90°	12.1	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°	2134.1	63.9
0°-40°	2957.4	88.5
0°-60°	3220.0	96.4
0°-90°	3340.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3340.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3204	
5°	3088	288
15°	2714	764
25°	2350	1081
35°	1421	823
45°	187	166
55°	109	97
65°	69	69
75°	37	39
85°	11	12
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3203.7
2.5°	3179.8
5°	3087.6
7.5°	2984.1
10°	2892.6
12.5°	2804.4
15°	2714.0
17.5°	2627.5
20°	2535.4
22.5°	2442.1
25°	2350.0
27.5°	2256.7
30°	2144.1
32.5°	1905.8
35°	1420.7
37.5°	785.4
40°	418.0
42.5°	276.4
45°	187.1
47.5°	134.8
50°	126.8
52.5°	118.9
55°	109.2
57.5°	98.4
60°	88.7
62.5°	78.5
65°	69.4
67.5°	60.9
70°	52.3
72.5°	44.4
75°	37.0
77.5°	30.1
80°	23.3
82.5°	17.1
85°	10.8
87.5°	5.1
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	6.56	7.61	6.93	7.93	8.24	6.56	7.61	6.93	7.93	8.24
	3H	8.13	9.06	8.51	9.39	9.76	8.13	9.06	8.51	9.39	9.76
	4H	8.72	9.58	9.13	9.93	10.32	8.72	9.58	9.13	9.93	10.32
	6H	9.17	9.96	9.59	10.34	10.73	9.17	9.96	9.59	10.34	10.73
	8H	9.33	10.07	9.76	10.47	10.87	9.33	10.07	9.76	10.47	10.87
	12H	9.43	10.14	9.87	10.52	10.95	9.43	10.14	9.87	10.52	10.95
4H	2H	7.03	7.89	7.43	8.24	8.63	7.03	7.89	7.43	8.24	8.63
	3H	8.80	9.51	9.22	9.92	10.32	8.80	9.51	9.22	9.92	10.32
	4H	9.52	10.15	9.95	10.57	11.02	9.52	10.15	9.95	10.57	11.02
	6H	10.10	10.64	10.57	11.09	11.57	10.10	10.64	10.57	11.09	11.57
	8H	10.31	10.81	10.78	11.26	11.73	10.31	10.81	10.78	11.26	11.73
	12H	10.45	10.89	10.94	11.38	11.85	10.45	10.89	10.94	11.38	11.85
8H	4H	9.74	10.24	10.21	10.69	11.17	9.74	10.24	10.21	10.69	11.17
	6H	10.46	10.86	10.97	11.37	11.85	10.46	10.86	10.97	11.37	11.85
	8H	10.75	11.11	11.28	11.63	12.13	10.75	11.11	11.28	11.63	12.13
	12H	10.99	11.30	11.51	11.80	12.38	10.99	11.30	11.51	11.80	12.38
12H	4H	9.74	10.18	10.23	10.66	11.14	9.74	10.18	10.23	10.66	11.14
	6H	10.50	10.86	11.03	11.38	11.88	10.50	10.86	11.03	11.38	11.88
	8H	10.85	11.16	11.37	11.66	12.24	10.85	11.16	11.37	11.66	12.24