

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: P867413

Luminaire Tested: PRLX-2004-L-940-67L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-85)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-940-67L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

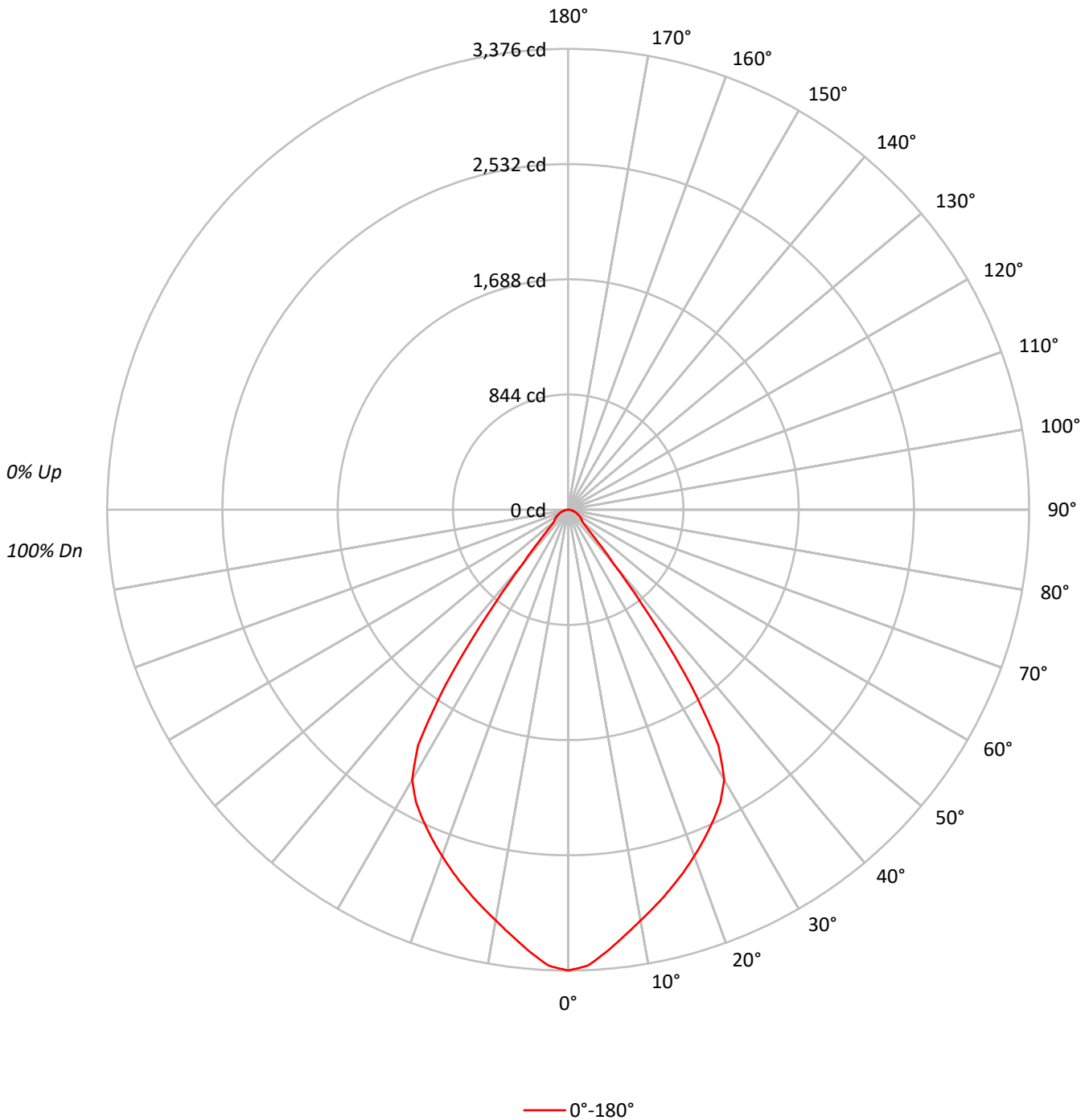
Lumens per Lamp: N/A
Luminaire Lumens: 3615.4 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 0.99
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P867413

CATALOG NUMBER: PRLX-2004-L-940-67L-L-X-X-BRSS-X

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	107	105	103	103	101	99	100	98	97	96	95	94	92
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71
5	90	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61
7	80	70	64	59	79	69	63	59	68	63	58	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49
10	68	58	52	48	67	58	52	48	57	51	47	56	51	47	55	50	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16657
5°	16091
10°	15306
15°	14712
20°	14176
25°	13676
30°	13016
35°	9441
40°	3354
45°	1476
50°	1022
55°	1008
60°	950
65°	895
70°	841
75°	795
80°	750
85°	696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1476 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.0	8.4
10°-20°	811.1	22.4
20°-30°	1154.7	31.9
30°-40°	915.6	25.3
40°-50°	191.9	5.3
50°-60°	104.0	2.9
60°-70°	76.2	2.1
70°-80°	44.2	1.2
80°-90°	13.8	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°	2269.9	62.8
0°-40°	3185.5	88.1
0°-60°	3481.3	96.3
0°-90°	3615.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3615.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3376	
5°	3249	304
15°	2880	811
25°	2512	1155
35°	1567	916
45°	212	192
55°	117	104
65°	77	76
75°	42	44
85°	12	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3376.0
2.5°	3342.2
5°	3249.0
7.5°	3149.0
10°	3055.1
12.5°	2968.0
15°	2880.3
17.5°	2791.9
20°	2699.9
22.5°	2607.9
25°	2512.2
27.5°	2414.0
30°	2284.6
32.5°	2046.6
35°	1567.4
37.5°	963.2
40°	520.8
42.5°	318.4
45°	211.6
47.5°	154.0
50°	133.1
52.5°	126.4
55°	117.2
57.5°	106.7
60°	96.3
62.5°	86.5
65°	76.7
67.5°	67.5
70°	58.3
72.5°	49.7
75°	41.7
77.5°	33.7
80°	26.4
82.5°	19.0
85°	12.3
87.5°	6.1
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	6.84	7.90	7.21	8.21	8.53	6.84	7.90	7.21	8.21	8.53
	3H	8.48	9.41	8.86	9.74	10.11	8.48	9.41	8.86	9.74	10.11
	4H	9.10	9.97	9.51	10.32	10.71	9.10	9.97	9.51	10.32	10.71
	6H	9.58	10.37	10.00	10.75	11.15	9.58	10.37	10.00	10.75	11.15
	8H	9.74	10.49	10.18	10.88	11.29	9.74	10.49	10.18	10.88	11.29
	12H	9.85	10.56	10.28	10.95	11.38	9.85	10.56	10.28	10.95	11.38
4H	2H	7.34	8.20	7.74	8.56	8.94	7.34	8.20	7.74	8.56	8.94
	3H	9.18	9.89	9.59	10.30	10.70	9.18	9.89	9.59	10.30	10.70
	4H	9.93	10.56	10.37	10.99	11.44	9.93	10.56	10.37	10.99	11.44
	6H	10.54	11.08	11.01	11.53	12.01	10.54	11.08	11.01	11.53	12.01
	8H	10.75	11.25	11.22	11.70	12.18	10.75	11.25	11.22	11.70	12.18
	12H	10.90	11.34	11.39	11.83	12.30	10.90	11.34	11.39	11.83	12.30
8H	4H	10.16	10.67	10.64	11.12	11.59	10.16	10.67	10.64	11.12	11.59
	6H	10.91	11.32	11.42	11.82	12.31	10.91	11.32	11.42	11.82	12.31
	8H	11.21	11.57	11.74	12.09	12.58	11.21	11.57	11.74	12.09	12.58
	12H	11.45	11.77	11.97	12.26	12.84	11.45	11.77	11.97	12.26	12.84
12H	4H	10.17	10.61	10.66	11.10	11.57	10.17	10.61	10.66	11.10	11.57
	6H	10.95	11.31	11.49	11.84	12.33	10.95	11.31	11.49	11.84	12.33
	8H	11.31	11.62	11.83	12.12	12.70	11.31	11.62	11.83	12.12	12.70