

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: P867373

Luminaire Tested: PRLX-2004-L-940-117L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867373
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: Prenalux
Catalog Number: PRLX-2004-L-940-117L-L-X-X-BRSS-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

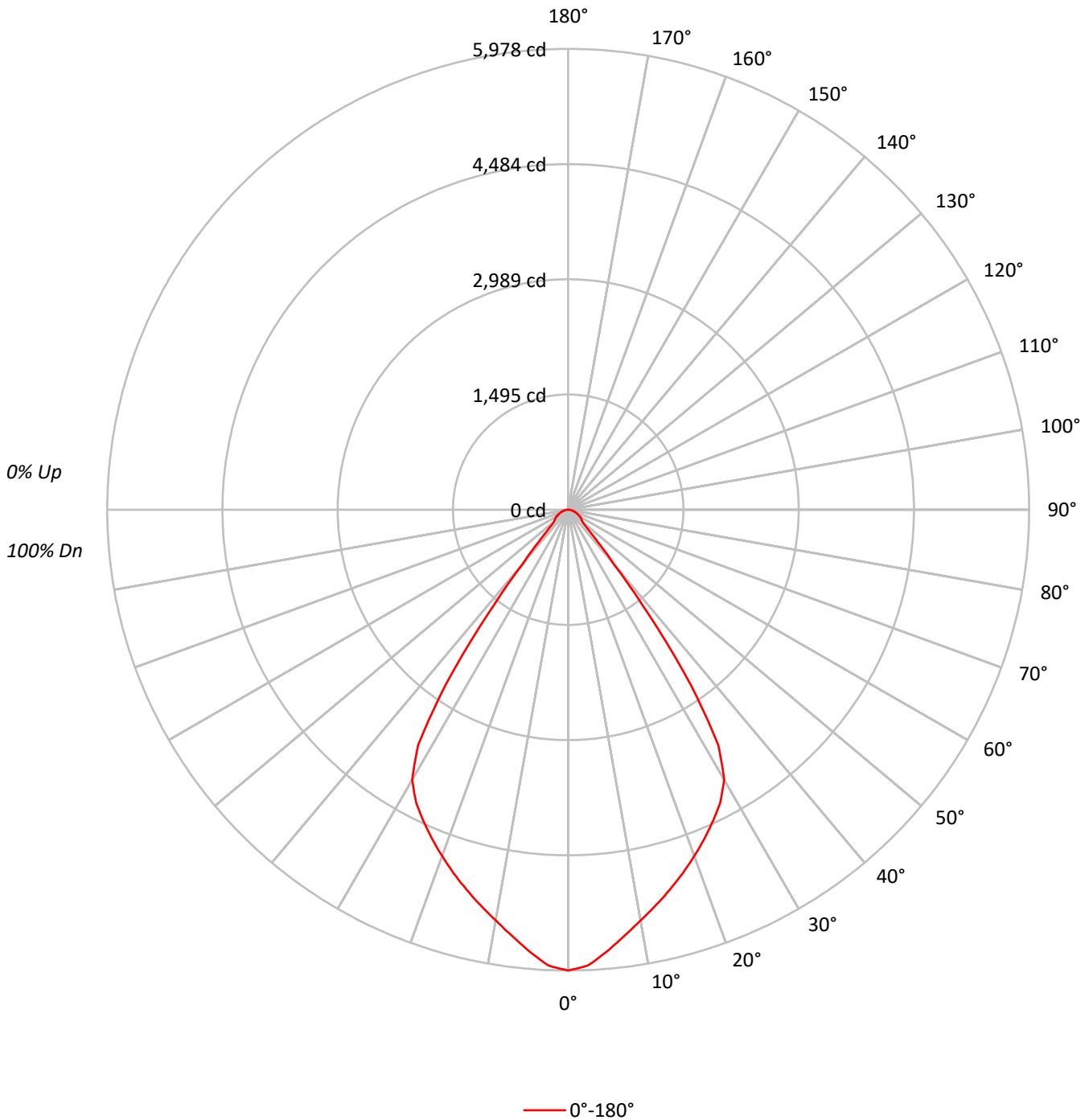
Lumens per Lamp: N/A
Luminaire Lumens: 6402.0 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 0.99
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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: P867373

CATALOG NUMBER: PRLX-2004-L-940-117L-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°	29494
5°	28493
10°	27103
15°	26051
20°	25101
25°	24216
30°	23047
35°	16717
40°	5940
45°	2615
50°	1809
55°	1785
60°	1683
65°	1585
70°	1489
75°	1409
80°	1327
85°	1228

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2615 cd/sqm

TEST NUMBER: P867373

CATALOG NUMBER: PRLX-2004-L-940-117L-L-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.3	8.4
10°-20°	1436.3	22.4
20°-30°	2044.7	31.9
30°-40°	1621.3	25.3
40°-50°	339.8	5.3
50°-60°	184.1	2.9
60°-70°	134.9	2.1
70°-80°	78.2	1.2
80°-90°	24.4	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°	4019.3	62.8
0°-40°	5640.6	88.1
0°-60°	6164.5	96.3
0°-90°	6402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6402.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5978	
5°	5753	538
15°	5100	1436
25°	4448	2045
35°	2776	1621
45°	375	340
55°	208	184
65°	136	135
75°	74	78
85°	22	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5978.0
2.5°	5918.2
5°	5753.1
7.5°	5576.0
10°	5409.8
12.5°	5255.6
15°	5100.2
17.5°	4943.8
20°	4780.8
22.5°	4617.9
25°	4448.4
27.5°	4274.6
30°	4045.4
32.5°	3623.9
35°	2775.5
37.5°	1705.5
40°	922.3
42.5°	563.8
45°	374.8
47.5°	272.7
50°	235.7
52.5°	223.8
55°	207.5
57.5°	189.0
60°	170.6
62.5°	153.2
65°	135.8
67.5°	119.5
70°	103.2
72.5°	88.0
75°	73.9
77.5°	59.7
80°	46.7
82.5°	33.7
85°	21.7
87.5°	10.9
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	8.83	9.89	9.20	10.20	10.52	8.83	9.89	9.20	10.20	10.52
	3H	10.46	11.40	10.84	11.73	12.10	10.46	11.40	10.84	11.73	12.10
	4H	11.09	11.96	11.50	12.31	12.70	11.09	11.96	11.50	12.31	12.70
	6H	11.57	12.36	11.98	12.74	13.13	11.57	12.36	11.98	12.74	13.13
	8H	11.73	12.48	12.16	12.87	13.28	11.73	12.48	12.16	12.87	13.28
	12H	11.84	12.55	12.27	12.93	13.36	11.84	12.55	12.27	12.93	13.36
4H	2H	9.32	10.19	9.73	10.54	10.93	9.32	10.19	9.73	10.54	10.93
	3H	11.16	11.87	11.58	12.28	12.69	11.16	11.87	11.58	12.28	12.69
	4H	11.92	12.55	12.35	12.97	13.42	11.92	12.55	12.35	12.97	13.42
	6H	12.53	13.07	12.99	13.52	13.99	12.53	13.07	12.99	13.52	13.99
	8H	12.73	13.24	13.21	13.69	14.16	12.73	13.24	13.21	13.69	14.16
	12H	12.88	13.32	13.37	13.81	14.29	12.88	13.32	13.37	13.81	14.29
8H	4H	12.15	12.66	12.62	13.11	13.58	12.15	12.66	12.62	13.11	13.58
	6H	12.90	13.30	13.41	13.81	14.29	12.90	13.30	13.41	13.81	14.29
	8H	13.19	13.55	13.72	14.08	14.57	13.19	13.55	13.72	14.08	14.57
	12H	13.44	13.75	13.96	14.25	14.83	13.44	13.75	13.96	14.25	14.83
12H	4H	12.15	12.59	12.64	13.08	13.56	12.15	12.59	12.64	13.08	13.56
	6H	12.94	13.30	13.47	13.82	14.32	12.94	13.30	13.47	13.82	14.32
	8H	13.30	13.61	13.82	14.11	14.68	13.30	13.61	13.82	14.11	14.68