

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: P867389

Luminaire Tested: PRLX-2004-L-940-15L-L-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867389  
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-940-15L-L-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,  
BELL WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

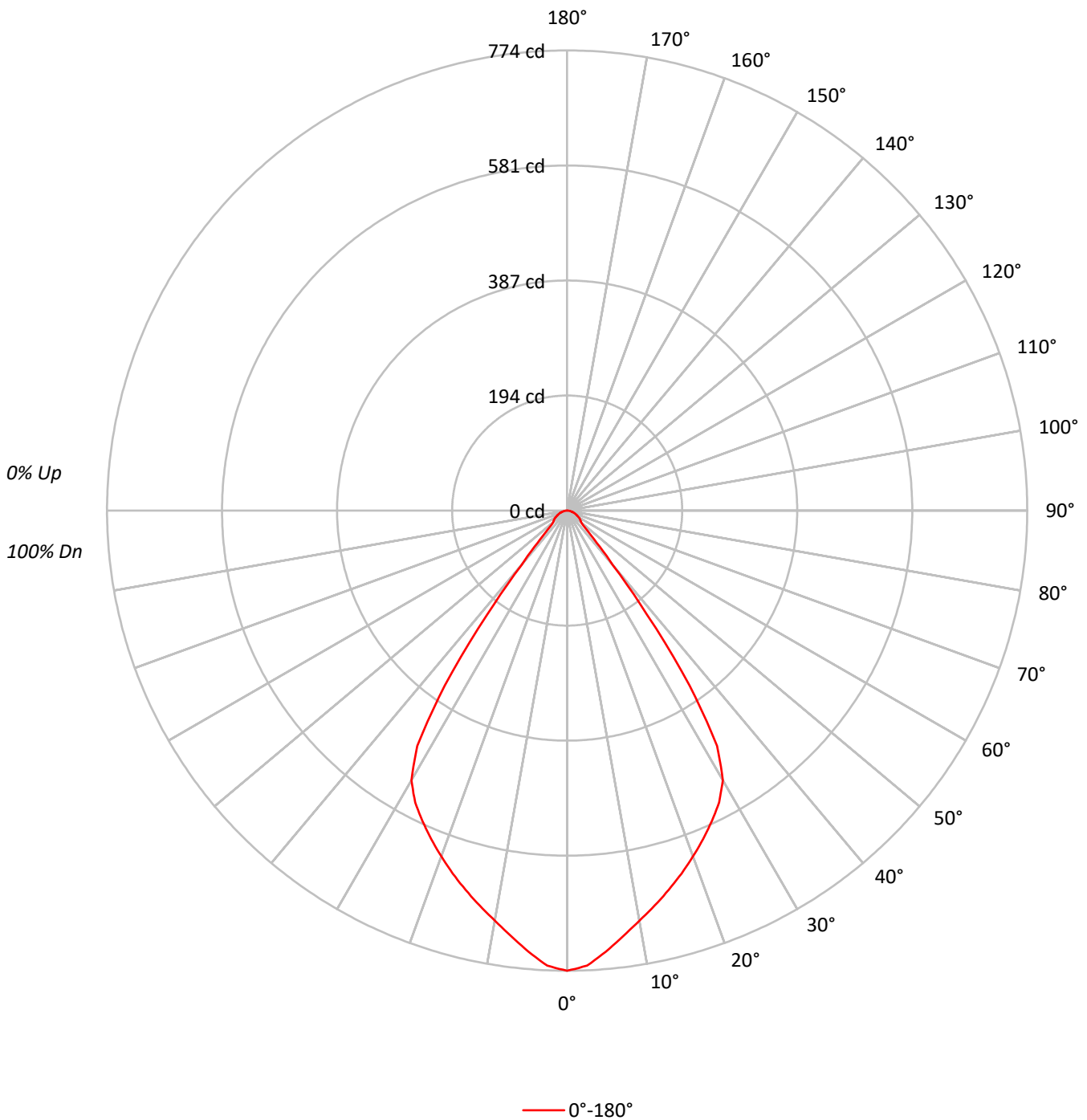
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 828.9 lumens  
Efficiency: N/A  
Efficacy: 50.5 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): 16.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P867389

CATALOG NUMBER: PRLX-2004-L-940-15L-L-X-X-BRSS-X

### Luminous Intensity Polar Plot





TEST NUMBER: P867389

CATALOG NUMBER: PRLX-2004-L-940-15L-L-X-X-BRSS-X

**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°	3819
5°	3689
10°	3509
15°	3373
20°	3250
25°	3135
30°	2984
35°	2164
40°	769
45°	338
50°	234
55°	231
60°	218
65°	205
70°	193
75°	183
80°	170
85°	159

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 338 cd/sqm

TEST NUMBER: P867389

CATALOG NUMBER: PRLX-2004-L-940-15L-L-X-X-BRSS-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.7	8.4
10°-20°	186.0	22.4
20°-30°	264.7	31.9
30°-40°	209.9	25.3
40°-50°	44.0	5.3
50°-60°	23.9	2.9
60°-70°	17.5	2.1
70°-80°	10.1	1.2
80°-90°	3.2	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°	520.4	62.8
0°-40°	730.3	88.1
0°-60°	798.1	96.3
0°-90°	828.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	828.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	774	
5°	745	70
15°	660	186
25°	576	265
35°	359	210
45°	48	44
55°	27	24
65°	18	17
75°	10	10
85°	3	3
90°	0	

TEST NUMBER: P867389

CATALOG NUMBER: PRLX-2004-L-940-15L-L-X-X-BRSS-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	774.0
2.5°	766.2
5°	744.9
7.5°	721.9
10°	700.4
12.5°	680.4
15°	660.3
17.5°	640.1
20°	619.0
22.5°	597.9
25°	575.9
27.5°	553.4
30°	523.8
32.5°	469.2
35°	359.3
37.5°	220.8
40°	119.4
42.5°	73.0
45°	48.5
47.5°	35.3
50°	30.5
52.5°	29.0
55°	26.9
57.5°	24.5
60°	22.1
62.5°	19.8
65°	17.6
67.5°	15.5
70°	13.4
72.5°	11.4
75°	9.6
77.5°	7.7
80°	6.0
82.5°	4.4
85°	2.8
87.5°	1.4
90°	0.0

TEST NUMBER: P867389  
 CATALOG NUMBER: PRLX-2004-L-940-15L-L-X-X-BRSS-X

**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	1.74	2.79	2.10	3.11	3.42	1.74	2.79	2.10	3.11	3.42
	3H	3.37	4.31	3.75	4.64	5.01	3.37	4.31	3.75	4.64	5.01
	4H	4.00	4.87	4.41	5.22	5.61	4.00	4.87	4.41	5.22	5.61
	6H	4.47	5.26	4.89	5.64	6.03	4.47	5.26	4.89	5.64	6.03
	8H	4.63	5.38	5.07	5.77	6.18	4.63	5.38	5.07	5.77	6.18
	12H	4.74	5.45	5.17	5.84	6.27	4.74	5.45	5.17	5.84	6.27
4H	2H	2.23	3.09	2.63	3.45	3.84	2.23	3.09	2.63	3.45	3.84
	3H	4.07	4.78	4.49	5.19	5.60	4.07	4.78	4.49	5.19	5.60
	4H	4.83	5.46	5.26	5.88	6.33	4.83	5.46	5.26	5.88	6.33
	6H	5.43	5.97	5.89	6.42	6.89	5.43	5.97	5.89	6.42	6.89
	8H	5.63	6.14	6.11	6.59	7.07	5.63	6.14	6.11	6.59	7.07
	12H	5.79	6.23	6.28	6.71	7.19	5.79	6.23	6.28	6.71	7.19
8H	4H	5.06	5.56	5.53	6.01	6.49	5.06	5.56	5.53	6.01	6.49
	6H	5.80	6.20	6.31	6.70	7.19	5.80	6.20	6.31	6.70	7.19
	8H	6.09	6.45	6.63	6.98	7.47	6.09	6.45	6.63	6.98	7.47
	12H	6.34	6.65	6.86	7.15	7.73	6.34	6.65	6.86	7.15	7.73
12H	4H	5.06	5.50	5.55	5.99	6.47	5.06	5.50	5.55	5.99	6.47
	6H	5.84	6.20	6.37	6.72	7.22	5.84	6.20	6.37	6.72	7.22
	8H	6.20	6.51	6.72	7.01	7.58	6.20	6.51	6.72	7.01	7.58