

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: P865749

Luminaire Tested: PRLX-2004-S-927-15L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-S-927-15L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

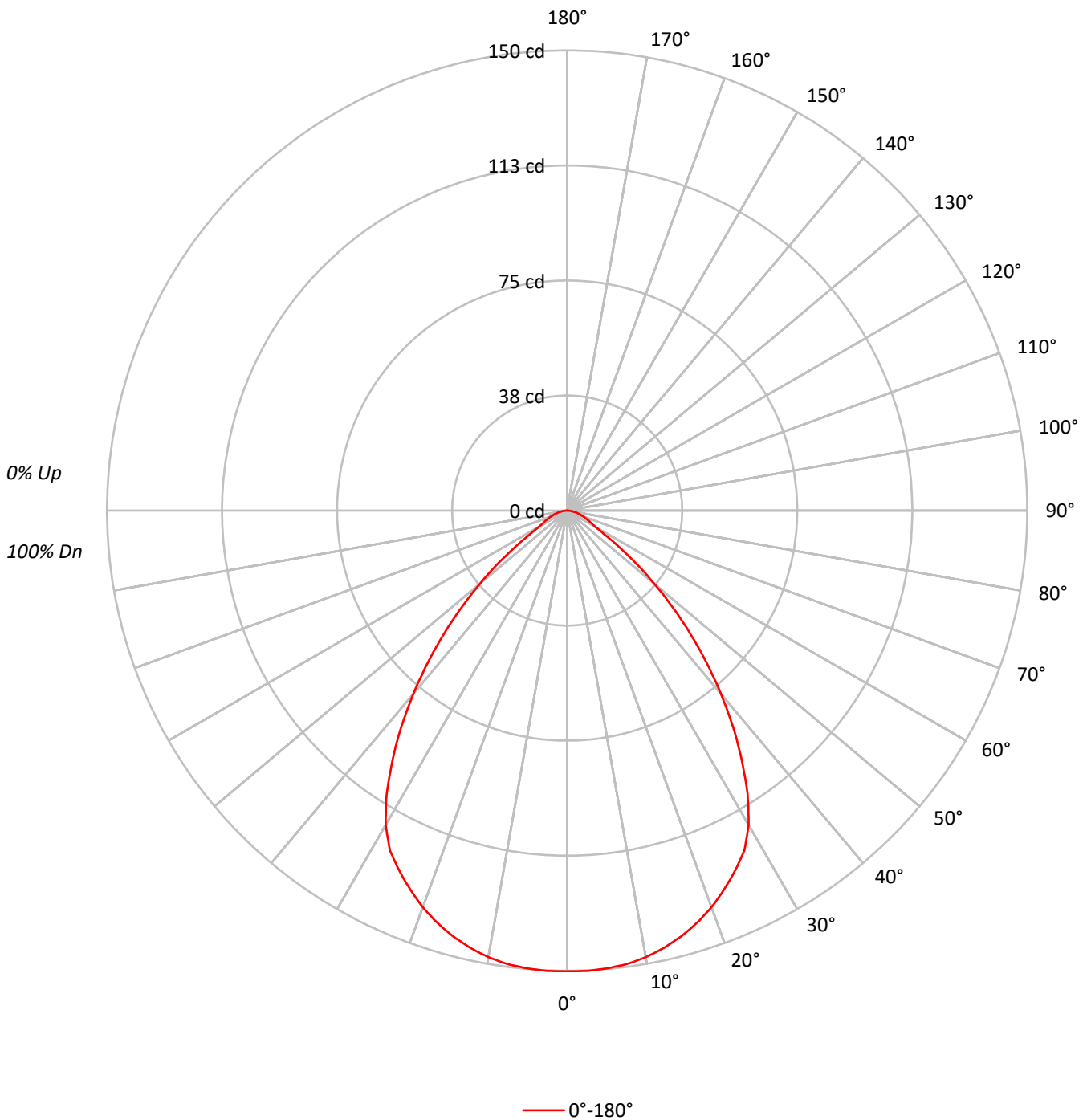
Lumens per Lamp: N/A
Luminaire Lumens: 251.7 lumens
Efficiency: N/A
Efficacy: 16.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.16
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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: P865749

CATALOG NUMBER: PRLX-2004-S-927-15L-G-U-S-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P865749

CATALOG NUMBER: PRLX-2004-S-927-15L-G-U-S-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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	81	74	69	89	80	73	68	78	72	68	76	71	67	74	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	60	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2450
5°	2453
10°	2448
15°	2426
20°	2388
25°	2331
30°	2228
35°	1975
40°	1661
45°	1310
50°	941
55°	583
60°	346
65°	293
70°	258
75°	233
80°	207
85°	206

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1310 cd/sqm

TEST NUMBER: P865749

CATALOG NUMBER: PRLX-2004-S-927-15L-G-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.2	5.7
10°-20°	40.5	16.1
20°-30°	59.5	23.6
30°-40°	61.6	24.5
40°-50°	43.7	17.4
50°-60°	19.3	7.7
60°-70°	7.7	3.0
70°-80°	4.0	1.6
80°-90°	1.2	0.5
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°	114.2	45.4
0°-40°	175.8	69.9
0°-60°	238.9	94.9
0°-90°	251.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	251.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	150	
5°	150	14
15°	144	40
25°	130	59
35°	99	62
45°	57	44
55°	20	19
65°	8	8
75°	4	4
85°	1	1
90°	0	

TEST NUMBER: P865749

CATALOG NUMBER: PRLX-2004-S-927-15L-G-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	150.2
2.5°	150.2
5°	149.8
7.5°	149.1
10°	147.8
12.5°	146.0
15°	143.7
17.5°	140.9
20°	137.6
22.5°	133.7
25°	129.5
27.5°	125.0
30°	118.3
32.5°	109.5
35°	99.2
37.5°	88.8
40°	78.0
42.5°	67.2
45°	56.8
47.5°	46.5
50°	37.1
52.5°	28.5
55°	20.5
57.5°	14.3
60°	10.6
62.5°	8.9
65°	7.6
67.5°	6.5
70°	5.4
72.5°	4.6
75°	3.7
77.5°	3.0
80°	2.2
82.5°	1.7
85°	1.1
87.5°	0.5
90°	0.0



TEST NUMBER: P865749
 CATALOG NUMBER: PRLX-2004-S-927-15L-G-U-S-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	5.91	7.20	6.27	7.51	7.83	5.91	7.20	6.27	7.51	7.83
	3H	6.81	7.96	7.19	8.29	8.65	6.81	7.96	7.19	8.29	8.65
	4H	7.17	8.23	7.57	8.59	8.97	7.17	8.23	7.57	8.59	8.97
	6H	7.44	8.42	7.86	8.79	9.18	7.44	8.42	7.86	8.79	9.18
	8H	7.53	8.46	7.96	8.85	9.25	7.53	8.46	7.96	8.85	9.25
	12H	7.60	8.48	8.03	8.86	9.30	7.60	8.48	8.03	8.86	9.30
4H	2H	6.14	7.21	6.55	7.56	7.94	6.14	7.21	6.55	7.56	7.94
	3H	7.27	8.13	7.68	8.54	8.94	7.27	8.13	7.68	8.54	8.94
	4H	7.74	8.51	8.18	8.93	9.38	7.74	8.51	8.18	8.93	9.38
	6H	8.13	8.80	8.59	9.24	9.71	8.13	8.80	8.59	9.24	9.71
	8H	8.26	8.89	8.73	9.33	9.81	8.26	8.89	8.73	9.33	9.81
	12H	8.38	8.92	8.86	9.41	9.88	8.38	8.92	8.86	9.41	9.88
8H	4H	7.88	8.50	8.35	8.95	9.42	7.88	8.50	8.35	8.95	9.42
	6H	8.37	8.88	8.87	9.37	9.85	8.37	8.88	8.87	9.37	9.85
	8H	8.57	9.03	9.10	9.55	10.04	8.57	9.03	9.10	9.55	10.04
	12H	8.76	9.17	9.28	9.66	10.23	8.76	9.17	9.28	9.66	10.23
12H	4H	7.87	8.42	8.36	8.90	9.38	7.87	8.42	8.36	8.90	9.38
	6H	8.38	8.84	8.90	9.36	9.85	8.38	8.84	8.90	9.36	9.85
	8H	8.64	9.05	9.16	9.54	10.11	8.64	9.05	9.16	9.54	10.11