

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: P867009

Luminaire Tested: PRLX-2002-L-930-15L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-930-15L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

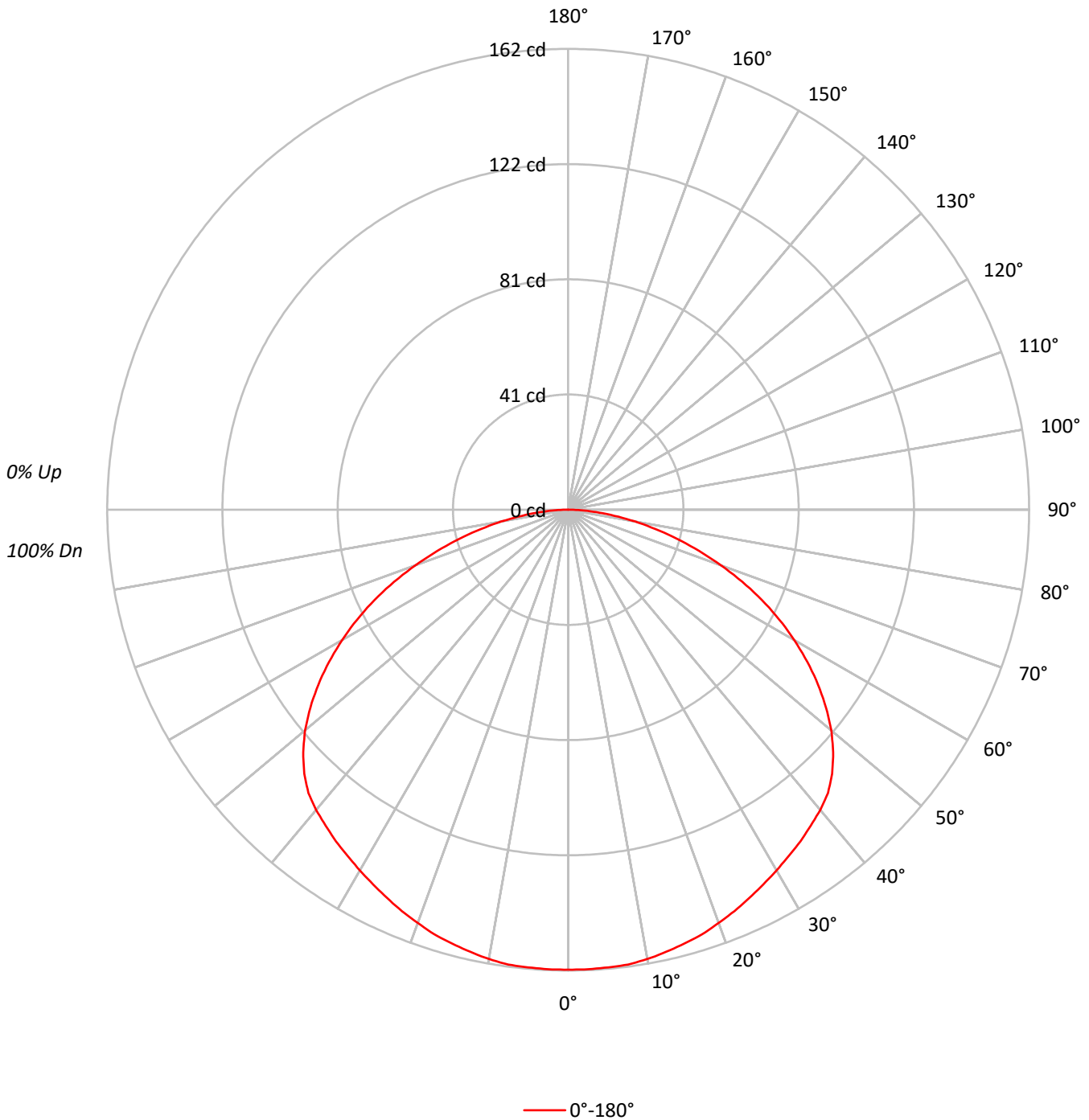
Lumens per Lamp: N/A
Luminaire Lumens: 543.0 lumens
Efficiency: N/A
Efficacy: 33.1 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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: P867009

CATALOG NUMBER: PRLX-2002-L-930-15L-G-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P867009

CATALOG NUMBER: PRLX-2002-L-930-15L-G-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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	798
5°	800
10°	804
15°	807
20°	812
25°	820
30°	834
35°	857
40°	888
45°	915
50°	926
55°	922
60°	906
65°	877
70°	824
75°	755
80°	673
85°	555

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 926 cd/sqm

TEST NUMBER: P867009

CATALOG NUMBER: PRLX-2002-L-930-15L-G-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.4	2.8
10°-20°	44.6	8.2
20°-30°	69.6	12.8
30°-40°	89.2	16.4
40°-50°	100.9	18.6
50°-60°	95.6	17.6
60°-70°	74.1	13.6
70°-80°	42.1	7.8
80°-90°	11.5	2.1
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°	129.6	23.9
0°-40°	218.8	40.3
0°-60°	415.3	76.5
0°-90°	543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	543.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	162	
5°	162	15
15°	158	45
25°	151	70
35°	142	89
45°	131	101
55°	107	96
65°	75	74
75°	40	42
85°	10	12
90°	0	

TEST NUMBER: P867009

CATALOG NUMBER: PRLX-2002-L-930-15L-G-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	161.7
2.5°	161.7
5°	161.5
7.5°	161.3
10°	160.4
12.5°	159.2
15°	157.9
17.5°	156.5
20°	154.6
22.5°	152.7
25°	150.6
27.5°	148.5
30°	146.4
32.5°	144.3
35°	142.3
37.5°	140.0
40°	137.8
42.5°	135.1
45°	131.2
47.5°	126.3
50°	120.7
52.5°	114.2
55°	107.2
57.5°	99.7
60°	91.8
62.5°	83.6
65°	75.1
67.5°	66.2
70°	57.1
72.5°	48.2
75°	39.6
77.5°	31.4
80°	23.7
82.5°	16.4
85°	9.8
87.5°	4.4
90°	0.0



TEST NUMBER: P867009
 CATALOG NUMBER: PRLX-2002-L-930-15L-G-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	12.16	13.85	12.52	14.17	14.48	12.16	13.85	12.52	14.17	14.48
	3H	14.00	15.53	14.37	15.86	16.22	14.00	15.53	14.37	15.86	16.22
	4H	14.66	16.12	15.06	16.46	16.84	14.66	16.12	15.06	16.46	16.84
	6H	15.15	16.50	15.56	16.86	17.25	15.15	16.50	15.56	16.86	17.25
	8H	15.30	16.59	15.73	16.98	17.38	15.30	16.59	15.73	16.98	17.38
	12H	15.41	16.64	15.83	17.02	17.45	15.41	16.64	15.83	17.02	17.45
4H	2H	12.82	14.27	13.22	14.62	14.99	12.82	14.27	13.22	14.62	14.99
	3H	14.87	16.09	15.28	16.49	16.89	14.87	16.09	15.28	16.49	16.89
	4H	15.66	16.77	16.09	17.18	17.61	15.66	16.77	16.09	17.18	17.61
	6H	16.28	17.24	16.73	17.68	18.14	16.28	17.24	16.73	17.68	18.14
	8H	16.48	17.38	16.93	17.83	18.29	16.48	17.38	16.93	17.83	18.29
	12H	16.62	17.44	17.10	17.91	18.38	16.62	17.44	17.10	17.91	18.38
8H	4H	15.98	16.89	16.44	17.33	17.79	15.98	16.89	16.44	17.33	17.79
	6H	16.71	17.47	17.20	17.96	18.43	16.71	17.47	17.20	17.96	18.43
	8H	16.98	17.66	17.49	18.17	18.65	16.98	17.66	17.49	18.17	18.65
	12H	17.20	17.80	17.70	18.29	18.85	17.20	17.80	17.70	18.29	18.85
12H	4H	16.02	16.84	16.50	17.31	17.78	16.02	16.84	16.50	17.31	17.78
	6H	16.77	17.45	17.28	17.95	18.44	16.77	17.45	17.28	17.95	18.44
	8H	17.10	17.70	17.60	18.19	18.75	17.10	17.70	17.60	18.19	18.75