

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: P866156

Luminaire Tested: PRLX-2002-M-927-15L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-927-15L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

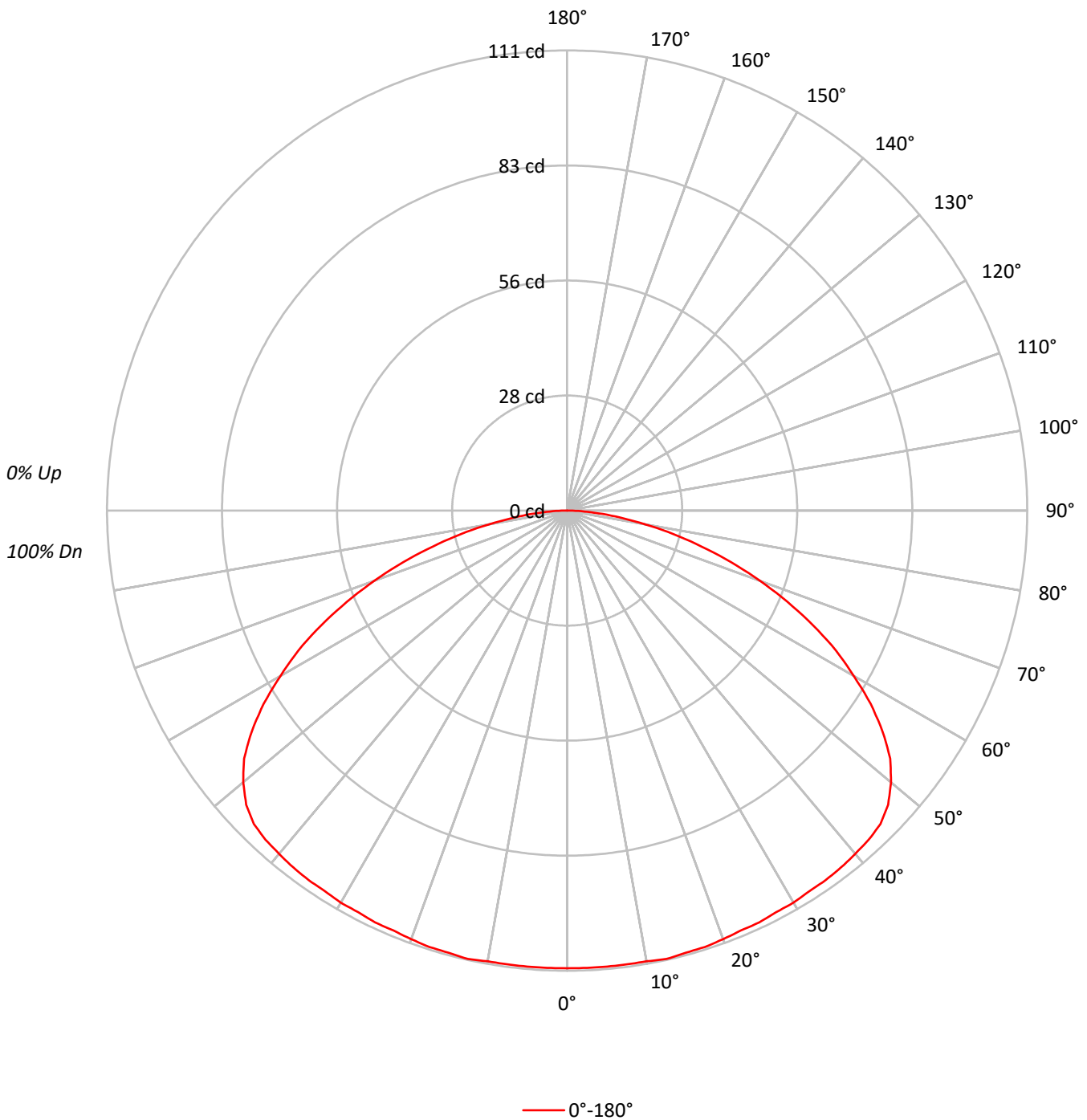
Lumens per Lamp: N/A
Luminaire Lumens: 434.8 lumens
Efficiency: N/A
Efficacy: 31.1 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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: P866156

CATALOG NUMBER: PRLX-2002-M-927-15L-G-U-S-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866156

CATALOG NUMBER: PRLX-2002-M-927-15L-G-U-S-X-X-BLAK-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	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	67	61	57	55
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36	48	41	36	47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25	36	30	25	35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	878
5°	882
10°	892
15°	909
20°	931
25°	962
30°	1003
35°	1057
40°	1123
45°	1203
50°	1262
55°	1289
60°	1271
65°	1233
70°	1151
75°	1030
80°	870
85°	694

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 1289 cd/sqm

TEST NUMBER: P866156

CATALOG NUMBER: PRLX-2002-M-927-15L-G-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	2.4
10°-20°	31.3	7.2
20°-30°	50.7	11.7
30°-40°	68.3	15.7
40°-50°	82.2	18.9
50°-60°	82.5	19.0
60°-70°	64.5	14.8
70°-80°	35.7	8.2
80°-90°	9.1	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°	92.5	21.3
0°-40°	160.8	37.0
0°-60°	325.5	74.9
0°-90°	434.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	434.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	110	
5°	110	11
15°	110	31
25°	110	51
35°	109	68
45°	107	82
55°	93	83
65°	66	65
75°	34	36
85°	8	9
90°	0	

TEST NUMBER: P866156

CATALOG NUMBER: PRLX-2002-M-927-15L-G-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	110.4
2.5°	110.4
5°	110.4
7.5°	110.4
10°	110.4
12.5°	110.8
15°	110.4
17.5°	110.4
20°	110.0
22.5°	109.6
25°	109.6
27.5°	109.2
30°	109.2
32.5°	108.8
35°	108.8
37.5°	108.5
40°	108.1
42.5°	107.7
45°	106.9
47.5°	105.0
50°	102.0
52.5°	98.2
55°	92.9
57.5°	86.8
60°	79.9
62.5°	73.1
65°	65.5
67.5°	57.5
70°	49.5
72.5°	41.5
75°	33.5
77.5°	26.3
80°	19.0
82.5°	12.9
85°	7.6
87.5°	3.4
90°	0.0

TEST NUMBER: P866156
 CATALOG NUMBER: PRLX-2002-M-927-15L-G-U-S-X-X-BLAK-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	13.57	15.31	13.94	15.62	15.94	13.57	15.31	13.94	15.62	15.94
	3H	15.41	16.98	15.78	17.31	17.67	15.41	16.98	15.78	17.31	17.67
	4H	16.05	17.54	16.45	17.89	18.26	16.05	17.54	16.45	17.89	18.26
	6H	16.49	17.88	16.90	18.24	18.63	16.49	17.88	16.90	18.24	18.63
	8H	16.62	17.95	17.05	18.33	18.73	16.62	17.95	17.05	18.33	18.73
	12H	16.70	17.97	17.13	18.35	18.78	16.70	17.97	17.13	18.35	18.78
4H	2H	14.25	15.74	14.64	16.08	16.45	14.25	15.74	14.64	16.08	16.45
	3H	16.29	17.54	16.69	17.94	18.33	16.29	17.54	16.69	17.94	18.33
	4H	17.05	18.18	17.48	18.60	19.03	17.05	18.18	17.48	18.60	19.03
	6H	17.61	18.60	18.06	19.04	19.49	17.61	18.60	18.06	19.04	19.49
	8H	17.78	18.71	18.23	19.15	19.61	17.78	18.71	18.23	19.15	19.61
	12H	17.90	18.74	18.38	19.21	19.68	17.90	18.74	18.38	19.21	19.68
8H	4H	17.36	18.29	17.81	18.73	19.19	17.36	18.29	17.81	18.73	19.19
	6H	18.02	18.80	18.51	19.28	19.76	18.02	18.80	18.51	19.28	19.76
	8H	18.25	18.95	18.76	19.45	19.94	18.25	18.95	18.76	19.45	19.94
	12H	18.43	19.05	18.94	19.54	20.10	18.43	19.05	18.94	19.54	20.10
12H	4H	17.39	18.23	17.87	18.70	19.17	17.39	18.23	17.87	18.70	19.17
	6H	18.07	18.77	18.57	19.27	19.76	18.07	18.77	18.57	19.27	19.76
	8H	18.35	18.97	18.86	19.46	20.02	18.35	18.97	18.86	19.46	20.02