

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: P866028

Luminaire Tested: PRLX-2001-M-935-15L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-935-15L-G-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 2  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

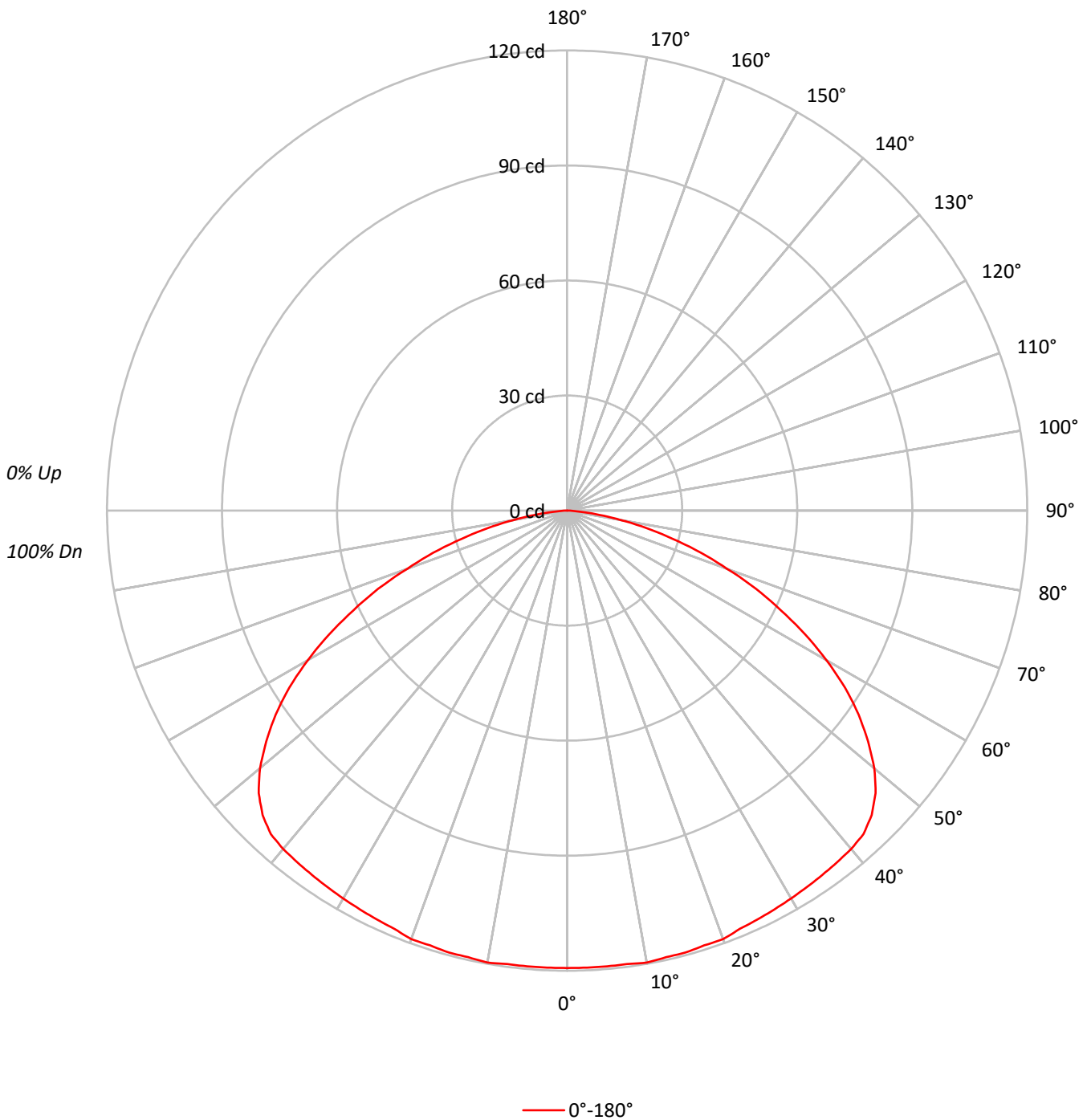
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 438.0 lumens  
Efficiency: N/A  
Efficacy: 31.3 lumens/watt  
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14  
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: P866028

CATALOG NUMBER: PRLX-2001-M-935-15L-G-U-S-X-X-BLAK-X

### Luminous Intensity Polar Plot





TEST NUMBER: P866028

CATALOG NUMBER: PRLX-2001-M-935-15L-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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	54	45	38	66	53	45	38	52	44	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1012
5°	1016
10°	1031
15°	1048
20°	1074
25°	1101
30°	1144
35°	1202
40°	1276
45°	1348
50°	1381
55°	1373
60°	1327
65°	1235
70°	1102
75°	934
80°	694
85°	360

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 1381 cd/sqm

TEST NUMBER: P866028

CATALOG NUMBER: PRLX-2001-M-935-15L-G-U-S-X-X-BLAK-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.4	2.6
10°-20°	33.8	7.7
20°-30°	54.4	12.4
30°-40°	72.9	16.6
40°-50°	86.2	19.7
50°-60°	82.5	18.8
60°-70°	60.9	13.9
70°-80°	30.5	7.0
80°-90°	5.5	1.2
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°	99.6	22.7
0°-40°	172.5	39.4
0°-60°	341.2	77.9
0°-90°	438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	438.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	119	
5°	119	11
15°	119	34
25°	118	54
35°	116	73
45°	112	86
55°	93	83
65°	62	61
75°	28	30
85°	4	5
90°	0	

TEST NUMBER: P866028

CATALOG NUMBER: PRLX-2001-M-935-15L-G-U-S-X-X-BLAK-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	119.3
2.5°	119.3
5°	119.3
7.5°	119.3
10°	119.7
12.5°	119.3
15°	119.3
17.5°	118.9
20°	118.9
22.5°	118.0
25°	117.6
27.5°	117.2
30°	116.8
32.5°	116.4
35°	116.0
37.5°	115.6
40°	115.2
42.5°	114.4
45°	112.3
47.5°	109.1
50°	104.6
52.5°	98.9
55°	92.8
57.5°	85.9
60°	78.2
62.5°	70.0
65°	61.5
67.5°	53.3
70°	44.4
72.5°	36.6
75°	28.5
77.5°	21.2
80°	14.2
82.5°	8.5
85°	3.7
87.5°	0.8
90°	0.0

TEST NUMBER: P866028  
 CATALOG NUMBER: PRLX-2001-M-935-15L-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	13.74	15.44	14.11	15.76	16.07	13.74	15.44	14.11	15.76	16.07
	3H	15.36	16.89	15.73	17.22	17.58	15.36	16.89	15.73	17.22	17.58
	4H	15.88	17.32	16.27	17.67	18.05	15.88	17.32	16.27	17.67	18.05
	6H	16.18	17.52	16.59	17.88	18.27	16.18	17.52	16.59	17.88	18.27
	8H	16.24	17.52	16.66	17.91	18.31	16.24	17.52	16.66	17.91	18.31
	12H	16.25	17.48	16.68	17.87	18.29	16.25	17.48	16.68	17.87	18.29
4H	2H	14.34	15.79	14.74	16.14	16.51	14.34	15.79	14.74	16.14	16.51
	3H	16.15	17.37	16.56	17.76	18.16	16.15	17.37	16.56	17.76	18.16
	4H	16.78	17.88	17.21	18.29	18.72	16.78	17.88	17.21	18.29	18.72
	6H	17.17	18.13	17.63	18.57	19.02	17.17	18.13	17.63	18.57	19.02
	8H	17.26	18.15	17.72	18.60	19.06	17.26	18.15	17.72	18.60	19.06
	12H	17.30	18.10	17.77	18.57	19.04	17.30	18.10	17.77	18.57	19.04
8H	4H	17.02	17.91	17.48	18.35	18.82	17.02	17.91	17.48	18.35	18.82
	6H	17.48	18.23	17.98	18.71	19.19	17.48	18.23	17.98	18.71	19.19
	8H	17.60	18.27	18.11	18.77	19.26	17.60	18.27	18.11	18.77	19.26
	12H	17.67	18.25	18.17	18.74	19.30	17.67	18.25	18.17	18.74	19.30
12H	4H	17.03	17.84	17.51	18.31	18.78	17.03	17.84	17.51	18.31	18.78
	6H	17.50	18.17	18.01	18.67	19.16	17.50	18.17	18.01	18.67	19.16
	8H	17.66	18.24	18.16	18.73	19.29	17.66	18.24	18.16	18.73	19.29