

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: P865672

Luminaire Tested: PRLX-2002-S-935-15L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-935-15L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

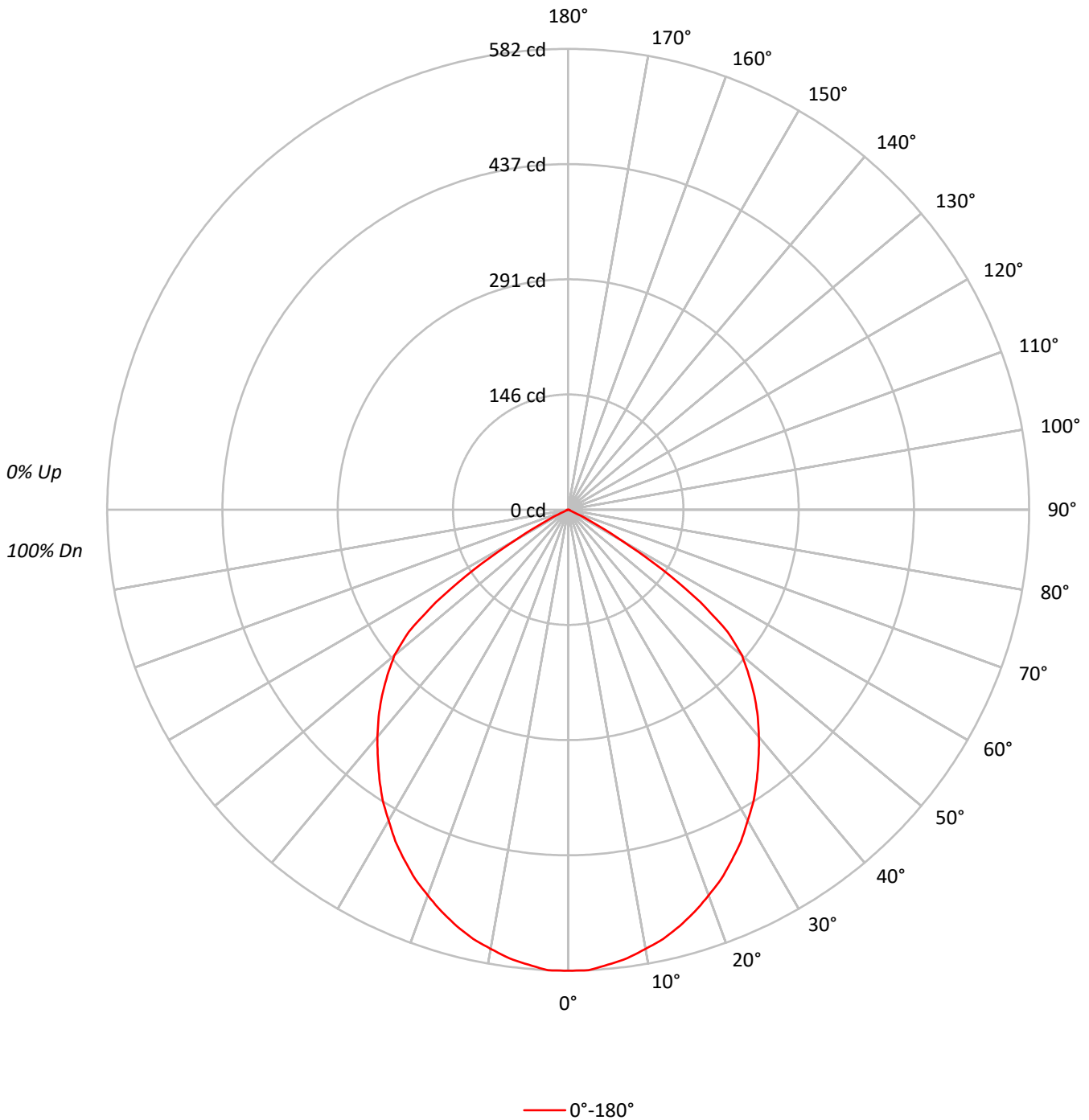
Lumens per Lamp: N/A
Luminaire Lumens: 1146.9 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P865672

CATALOG NUMBER: PRLX-2002-S-935-15L-L-U-S-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P865672

CATALOG NUMBER: PRLX-2002-S-935-15L-L-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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10936
5°	10876
10°	10743
15°	10583
20°	10363
25°	10127
30°	9832
35°	9523
40°	9186
45°	8833
50°	8370
55°	6668
60°	2908
65°	604
70°	77
75°	102
80°	151
85°	302

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8833 cd/sqm

TEST NUMBER: P865672

CATALOG NUMBER: PRLX-2002-S-935-15L-L-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	4.8
10°-20°	153.3	13.4
20°-30°	225.0	19.6
30°-40°	259.7	22.6
40°-50°	255.9	22.3
50°-60°	173.2	15.1
60°-70°	22.4	2.0
70°-80°	1.5	0.1
80°-90°	1.3	0.1
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°	432.9	37.7
0°-40°	692.6	60.4
0°-60°	1121.7	97.8
0°-90°	1146.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1146.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	582	
5°	577	55
15°	544	153
25°	489	225
35°	415	260
45°	332	256
55°	204	173
65°	14	22
75°	1	1
85°	1	1
90°	0	

TEST NUMBER: P865672

CATALOG NUMBER: PRLX-2002-S-935-15L-L-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	582.2
2.5°	582.2
5°	576.8
7.5°	571.4
10°	563.2
12.5°	555.1
15°	544.2
17.5°	532.0
20°	518.4
22.5°	504.9
25°	488.6
27.5°	472.3
30°	453.3
32.5°	435.6
35°	415.3
37.5°	394.9
40°	374.6
42.5°	354.2
45°	332.5
47.5°	309.4
50°	286.4
52.5°	253.8
55°	203.6
57.5°	141.1
60°	77.4
62.5°	36.6
65°	13.6
67.5°	2.7
70°	1.4
72.5°	1.4
75°	1.4
77.5°	1.4
80°	1.4
82.5°	1.4
85°	1.4
87.5°	1.4
90°	0.0



TEST NUMBER: P865672
 CATALOG NUMBER: PRLX-2002-S-935-15L-L-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	16.79	18.20	17.16	18.51	18.83	16.79	18.20	17.16	18.51	18.83
	3H	16.68	17.91	17.06	18.24	18.60	16.68	17.91	17.06	18.24	18.60
	4H	16.61	17.75	17.01	18.10	18.48	16.61	17.75	17.01	18.10	18.48
	6H	16.54	17.58	16.95	17.95	18.35	16.54	17.58	16.95	17.95	18.35
	8H	16.50	17.49	16.93	17.88	18.28	16.50	17.49	16.93	17.88	18.28
	12H	16.46	17.41	16.89	17.79	18.22	16.46	17.41	16.89	17.79	18.22
4H	2H	16.63	17.77	17.03	18.12	18.50	16.63	17.77	17.03	18.12	18.50
	3H	16.51	17.43	16.92	17.83	18.24	16.51	17.43	16.92	17.83	18.24
	4H	16.43	17.24	16.86	17.66	18.11	16.43	17.24	16.86	17.66	18.11
	6H	16.36	17.06	16.82	17.50	17.97	16.36	17.06	16.82	17.50	17.97
	8H	16.30	16.96	16.77	17.40	17.87	16.30	16.96	16.77	17.40	17.87
	12H	16.26	16.84	16.75	17.32	17.80	16.26	16.84	16.75	17.32	17.80
8H	4H	16.30	16.95	16.77	17.40	17.87	16.30	16.95	16.77	17.40	17.87
	6H	16.20	16.74	16.70	17.23	17.71	16.20	16.74	16.70	17.23	17.71
	8H	16.13	16.62	16.65	17.14	17.63	16.13	16.62	16.65	17.14	17.63
	12H	16.09	16.53	16.60	17.03	17.60	16.09	16.53	16.60	17.03	17.60
12H	4H	16.25	16.83	16.74	17.31	17.79	16.25	16.83	16.74	17.31	17.79
	6H	16.13	16.62	16.65	17.14	17.63	16.13	16.62	16.65	17.14	17.63
	8H	16.08	16.53	16.60	17.02	17.59	16.08	16.53	16.60	17.02	17.59