

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: P865668

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-S-935-15L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

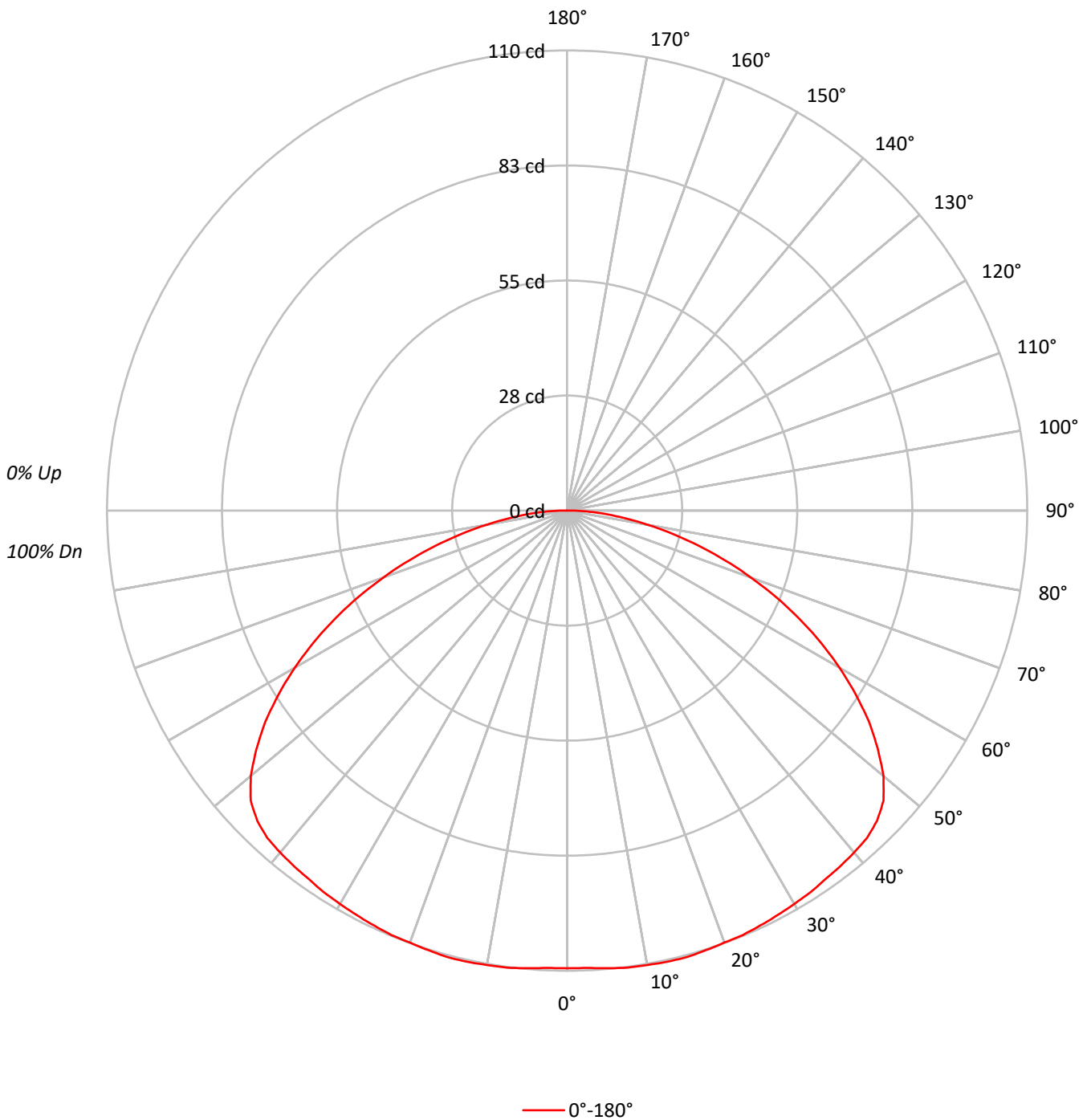
Lumens per Lamp: N/A
Luminaire Lumens: 424.1 lumens
Efficiency: N/A
Efficacy: 27.2 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.65
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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: P865668

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

Luminous Intensity Polar Plot





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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	89	92	89	87	89	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	59	69	63	58	67	62	57	55
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46
5	73	60	50	43	71	59	50	43	56	48	42	54	47	42	52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	37	49	42	36	47	41	36	34
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28	40	33	28	39	33	28	26
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23	34	27	22	33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2055
5°	2070
10°	2104
15°	2149
20°	2197
25°	2267
30°	2356
35°	2467
40°	2616
45°	2784
50°	2884
55°	2885
60°	2825
65°	2725
70°	2565
75°	2366
80°	2131
85°	1897

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 2888 cd/sqm

TEST NUMBER: P865668

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	2.5
10°-20°	31.3	7.4
20°-30°	50.6	11.9
30°-40°	67.6	15.9
40°-50°	80.5	19.0
50°-60°	78.4	18.5
60°-70°	60.6	14.3
70°-80°	34.6	8.2
80°-90°	10.1	2.4
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°	92.4	21.8
0°-40°	160.0	37.7
0°-60°	318.9	75.2
0°-90°	424.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	424.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	109	
5°	110	10
15°	110	31
25°	109	51
35°	108	68
45°	105	81
55°	88	78
65°	61	61
75°	33	35
85°	9	10
90°	0	

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

CANDELA DISTRIBUTION (FULL):

	0°
0°	109.4
2.5°	109.4
5°	109.8
7.5°	110.2
10°	110.3
12.5°	110.5
15°	110.5
17.5°	110.2
20°	109.9
22.5°	109.8
25°	109.4
27.5°	109.0
30°	108.6
32.5°	108.2
35°	107.6
37.5°	107.2
40°	106.7
42.5°	106.1
45°	104.8
47.5°	102.6
50°	98.7
52.5°	93.6
55°	88.1
57.5°	81.8
60°	75.2
62.5°	68.4
65°	61.3
67.5°	54.1
70°	46.7
72.5°	39.6
75°	32.6
77.5°	25.9
80°	19.7
82.5°	13.8
85°	8.8
87.5°	4.6
90°	0.0



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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	16.24	17.97	16.61	18.29	18.60	16.24	17.97	16.61	18.29	18.60
	3H	18.07	19.64	18.45	19.97	20.33	18.07	19.64	18.45	19.97	20.33
	4H	18.75	20.23	19.15	20.58	20.95	18.75	20.23	19.15	20.58	20.95
	6H	19.25	20.62	19.66	20.99	21.38	19.25	20.62	19.66	20.99	21.38
	8H	19.41	20.73	19.83	21.12	21.51	19.41	20.73	19.83	21.12	21.51
	12H	19.53	20.79	19.96	21.17	21.60	19.53	20.79	19.96	21.17	21.60
4H	2H	16.90	18.39	17.30	18.73	19.10	16.90	18.39	17.30	18.73	19.10
	3H	18.95	20.20	19.36	20.59	20.99	18.95	20.20	19.36	20.59	20.99
	4H	19.75	20.89	20.18	21.30	21.73	19.75	20.89	20.18	21.30	21.73
	6H	20.38	21.37	20.83	21.81	22.26	20.38	21.37	20.83	21.81	22.26
	8H	20.59	21.52	21.05	21.96	22.43	20.59	21.52	21.05	21.96	22.43
	12H	20.76	21.60	21.24	22.07	22.54	20.76	21.60	21.24	22.07	22.54
8H	4H	20.08	21.01	20.54	21.45	21.91	20.08	21.01	20.54	21.45	21.91
	6H	20.83	21.61	21.32	22.09	22.56	20.83	21.61	21.32	22.09	22.56
	8H	21.11	21.81	21.62	22.32	22.80	21.11	21.81	21.62	22.32	22.80
	12H	21.36	21.98	21.86	22.46	23.02	21.36	21.98	21.86	22.46	23.02
12H	4H	20.12	20.96	20.60	21.43	21.90	20.12	20.96	20.60	21.43	21.90
	6H	20.89	21.59	21.39	22.09	22.58	20.89	21.59	21.39	22.09	22.58
	8H	21.24	21.86	21.74	22.34	22.90	21.24	21.86	21.74	22.34	22.90