

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: P865503

Luminaire Tested: PRLX-2001-S-935-10L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-2001-S-935-10L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

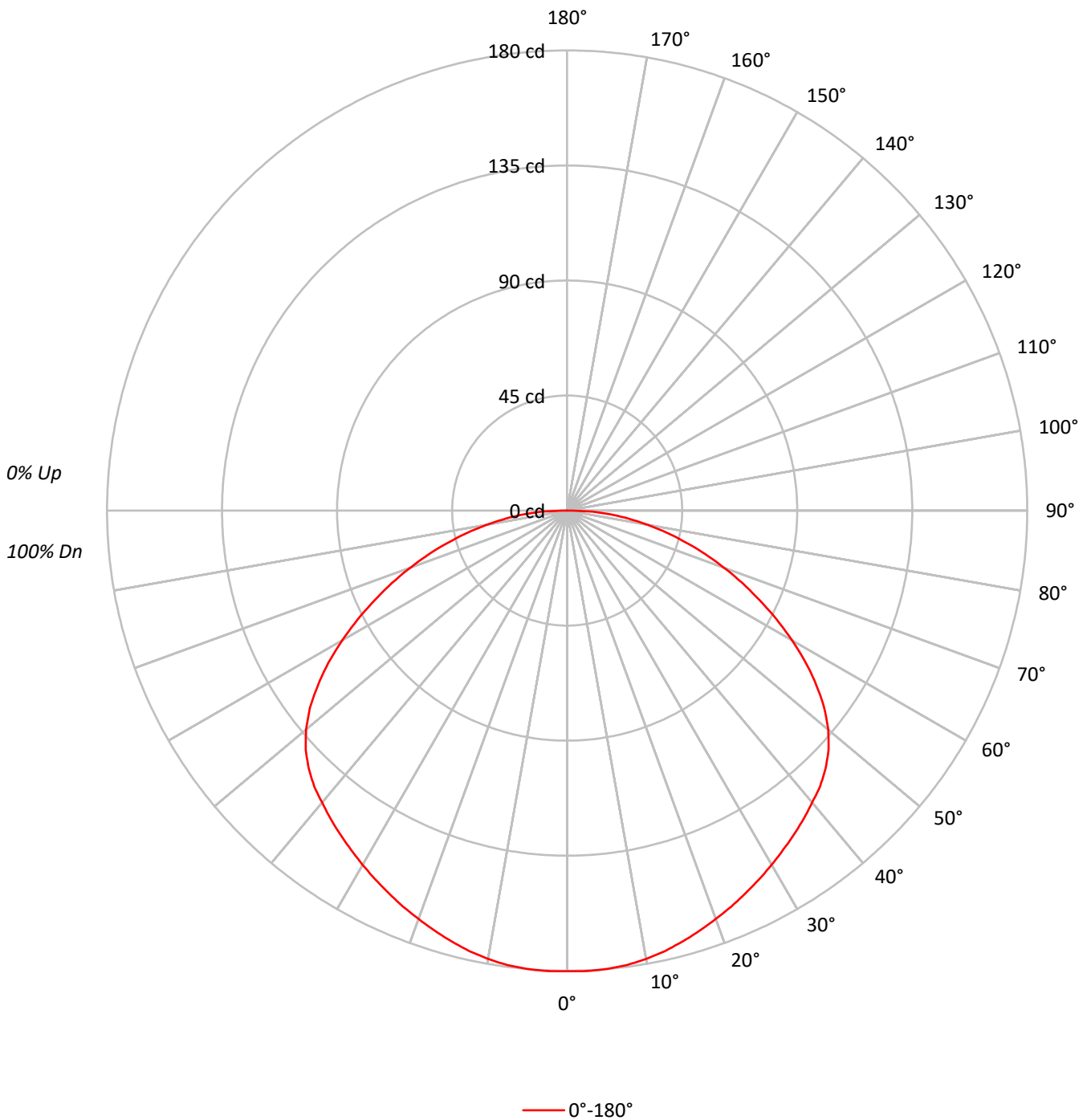
Lumens per Lamp: N/A
Luminaire Lumens: 607.4 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.5
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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: P865503

CATALOG NUMBER: PRLX-2001-S-935-10L-G-U-S-X-X-WHHR-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	92	89	92	89	86	88	86	84	82
2	97	89	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	66	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	38	33	45	38	33	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	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	29	24	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2939
5°	2947
10°	2950
15°	2947
20°	2951
25°	2971
30°	3013
35°	3080
40°	3175
45°	3296
50°	3382
55°	3384
60°	3314
65°	3207
70°	3109
75°	3025
80°	2996
85°	3125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 3739 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.1	2.8
10°-20°	49.3	8.1
20°-30°	76.3	12.6
30°-40°	97.0	16.0
40°-50°	110.0	18.1
50°-60°	106.0	17.5
60°-70°	82.5	13.6
70°-80°	51.0	8.4
80°-90°	18.2	3.0
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°	142.7	23.5
0°-40°	239.7	39.5
0°-60°	455.8	75.0
0°-90°	607.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	607.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	180	
5°	180	17
15°	174	49
25°	165	76
35°	155	97
45°	143	110
55°	119	106
65°	83	82
75°	48	51
85°	17	18
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	180.2
2.5°	180.3
5°	180.0
7.5°	179.3
10°	178.1
12.5°	176.5
15°	174.5
17.5°	172.3
20°	170.0
22.5°	167.7
25°	165.1
27.5°	162.6
30°	160.0
32.5°	157.3
35°	154.7
37.5°	152.0
40°	149.1
42.5°	146.4
45°	142.9
47.5°	138.7
50°	133.3
52.5°	126.8
55°	119.0
57.5°	110.7
60°	101.6
62.5°	92.5
65°	83.1
67.5°	74.2
70°	65.2
72.5°	56.7
75°	48.0
77.5°	39.9
80°	31.9
82.5°	24.2
85°	16.7
87.5°	10.0
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	16.63	18.34	16.99	18.65	18.97	16.63	18.34	16.99	18.65	18.97
	3H	18.52	20.07	18.89	20.40	20.76	18.52	20.07	18.89	20.40	20.76
	4H	19.28	20.75	19.68	21.10	21.47	19.28	20.75	19.68	21.10	21.47
	6H	19.92	21.28	20.33	21.65	22.04	19.92	21.28	20.33	21.65	22.04
	8H	20.17	21.47	20.59	21.86	22.26	20.17	21.47	20.59	21.86	22.26
	12H	20.37	21.62	20.80	22.00	22.43	20.37	21.62	20.80	22.00	22.43
4H	2H	17.28	18.75	17.68	19.10	19.47	17.28	18.75	17.68	19.10	19.47
	3H	19.41	20.65	19.82	21.05	21.45	19.41	20.65	19.82	21.05	21.45
	4H	20.32	21.45	20.75	21.86	22.29	20.32	21.45	20.75	21.86	22.29
	6H	21.11	22.10	21.56	22.54	22.99	21.11	22.10	21.56	22.54	22.99
	8H	21.42	22.35	21.88	22.79	23.26	21.42	22.35	21.88	22.79	23.26
	12H	21.69	22.53	22.17	23.00	23.47	21.69	22.53	22.17	23.00	23.47
8H	4H	20.70	21.62	21.15	22.07	22.53	20.70	21.62	21.15	22.07	22.53
	6H	21.64	22.42	22.13	22.90	23.38	21.64	22.42	22.13	22.90	23.38
	8H	22.05	22.75	22.56	23.26	23.74	22.05	22.75	22.56	23.26	23.74
	12H	22.43	23.05	22.94	23.54	24.10	22.43	23.05	22.94	23.54	24.10
12H	4H	20.75	21.59	21.23	22.07	22.53	20.75	21.59	21.23	22.07	22.53
	6H	21.73	22.43	22.24	22.94	23.42	21.73	22.43	22.24	22.94	23.42
	8H	22.22	22.84	22.72	23.33	23.89	22.22	22.84	22.72	23.33	23.89