

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: P865821

Luminaire Tested: PRLX-2004-S-935-10L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-935-10L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

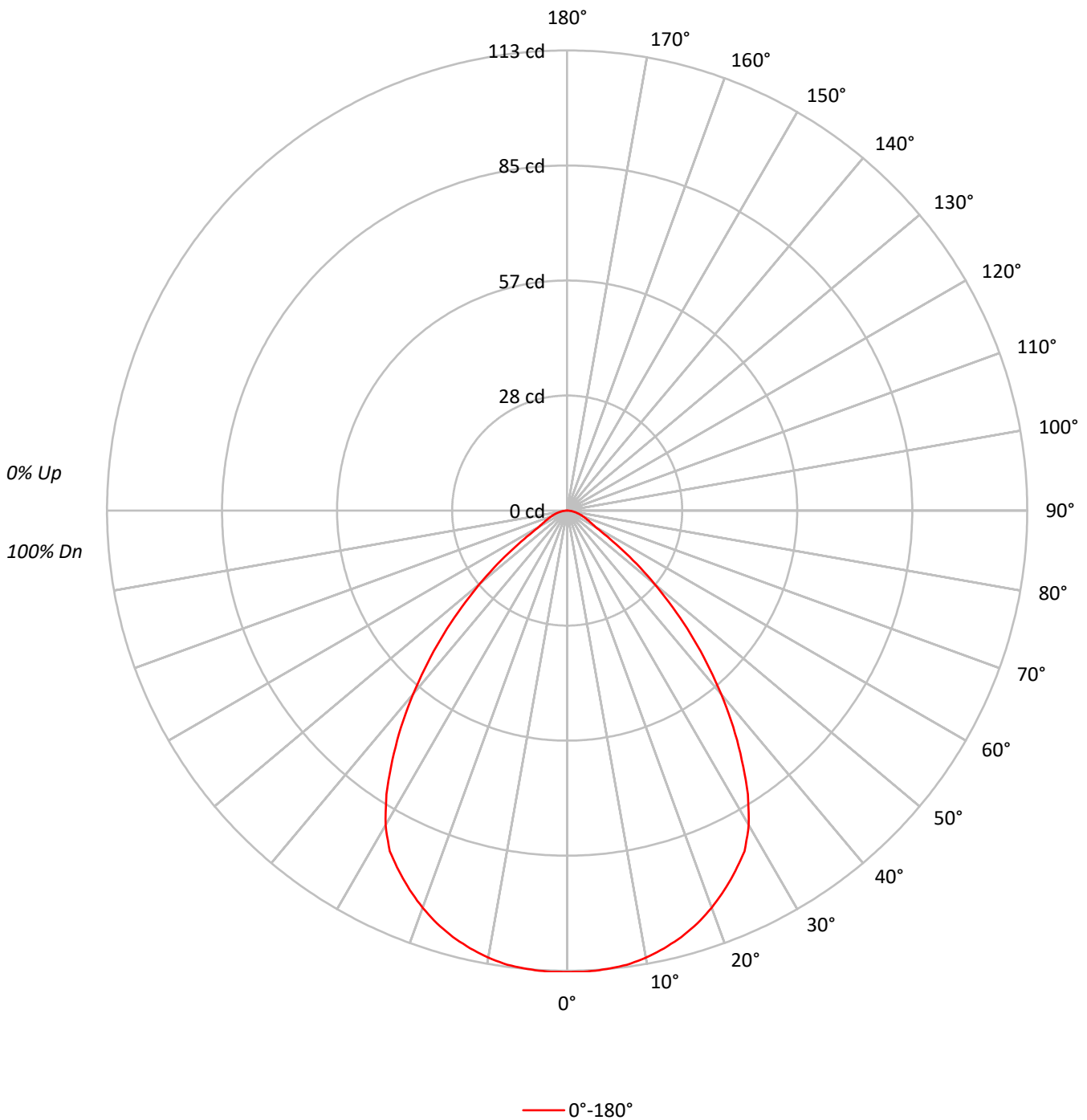
Lumens per Lamp: N/A
Luminaire Lumens: 189.9 lumens
Efficiency: N/A
Efficacy: 18.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.16
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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

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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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	81	74	69	89	80	73	68	78	72	68	76	71	67	74	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	60	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1848
5°	1850
10°	1847
15°	1830
20°	1802
25°	1758
30°	1680
35°	1489
40°	1252
45°	990
50°	710
55°	441
60°	261
65°	220
70°	196
75°	176
80°	150
85°	150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 990 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.7	5.7
10°-20°	30.5	16.1
20°-30°	44.9	23.6
30°-40°	46.5	24.5
40°-50°	33.0	17.4
50°-60°	14.6	7.7
60°-70°	5.8	3.0
70°-80°	3.0	1.6
80°-90°	0.9	0.5
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°	86.1	45.4
0°-40°	132.6	69.9
0°-60°	180.2	94.9
0°-90°	189.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	189.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	113	
5°	113	11
15°	108	31
25°	98	45
35°	75	46
45°	43	33
55°	16	15
65°	6	6
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	113.3
2.5°	113.3
5°	113.0
7.5°	112.5
10°	111.5
12.5°	110.1
15°	108.4
17.5°	106.3
20°	103.8
22.5°	100.9
25°	97.7
27.5°	94.3
30°	89.2
32.5°	82.6
35°	74.8
37.5°	67.0
40°	58.8
42.5°	50.7
45°	42.9
47.5°	35.1
50°	28.0
52.5°	21.5
55°	15.5
57.5°	10.8
60°	8.0
62.5°	6.7
65°	5.7
67.5°	4.9
70°	4.1
72.5°	3.4
75°	2.8
77.5°	2.3
80°	1.6
82.5°	1.3
85°	0.8
87.5°	0.4
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	4.94	6.23	5.30	6.54	6.86	4.94	6.23	5.30	6.54	6.86
	3H	5.84	6.99	6.22	7.32	7.68	5.84	6.99	6.22	7.32	7.68
	4H	6.20	7.26	6.60	7.61	7.99	6.20	7.26	6.60	7.61	7.99
	6H	6.46	7.44	6.88	7.81	8.21	6.46	7.44	6.88	7.81	8.21
	8H	6.56	7.48	6.99	7.87	8.28	6.56	7.48	6.99	7.87	8.28
	12H	6.62	7.50	7.05	7.89	8.32	6.62	7.50	7.05	7.89	8.32
4H	2H	5.17	6.23	5.57	6.58	6.96	5.17	6.23	5.57	6.58	6.96
	3H	6.29	7.16	6.70	7.56	7.96	6.29	7.16	6.70	7.56	7.96
	4H	6.76	7.54	7.20	7.95	8.40	6.76	7.54	7.20	7.95	8.40
	6H	7.15	7.81	7.61	8.26	8.73	7.15	7.81	7.61	8.26	8.73
	8H	7.28	7.90	7.75	8.35	8.82	7.28	7.90	7.75	8.35	8.82
	12H	7.39	7.94	7.88	8.42	8.90	7.39	7.94	7.88	8.42	8.90
8H	4H	6.90	7.52	7.37	7.97	8.44	6.90	7.52	7.37	7.97	8.44
	6H	7.38	7.89	7.88	8.39	8.87	7.38	7.89	7.88	8.39	8.87
	8H	7.59	8.05	8.11	8.56	9.05	7.59	8.05	8.11	8.56	9.05
	12H	7.77	8.17	8.28	8.67	9.24	7.77	8.17	8.28	8.67	9.24
12H	4H	6.89	7.44	7.38	7.93	8.40	6.89	7.44	7.38	7.93	8.40
	6H	7.39	7.85	7.91	8.37	8.86	7.39	7.85	7.91	8.37	8.86
	8H	7.65	8.06	8.17	8.56	9.13	7.65	8.06	8.17	8.56	9.13