

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: P865825

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-935-10L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

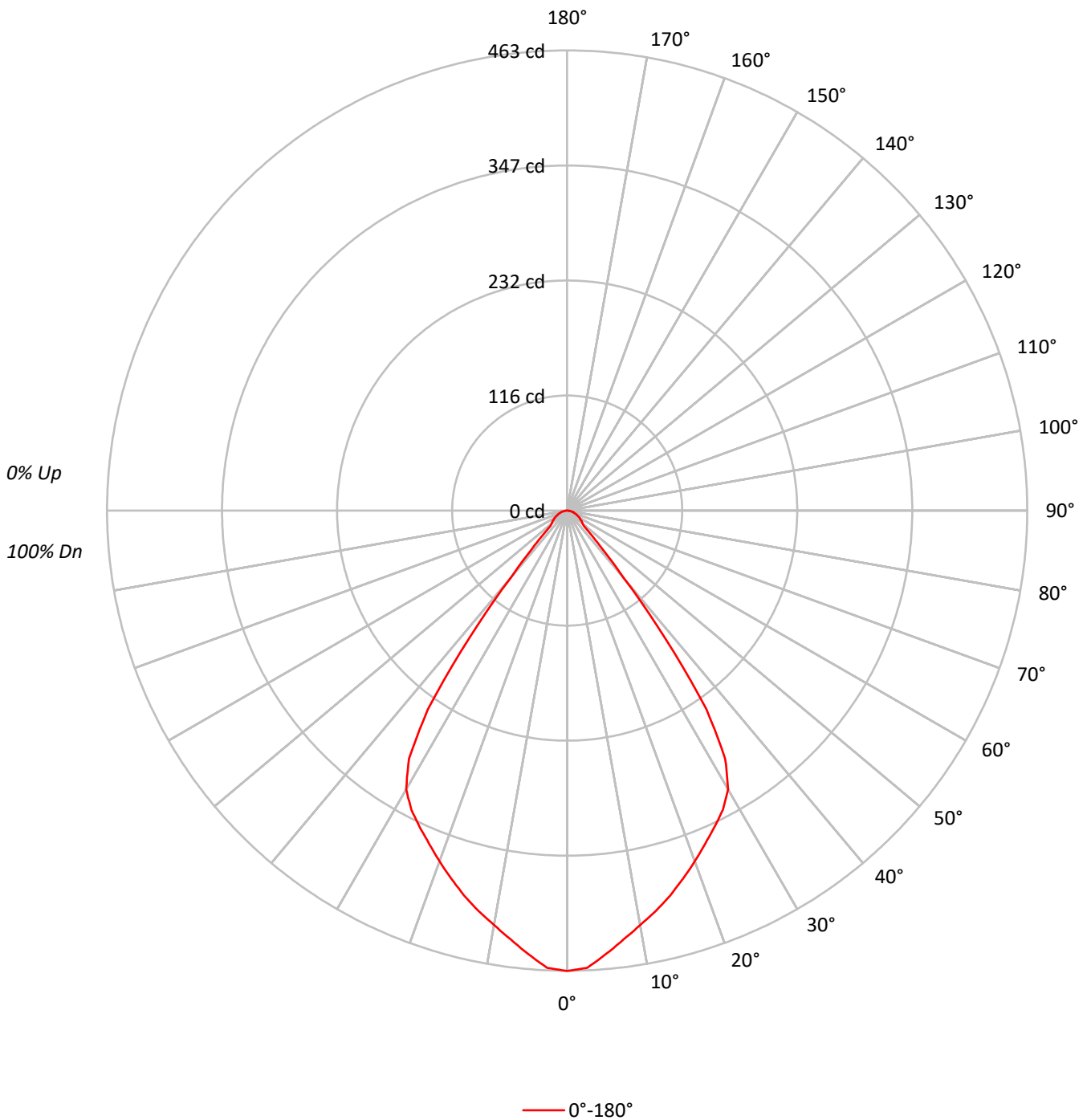
Lumens per Lamp: N/A
Luminaire Lumens: 521.7 lumens
Efficiency: N/A
Efficacy: 49.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.02
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	113	110	107	104	110	107	105	103	103	101	99		99	98	96		96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89		93	90	87		90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84	81	78	77
4	94	86	80	75	93	85	79	75	83	78	74		81	76	73		79	75	72	70
5	89	80	73	69	87	79	73	68	77	72	68		75	71	67		74	70	67	65
6	84	74	68	63	83	74	67	63	72	67	62		71	66	62		69	65	62	60
7	80	69	63	58	78	69	62	58	67	62	58		66	61	57		65	60	57	56
8	75	65	58	54	74	64	58	54	63	58	54		62	57	53		61	57	53	52
9	71	61	54	50	70	60	54	50	59	54	50		58	53	50		58	53	50	48
10	68	57	51	47	67	57	51	47	56	50	47		55	50	46		54	50	46	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7555
5°	7333
10°	7012
15°	6768
20°	6518
25°	6318
30°	6100
35°	4864
40°	1889
45°	752
50°	505
55°	489
60°	473
65°	421
70°	386
75°	397
80°	338
85°	337

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 752 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	8.0
10°-20°	112.8	21.6
20°-30°	161.7	31.0
30°-40°	139.6	26.8
40°-50°	30.7	5.9
50°-60°	15.4	2.9
60°-70°	11.1	2.1
70°-80°	6.5	1.3
80°-90°	2.0	0.4
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°	316.4	60.6
0°-40°	456.1	87.4
0°-60°	502.1	96.2
0°-90°	521.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	521.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	463	
5°	448	42
15°	401	113
25°	351	162
35°	244	140
45°	33	31
55°	17	15
65°	11	11
75°	6	7
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	463.2
2.5°	460.5
5°	447.9
7.5°	435.2
10°	423.4
12.5°	412.6
15°	400.8
17.5°	388.1
20°	375.5
22.5°	362.8
25°	351.1
27.5°	339.3
30°	323.9
32.5°	295.9
35°	244.3
37.5°	162.0
40°	88.7
42.5°	52.5
45°	32.6
47.5°	22.6
50°	19.9
52.5°	19.0
55°	17.2
57.5°	15.4
60°	14.5
62.5°	12.7
65°	10.9
67.5°	10.0
70°	8.1
72.5°	7.2
75°	6.3
77.5°	5.4
80°	3.6
82.5°	2.7
85°	1.8
87.5°	0.9
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	4.28	5.35	4.65	5.66	5.98	4.28	5.35	4.65	5.66	5.98
	3H	5.91	6.85	6.29	7.19	7.56	5.91	6.85	6.29	7.19	7.56
	4H	6.58	7.45	6.98	7.81	8.19	6.58	7.45	6.98	7.81	8.19
	6H	7.11	7.91	7.53	8.28	8.68	7.11	7.91	7.53	8.28	8.68
	8H	7.25	8.01	7.69	8.40	8.81	7.25	8.01	7.69	8.40	8.81
	12H	7.35	8.08	7.79	8.46	8.89	7.35	8.08	7.79	8.46	8.89
4H	2H	4.76	5.63	5.16	5.98	6.37	4.76	5.63	5.16	5.98	6.37
	3H	6.58	7.30	7.00	7.71	8.11	6.58	7.30	7.00	7.71	8.11
	4H	7.40	8.04	7.84	8.46	8.91	7.40	8.04	7.84	8.46	8.91
	6H	8.06	8.61	8.53	9.06	9.53	8.06	8.61	8.53	9.06	9.53
	8H	8.24	8.76	8.72	9.21	9.68	8.24	8.76	8.72	9.21	9.68
	12H	8.39	8.84	8.88	9.32	9.80	8.39	8.84	8.88	9.32	9.80
8H	4H	7.67	8.18	8.15	8.63	9.11	7.67	8.18	8.15	8.63	9.11
	6H	8.44	8.85	8.95	9.35	9.84	8.44	8.85	8.95	9.35	9.84
	8H	8.71	9.07	9.24	9.59	10.09	8.71	9.07	9.24	9.59	10.09
	12H	8.95	9.26	9.47	9.76	10.34	8.95	9.26	9.47	9.76	10.34
12H	4H	7.67	8.12	8.16	8.60	9.08	7.67	8.12	8.16	8.60	9.08
	6H	8.47	8.84	9.00	9.36	9.85	8.47	8.84	9.00	9.36	9.85
	8H	8.80	9.12	9.32	9.62	10.19	8.80	9.12	9.32	9.62	10.19