

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: P865505

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-935-10L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

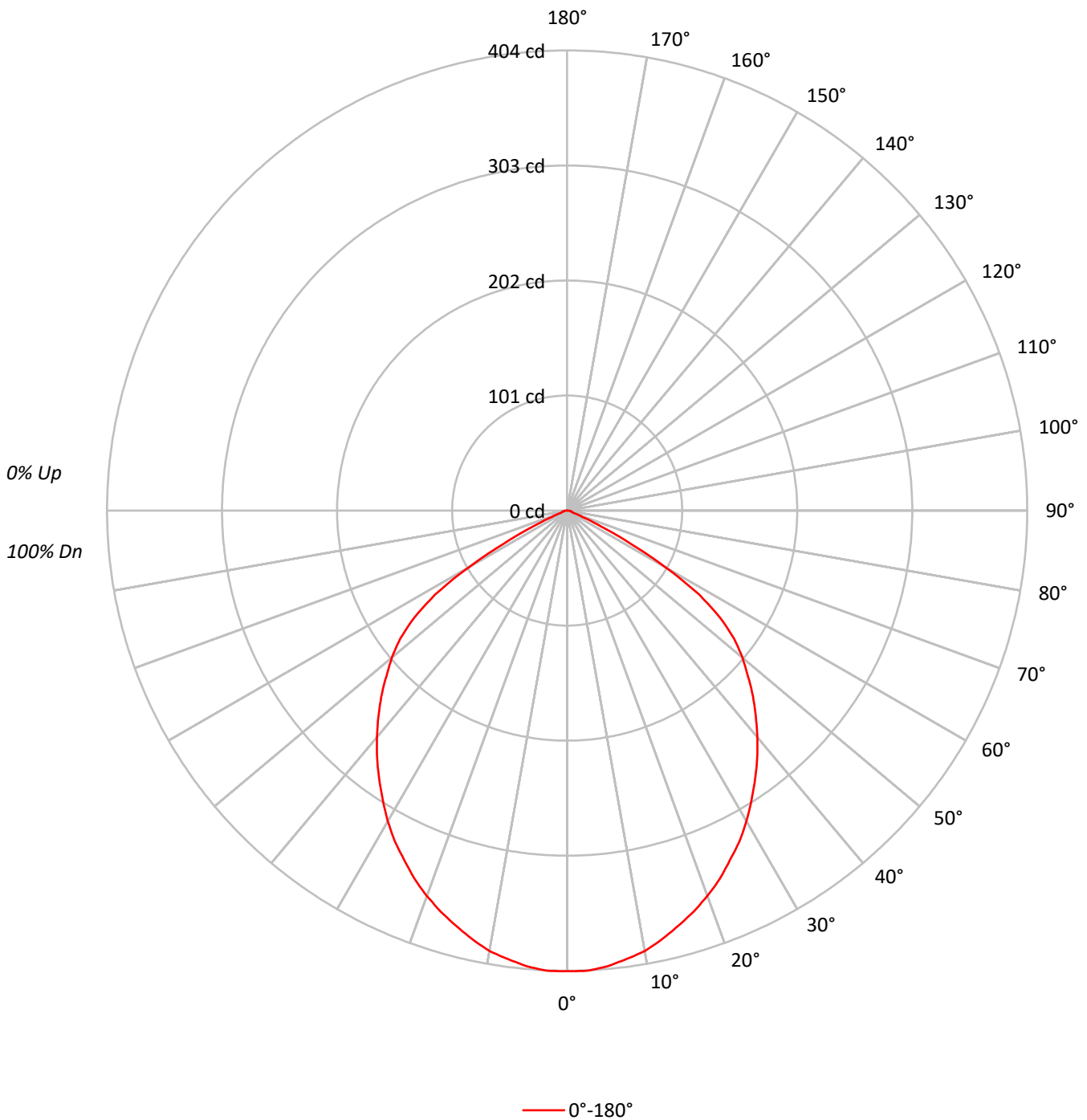
Lumens per Lamp: N/A
Luminaire Lumens: 847.3 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6596
5°	6577
10°	6504
15°	6371
20°	6250
25°	6090
30°	5931
35°	5728
40°	5529
45°	5321
50°	5098
55°	4658
60°	3304
65°	1258
70°	300
75°	284
80°	338
85°	505

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5321 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	4.5
10°-20°	106.4	12.6
20°-30°	156.0	18.4
30°-40°	180.0	21.2
40°-50°	177.8	21.0
50°-60°	142.0	16.8
60°-70°	40.1	4.7
70°-80°	4.6	0.5
80°-90°	2.2	0.3
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°	300.5	35.5
0°-40°	480.5	56.7
0°-60°	800.3	94.5
0°-90°	847.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	847.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	404	
5°	402	38
15°	377	106
25°	338	156
35°	288	180
45°	231	178
55°	164	142
65°	33	40
75°	4	5
85°	3	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	404.4
2.5°	404.4
5°	401.7
7.5°	397.2
10°	392.7
12.5°	385.4
15°	377.3
17.5°	369.1
20°	360.1
22.5°	350.1
25°	338.4
27.5°	327.5
30°	314.9
32.5°	301.3
35°	287.7
37.5°	274.1
40°	259.7
42.5°	245.2
45°	230.7
47.5°	215.3
50°	200.9
52.5°	184.6
55°	163.8
57.5°	137.5
60°	101.3
62.5°	63.3
65°	32.6
67.5°	14.5
70°	6.3
72.5°	4.5
75°	4.5
77.5°	3.6
80°	3.6
82.5°	2.7
85°	2.7
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	17.21	18.67	17.57	18.98	19.29	17.21	18.67	17.57	18.98	19.29
	3H	17.13	18.42	17.51	18.75	19.11	17.13	18.42	17.51	18.75	19.11
	4H	17.08	18.27	17.48	18.62	19.00	17.08	18.27	17.48	18.62	19.00
	6H	17.02	18.12	17.43	18.49	18.88	17.02	18.12	17.43	18.49	18.88
	8H	16.99	18.03	17.41	18.42	18.82	16.99	18.03	17.41	18.42	18.82
	12H	16.96	17.96	17.39	18.34	18.77	16.96	17.96	17.39	18.34	18.77
4H	2H	17.14	18.33	17.54	18.68	19.06	17.14	18.33	17.54	18.68	19.06
	3H	17.07	18.04	17.48	18.44	18.84	17.07	18.04	17.48	18.44	18.84
	4H	17.01	17.87	17.44	18.29	18.73	17.01	17.87	17.44	18.29	18.73
	6H	16.96	17.70	17.42	18.14	18.61	16.96	17.70	17.42	18.14	18.61
	8H	16.92	17.61	17.38	18.06	18.53	16.92	17.61	17.38	18.06	18.53
	12H	16.89	17.51	17.38	17.99	18.46	16.89	17.51	17.38	17.99	18.46
8H	4H	16.89	17.59	17.36	18.03	18.50	16.89	17.59	17.36	18.03	18.50
	6H	16.82	17.40	17.32	17.89	18.37	16.82	17.40	17.32	17.89	18.37
	8H	16.78	17.30	17.30	17.81	18.30	16.78	17.30	17.30	17.81	18.30
	12H	16.77	17.23	17.28	17.72	18.29	16.77	17.23	17.28	17.72	18.29
12H	4H	16.85	17.47	17.34	17.95	18.42	16.85	17.47	17.34	17.95	18.42
	6H	16.77	17.29	17.29	17.80	18.29	16.77	17.29	17.29	17.80	18.29
	8H	16.75	17.21	17.26	17.70	18.27	16.75	17.21	17.26	17.70	18.27