

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: P866555

Luminaire Tested: PRLX-2004-M-935-25L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-935-25L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

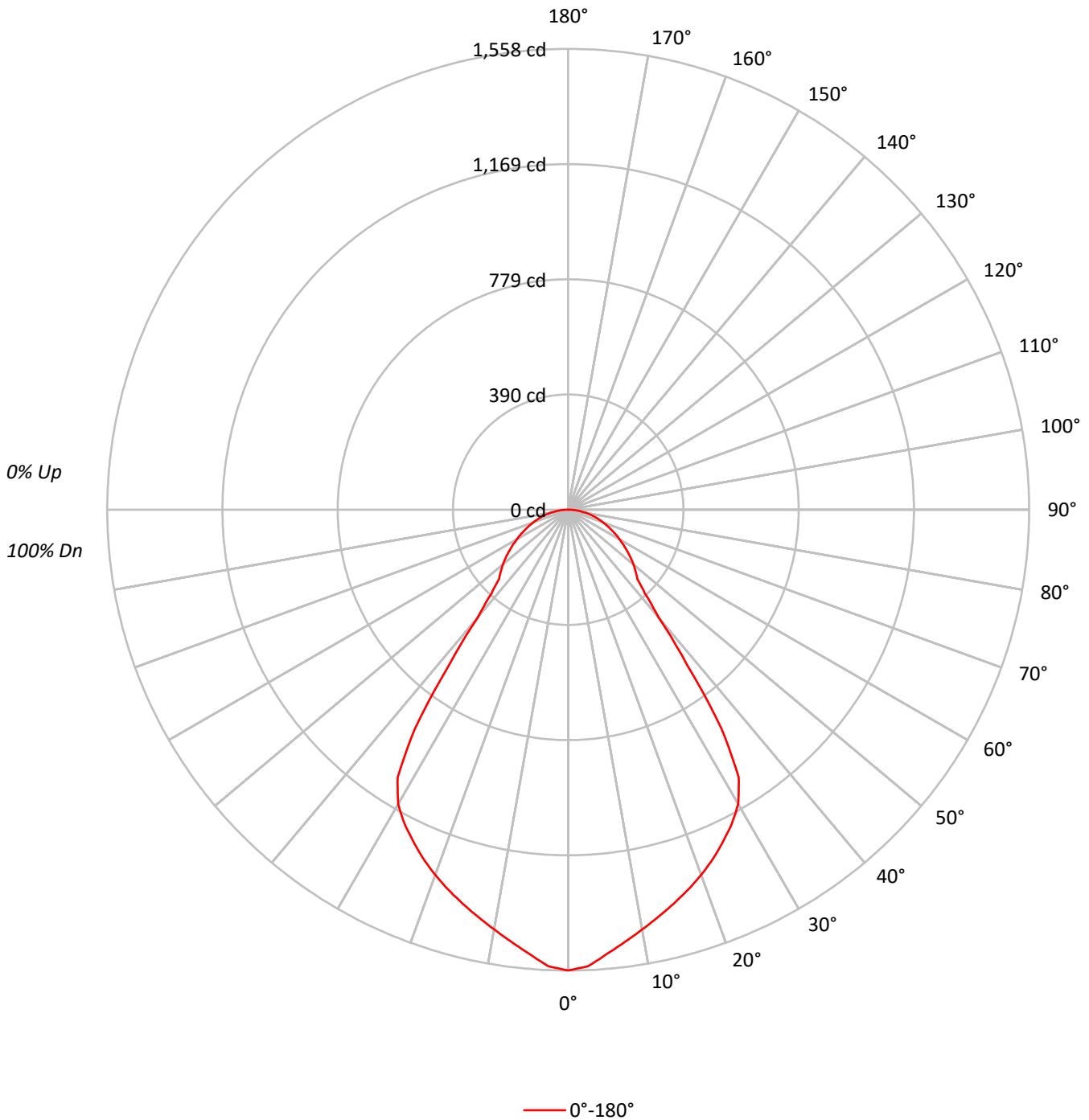
Lumens per Lamp: N/A
Luminaire Lumens: 2411.8 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (Ain): 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	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12392
5°	12038
10°	11640
15°	11354
20°	11125
25°	10868
30°	10557
35°	8776
40°	4939
45°	3717
50°	3568
55°	3377
60°	3184
65°	3027
70°	2919
75°	2837
80°	2767
85°	2720

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3717 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	5.9
10°-20°	388.9	16.1
20°-30°	570.0	23.6
30°-40°	532.5	22.1
40°-50°	270.1	11.2
50°-60°	218.0	9.0
60°-70°	160.3	6.6
70°-80°	97.5	4.0
80°-90°	32.6	1.4
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°	1100.8	45.6
0°-40°	1633.3	67.7
0°-60°	2121.4	88.0
0°-90°	2411.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2411.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1558	
5°	1507	142
15°	1378	389
25°	1238	570
35°	904	532
45°	330	270
55°	244	218
65°	161	160
75°	92	98
85°	30	33
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1557.6
2.5°	1544.7
5°	1507.4
7.5°	1473.5
10°	1440.9
12.5°	1409.7
15°	1378.5
17.5°	1347.3
20°	1314.0
22.5°	1278.1
25°	1238.1
27.5°	1197.4
30°	1149.2
32.5°	1073.2
35°	903.6
37.5°	658.7
40°	475.6
42.5°	383.3
45°	330.4
47.5°	308.7
50°	288.3
52.5°	265.9
55°	243.5
57.5°	221.8
60°	200.1
62.5°	181.1
65°	160.8
67.5°	143.1
70°	125.5
72.5°	108.5
75°	92.3
77.5°	76.0
80°	60.4
82.5°	44.8
85°	29.8
87.5°	14.9
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	14.63	15.98	14.99	16.29	16.61	14.63	15.98	14.99	16.29	16.61
	3H	16.37	17.58	16.75	17.91	18.27	16.37	17.58	16.75	17.91	18.27
	4H	17.08	18.21	17.48	18.56	18.94	17.08	18.21	17.48	18.56	18.94
	6H	17.65	18.70	18.06	19.07	19.46	17.65	18.70	18.06	19.07	19.46
	8H	17.86	18.85	18.29	19.25	19.65	17.86	18.85	18.29	19.25	19.65
	12H	18.02	18.97	18.45	19.35	19.78	18.02	18.97	18.45	19.35	19.78
4H	2H	15.18	16.31	15.58	16.66	17.05	15.18	16.31	15.58	16.66	17.05
	3H	17.16	18.10	17.57	18.50	18.90	17.16	18.10	17.57	18.50	18.90
	4H	18.00	18.85	18.44	19.27	19.71	18.00	18.85	18.44	19.27	19.71
	6H	18.73	19.46	19.19	19.91	20.37	18.73	19.46	19.19	19.91	20.37
	8H	18.99	19.68	19.46	20.13	20.60	18.99	19.68	19.46	20.13	20.60
	12H	19.21	19.82	19.69	20.30	20.77	19.21	19.82	19.69	20.30	20.77
8H	4H	18.31	19.00	18.78	19.45	19.92	18.31	19.00	18.78	19.45	19.92
	6H	19.18	19.75	19.69	20.24	20.72	19.18	19.75	19.69	20.24	20.72
	8H	19.55	20.05	20.07	20.57	21.06	19.55	20.05	20.07	20.57	21.06
	12H	19.86	20.31	20.38	20.80	21.37	19.86	20.31	20.38	20.80	21.37
12H	4H	18.34	18.96	18.83	19.44	19.91	18.34	18.96	18.83	19.44	19.91
	6H	19.25	19.76	19.77	20.27	20.76	19.25	19.76	19.77	20.27	20.76
	8H	19.68	20.13	20.20	20.62	21.19	19.68	20.13	20.20	20.62	21.19