

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: P866312

Luminaire Tested: PRLX-2002-M-935-45L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-53)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-935-45L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

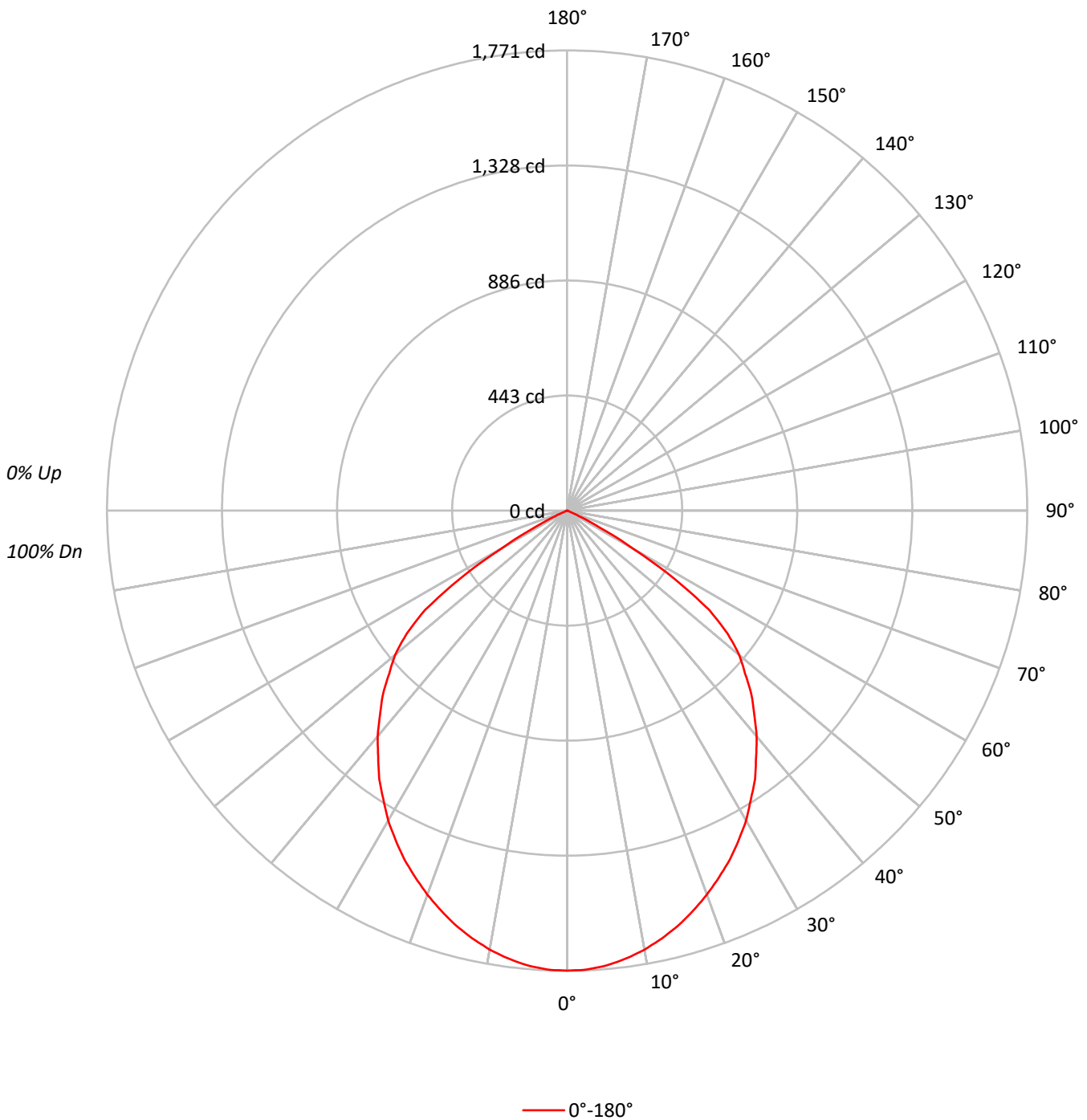
Lumens per Lamp: N/A
Luminaire Lumens: 3522.8 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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	100	102	99	97	98	96	94	95	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14086
5°	14033
10°	13859
15°	13618
20°	13316
25°	13002
30°	12654
35°	12251
40°	11781
45°	11293
50°	10700
55°	9264
60°	4740
65°	919
70°	86
75°	114
80°	110
85°	110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11293 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	4.7
10°-20°	465.5	13.2
20°-30°	681.7	19.4
30°-40°	786.6	22.3
40°-50°	771.3	21.9
50°-60°	560.4	15.9
60°-70°	85.9	2.4
70°-80°	3.4	0.1
80°-90°	1.6	0.0
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°	1313.6	37.3
0°-40°	2100.2	59.6
0°-60°	3431.9	97.4
0°-90°	3522.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3522.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1771	
5°	1757	166
15°	1653	466
25°	1481	682
35°	1261	787
45°	1004	771
55°	668	560
65°	49	86
75°	4	3
85°	1	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1770.6
2.5°	1768.2
5°	1757.2
7.5°	1738.9
10°	1715.6
12.5°	1686.3
15°	1653.4
17.5°	1614.3
20°	1572.8
22.5°	1527.6
25°	1481.2
27.5°	1429.9
30°	1377.4
32.5°	1316.3
35°	1261.4
37.5°	1194.2
40°	1134.4
42.5°	1066.0
45°	1003.7
47.5°	929.3
50°	864.5
52.5°	777.8
55°	667.9
57.5°	493.3
60°	297.9
62.5°	141.6
65°	48.8
67.5°	12.2
70°	3.7
72.5°	3.7
75°	3.7
77.5°	2.4
80°	2.4
82.5°	2.4
85°	1.2
87.5°	1.2
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	18.62	20.04	18.99	20.35	20.67	18.62	20.04	18.99	20.35	20.67
	3H	18.51	19.75	18.89	20.08	20.44	18.51	19.75	18.89	20.08	20.44
	4H	18.44	19.59	18.84	19.94	20.33	18.44	19.59	18.84	19.94	20.33
	6H	18.37	19.43	18.78	19.79	20.19	18.37	19.43	18.78	19.79	20.19
	8H	18.33	19.33	18.76	19.72	20.12	18.33	19.33	18.76	19.72	20.12
	12H	18.29	19.25	18.72	19.63	20.06	18.29	19.25	18.72	19.63	20.06
4H	2H	18.46	19.61	18.86	19.96	20.35	18.46	19.61	18.86	19.96	20.35
	3H	18.35	19.27	18.76	19.68	20.08	18.35	19.27	18.76	19.68	20.08
	4H	18.27	19.09	18.70	19.51	19.95	18.27	19.09	18.70	19.51	19.95
	6H	18.19	18.90	18.65	19.34	19.81	18.19	18.90	18.65	19.34	19.81
	8H	18.14	18.80	18.60	19.24	19.71	18.14	18.80	18.60	19.24	19.71
	12H	18.09	18.68	18.58	19.16	19.63	18.09	18.68	18.58	19.16	19.63
8H	4H	18.14	18.80	18.60	19.24	19.71	18.14	18.80	18.60	19.24	19.71
	6H	18.03	18.58	18.53	19.07	19.55	18.03	18.58	18.53	19.07	19.55
	8H	17.97	18.46	18.49	18.98	19.47	17.97	18.46	18.49	18.98	19.47
	12H	17.92	18.36	18.43	18.86	19.43	17.92	18.36	18.43	18.86	19.43
12H	4H	18.09	18.68	18.58	19.16	19.63	18.09	18.68	18.58	19.16	19.63
	6H	17.97	18.46	18.49	18.97	19.47	17.97	18.46	18.49	18.97	19.47
	8H	17.92	18.36	18.43	18.86	19.42	17.92	18.36	18.43	18.86	19.42