

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: P866571

Luminaire Tested: PRLX-2004-M-935-45L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866571
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-935-45L-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 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

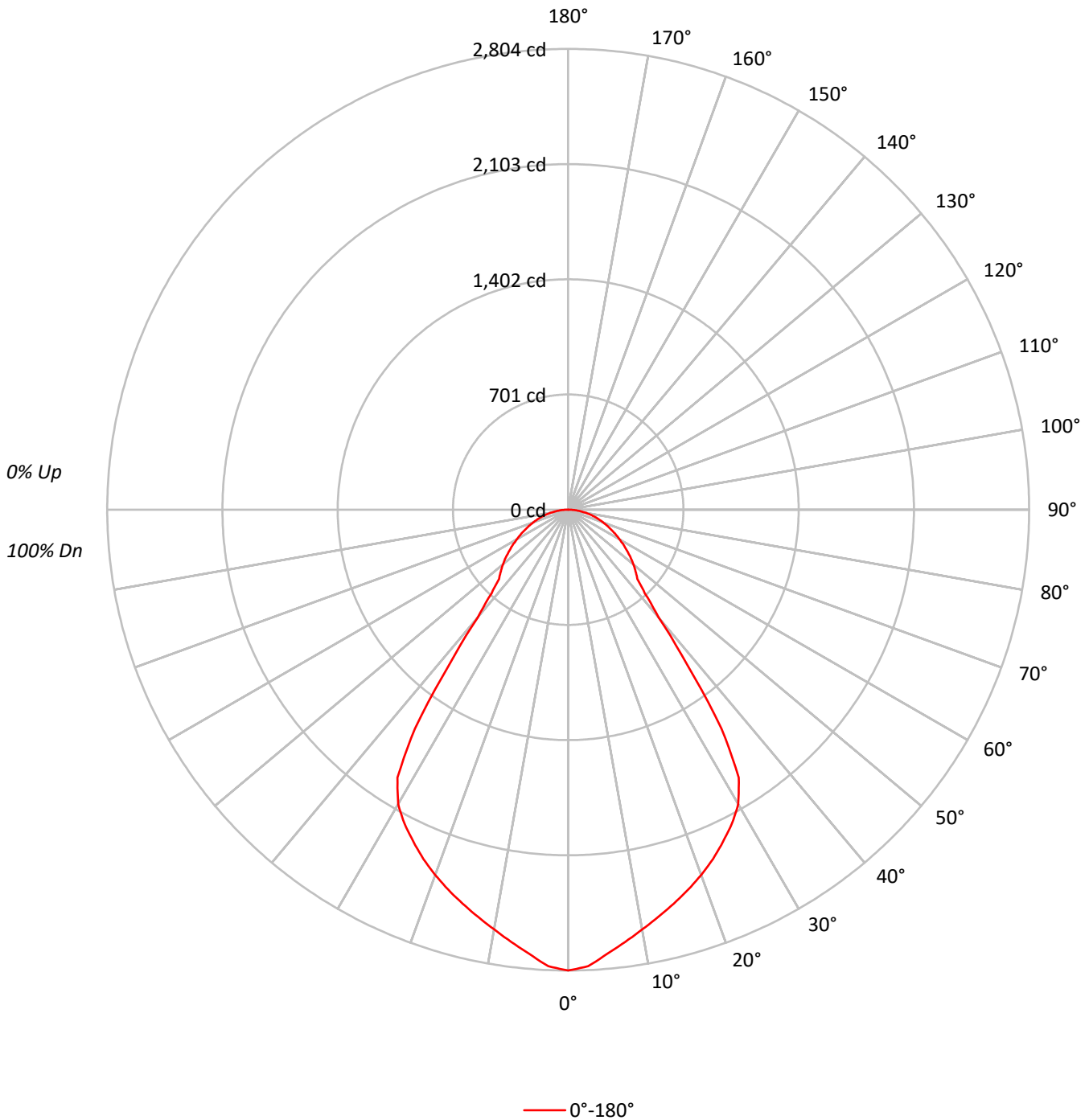
Lumens per Lamp: N/A
Luminaire Lumens: 4341.2 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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°	22305
5°	21669
10°	20952
15°	20437
20°	20025
25°	19562
30°	19002
35°	15797
40°	8890
45°	6691
50°	6424
55°	6081
60°	5731
65°	5448
70°	5255
75°	5106
80°	4980
85°	4902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6691 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.4	5.9
10°-20°	700.0	16.1
20°-30°	1026.0	23.6
30°-40°	958.5	22.1
40°-50°	486.1	11.2
50°-60°	392.5	9.0
60°-70°	288.5	6.6
70°-80°	175.6	4.0
80°-90°	58.7	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°	1981.4	45.6
0°-40°	2939.9	67.7
0°-60°	3818.5	88.0
0°-90°	4341.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4341.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2804	
5°	2713	255
15°	2481	700
25°	2228	1026
35°	1626	959
45°	595	486
55°	438	392
65°	289	289
75°	166	176
85°	54	59
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2803.6
2.5°	2780.4
5°	2713.3
7.5°	2652.2
10°	2593.6
12.5°	2537.4
15°	2481.3
17.5°	2425.1
20°	2365.3
22.5°	2300.6
25°	2228.5
27.5°	2155.2
30°	2068.5
32.5°	1931.8
35°	1626.5
37.5°	1185.7
40°	856.0
42.5°	689.9
45°	594.7
47.5°	555.6
50°	519.0
52.5°	478.7
55°	438.4
57.5°	399.3
60°	360.2
62.5°	326.0
65°	289.4
67.5°	257.7
70°	225.9
72.5°	195.4
75°	166.1
77.5°	136.8
80°	108.7
82.5°	80.6
85°	53.7
87.5°	26.9
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	16.67	18.02	17.03	18.33	18.65	16.67	18.02	17.03	18.33	18.65
	3H	18.41	19.62	18.79	19.95	20.31	18.41	19.62	18.79	19.95	20.31
	4H	19.12	20.25	19.52	20.60	20.98	19.12	20.25	19.52	20.60	20.98
	6H	19.69	20.74	20.11	21.11	21.50	19.69	20.74	20.11	21.11	21.50
	8H	19.90	20.90	20.33	21.29	21.69	19.90	20.90	20.33	21.29	21.69
	12H	20.06	21.01	20.49	21.39	21.82	20.06	21.01	20.49	21.39	21.82
4H	2H	17.22	18.36	17.63	18.71	19.09	17.22	18.36	17.63	18.71	19.09
	3H	19.20	20.14	19.61	20.54	20.95	19.20	20.14	19.61	20.54	20.95
	4H	20.05	20.90	20.48	21.31	21.76	20.05	20.90	20.48	21.31	21.76
	6H	20.77	21.50	21.23	21.95	22.41	20.77	21.50	21.23	21.95	22.41
	8H	21.04	21.72	21.50	22.17	22.64	21.04	21.72	21.50	22.17	22.64
	12H	21.25	21.86	21.74	22.34	22.82	21.25	21.86	21.74	22.34	22.82
8H	4H	20.36	21.04	20.82	21.49	21.96	20.36	21.04	20.82	21.49	21.96
	6H	21.23	21.79	21.73	22.29	22.77	21.23	21.79	21.73	22.29	22.77
	8H	21.59	22.10	22.11	22.61	23.10	21.59	22.10	22.11	22.61	23.10
	12H	21.91	22.35	22.42	22.84	23.41	21.91	22.35	22.42	22.84	23.41
12H	4H	20.39	21.00	20.87	21.48	21.95	20.39	21.00	20.87	21.48	21.95
	6H	21.30	21.80	21.82	22.32	22.81	21.30	21.80	21.82	22.32	22.81
	8H	21.73	22.17	22.24	22.66	23.23	21.73	22.17	22.24	22.66	23.23