

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: P979473

Luminaire Tested: PRLX-240-935-48L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-935-48L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

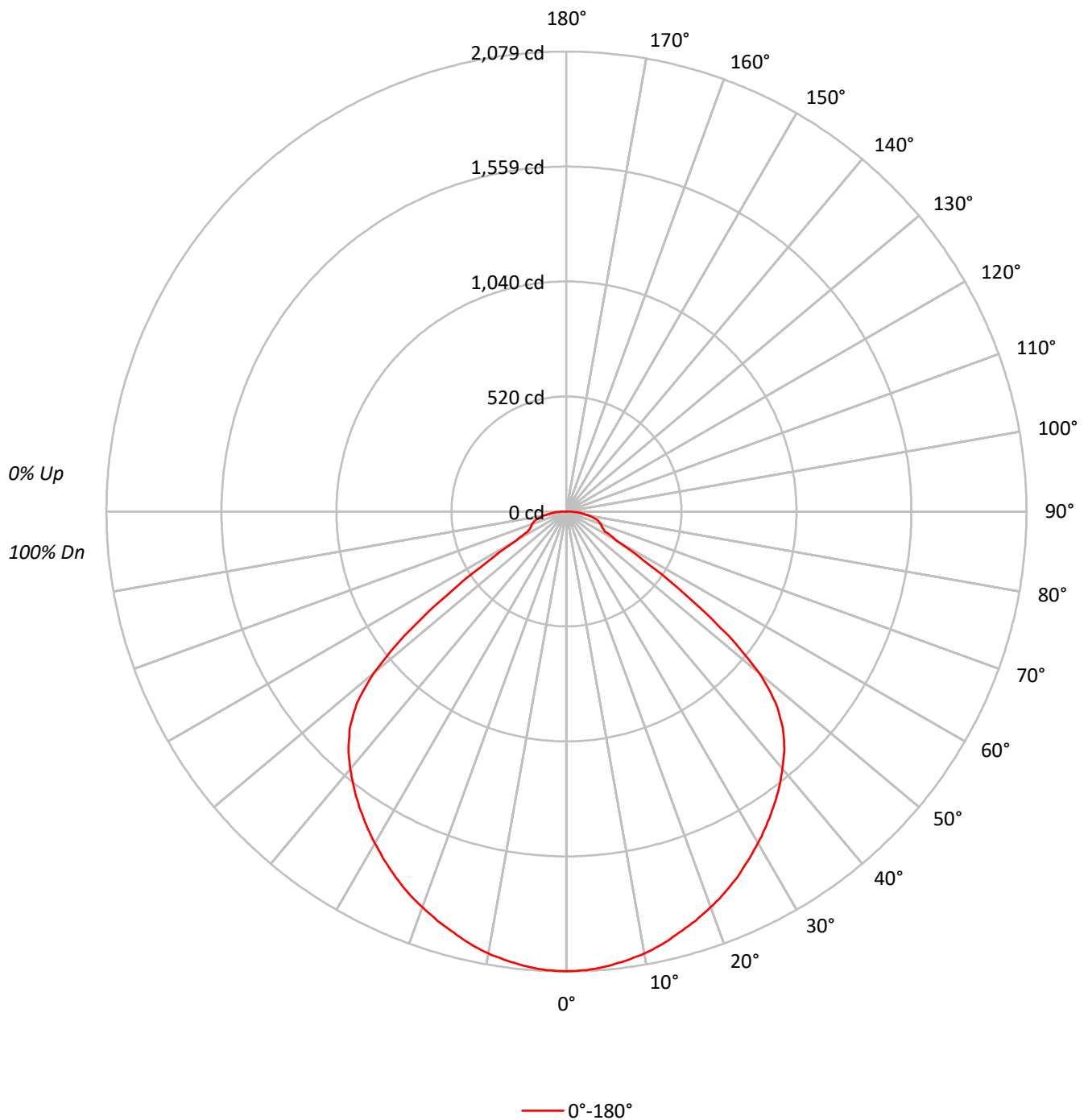
Lumens per Lamp: N/A
Luminaire Lumens: 4651.6 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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: NR
Operation Time: NR
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93
2	102	95	89	84	100	93	88	83	90	85	82		87	83	80		84
3	94	85	78	72	92	84	77	72	81	75	71		78	73	69		76
4	87	77	69	63	85	75	68	62	73	67	62		71	65	61		69
5	81	69	61	55	79	68	61	55	66	59	54		64	58	54		62
6	75	63	55	49	73	62	54	49	60	53	48		59	52	48		57
7	70	57	49	44	68	56	49	43	55	48	43		54	47	43		52
8	65	52	45	39	64	52	44	39	50	44	39		49	43	39		48
9	61	48	41	35	59	48	40	35	47	40	35		46	39	35		45
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20930
5°	20871
10°	20753
15°	20538
20°	20406
25°	20274
30°	20134
35°	20046
40°	19970
45°	19696
50°	17837
55°	11591
60°	5232
65°	4298
70°	4861
75°	5411
80°	5671
85°	5823

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19696 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	4.2
10°-20°	556.7	12.0
20°-30°	841.2	18.1
30°-40°	1020.8	21.9
40°-50°	1052.4	22.6
50°-60°	596.9	12.8
60°-70°	188.8	4.1
70°-80°	144.1	3.1
80°-90°	54.9	1.2
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°	1593.8	34.3
0°-40°	2614.6	56.2
0°-60°	4263.9	91.7
0°-90°	4651.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4651.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2079	
5°	2065	196
15°	1970	557
25°	1825	841
35°	1631	1021
45°	1383	1052
55°	660	597
65°	180	189
75°	139	144
85°	50	55
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2078.7
2.5°	2075.6
5°	2064.9
7.5°	2048.1
10°	2029.8
12.5°	2003.8
15°	1970.2
17.5°	1939.6
20°	1904.4
22.5°	1867.7
25°	1824.9
27.5°	1779.1
30°	1731.7
32.5°	1682.8
35°	1630.8
37.5°	1577.3
40°	1519.3
42.5°	1458.1
45°	1383.2
47.5°	1285.4
50°	1138.7
52.5°	923.2
55°	660.3
57.5°	414.2
60°	259.8
62.5°	197.2
65°	180.4
67.5°	172.7
70°	165.1
72.5°	154.4
75°	139.1
77.5°	120.7
80°	97.8
82.5°	74.9
85°	50.4
87.5°	27.5
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	17.20	18.67	17.57	18.99	19.30	17.20	18.67	17.57	18.99	19.30
	3H	18.10	19.40	18.47	19.73	20.09	18.10	19.40	18.47	19.73	20.09
	4H	18.70	19.92	19.10	20.27	20.65	18.70	19.92	19.10	20.27	20.65
	6H	19.30	20.43	19.71	20.79	21.19	19.30	20.43	19.71	20.79	21.19
	8H	19.54	20.61	19.97	21.00	21.40	19.54	20.61	19.97	21.00	21.40
	12H	19.72	20.75	20.16	21.13	21.56	19.72	20.75	20.16	21.13	21.56
4H	2H	17.33	18.55	17.73	18.90	19.28	17.33	18.55	17.73	18.90	19.28
	3H	18.57	19.57	18.98	19.97	20.37	18.57	19.57	18.98	19.97	20.37
	4H	19.39	20.29	19.83	20.70	21.15	19.39	20.29	19.83	20.70	21.15
	6H	20.20	20.98	20.66	21.42	21.88	20.20	20.98	20.66	21.42	21.88
	8H	20.52	21.25	20.98	21.69	22.16	20.52	21.25	20.98	21.69	22.16
	12H	20.78	21.43	21.26	21.91	22.38	20.78	21.43	21.26	21.91	22.38
8H	4H	19.71	20.44	20.17	20.88	21.35	19.71	20.44	20.17	20.88	21.35
	6H	20.68	21.28	21.17	21.78	22.25	20.68	21.28	21.17	21.78	22.25
	8H	21.10	21.65	21.61	22.16	22.65	21.10	21.65	21.61	22.16	22.65
	12H	21.47	21.96	21.98	22.45	23.02	21.47	21.96	21.98	22.45	23.02
12H	4H	19.75	20.40	20.23	20.88	21.35	19.75	20.40	20.23	20.88	21.35
	6H	20.76	21.31	21.27	21.82	22.31	20.76	21.31	21.27	21.82	22.31
	8H	21.25	21.74	21.76	22.24	22.80	21.25	21.74	21.76	22.24	22.80