

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979303

Luminaire Tested: PRLX-240-927-LL5-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979303
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-240-927-LL5-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

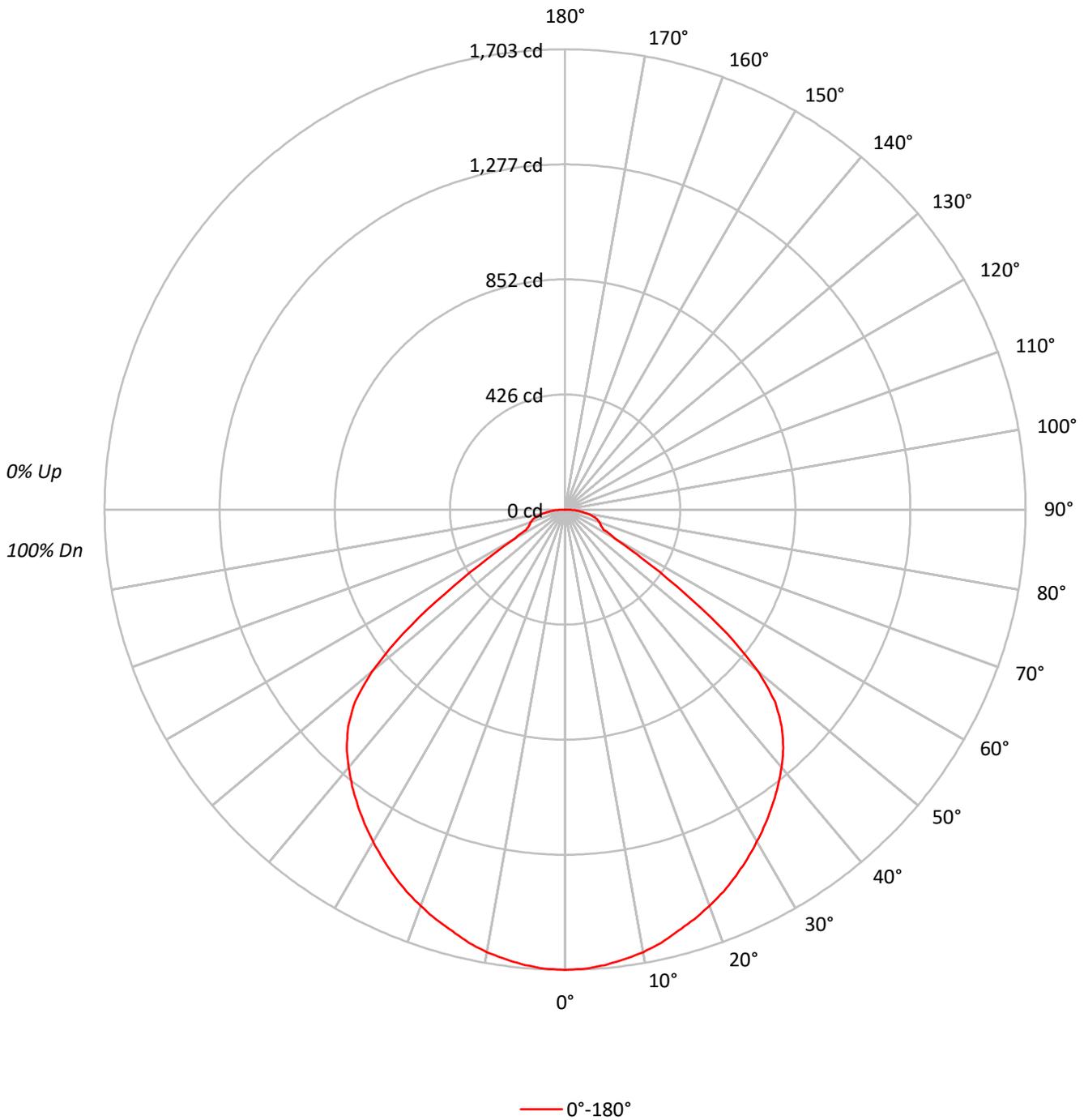
Lumens per Lamp: N/A
Luminaire Lumens: 3811.6 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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	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	104	101	98	100	98	95	96	94	92	93	91	89	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17151
5°	17102
10°	17005
15°	16828
20°	16721
25°	16614
30°	16498
35°	16426
40°	16363
45°	16139
50°	14615
55°	9497
60°	4287
65°	3521
70°	3983
75°	4435
80°	4650
85°	4771

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16139 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	4.2
10°-20°	456.1	12.0
20°-30°	689.3	18.1
30°-40°	836.5	21.9
40°-50°	862.4	22.6
50°-60°	489.1	12.8
60°-70°	154.7	4.1
70°-80°	118.0	3.1
80°-90°	45.0	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°	1305.9	34.3
0°-40°	2142.4	56.2
0°-60°	3493.9	91.7
0°-90°	3811.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3811.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1703	
5°	1692	161
15°	1614	456
25°	1495	689
35°	1336	836
45°	1133	862
55°	541	489
65°	148	155
75°	114	118
85°	41	45
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1703.3
2.5°	1700.8
5°	1692.0
7.5°	1678.2
10°	1663.2
12.5°	1641.9
15°	1614.3
17.5°	1589.3
20°	1560.5
22.5°	1530.4
25°	1495.4
27.5°	1457.8
30°	1419.0
32.5°	1378.9
35°	1336.3
37.5°	1292.5
40°	1244.9
42.5°	1194.8
45°	1133.4
47.5°	1053.3
50°	933.0
52.5°	756.5
55°	541.0
57.5°	339.4
60°	212.9
62.5°	161.6
65°	147.8
67.5°	141.5
70°	135.3
72.5°	126.5
75°	114.0
77.5°	98.9
80°	80.2
82.5°	61.4
85°	41.3
87.5°	22.5
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	16.51	17.98	16.88	18.29	18.61	16.51	17.98	16.88	18.29	18.61
	3H	17.40	18.71	17.78	19.04	19.40	17.40	18.71	17.78	19.04	19.40
	4H	18.01	19.23	18.41	19.58	19.96	18.01	19.23	18.41	19.58	19.96
	6H	18.61	19.73	19.02	20.10	20.49	18.61	19.73	19.02	20.10	20.49
	8H	18.85	19.92	19.28	20.31	20.71	18.85	19.92	19.28	20.31	20.71
	12H	19.03	20.06	19.46	20.44	20.87	19.03	20.06	19.46	20.44	20.87
4H	2H	16.64	17.86	17.04	18.21	18.59	16.64	17.86	17.04	18.21	18.59
	3H	17.88	18.88	18.29	19.28	19.68	17.88	18.88	18.29	19.28	19.68
	4H	18.70	19.60	19.13	20.01	20.45	18.70	19.60	19.13	20.01	20.45
	6H	19.51	20.29	19.97	20.73	21.19	19.51	20.29	19.97	20.73	21.19
	8H	19.83	20.56	20.29	21.00	21.47	19.83	20.56	20.29	21.00	21.47
	12H	20.09	20.74	20.57	21.22	21.69	20.09	20.74	20.57	21.22	21.69
8H	4H	19.02	19.74	19.48	20.19	20.66	19.02	19.74	19.48	20.19	20.66
	6H	19.98	20.59	20.48	21.08	21.56	19.98	20.59	20.48	21.08	21.56
	8H	20.41	20.96	20.92	21.47	21.96	20.41	20.96	20.92	21.47	21.96
	12H	20.77	21.27	21.28	21.76	22.33	20.77	21.27	21.28	21.76	22.33
12H	4H	19.06	19.71	19.54	20.19	20.66	19.06	19.71	19.54	20.19	20.66
	6H	20.07	20.62	20.58	21.13	21.62	20.07	20.62	20.58	21.13	21.62
	8H	20.56	21.05	21.07	21.55	22.11	20.56	21.05	21.07	21.55	22.11