

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: P979863

Luminaire Tested: PRLX-241-940-LL5-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-940-LL5-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

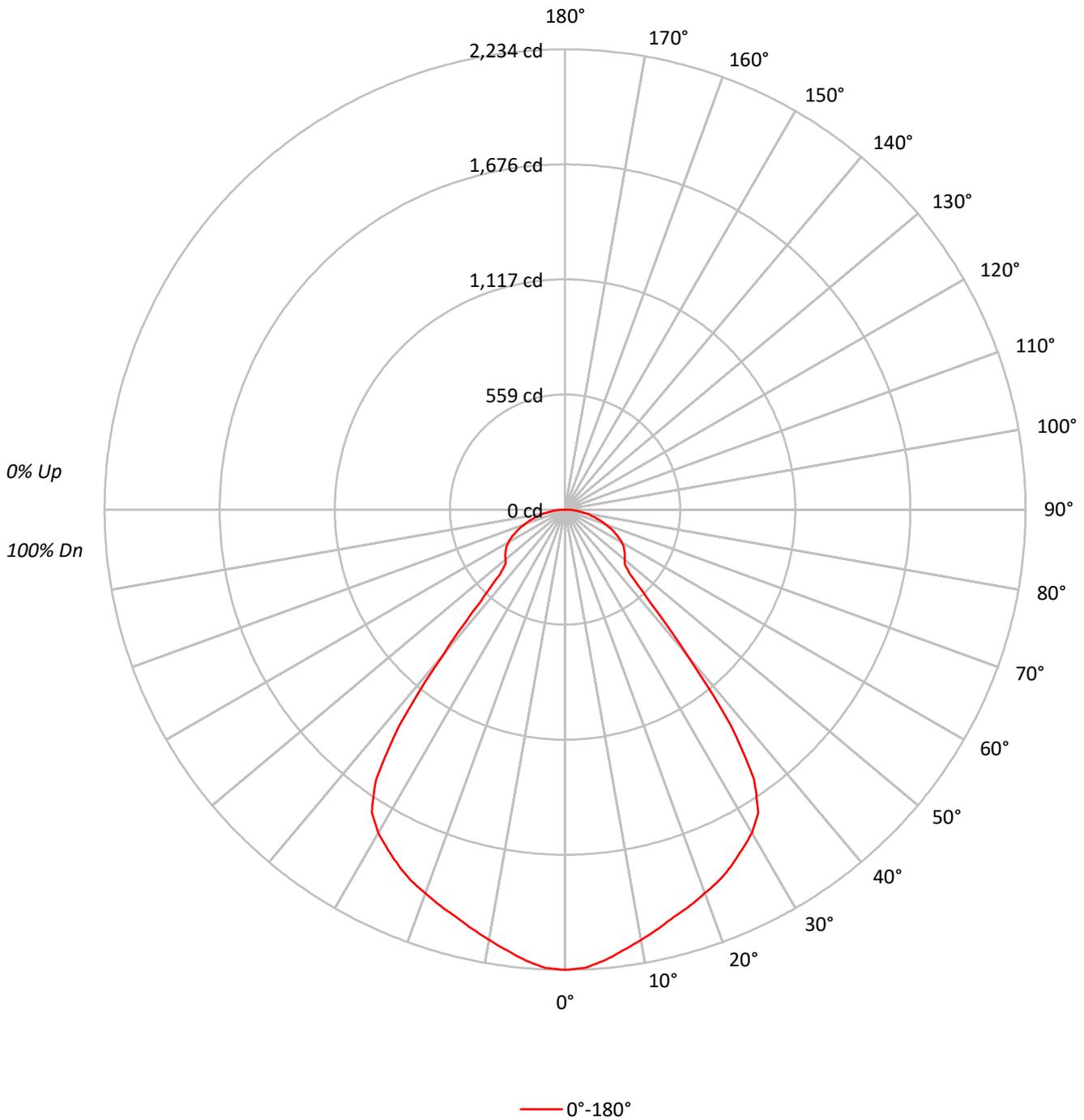
Lumens per Lamp: N/A
Luminaire Lumens: 3788.4 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79	77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	47	45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	39	49	43	39	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	46	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17219
5°	16998
10°	16605
15°	16328
20°	16258
25°	16228
30°	16134
35°	15049
40°	9263
45°	4870
50°	4521
55°	4723
60°	4892
65°	4852
70°	4713
75°	4492
80°	4231
85°	3901

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 4893 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	5.5
10°-20°	578.9	15.3
20°-30°	879.0	23.2
30°-40°	936.6	24.7
40°-50°	400.1	10.6
50°-60°	313.8	8.3
60°-70°	262.3	6.9
70°-80°	159.9	4.2
80°-90°	50.5	1.3
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°	1665.1	44.0
0°-40°	2601.7	68.7
0°-60°	3315.7	87.5
0°-90°	3788.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3788.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2234	
5°	2197	207
15°	2046	579
25°	1908	879
35°	1599	937
45°	447	400
55°	351	314
65°	266	262
75°	151	160
85°	44	51
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2233.6
2.5°	2226.5
5°	2196.6
7.5°	2158.2
10°	2121.2
12.5°	2084.2
15°	2045.8
17.5°	2015.9
20°	1981.8
22.5°	1950.5
25°	1907.8
27.5°	1860.9
30°	1812.5
32.5°	1744.2
35°	1599.1
37.5°	1321.7
40°	920.5
42.5°	607.5
45°	446.7
47.5°	391.2
50°	377.0
52.5°	365.6
55°	351.4
57.5°	337.2
60°	317.3
62.5°	293.1
65°	266.0
67.5°	237.6
70°	209.1
72.5°	179.3
75°	150.8
77.5°	123.8
80°	95.3
82.5°	69.7
85°	44.1
87.5°	24.2
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	15.89	17.23	16.26	17.55	17.86	15.89	17.23	16.26	17.55	17.86
	3H	17.90	19.10	18.28	19.43	19.79	17.90	19.10	18.28	19.43	19.79
	4H	18.65	19.78	19.06	20.13	20.51	18.65	19.78	19.06	20.13	20.51
	6H	19.24	20.28	19.65	20.65	21.04	19.24	20.28	19.65	20.65	21.04
	8H	19.44	20.43	19.87	20.82	21.22	19.44	20.43	19.87	20.82	21.22
	12H	19.58	20.52	20.01	20.90	21.33	19.58	20.52	20.01	20.90	21.33
4H	2H	16.56	17.69	16.96	18.04	18.42	16.56	17.69	16.96	18.04	18.42
	3H	18.76	19.70	19.17	20.10	20.51	18.76	19.70	19.17	20.10	20.51
	4H	19.65	20.49	20.08	20.91	21.35	19.65	20.49	20.08	20.91	21.35
	6H	20.36	21.10	20.82	21.54	22.01	20.36	21.10	20.82	21.54	22.01
	8H	20.61	21.30	21.08	21.74	22.21	20.61	21.30	21.08	21.74	22.21
	12H	20.80	21.41	21.28	21.89	22.36	20.80	21.41	21.28	21.89	22.36
8H	4H	19.97	20.65	20.43	21.10	21.57	19.97	20.65	20.43	21.10	21.57
	6H	20.82	21.38	21.32	21.88	22.36	20.82	21.38	21.32	21.88	22.36
	8H	21.16	21.66	21.68	22.18	22.67	21.16	21.66	21.68	22.18	22.67
	12H	21.44	21.88	21.96	22.37	22.94	21.44	21.88	21.96	22.37	22.94
12H	4H	20.00	20.60	20.48	21.08	21.56	20.00	20.60	20.48	21.08	21.56
	6H	20.89	21.39	21.41	21.90	22.39	20.89	21.39	21.41	21.90	22.39
	8H	21.29	21.73	21.80	22.22	22.79	21.29	21.73	21.80	22.22	22.79