

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: P979261

Luminaire Tested: PRLX-240-927-12L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-927-12L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

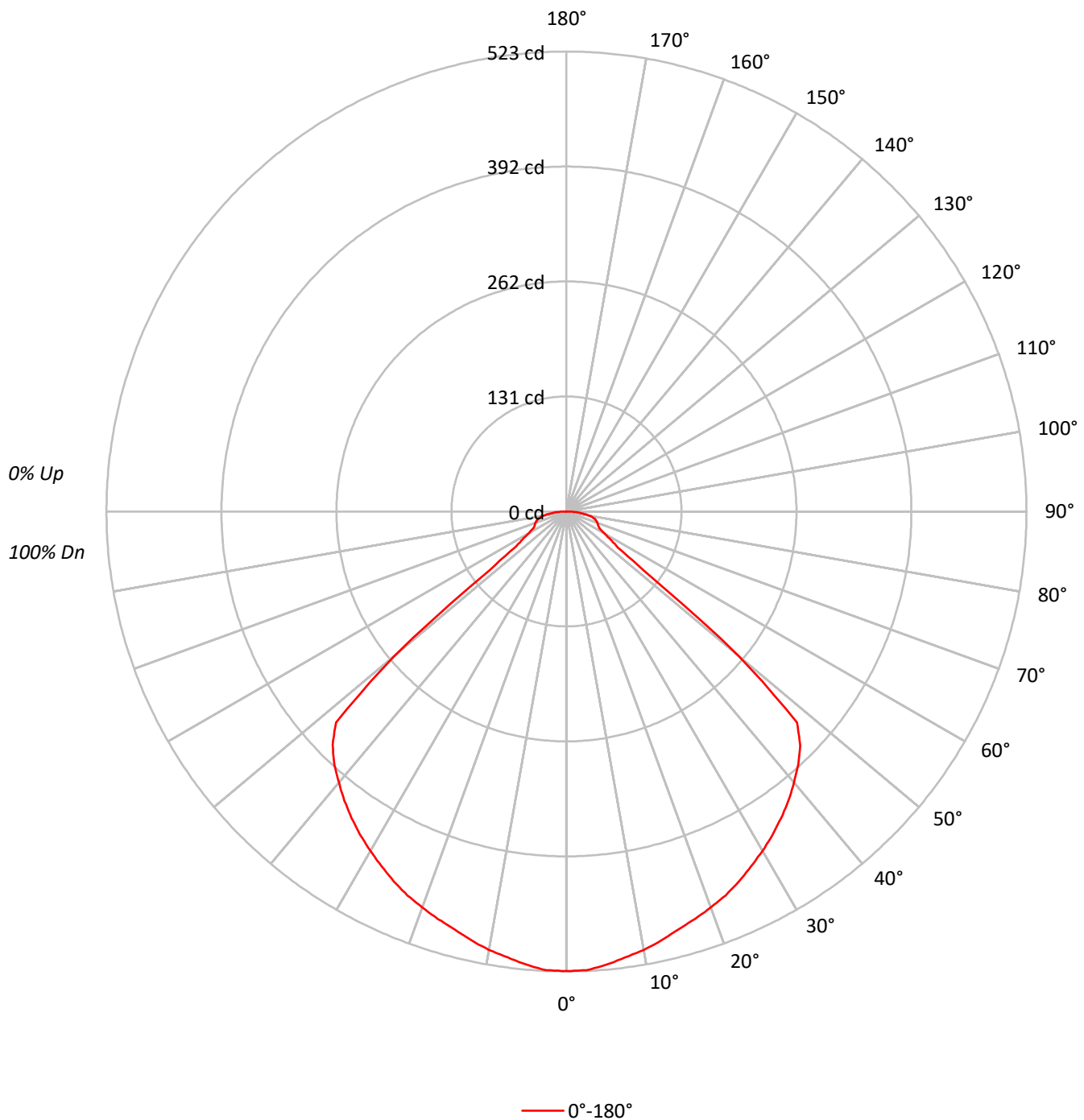
Lumens per Lamp: N/A
Luminaire Lumens: 1124.7 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	111	107	103	100	108	105	101	99	100	98	95		97	95	93		88
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		77
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		68
4	88	78	70	64	86	77	70	64	74	68	63		72	67	62		60
5	82	71	63	57	80	69	62	57	67	61	56		66	60	55		53
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		42
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		38
9	62	50	42	37	61	49	42	37	48	41	37		47	41	36		35
10	58	46	38	34	57	45	38	34	44	38	33		43	37	33		32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5262
5°	5232
10°	5177
15°	5128
20°	5135
25°	5159
30°	5182
35°	5231
40°	5288
45°	5353
50°	3999
55°	1245
60°	995
65°	958
70°	1101
75°	1303
80°	1490
85°	1467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5353 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	4.4
10°-20°	139.2	12.4
20°-30°	214.1	19.0
30°-40°	266.5	23.7
40°-50°	279.6	24.9
50°-60°	86.5	7.7
60°-70°	41.0	3.6
70°-80°	34.6	3.1
80°-90°	14.2	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°	402.4	35.8
0°-40°	668.9	59.5
0°-60°	1035.0	92.0
0°-90°	1124.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1124.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	523	
5°	518	49
15°	492	139
25°	464	214
35°	426	267
45°	376	280
55°	71	86
65°	40	41
75°	34	35
85°	13	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	522.6
2.5°	522.2
5°	517.6
7.5°	511.6
10°	506.3
12.5°	499.6
15°	491.9
17.5°	485.9
20°	479.2
22.5°	472.5
25°	464.4
27.5°	454.9
30°	445.7
32.5°	436.2
35°	425.6
37.5°	414.7
40°	402.3
42.5°	390.3
45°	375.9
47.5°	355.4
50°	255.3
52.5°	109.7
55°	70.9
57.5°	58.9
60°	49.4
62.5°	43.0
65°	40.2
67.5°	38.8
70°	37.4
72.5°	35.6
75°	33.5
77.5°	30.3
80°	25.7
82.5°	19.4
85°	12.7
87.5°	7.1
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	8.75	10.18	9.12	10.49	10.81	8.75	10.18	9.12	10.49	10.81
	3H	10.72	11.98	11.10	12.31	12.67	10.72	11.98	11.10	12.31	12.67
	4H	11.87	13.06	12.28	13.41	13.79	11.87	13.06	12.28	13.41	13.79
	6H	13.00	14.09	13.42	14.46	14.85	13.00	14.09	13.42	14.46	14.85
	8H	13.43	14.46	13.86	14.85	15.26	13.43	14.46	13.86	14.85	15.26
	12H	13.74	14.73	14.17	15.11	15.54	13.74	14.73	14.17	15.11	15.54
4H	2H	9.26	10.44	9.66	10.79	11.17	9.26	10.44	9.66	10.79	11.17
	3H	11.63	12.60	12.04	13.00	13.40	11.63	12.60	12.04	13.00	13.40
	4H	13.01	13.88	13.44	14.29	14.73	13.01	13.88	13.44	14.29	14.73
	6H	14.33	15.08	14.79	15.53	15.99	14.33	15.08	14.79	15.53	15.99
	8H	14.83	15.53	15.29	15.98	16.45	14.83	15.53	15.29	15.98	16.45
	12H	15.20	15.83	15.68	16.31	16.78	15.20	15.83	15.68	16.31	16.78
8H	4H	13.54	14.25	14.01	14.69	15.16	13.54	14.25	14.01	14.69	15.16
	6H	15.04	15.63	15.54	16.12	16.60	15.04	15.63	15.54	16.12	16.60
	8H	15.64	16.18	16.16	16.69	17.18	15.64	16.18	16.16	16.69	17.18
	12H	16.13	16.60	16.64	17.10	17.66	16.13	16.60	16.64	17.10	17.66
12H	4H	13.63	14.26	14.12	14.74	15.22	13.63	14.26	14.12	14.74	15.22
	6H	15.18	15.71	15.70	16.22	16.71	15.18	15.71	15.70	16.22	16.71
	8H	15.86	16.34	16.37	16.83	17.40	15.86	16.34	16.37	16.83	17.40