

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: P979583

Luminaire Tested: PRLX-241-927-12L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979583
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-241-927-12L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

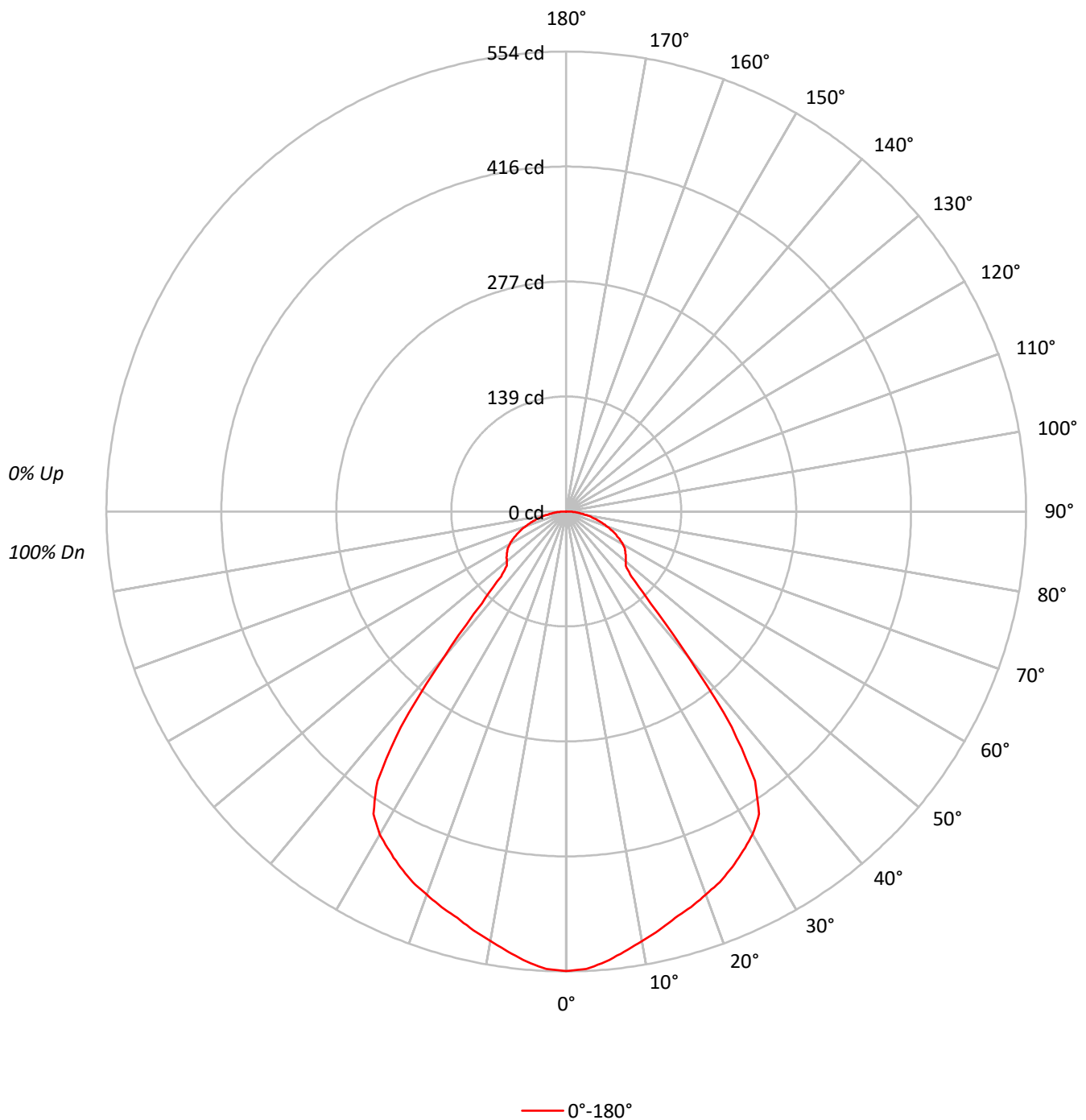
Lumens per Lamp: N/A
Luminaire Lumens: 938.9 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4268
5°	4213
10°	4115
15°	4046
20°	4030
25°	4022
30°	3999
35°	3730
40°	2295
45°	1207
50°	1120
55°	1171
60°	1212
65°	1202
70°	1168
75°	1114
80°	1048
85°	964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 60°

Luminance: 1212 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	5.5
10°-20°	143.5	15.3
20°-30°	217.8	23.2
30°-40°	232.1	24.7
40°-50°	99.2	10.6
50°-60°	77.8	8.3
60°-70°	65.0	6.9
70°-80°	39.6	4.2
80°-90°	12.5	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°	412.7	44.0
0°-40°	644.8	68.7
0°-60°	821.8	87.5
0°-90°	938.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	938.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	554	
5°	544	51
15°	507	143
25°	473	218
35°	396	232
45°	111	99
55°	87	78
65°	66	65
75°	37	40
85°	11	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	553.6
2.5°	551.8
5°	544.4
7.5°	534.9
10°	525.7
12.5°	516.6
15°	507.0
17.5°	499.6
20°	491.2
22.5°	483.4
25°	472.8
27.5°	461.2
30°	449.2
32.5°	432.3
35°	396.3
37.5°	327.6
40°	228.1
42.5°	150.6
45°	110.7
47.5°	97.0
50°	93.4
52.5°	90.6
55°	87.1
57.5°	83.6
60°	78.6
62.5°	72.6
65°	65.9
67.5°	58.9
70°	51.8
72.5°	44.4
75°	37.4
77.5°	30.7
80°	23.6
82.5°	17.3
85°	10.9
87.5°	6.0
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	11.05	12.39	11.41	12.70	13.02	11.05	12.39	11.41	12.70	13.02
	3H	13.05	14.25	13.43	14.58	14.95	13.05	14.25	13.43	14.58	14.95
	4H	13.81	14.93	14.21	15.28	15.67	13.81	14.93	14.21	15.28	15.67
	6H	14.39	15.43	14.81	15.80	16.20	14.39	15.43	14.81	15.80	16.20
	8H	14.59	15.58	15.02	15.97	16.38	14.59	15.58	15.02	15.97	16.38
	12H	14.73	15.68	15.16	16.06	16.49	14.73	15.68	15.16	16.06	16.49
4H	2H	11.72	12.84	12.12	13.19	13.58	11.72	12.84	12.12	13.19	13.58
	3H	13.92	14.85	14.33	15.26	15.66	13.92	14.85	14.33	15.26	15.66
	4H	14.80	15.64	15.23	16.06	16.50	14.80	15.64	15.23	16.06	16.50
	6H	15.52	16.25	15.98	16.69	17.16	15.52	16.25	15.98	16.69	17.16
	8H	15.77	16.45	16.23	16.90	17.37	15.77	16.45	16.23	16.90	17.37
	12H	15.95	16.56	16.44	17.04	17.51	15.95	16.56	16.44	17.04	17.51
8H	4H	15.12	15.80	15.59	16.25	16.72	15.12	15.80	15.59	16.25	16.72
	6H	15.98	16.54	16.48	17.03	17.51	15.98	16.54	16.48	17.03	17.51
	8H	16.32	16.82	16.84	17.33	17.82	16.32	16.82	16.84	17.33	17.82
	12H	16.60	17.03	17.11	17.53	18.10	16.60	17.03	17.11	17.53	18.10
12H	4H	15.15	15.76	15.63	16.24	16.71	15.15	15.76	15.63	16.24	16.71
	6H	16.04	16.54	16.56	17.06	17.55	16.04	16.54	16.56	17.06	17.55
	8H	16.45	16.88	16.96	17.38	17.95	16.45	16.88	16.96	17.38	17.95

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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