

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: P979271

Luminaire Tested: PRLX-240-927-18L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979271
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-240-927-18L-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

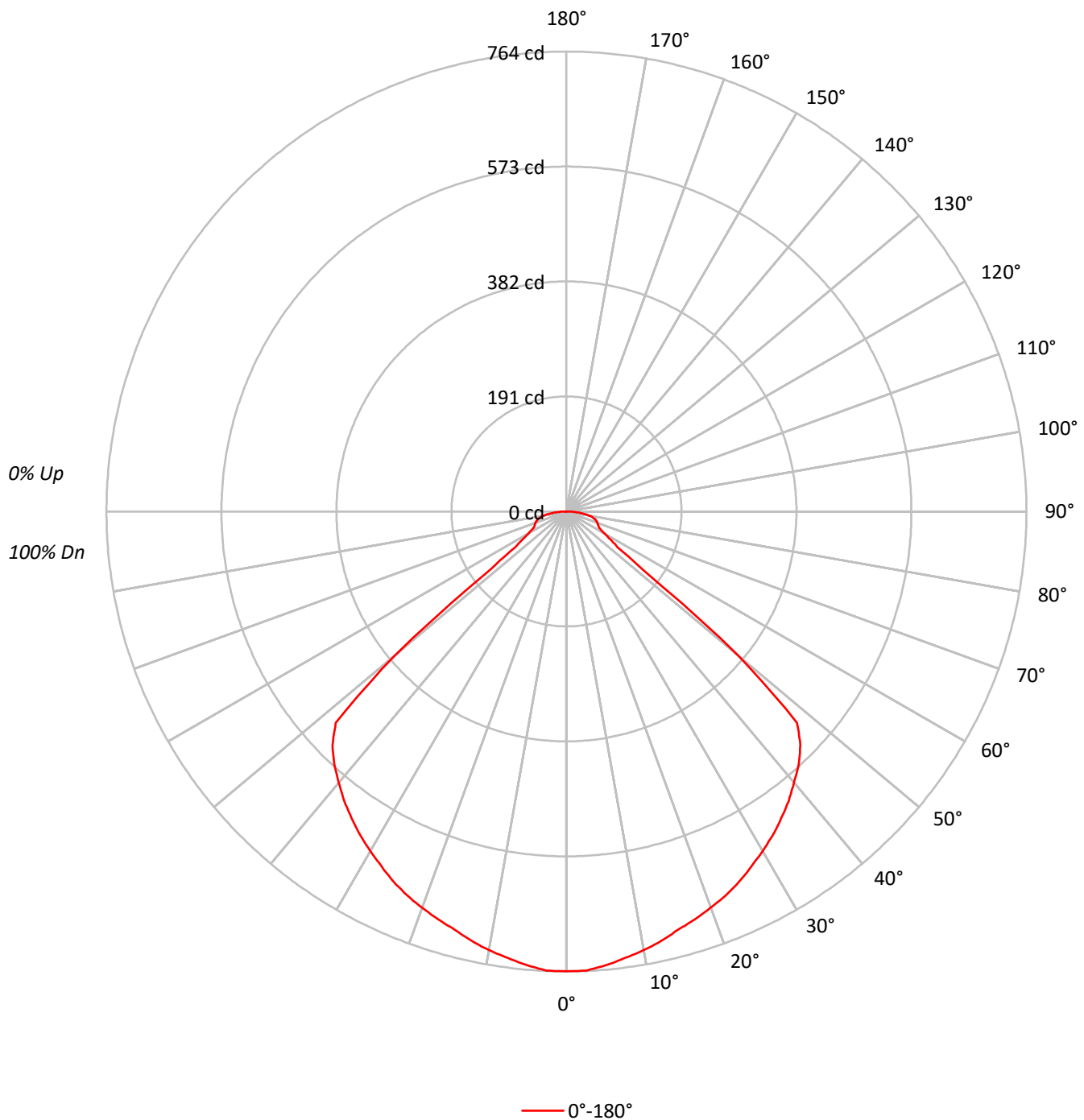
Lumens per Lamp: N/A
Luminaire Lumens: 1644.0 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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°	7692
5°	7647
10°	7567
15°	7495
20°	7506
25°	7541
30°	7575
35°	7647
40°	7730
45°	7823
50°	5846
55°	1819
60°	1454
65°	1401
70°	1607
75°	1906
80°	2180
85°	2149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7823 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	4.4
10°-20°	203.5	12.4
20°-30°	313.0	19.0
30°-40°	389.6	23.7
40°-50°	408.7	24.9
50°-60°	126.4	7.7
60°-70°	59.9	3.6
70°-80°	50.6	3.1
80°-90°	20.7	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°	588.1	35.8
0°-40°	977.7	59.5
0°-60°	1512.8	92.0
0°-90°	1644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1644.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	764	
5°	757	72
15°	719	204
25°	679	313
35°	622	390
45°	549	409
55°	104	126
65°	59	60
75°	49	51
85°	19	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	763.9
2.5°	763.3
5°	756.6
7.5°	747.9
10°	740.1
12.5°	730.4
15°	719.0
17.5°	710.2
20°	700.5
22.5°	690.7
25°	678.8
27.5°	664.9
30°	651.5
32.5°	637.6
35°	622.1
37.5°	606.1
40°	588.1
42.5°	570.6
45°	549.4
47.5°	519.5
50°	373.2
52.5°	160.3
55°	103.6
57.5°	86.1
60°	72.2
62.5°	62.9
65°	58.8
67.5°	56.7
70°	54.6
72.5°	52.1
75°	49.0
77.5°	44.3
80°	37.6
82.5°	28.3
85°	18.6
87.5°	10.3
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	10.07	11.50	10.44	11.81	12.13	10.07	11.50	10.44	11.81	12.13
	3H	12.03	13.30	12.41	13.63	13.99	12.03	13.30	12.41	13.63	13.99
	4H	13.19	14.38	13.60	14.73	15.11	13.19	14.38	13.60	14.73	15.11
	6H	14.32	15.41	14.74	15.78	16.17	14.32	15.41	14.74	15.78	16.17
	8H	14.75	15.78	15.18	16.17	16.58	14.75	15.78	15.18	16.17	16.58
	12H	15.06	16.04	15.49	16.43	16.86	15.06	16.04	15.49	16.43	16.86
4H	2H	10.58	11.76	10.98	12.11	12.49	10.58	11.76	10.98	12.11	12.49
	3H	12.95	13.92	13.36	14.32	14.72	12.95	13.92	13.36	14.32	14.72
	4H	14.33	15.20	14.76	15.61	16.05	14.33	15.20	14.76	15.61	16.05
	6H	15.65	16.40	16.11	16.85	17.31	15.65	16.40	16.11	16.85	17.31
	8H	16.14	16.85	16.61	17.30	17.77	16.14	16.85	16.61	17.30	17.77
	12H	16.51	17.15	17.00	17.63	18.10	16.51	17.15	17.00	17.63	18.10
8H	4H	14.86	15.57	15.33	16.01	16.48	14.86	15.57	15.33	16.01	16.48
	6H	16.36	16.95	16.86	17.44	17.92	16.36	16.95	16.86	17.44	17.92
	8H	16.96	17.50	17.48	18.01	18.50	16.96	17.50	17.48	18.01	18.50
	12H	17.45	17.92	17.96	18.42	18.98	17.45	17.92	17.96	18.42	18.98
12H	4H	14.95	15.58	15.44	16.06	16.54	14.95	15.58	15.44	16.06	16.54
	6H	16.50	17.03	17.02	17.54	18.03	16.50	17.03	17.02	17.54	18.03
	8H	17.18	17.66	17.69	18.15	18.72	17.18	17.66	17.69	18.15	18.72

END OF REPORT