

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: P979431

Luminaire Tested: PRLX-240-935-18L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979431
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-240-935-18L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

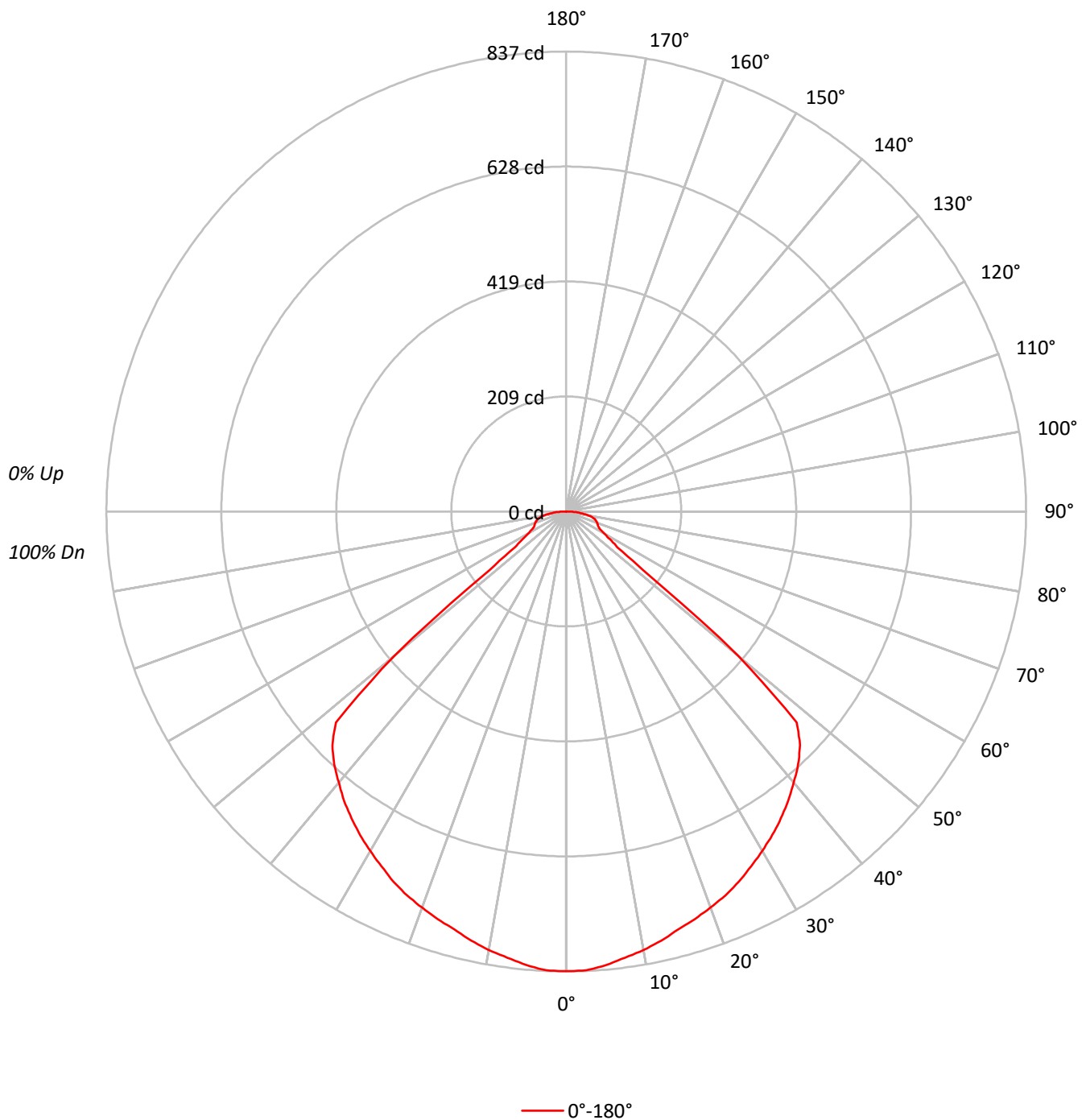
Lumens per Lamp: N/A
Luminaire Lumens: 1800.5 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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		102
1	111	107	103	100	108	105	101	99	100	98	96		97	95	93		93
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		85
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77
4	88	78	70	64	86	77	70	64	74	68	63		72	67	62		70
5	82	71	63	57	80	69	62	57	67	61	56		66	60	55		64
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		59
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		54
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		50
9	62	50	42	37	61	49	42	37	48	41	37		47	41	36		46
10	58	46	38	34	57	45	38	34	44	38	33		43	37	33		43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8424
5°	8376
10°	8288
15°	8209
20°	8221
25°	8260
30°	8296
35°	8376
40°	8466
45°	8569
50°	6402
55°	1992
60°	1591
65°	1534
70°	1761
75°	2085
80°	2389
85°	2345

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8569 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	4.4
10°-20°	222.9	12.4
20°-30°	342.8	19.0
30°-40°	426.7	23.7
40°-50°	447.6	24.9
50°-60°	138.4	7.7
60°-70°	65.6	3.6
70°-80°	55.4	3.1
80°-90°	22.6	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°	644.2	35.8
0°-40°	1070.9	59.5
0°-60°	1656.9	92.0
0°-90°	1800.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1800.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	837	
5°	829	78
15°	788	223
25°	744	343
35°	681	427
45°	602	448
55°	114	138
65°	64	66
75°	54	55
85°	20	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	836.6
2.5°	836.0
5°	828.7
7.5°	819.1
10°	810.6
12.5°	799.9
15°	787.5
17.5°	777.9
20°	767.2
22.5°	756.5
25°	743.5
27.5°	728.2
30°	713.5
32.5°	698.3
35°	681.4
37.5°	663.9
40°	644.1
42.5°	624.9
45°	601.8
47.5°	569.0
50°	408.7
52.5°	175.6
55°	113.5
57.5°	94.3
60°	79.0
62.5°	68.9
65°	64.4
67.5°	62.1
70°	59.8
72.5°	57.0
75°	53.6
77.5°	48.5
80°	41.2
82.5°	31.0
85°	20.3
87.5°	11.3
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	10.39	11.81	10.75	12.13	12.44	10.39	11.81	10.75	12.13	12.44
	3H	12.35	13.62	12.73	13.94	14.31	12.35	13.62	12.73	13.94	14.31
	4H	13.51	14.69	13.91	15.04	15.42	13.51	14.69	13.91	15.04	15.42
	6H	14.64	15.73	15.05	16.10	16.49	14.64	15.73	15.05	16.10	16.49
	8H	15.06	16.10	15.49	16.49	16.89	15.06	16.10	15.49	16.49	16.89
	12H	15.37	16.36	15.80	16.74	17.17	15.37	16.36	15.80	16.74	17.17
4H	2H	10.90	12.08	11.30	12.43	12.81	10.90	12.08	11.30	12.43	12.81
	3H	13.26	14.23	13.67	14.63	15.04	13.26	14.23	13.67	14.63	15.04
	4H	14.64	15.51	15.07	15.93	16.37	14.64	15.51	15.07	15.93	16.37
	6H	15.96	16.72	16.42	17.16	17.63	15.96	16.72	16.42	17.16	17.63
	8H	16.46	17.17	16.93	17.61	18.08	16.46	17.17	16.93	17.61	18.08
	12H	16.83	17.46	17.31	17.94	18.41	16.83	17.46	17.31	17.94	18.41
8H	4H	15.17	15.88	15.64	16.32	16.79	15.17	15.88	15.64	16.32	16.79
	6H	16.67	17.26	17.17	17.76	18.24	16.67	17.26	17.17	17.76	18.24
	8H	17.28	17.81	17.80	18.32	18.81	17.28	17.81	17.80	18.32	18.81
	12H	17.76	18.24	18.27	18.73	19.30	17.76	18.24	18.27	18.73	19.30
12H	4H	15.27	15.90	15.75	16.38	16.85	15.27	15.90	15.75	16.38	16.85
	6H	16.81	17.35	17.33	17.86	18.35	16.81	17.35	17.33	17.86	18.35
	8H	17.49	17.97	18.01	18.46	19.03	17.49	17.97	18.01	18.46	19.03