

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: P979673

Luminaire Tested: PRLX-241-930-18L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979673
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-241-930-18L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

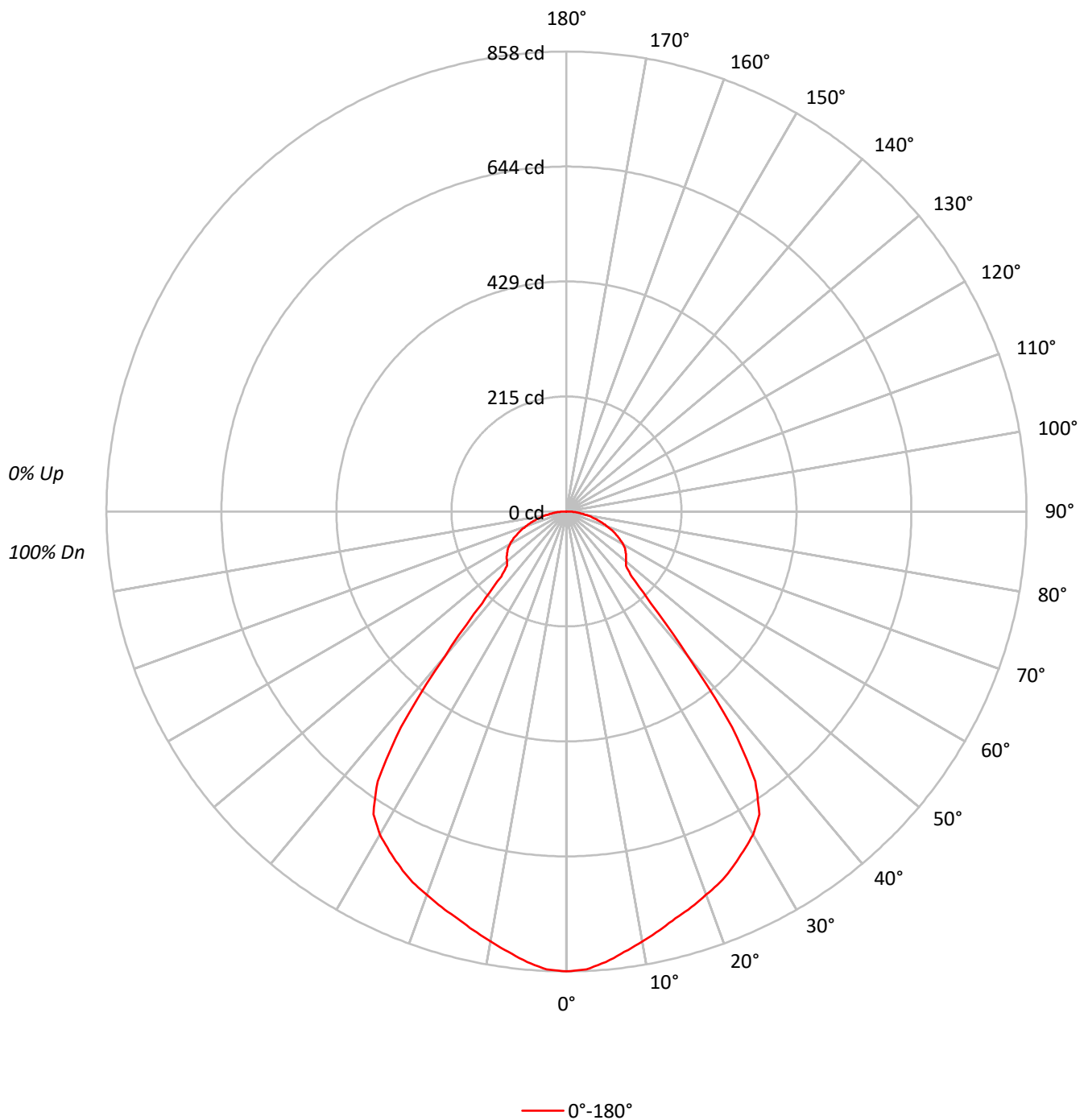
Lumens per Lamp: N/A
Luminaire Lumens: 1455.0 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	47
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43
9	64	52	45	40	63	52	45	40	51	44	40	50	44	39	49	43	39
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	46	40	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6614
5°	6529
10°	6377
15°	6271
20°	6245
25°	6232
30°	6196
35°	5780
40°	3557
45°	1871
50°	1737
55°	1814
60°	1878
65°	1864
70°	1810
75°	1725
80°	1625
85°	1495

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 1880 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	5.5
10°-20°	222.4	15.3
20°-30°	337.6	23.2
30°-40°	359.7	24.7
40°-50°	153.7	10.6
50°-60°	120.5	8.3
60°-70°	100.8	6.9
70°-80°	61.4	4.2
80°-90°	19.4	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°	639.5	44.0
0°-40°	999.2	68.7
0°-60°	1273.4	87.5
0°-90°	1455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1455.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	858	
5°	844	80
15°	786	222
25°	733	338
35°	614	360
45°	172	154
55°	135	121
65°	102	101
75°	58	61
85°	17	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	857.9
2.5°	855.1
5°	843.7
7.5°	828.9
10°	814.7
12.5°	800.5
15°	785.7
17.5°	774.3
20°	761.2
22.5°	749.1
25°	732.7
27.5°	714.7
30°	696.1
32.5°	669.9
35°	614.2
37.5°	507.6
40°	353.5
42.5°	233.3
45°	171.6
47.5°	150.3
50°	144.8
52.5°	140.4
55°	135.0
57.5°	129.5
60°	121.8
62.5°	112.6
65°	102.2
67.5°	91.3
70°	80.3
72.5°	68.8
75°	57.9
77.5°	47.5
80°	36.6
82.5°	26.8
85°	16.9
87.5°	9.3
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	12.57	13.91	12.93	14.22	14.54	12.57	13.91	12.93	14.22	14.54
	3H	14.57	15.77	14.95	16.10	16.47	14.57	15.77	14.95	16.10	16.47
	4H	15.33	16.45	15.73	16.81	17.19	15.33	16.45	15.73	16.81	17.19
	6H	15.91	16.95	16.33	17.32	17.72	15.91	16.95	16.33	17.32	17.72
	8H	16.11	17.10	16.54	17.49	17.90	16.11	17.10	16.54	17.49	17.90
	12H	16.25	17.20	16.68	17.58	18.01	16.25	17.20	16.68	17.58	18.01
4H	2H	13.24	14.36	13.64	14.71	15.10	13.24	14.36	13.64	14.71	15.10
	3H	15.44	16.38	15.85	16.78	17.18	15.44	16.38	15.85	16.78	17.18
	4H	16.32	17.17	16.75	17.58	18.03	16.32	17.17	16.75	17.58	18.03
	6H	17.04	17.77	17.50	18.21	18.68	17.04	17.77	17.50	18.21	18.68
	8H	17.29	17.97	17.75	18.42	18.89	17.29	17.97	17.75	18.42	18.89
	12H	17.47	18.08	17.96	18.56	19.04	17.47	18.08	17.96	18.56	19.04
8H	4H	16.64	17.33	17.11	17.77	18.24	16.64	17.33	17.11	17.77	18.24
	6H	17.50	18.06	18.00	18.55	19.03	17.50	18.06	18.00	18.55	19.03
	8H	17.84	18.34	18.36	18.85	19.34	17.84	18.34	18.36	18.85	19.34
	12H	18.12	18.55	18.63	19.05	19.62	18.12	18.55	18.63	19.05	19.62
12H	4H	16.67	17.28	17.15	17.76	18.23	16.67	17.28	17.15	17.76	18.23
	6H	17.56	18.06	18.08	18.58	19.07	17.56	18.06	18.08	18.58	19.07
	8H	17.97	18.40	18.48	18.90	19.47	17.97	18.40	18.48	18.90	19.47