

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: P979593

Luminaire Tested: PRLX-241-927-18L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979593
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-241-927-18L-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: -

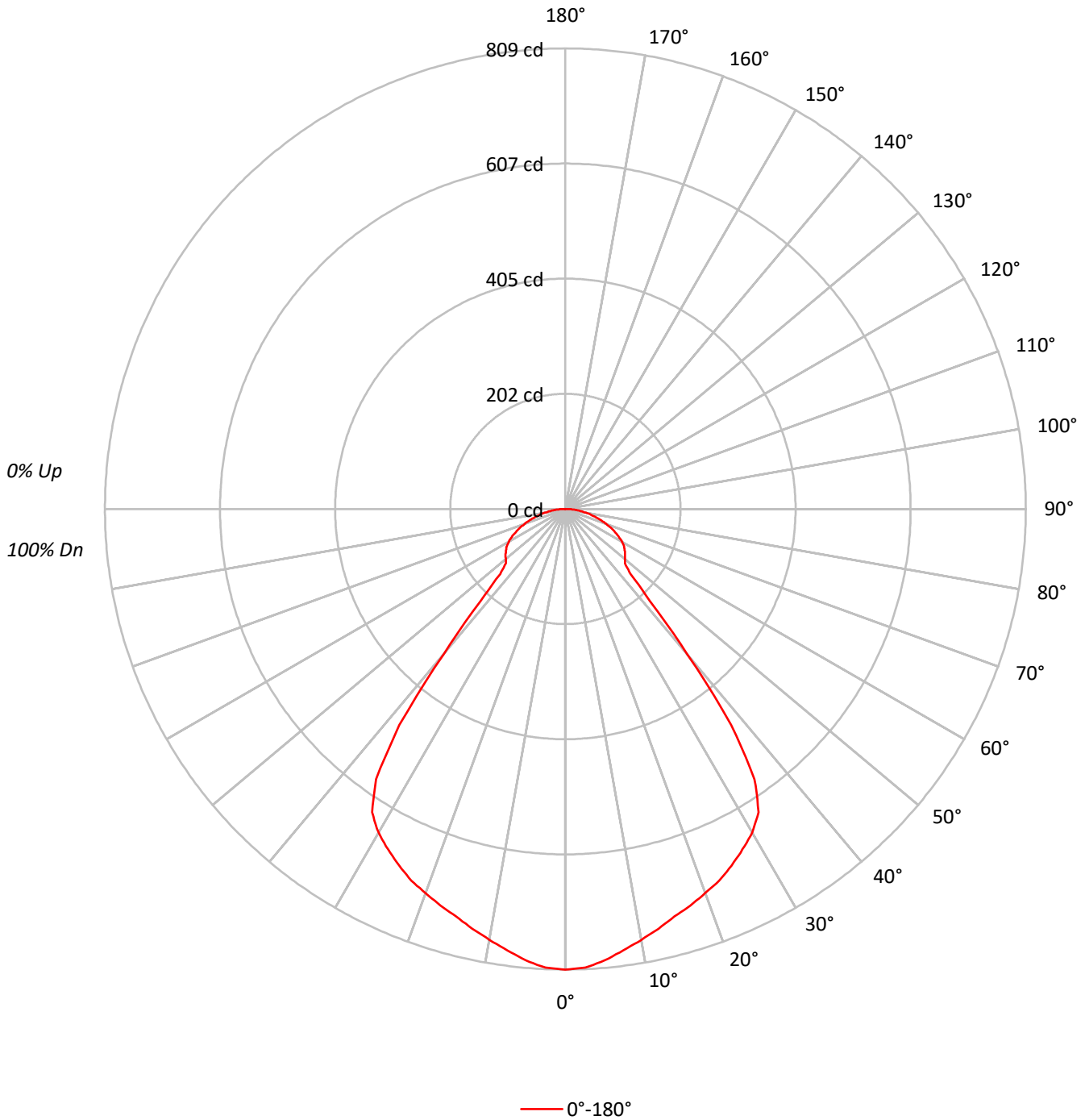
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1372.5 lumens
Efficiency: N/A
Efficacy: 124.8 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	100				100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79	77				77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68				68
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61				61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54				54
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49				49
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	47	45				45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41				41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	39	49	43	39	38				38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	46	40	36	35				35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6238
5°	6158
10°	6016
15°	5916
20°	5890
25°	5879
30°	5845
35°	5452
40°	3356
45°	1764
50°	1638
55°	1711
60°	1772
65°	1758
70°	1709
75°	1626
80°	1532
85°	1415

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 1773 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	5.5
10°-20°	209.7	15.3
20°-30°	318.4	23.2
30°-40°	339.3	24.7
40°-50°	145.0	10.6
50°-60°	113.7	8.3
60°-70°	95.1	6.9
70°-80°	57.9	4.2
80°-90°	18.3	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°	603.3	44.0
0°-40°	942.6	68.7
0°-60°	1201.2	87.5
0°-90°	1372.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1372.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	809	
5°	796	75
15°	741	210
25°	691	318
35°	579	339
45°	162	145
55°	127	114
65°	96	95
75°	55	58
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	809.2
2.5°	806.6
5°	795.8
7.5°	781.9
10°	768.5
12.5°	755.1
15°	741.2
17.5°	730.4
20°	718.0
22.5°	706.6
25°	691.2
27.5°	674.2
30°	656.6
32.5°	631.9
35°	579.3
37.5°	478.8
40°	333.5
42.5°	220.1
45°	161.8
47.5°	141.7
50°	136.6
52.5°	132.5
55°	127.3
57.5°	122.2
60°	114.9
62.5°	106.2
65°	96.4
67.5°	86.1
70°	75.8
72.5°	64.9
75°	54.6
77.5°	44.8
80°	34.5
82.5°	25.3
85°	16.0
87.5°	8.8
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	12.37	13.71	12.73	14.02	14.34	12.37	13.71	12.73	14.02	14.34
	3H	14.37	15.57	14.75	15.90	16.27	14.37	15.57	14.75	15.90	16.27
	4H	15.13	16.25	15.53	16.60	16.99	15.13	16.25	15.53	16.60	16.99
	6H	15.71	16.75	16.13	17.12	17.51	15.71	16.75	16.13	17.12	17.51
	8H	15.91	16.90	16.34	17.29	17.69	15.91	16.90	16.34	17.29	17.69
	12H	16.05	16.99	16.48	17.38	17.81	16.05	16.99	16.48	17.38	17.81
4H	2H	13.04	14.16	13.44	14.51	14.90	13.04	14.16	13.44	14.51	14.90
	3H	15.24	16.17	15.65	16.58	16.98	15.24	16.17	15.65	16.58	16.98
	4H	16.12	16.96	16.55	17.38	17.82	16.12	16.96	16.55	17.38	17.82
	6H	16.83	17.57	17.29	18.01	18.48	16.83	17.57	17.29	18.01	18.48
	8H	17.08	17.77	17.55	18.22	18.69	17.08	17.77	17.55	18.22	18.69
	12H	17.27	17.88	17.76	18.36	18.83	17.27	17.88	17.76	18.36	18.83
8H	4H	16.44	17.12	16.91	17.57	18.04	16.44	17.12	16.91	17.57	18.04
	6H	17.29	17.85	17.79	18.35	18.83	17.29	17.85	17.79	18.35	18.83
	8H	17.63	18.14	18.15	18.65	19.14	17.63	18.14	18.15	18.65	19.14
	12H	17.91	18.35	18.43	18.85	19.42	17.91	18.35	18.43	18.85	19.42
12H	4H	16.47	17.07	16.95	17.56	18.03	16.47	17.07	16.95	17.56	18.03
	6H	17.36	17.86	17.88	18.37	18.86	17.36	17.86	17.88	18.37	18.86
	8H	17.76	18.20	18.28	18.70	19.27	17.76	18.20	18.28	18.70	19.27