

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: P979581

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-927-12L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

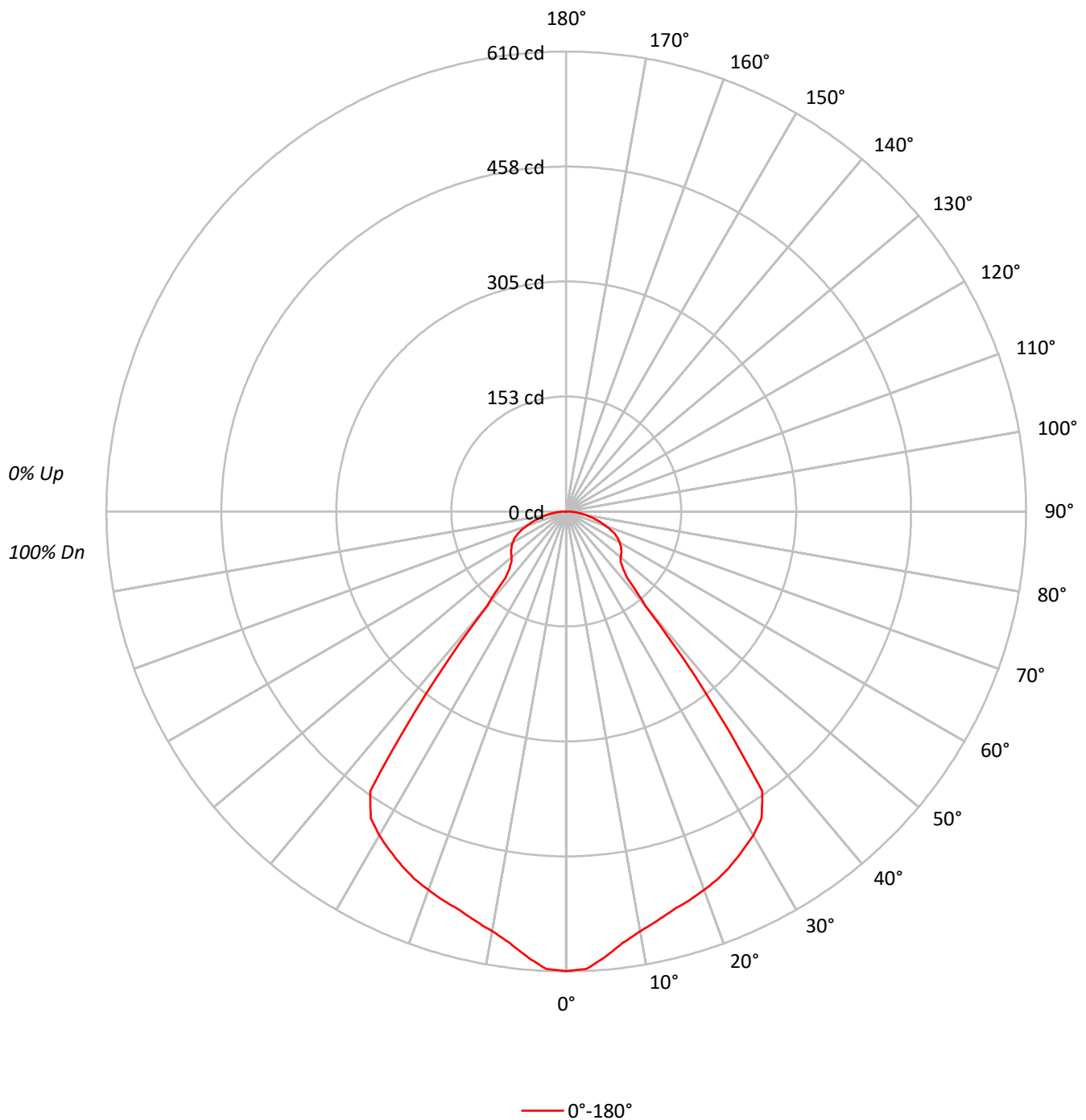
Lumens per Lamp: N/A
Luminaire Lumens: 983.6 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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	30	10	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88		
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77		
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68		
4	89	79	71	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61		
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	66	61	57	55		
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	52	50		
7	73	61	54	48	71	60	53	48	59	53	48	58	52	48	56	51	47	45		
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42		
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38		
10	61	49	42	38	60	49	42	37	48	42	37	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4700
5°	4590
10°	4424
15°	4367
20°	4382
25°	4403
30°	4416
35°	4264
40°	1646
45°	1157
50°	1133
55°	1199
60°	1261
65°	1299
70°	1255
75°	1185
80°	1110
85°	1026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 65°

Luminance: 1299 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	5.7
10°-20°	155.1	15.8
20°-30°	238.6	24.3
30°-40°	242.8	24.7
40°-50°	87.0	8.8
50°-60°	79.5	8.1
60°-70°	69.5	7.1
70°-80°	42.2	4.3
80°-90°	13.3	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°	449.4	45.7
0°-40°	692.2	70.4
0°-60°	858.6	87.3
0°-90°	983.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	983.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	610	
5°	593	56
15°	547	155
25°	518	239
35°	453	243
45°	106	87
55°	89	80
65°	71	69
75°	40	42
85°	12	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	609.7
2.5°	607.5
5°	593.1
7.5°	576.9
10°	565.2
12.5°	556.4
15°	547.2
17.5°	541.2
20°	534.2
22.5°	527.1
25°	517.6
27.5°	507.0
30°	496.1
32.5°	482.4
35°	453.1
37.5°	306.8
40°	163.6
42.5°	119.2
45°	106.1
47.5°	98.0
50°	94.5
52.5°	92.0
55°	89.2
57.5°	85.7
60°	81.8
62.5°	77.2
65°	71.2
67.5°	63.5
70°	55.7
72.5°	47.6
75°	39.8
77.5°	32.4
80°	25.0
82.5°	18.3
85°	11.6
87.5°	6.3
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	11.09	12.41	11.45	12.72	13.04	11.09	12.41	11.45	12.72	13.04
	3H	13.25	14.43	13.63	14.76	15.13	13.25	14.43	13.63	14.76	15.13
	4H	14.03	15.14	14.43	15.49	15.87	14.03	15.14	14.43	15.49	15.87
	6H	14.62	15.64	15.03	16.01	16.40	14.62	15.64	15.03	16.01	16.40
	8H	14.82	15.79	15.25	16.18	16.59	14.82	15.79	15.25	16.18	16.59
	12H	14.96	15.89	15.39	16.27	16.70	14.96	15.89	15.39	16.27	16.70
4H	2H	11.84	12.95	12.24	13.30	13.68	11.84	12.95	12.24	13.30	13.68
	3H	14.15	15.08	14.57	15.48	15.89	14.15	15.08	14.57	15.48	15.89
	4H	15.05	15.88	15.48	16.30	16.75	15.05	15.88	15.48	16.30	16.75
	6H	15.76	16.49	16.22	16.93	17.40	15.76	16.49	16.22	16.93	17.40
	8H	16.01	16.69	16.48	17.13	17.60	16.01	16.69	16.48	17.13	17.60
	12H	16.20	16.80	16.68	17.28	17.75	16.20	16.80	16.68	17.28	17.75
8H	4H	15.37	16.05	15.84	16.49	16.96	15.37	16.05	15.84	16.49	16.96
	6H	16.22	16.78	16.72	17.27	17.75	16.22	16.78	16.72	17.27	17.75
	8H	16.56	17.06	17.08	17.57	18.06	16.56	17.06	17.08	17.57	18.06
	12H	16.84	17.27	17.36	17.77	18.34	16.84	17.27	17.36	17.77	18.34
12H	4H	15.40	16.00	15.88	16.48	16.95	15.40	16.00	15.88	16.48	16.95
	6H	16.29	16.78	16.81	17.30	17.79	16.29	16.78	16.81	17.30	17.79
	8H	16.69	17.12	17.21	17.62	18.19	16.69	17.12	17.21	17.62	18.19