

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: P979903

Luminaire Tested: PRLX-242-927-12L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-927-12L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

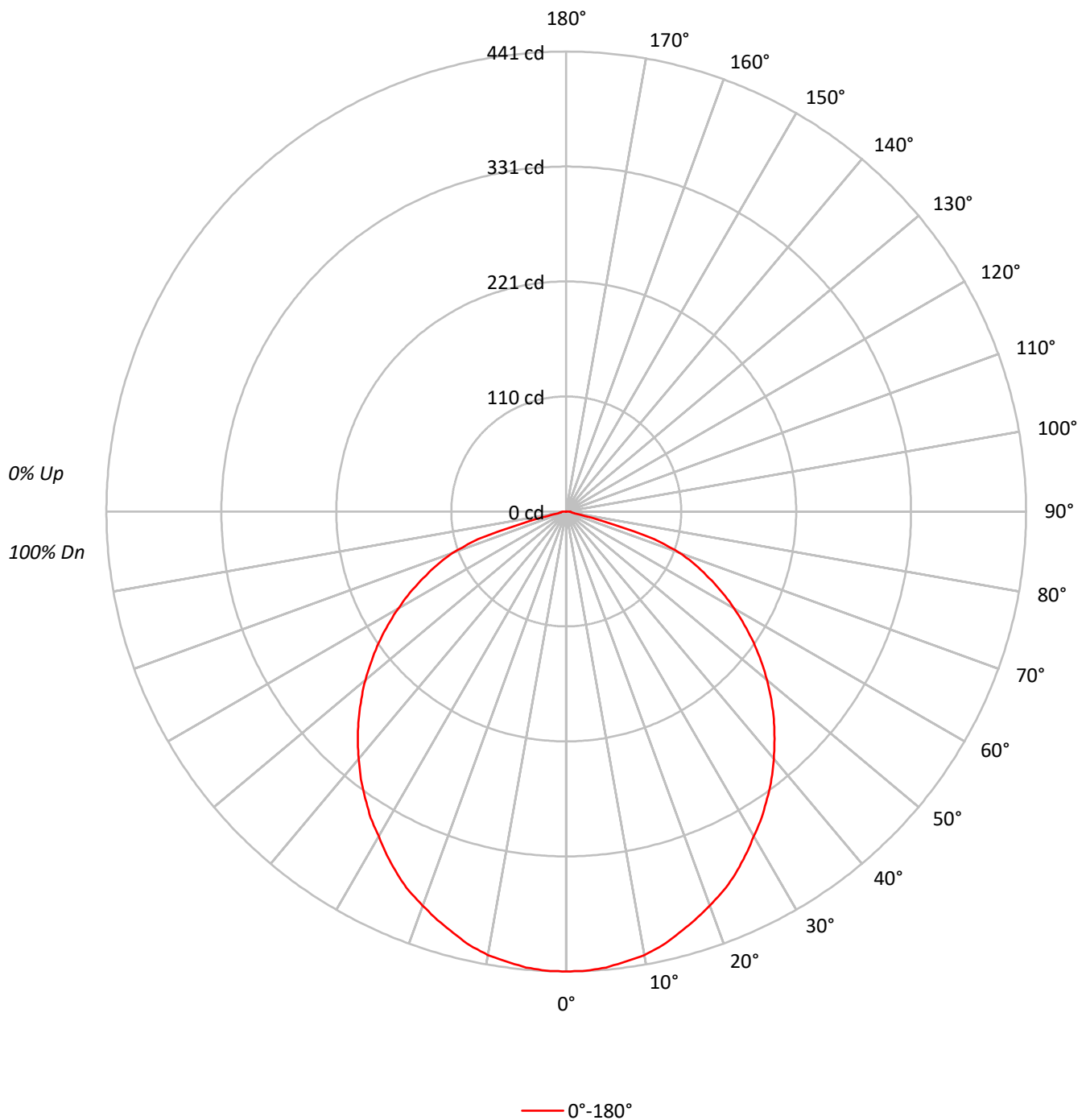
Lumens per Lamp: N/A
Luminaire Lumens: 1163.6 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	110	105	101	98	107	103	100	96	99	96	93		95	93	90		86
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		72
3	91	81	73	67	89	80	72	67	77	71	65		74	69	64		61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		40
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		35
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1974
5°	1972
10°	1963
15°	1939
20°	1916
25°	1894
30°	1859
35°	1836
40°	1809
45°	1781
50°	1750
55°	1711
60°	1663
65°	1602
70°	1514
75°	628
80°	137
85°	216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1781 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	3.6
10°-20°	118.1	10.1
20°-30°	176.5	15.2
30°-40°	210.2	18.1
40°-50°	217.1	18.7
50°-60°	195.9	16.8
60°-70°	149.7	12.9
70°-80°	50.6	4.3
80°-90°	3.9	0.3
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°	336.3	28.9
0°-40°	546.5	47.0
0°-60°	959.5	82.5
0°-90°	1163.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1163.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	441	
5°	439	42
15°	418	118
25°	384	177
35°	336	210
45°	281	217
55°	219	196
65°	151	150
75°	36	51
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	441.1
2.5°	440.8
5°	439.0
7.5°	435.5
10°	431.9
12.5°	426.3
15°	418.5
17.5°	410.8
20°	402.3
22.5°	393.9
25°	383.6
27.5°	372.0
30°	359.7
32.5°	348.7
35°	336.0
37.5°	323.3
40°	309.6
42.5°	295.8
45°	281.4
47.5°	266.6
50°	251.4
52.5°	235.5
55°	219.3
57.5°	202.7
60°	185.8
62.5°	168.9
65°	151.3
67.5°	134.0
70°	115.7
72.5°	88.5
75°	36.3
77.5°	7.8
80°	5.3
82.5°	4.9
85°	4.2
87.5°	2.5
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	14.22	15.82	14.58	16.14	16.45	14.22	15.82	14.58	16.14	16.45
	3H	16.05	17.49	16.42	17.81	18.18	16.05	17.49	16.42	17.81	18.18
	4H	16.28	17.63	16.68	17.98	18.36	16.28	17.63	16.68	17.98	18.36
	6H	16.23	17.48	16.64	17.84	18.23	16.23	17.48	16.64	17.84	18.23
	8H	16.20	17.39	16.62	17.78	18.18	16.20	17.39	16.62	17.78	18.18
	12H	16.18	17.32	16.60	17.70	18.13	16.18	17.32	16.60	17.70	18.13
4H	2H	14.87	16.22	15.27	16.57	16.95	14.87	16.22	15.27	16.57	16.95
	3H	16.87	18.00	17.28	18.40	18.80	16.87	18.00	17.28	18.40	18.80
	4H	17.09	18.10	17.52	18.52	18.95	17.09	18.10	17.52	18.52	18.95
	6H	17.05	17.93	17.51	18.37	18.83	17.05	17.93	17.51	18.37	18.83
	8H	17.02	17.84	17.48	18.28	18.75	17.02	17.84	17.48	18.28	18.75
	12H	17.00	17.73	17.49	18.21	18.68	17.00	17.73	17.49	18.21	18.68
8H	4H	17.14	17.96	17.61	18.40	18.87	17.14	17.96	17.61	18.40	18.87
	6H	17.09	17.76	17.59	18.25	18.73	17.09	17.76	17.59	18.25	18.73
	8H	17.06	17.66	17.57	18.16	18.65	17.06	17.66	17.57	18.16	18.65
	12H	17.05	17.57	17.56	18.07	18.63	17.05	17.57	17.56	18.07	18.63
12H	4H	17.12	17.85	17.60	18.33	18.80	17.12	17.85	17.60	18.33	18.80
	6H	17.05	17.65	17.56	18.16	18.64	17.05	17.65	17.56	18.16	18.64
	8H	17.04	17.56	17.55	18.06	18.62	17.04	17.56	17.55	18.06	18.62