

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: P980283

Luminaire Tested: PRLX-243-927-62L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-927-62L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

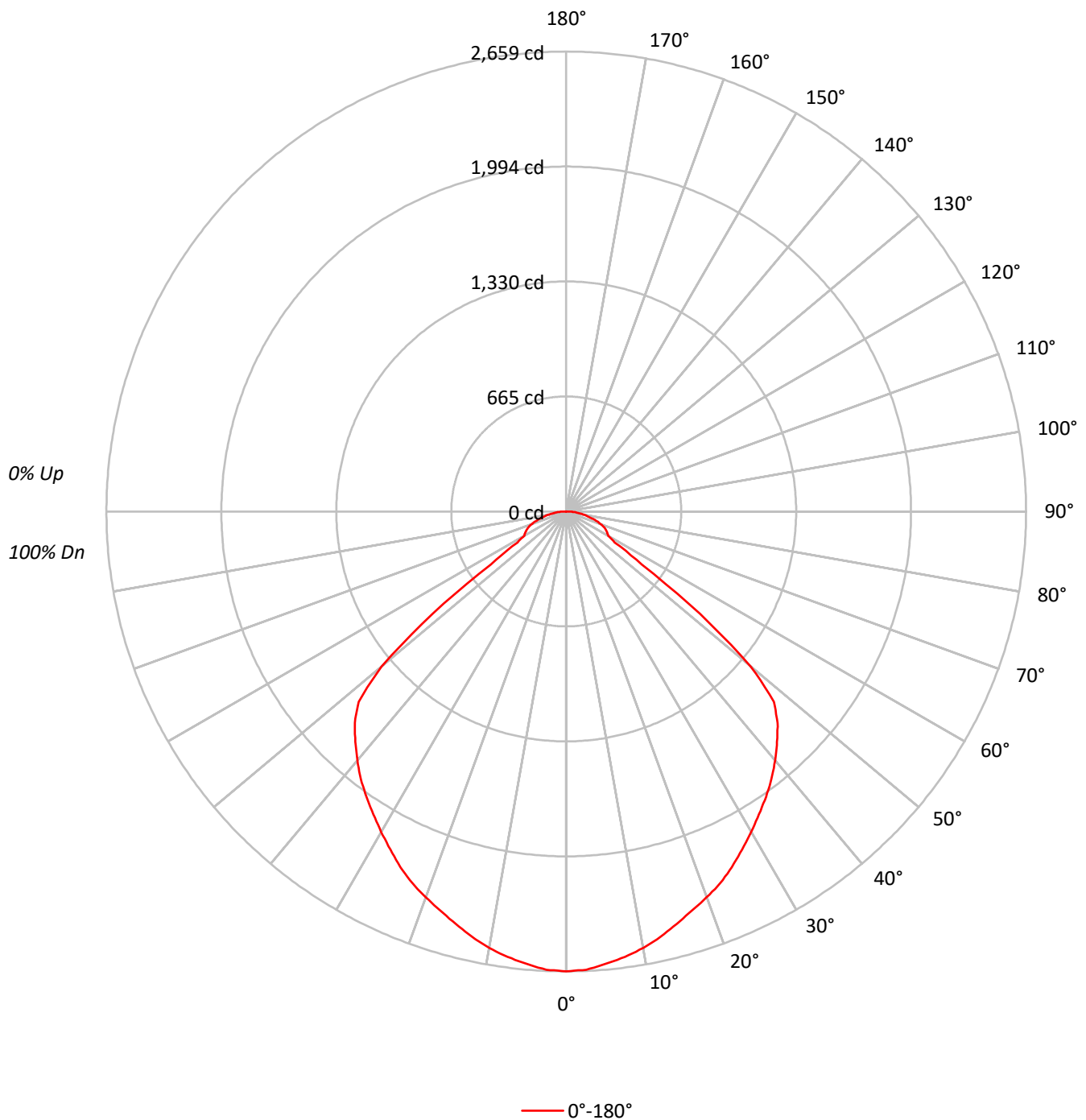
Lumens per Lamp: N/A
Luminaire Lumens: 5620.1 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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
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	95		97	95	93		93
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		69
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63
6	76	64	56	50	74	63	55	50	61	54	49		59	53	49		58
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53
8	66	53	45	40	64	53	45	40	51	45	40		50	44	39		49
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13120
5°	13008
10°	12839
15°	12608
20°	12463
25°	12348
30°	12188
35°	12130
40°	12105
45°	12061
50°	10701
55°	4580
60°	2762
65°	2949
70°	3041
75°	2945
80°	2841
85°	2881

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12061 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.7	4.4
10°-20°	697.0	12.4
20°-30°	1044.5	18.6
30°-40°	1261.0	22.4
40°-50°	1311.7	23.3
50°-60°	590.1	10.5
60°-70°	247.6	4.4
70°-80°	163.7	2.9
80°-90°	55.7	1.0
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°	1990.2	35.4
0°-40°	3251.2	57.9
0°-60°	5153.0	91.7
0°-90°	5620.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5620.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2659	
5°	2626	249
15°	2468	697
25°	2268	1044
35°	2014	1261
45°	1728	1312
55°	532	590
65°	253	248
75°	154	164
85°	51	56
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2659.1
2.5°	2651.8
5°	2626.4
7.5°	2597.3
10°	2562.8
12.5°	2519.2
15°	2468.3
17.5°	2419.2
20°	2373.7
22.5°	2326.5
25°	2268.3
27.5°	2202.9
30°	2139.3
32.5°	2075.7
35°	2013.9
37.5°	1950.3
40°	1879.4
42.5°	1804.8
45°	1728.5
47.5°	1628.5
50°	1394.1
52.5°	974.2
55°	532.5
57.5°	332.6
60°	279.9
62.5°	267.2
65°	252.6
67.5°	234.5
70°	210.8
72.5°	183.6
75°	154.5
77.5°	127.2
80°	100.0
82.5°	74.5
85°	50.9
87.5°	29.1
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	12.69	14.13	13.05	14.45	14.76	12.69	14.13	13.05	14.45	14.76
	3H	14.78	16.06	15.16	16.39	16.76	14.78	16.06	15.16	16.39	16.76
	4H	15.61	16.81	16.01	17.16	17.54	15.61	16.81	16.01	17.16	17.54
	6H	16.25	17.36	16.67	17.73	18.12	16.25	17.36	16.67	17.73	18.12
	8H	16.49	17.54	16.91	17.93	18.33	16.49	17.54	16.91	17.93	18.33
	12H	16.67	17.67	17.10	18.06	18.49	16.67	17.67	17.10	18.06	18.49
4H	2H	13.35	14.55	13.75	14.90	15.28	13.35	14.55	13.75	14.90	15.28
	3H	15.69	16.67	16.10	17.08	17.48	15.69	16.67	16.10	17.08	17.48
	4H	16.65	17.53	17.09	17.95	18.39	16.65	17.53	17.09	17.95	18.39
	6H	17.43	18.20	17.89	18.64	19.11	17.43	18.20	17.89	18.64	19.11
	8H	17.72	18.44	18.19	18.88	19.35	17.72	18.44	18.19	18.88	19.35
	12H	17.96	18.59	18.44	19.07	19.55	17.96	18.59	18.44	19.07	19.55
8H	4H	17.01	17.72	17.47	18.17	18.64	17.01	17.72	17.47	18.17	18.64
	6H	17.93	18.52	18.43	19.02	19.49	17.93	18.52	18.43	19.02	19.49
	8H	18.31	18.84	18.82	19.35	19.84	18.31	18.84	18.82	19.35	19.84
	12H	18.64	19.12	19.15	19.62	20.18	18.64	19.12	19.15	19.62	20.18
12H	4H	17.04	17.68	17.53	18.16	18.63	17.04	17.68	17.53	18.16	18.63
	6H	18.00	18.54	18.52	19.05	19.54	18.00	18.54	18.52	19.05	19.54
	8H	18.44	18.92	18.96	19.42	19.98	18.44	18.92	18.96	19.42	19.98