

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: P980363

Luminaire Tested: PRLX-243-930-62L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980363
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-243-930-62L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

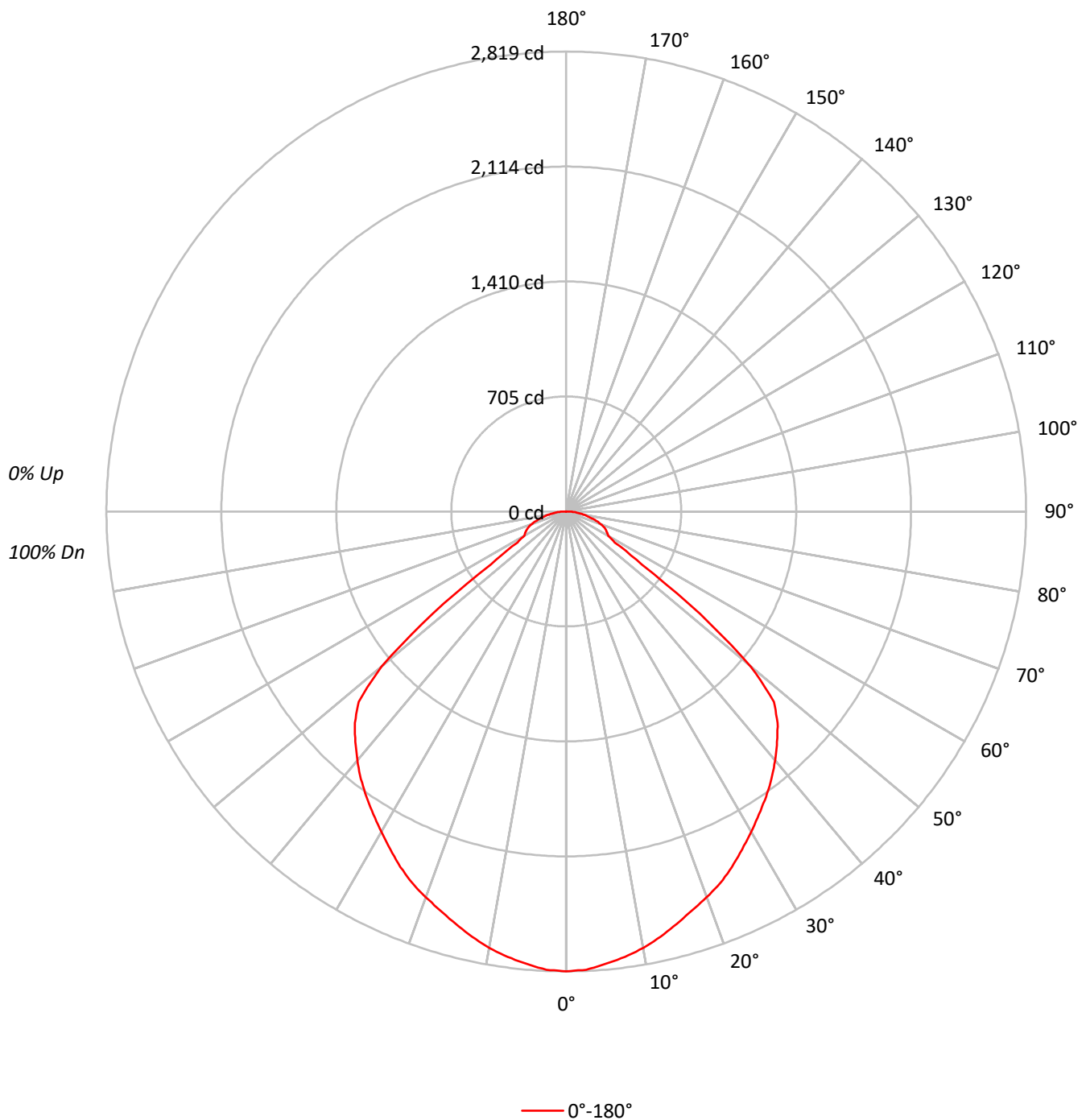
Lumens per Lamp: N/A
Luminaire Lumens: 5958.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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°	13908
5°	13790
10°	13611
15°	13366
20°	13213
25°	13091
30°	12920
35°	12859
40°	12832
45°	12786
50°	11344
55°	4857
60°	2928
65°	3126
70°	3224
75°	3122
80°	3012
85°	3057

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12786 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.7	4.4
10°-20°	738.9	12.4
20°-30°	1107.3	18.6
30°-40°	1336.8	22.4
40°-50°	1390.6	23.3
50°-60°	625.6	10.5
60°-70°	262.5	4.4
70°-80°	173.6	2.9
80°-90°	59.0	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°	2109.9	35.4
0°-40°	3446.7	57.9
0°-60°	5462.9	91.7
0°-90°	5958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5958.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2819	
5°	2784	264
15°	2617	739
25°	2405	1107
35°	2135	1337
45°	1832	1391
55°	565	626
65°	268	263
75°	164	174
85°	54	59
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2819.0
2.5°	2811.3
5°	2784.3
7.5°	2753.5
10°	2716.9
12.5°	2670.6
15°	2616.7
17.5°	2564.7
20°	2516.5
22.5°	2466.4
25°	2404.7
27.5°	2335.4
30°	2267.9
32.5°	2200.5
35°	2135.0
37.5°	2067.5
40°	1992.4
42.5°	1913.4
45°	1832.4
47.5°	1726.5
50°	1477.9
52.5°	1032.8
55°	564.6
57.5°	352.6
60°	296.7
62.5°	283.2
65°	267.8
67.5°	248.6
70°	223.5
72.5°	194.6
75°	163.8
77.5°	134.9
80°	106.0
82.5°	79.0
85°	54.0
87.5°	30.8
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	12.89	14.34	13.25	14.65	14.97	12.89	14.34	13.25	14.65	14.97
	3H	14.98	16.27	15.36	16.60	16.96	14.98	16.27	15.36	16.60	16.96
	4H	15.81	17.01	16.21	17.36	17.74	15.81	17.01	16.21	17.36	17.74
	6H	16.46	17.56	16.87	17.93	18.32	16.46	17.56	16.87	17.93	18.32
	8H	16.69	17.74	17.12	18.13	18.53	16.69	17.74	17.12	18.13	18.53
	12H	16.87	17.88	17.30	18.26	18.69	16.87	17.88	17.30	18.26	18.69
4H	2H	13.55	14.75	13.95	15.10	15.48	13.55	14.75	13.95	15.10	15.48
	3H	15.89	16.88	16.31	17.28	17.68	15.89	16.88	16.31	17.28	17.68
	4H	16.86	17.74	17.29	18.15	18.59	16.86	17.74	17.29	18.15	18.59
	6H	17.64	18.40	18.10	18.85	19.31	17.64	18.40	18.10	18.85	19.31
	8H	17.92	18.64	18.39	19.08	19.55	17.92	18.64	18.39	19.08	19.55
	12H	18.16	18.80	18.64	19.28	19.75	18.16	18.80	18.64	19.28	19.75
8H	4H	17.21	17.92	17.67	18.37	18.84	17.21	17.92	17.67	18.37	18.84
	6H	18.13	18.73	18.63	19.22	19.70	18.13	18.73	18.63	19.22	19.70
	8H	18.51	19.05	19.03	19.56	20.05	18.51	19.05	19.03	19.56	20.05
	12H	18.85	19.33	19.36	19.82	20.39	18.85	19.33	19.36	19.82	20.39
12H	4H	17.25	17.88	17.73	18.36	18.84	17.25	17.88	17.73	18.36	18.84
	6H	18.20	18.74	18.72	19.25	19.74	18.20	18.74	18.72	19.25	19.74
	8H	18.65	19.13	19.16	19.62	20.19	18.65	19.13	19.16	19.62	20.19