

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: P979403

Luminaire Tested: PRLX-240-930-62L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-930-62L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

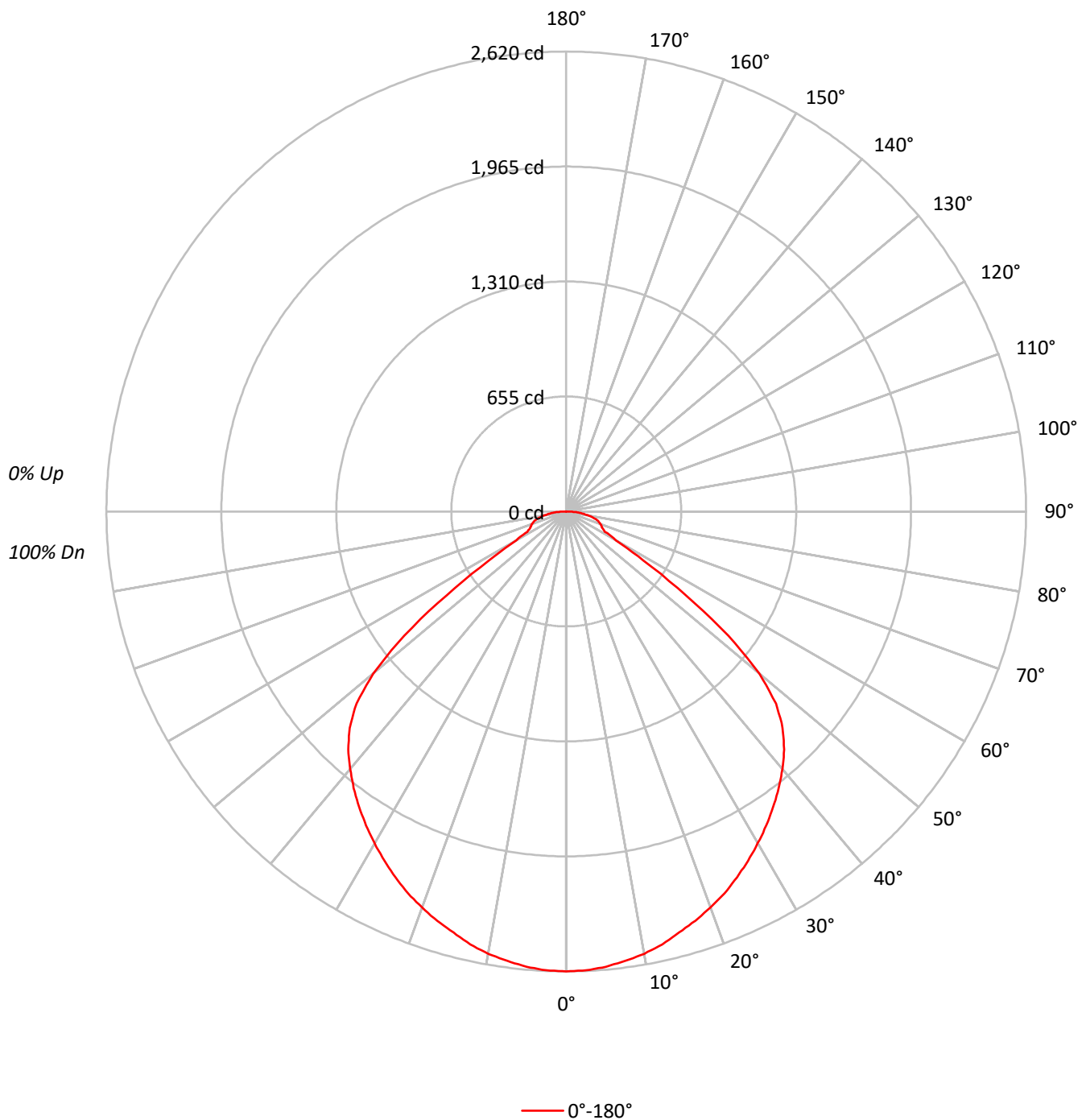
Lumens per Lamp: N/A
Luminaire Lumens: 5864.2 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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	104	101	98	100	98	95		96	94	92		93
2	102	95	89	84	100	93	88	83	90	85	82		87	83	80		84
3	94	85	78	72	92	84	77	72	81	75	71		78	73	69		76
4	87	77	69	63	85	75	68	62	73	67	62		71	65	61		69
5	81	69	61	55	79	68	61	55	66	59	54		64	58	54		62
6	75	63	55	49	73	62	54	49	60	53	48		59	52	48		57
7	70	57	49	44	68	56	49	43	55	48	43		54	47	43		52
8	65	52	45	39	64	52	44	39	50	44	39		49	43	39		48
9	61	48	41	35	59	48	40	35	47	40	35		46	39	35		45
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26386
5°	26312
10°	26163
15°	25891
20°	25726
25°	25561
30°	25382
35°	25272
40°	25175
45°	24831
50°	22487
55°	14613
60°	6597
65°	5418
70°	6126
75°	6820
80°	7150
85°	7348

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 24831 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.0	4.2
10°-20°	701.8	12.0
20°-30°	1060.5	18.1
30°-40°	1286.9	21.9
40°-50°	1326.8	22.6
50°-60°	752.5	12.8
60°-70°	238.0	4.1
70°-80°	181.6	3.1
80°-90°	69.2	1.2
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°	2009.2	34.3
0°-40°	3296.2	56.2
0°-60°	5375.4	91.7
0°-90°	5864.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5864.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2620	
5°	2603	247
15°	2484	702
25°	2301	1060
35°	2056	1287
45°	1744	1327
55°	832	752
65°	227	238
75°	175	182
85°	64	69
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2620.5
2.5°	2616.7
5°	2603.2
7.5°	2582.0
10°	2558.9
12.5°	2526.1
15°	2483.7
17.5°	2445.2
20°	2400.9
22.5°	2354.6
25°	2300.7
27.5°	2242.9
30°	2183.1
32.5°	2121.5
35°	2056.0
37.5°	1988.5
40°	1915.3
42.5°	1838.2
45°	1743.8
47.5°	1620.5
50°	1435.5
52.5°	1163.8
55°	832.4
57.5°	522.2
60°	327.6
62.5°	248.6
65°	227.4
67.5°	217.7
70°	208.1
72.5°	194.6
75°	175.3
77.5°	152.2
80°	123.3
82.5°	94.4
85°	63.6
87.5°	34.7
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	18.01	19.48	18.37	19.79	20.11	18.01	19.48	18.37	19.79	20.11
	3H	18.90	20.21	19.28	20.53	20.90	18.90	20.21	19.28	20.53	20.90
	4H	19.51	20.73	19.91	21.08	21.46	19.51	20.73	19.91	21.08	21.46
	6H	20.11	21.23	20.52	21.60	21.99	20.11	21.23	20.52	21.60	21.99
	8H	20.34	21.41	20.77	21.80	22.20	20.34	21.41	20.77	21.80	22.20
	12H	20.53	21.55	20.96	21.93	22.36	20.53	21.55	20.96	21.93	22.36
4H	2H	18.13	19.35	18.53	19.70	20.08	18.13	19.35	18.53	19.70	20.08
	3H	19.37	20.37	19.79	20.78	21.18	19.37	20.37	19.79	20.78	21.18
	4H	20.20	21.09	20.63	21.51	21.95	20.20	21.09	20.63	21.51	21.95
	6H	21.00	21.78	21.46	22.23	22.69	21.00	21.78	21.46	22.23	22.69
	8H	21.32	22.05	21.79	22.50	22.96	21.32	22.05	21.79	22.50	22.96
	12H	21.58	22.23	22.07	22.71	23.19	21.58	22.23	22.07	22.71	23.19
8H	4H	20.51	21.24	20.98	21.69	22.15	20.51	21.24	20.98	21.69	22.15
	6H	21.48	22.09	21.98	22.58	23.06	21.48	22.09	21.98	22.58	23.06
	8H	21.90	22.45	22.42	22.96	23.45	21.90	22.45	22.42	22.96	23.45
	12H	22.27	22.76	22.78	23.26	23.82	22.27	22.76	22.78	23.26	23.82
12H	4H	20.55	21.21	21.04	21.69	22.16	20.55	21.21	21.04	21.69	22.16
	6H	21.56	22.11	22.08	22.62	23.11	21.56	22.11	22.08	22.62	23.11
	8H	22.05	22.55	22.56	23.04	23.61	22.05	22.55	22.56	23.04	23.61

END OF REPORT