

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: P979393

Luminaire Tested: PRLX-240-930-48L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979393
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-240-930-48L-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

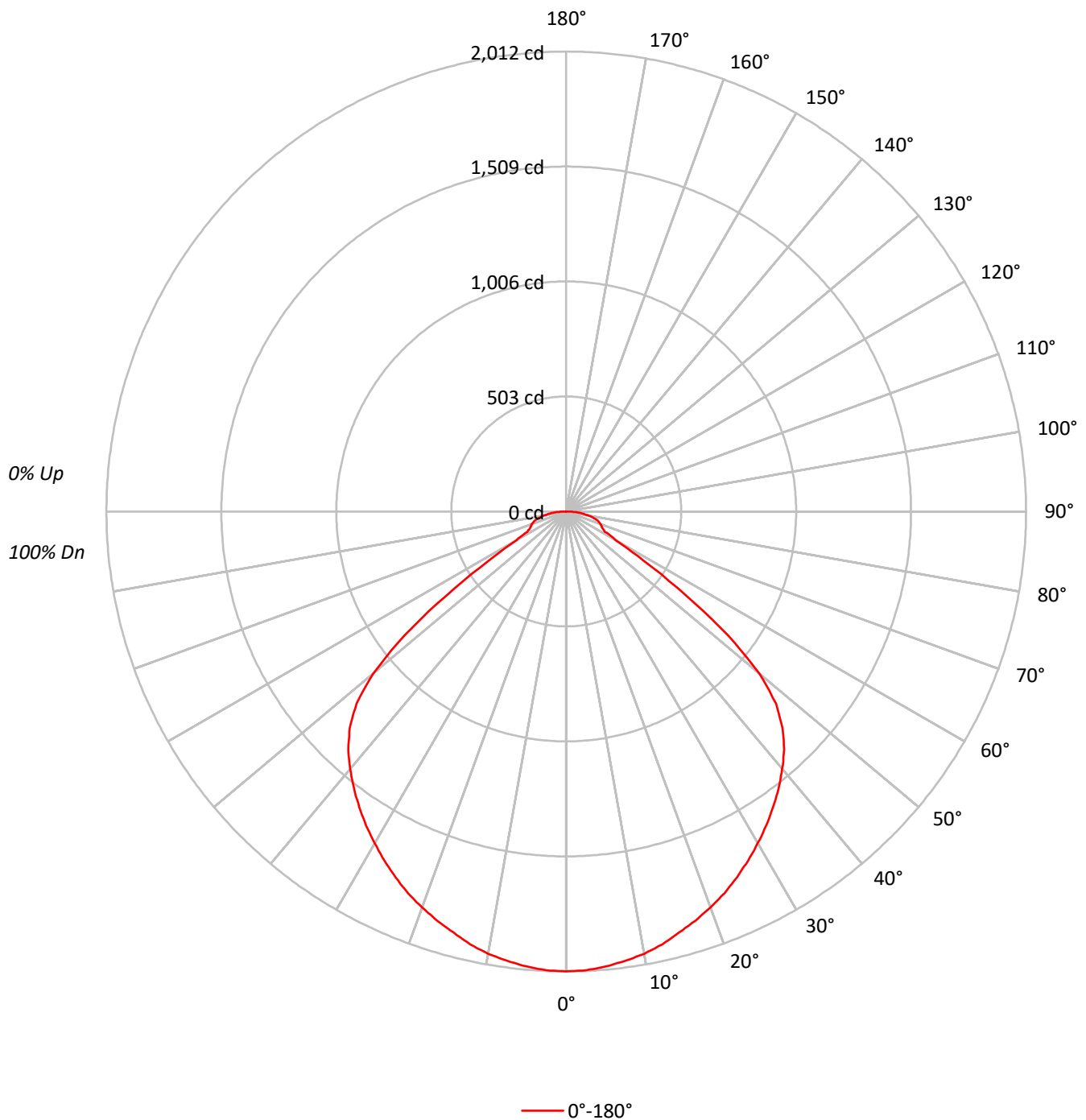
Lumens per Lamp: N/A
Luminaire Lumens: 4502.5 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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
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°	20259
5°	20202
10°	20088
15°	19879
20°	19752
25°	19625
30°	19489
35°	19403
40°	19328
45°	19066
50°	17266
55°	11219
60°	5065
65°	4160
70°	4704
75°	5236
80°	5491
85°	5638

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19066 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	4.2
10°-20°	538.8	12.0
20°-30°	814.2	18.1
30°-40°	988.1	21.9
40°-50°	1018.7	22.6
50°-60°	577.7	12.8
60°-70°	182.7	4.1
70°-80°	139.4	3.1
80°-90°	53.1	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°	1542.7	34.3
0°-40°	2530.7	56.2
0°-60°	4127.2	91.7
0°-90°	4502.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4502.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2012	
5°	1999	190
15°	1907	539
25°	1766	814
35°	1578	988
45°	1339	1019
55°	639	578
65°	175	183
75°	135	139
85°	49	53
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2012.0
2.5°	2009.0
5°	1998.7
7.5°	1982.4
10°	1964.7
12.5°	1939.5
15°	1907.0
17.5°	1877.4
20°	1843.4
22.5°	1807.8
25°	1766.4
27.5°	1722.0
30°	1676.2
32.5°	1628.8
35°	1578.5
37.5°	1526.8
40°	1470.5
42.5°	1411.4
45°	1338.9
47.5°	1244.2
50°	1102.2
52.5°	893.6
55°	639.1
57.5°	400.9
60°	251.5
62.5°	190.8
65°	174.6
67.5°	167.2
70°	159.8
72.5°	149.4
75°	134.6
77.5°	116.9
80°	94.7
82.5°	72.5
85°	48.8
87.5°	26.6
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	17.09	18.56	17.45	18.87	19.19	17.09	18.56	17.45	18.87	19.19
	3H	17.98	19.29	18.36	19.62	19.98	17.98	19.29	18.36	19.62	19.98
	4H	18.59	19.81	18.99	20.16	20.54	18.59	19.81	18.99	20.16	20.54
	6H	19.19	20.31	19.60	20.68	21.07	19.19	20.31	19.60	20.68	21.07
	8H	19.43	20.49	19.85	20.88	21.29	19.43	20.49	19.85	20.88	21.29
	12H	19.61	20.63	20.04	21.02	21.45	19.61	20.63	20.04	21.02	21.45
4H	2H	17.21	18.43	17.62	18.78	19.16	17.21	18.43	17.62	18.78	19.16
	3H	18.46	19.46	18.87	19.86	20.26	18.46	19.46	18.87	19.86	20.26
	4H	19.28	20.17	19.71	20.59	21.03	19.28	20.17	19.71	20.59	21.03
	6H	20.09	20.86	20.55	21.31	21.77	20.09	20.86	20.55	21.31	21.77
	8H	20.40	21.13	20.87	21.58	22.05	20.40	21.13	20.87	21.58	22.05
	12H	20.66	21.32	21.15	21.80	22.27	20.66	21.32	21.15	21.80	22.27
8H	4H	19.59	20.32	20.06	20.77	21.24	19.59	20.32	20.06	20.77	21.24
	6H	20.56	21.17	21.06	21.66	22.14	20.56	21.17	21.06	21.66	22.14
	8H	20.98	21.53	21.50	22.05	22.53	20.98	21.53	21.50	22.05	22.53
	12H	21.35	21.85	21.86	22.34	22.90	21.35	21.85	21.86	22.34	22.90
12H	4H	19.64	20.29	20.12	20.77	21.24	19.64	20.29	20.12	20.77	21.24
	6H	20.64	21.19	21.16	21.71	22.20	20.64	21.19	21.16	21.71	22.20
	8H	21.14	21.63	21.65	22.12	22.69	21.14	21.63	21.65	22.12	22.69