

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: P980351

Luminaire Tested: PRLX-243-930-48L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-930-48L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

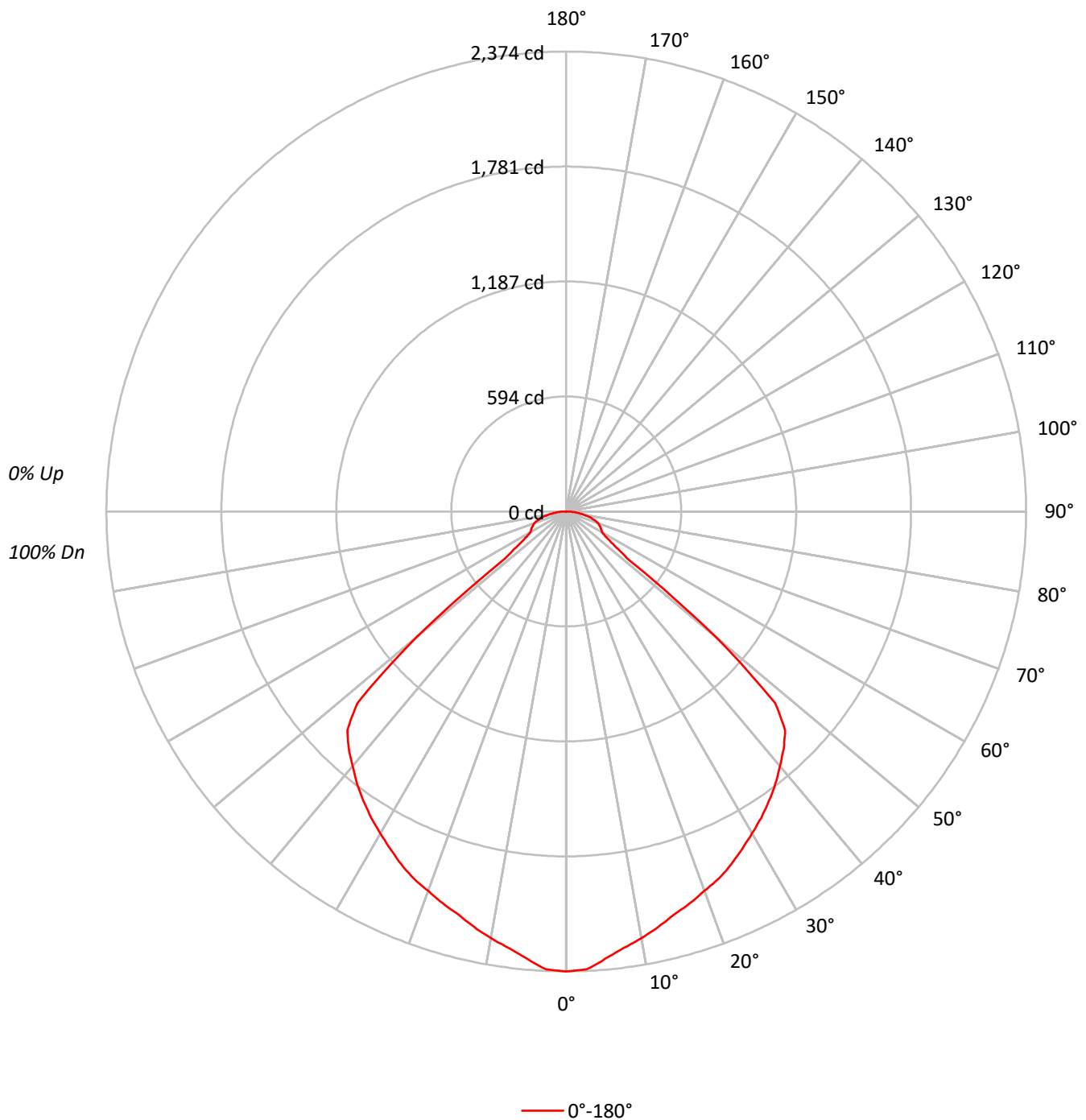
Lumens per Lamp: N/A
Luminaire Lumens: 4792.3 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.38
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	111	107	104	100	108	105	102	99	101	98	96		97	95	93		88
2	103	96	91	86	100	94	89	85	91	87	83		88	84	81		77
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		68
4	88	78	71	65	86	77	70	65	75	68	64		72	67	63		60
5	82	71	63	57	80	70	63	57	68	61	56		66	60	56		53
6	76	65	57	51	75	64	56	51	62	55	50		60	55	50		48
7	71	59	51	46	70	58	51	46	57	50	45		56	49	45		43
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		39
9	62	50	43	37	61	49	42	37	48	42	37		47	41	37		35
10	59	46	39	34	57	46	39	34	45	38	34		44	38	34		32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11715
5°	11481
10°	11207
15°	10995
20°	10945
25°	10953
30°	10932
35°	10987
40°	11053
45°	11149
50°	7745
55°	2519
60°	2102
65°	2280
70°	2497
75°	2594
80°	2480
85°	2513

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 11149 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	4.6
10°-20°	609.5	12.7
20°-30°	927.1	19.3
30°-40°	1142.4	23.8
40°-50°	1172.0	24.5
50°-60°	340.5	7.1
60°-70°	192.7	4.0
70°-80°	140.9	2.9
80°-90°	48.5	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°	1755.3	36.6
0°-40°	2897.7	60.5
0°-60°	4410.2	92.0
0°-90°	4792.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4792.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2374	
5°	2318	219
15°	2153	610
25°	2012	927
35°	1824	1142
45°	1598	1172
55°	293	341
65°	195	193
75°	136	141
85°	44	49
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2374.5
2.5°	2367.1
5°	2318.2
7.5°	2272.4
10°	2236.9
12.5°	2196.9
15°	2152.6
17.5°	2121.5
20°	2084.5
22.5°	2053.4
25°	2012.0
27.5°	1964.7
30°	1918.8
32.5°	1874.4
35°	1824.1
37.5°	1773.8
40°	1716.1
42.5°	1661.4
45°	1597.8
47.5°	1463.1
50°	1009.0
52.5°	396.5
55°	292.9
57.5°	241.1
60°	213.0
62.5°	204.2
65°	195.3
67.5°	184.9
70°	173.1
72.5°	156.8
75°	136.1
77.5°	111.0
80°	87.3
82.5°	65.1
85°	44.4
87.5°	25.2
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	11.07	12.48	11.44	12.80	13.11	11.07	12.48	11.44	12.80	13.11
	3H	13.49	14.75	13.87	15.08	15.44	13.49	14.75	13.87	15.08	15.44
	4H	14.55	15.72	14.95	16.07	16.45	14.55	15.72	14.95	16.07	16.45
	6H	15.34	16.42	15.75	16.78	17.18	15.34	16.42	15.75	16.78	17.18
	8H	15.62	16.64	16.04	17.03	17.43	15.62	16.64	16.04	17.03	17.43
	12H	15.83	16.81	16.26	17.19	17.62	15.83	16.81	16.26	17.19	17.62
4H	2H	11.82	12.99	12.22	13.34	13.72	11.82	12.99	12.22	13.34	13.72
	3H	14.52	15.47	14.93	15.88	16.28	14.52	15.47	14.93	15.88	16.28
	4H	15.71	16.57	16.14	16.99	17.43	15.71	16.57	16.14	16.99	17.43
	6H	16.62	17.37	17.08	17.81	18.28	16.62	17.37	17.08	17.81	18.28
	8H	16.95	17.65	17.42	18.09	18.56	16.95	17.65	17.42	18.09	18.56
	12H	17.22	17.84	17.70	18.32	18.79	17.22	17.84	17.70	18.32	18.79
8H	4H	16.13	16.83	16.60	17.27	17.74	16.13	16.83	16.60	17.27	17.74
	6H	17.19	17.76	17.69	18.26	18.74	17.19	17.76	17.69	18.26	18.74
	8H	17.61	18.13	18.13	18.64	19.13	17.61	18.13	18.13	18.64	19.13
	12H	17.98	18.45	18.49	18.94	19.51	17.98	18.45	18.49	18.94	19.51
12H	4H	16.18	16.80	16.66	17.28	17.75	16.18	16.80	16.66	17.28	17.75
	6H	17.27	17.79	17.79	18.31	18.80	17.27	17.79	17.79	18.31	18.80
	8H	17.76	18.23	18.28	18.72	19.29	17.76	18.23	18.28	18.72	19.29

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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