

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P980341

Luminaire Tested: PRLX-243-930-LL5-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P980341
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-LL5-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: 4300.8 lumens
Efficiency: N/A
Efficacy: 145.8 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

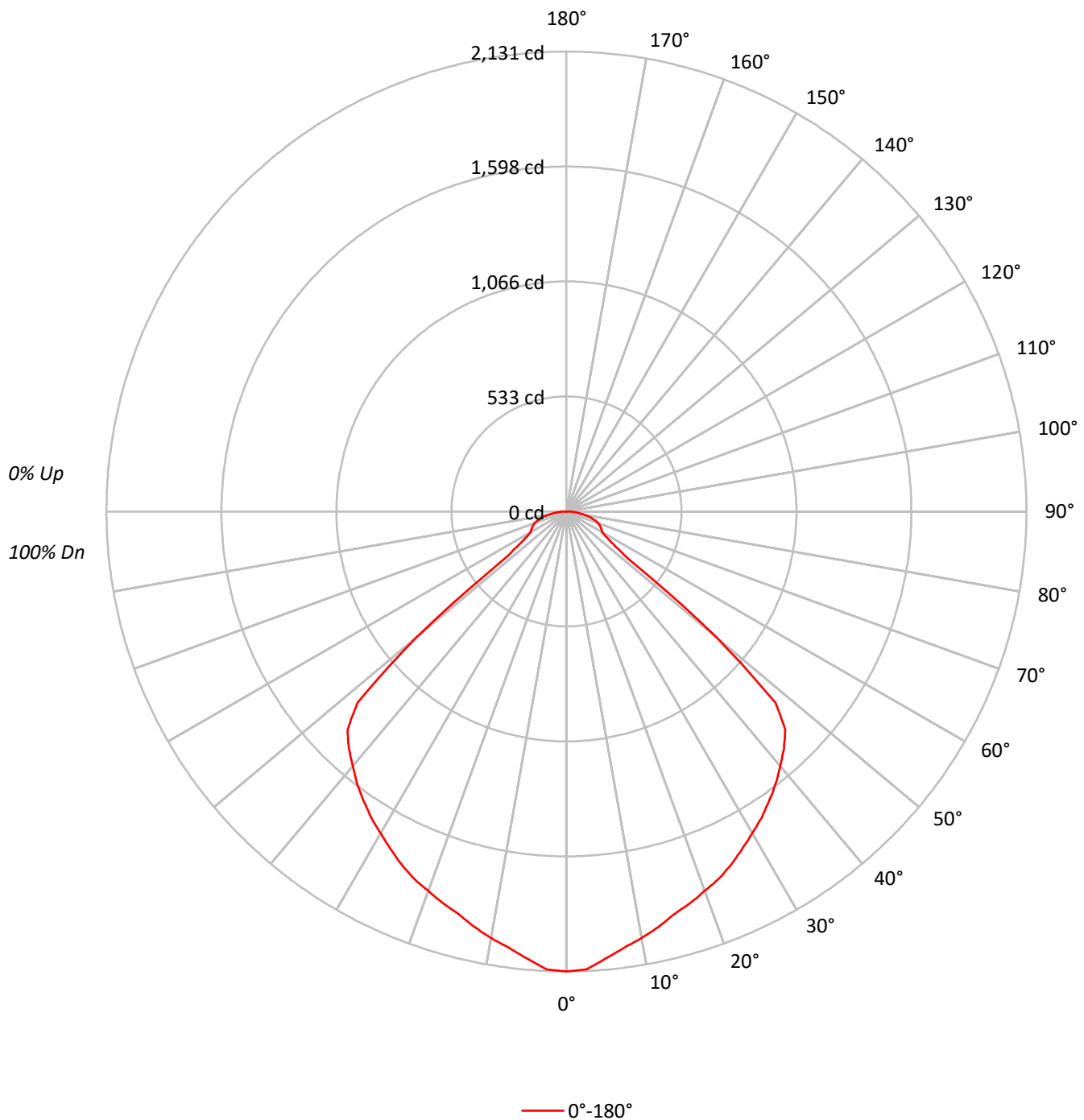
Input Watts (W): 29.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	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°	10514
5°	10304
10°	10057
15°	9867
20°	9822
25°	9830
30°	9810
35°	9860
40°	9919
45°	10005
50°	6950
55°	2261
60°	1887
65°	2047
70°	2240
75°	2328
80°	2225
85°	2253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 10005 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	4.6
10°-20°	547.0	12.7
20°-30°	832.0	19.3
30°-40°	1025.2	23.8
40°-50°	1051.8	24.5
50°-60°	305.6	7.1
60°-70°	172.9	4.0
70°-80°	126.4	2.9
80°-90°	43.5	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°	1575.3	36.6
0°-40°	2600.5	60.5
0°-60°	3957.9	92.0
0°-90°	4300.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4300.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2131	
5°	2080	196
15°	1932	547
25°	1806	832
35°	1637	1025
45°	1434	1052
55°	263	306
65°	175	173
75°	122	126
85°	40	44
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2131.0
2.5°	2124.3
5°	2080.5
7.5°	2039.4
10°	2007.5
12.5°	1971.7
15°	1931.8
17.5°	1903.9
20°	1870.7
22.5°	1842.9
25°	1805.7
27.5°	1763.2
30°	1722.0
32.5°	1682.2
35°	1637.1
37.5°	1591.9
40°	1540.1
42.5°	1491.0
45°	1433.9
47.5°	1313.1
50°	905.5
52.5°	355.8
55°	262.9
57.5°	216.4
60°	191.2
62.5°	183.2
65°	175.3
67.5°	166.0
70°	155.3
72.5°	140.7
75°	122.1
77.5°	99.6
80°	78.3
82.5°	58.4
85°	39.8
87.5°	22.6
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	10.70	12.11	11.06	12.42	12.74	10.70	12.11	11.06	12.42	12.74
	3H	13.12	14.37	13.50	14.70	15.07	13.12	14.37	13.50	14.70	15.07
	4H	14.18	15.35	14.58	15.70	16.08	14.18	15.35	14.58	15.70	16.08
	6H	14.96	16.04	15.37	16.41	16.80	14.96	16.04	15.37	16.41	16.80
	8H	15.24	16.26	15.67	16.65	17.06	15.24	16.26	15.67	16.65	17.06
	12H	15.45	16.43	15.88	16.81	17.24	15.45	16.43	15.88	16.81	17.24
4H	2H	11.45	12.62	11.85	12.97	13.35	11.45	12.62	11.85	12.97	13.35
	3H	14.14	15.10	14.55	15.50	15.90	14.14	15.10	14.55	15.50	15.90
	4H	15.33	16.19	15.77	16.61	17.05	15.33	16.19	15.77	16.61	17.05
	6H	16.25	16.99	16.71	17.44	17.90	16.25	16.99	16.71	17.44	17.90
	8H	16.57	17.27	17.04	17.72	18.19	16.57	17.27	17.04	17.72	18.19
	12H	16.84	17.46	17.32	17.94	18.41	16.84	17.46	17.32	17.94	18.41
8H	4H	15.75	16.45	16.22	16.90	17.37	15.75	16.45	16.22	16.90	17.37
	6H	16.81	17.39	17.31	17.88	18.36	16.81	17.39	17.31	17.88	18.36
	8H	17.23	17.75	17.75	18.27	18.76	17.23	17.75	17.75	18.27	18.76
	12H	17.60	18.07	18.11	18.56	19.13	17.60	18.07	18.11	18.56	19.13
12H	4H	15.80	16.42	16.29	16.90	17.38	15.80	16.42	16.29	16.90	17.38
	6H	16.89	17.42	17.41	17.93	18.42	16.89	17.42	17.41	17.93	18.42
	8H	17.39	17.85	17.90	18.35	18.91	17.39	17.85	17.90	18.35	18.91