

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: P979703

Luminaire Tested: PRLX-241-930-LL5-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-930-LL5-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3535.5 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

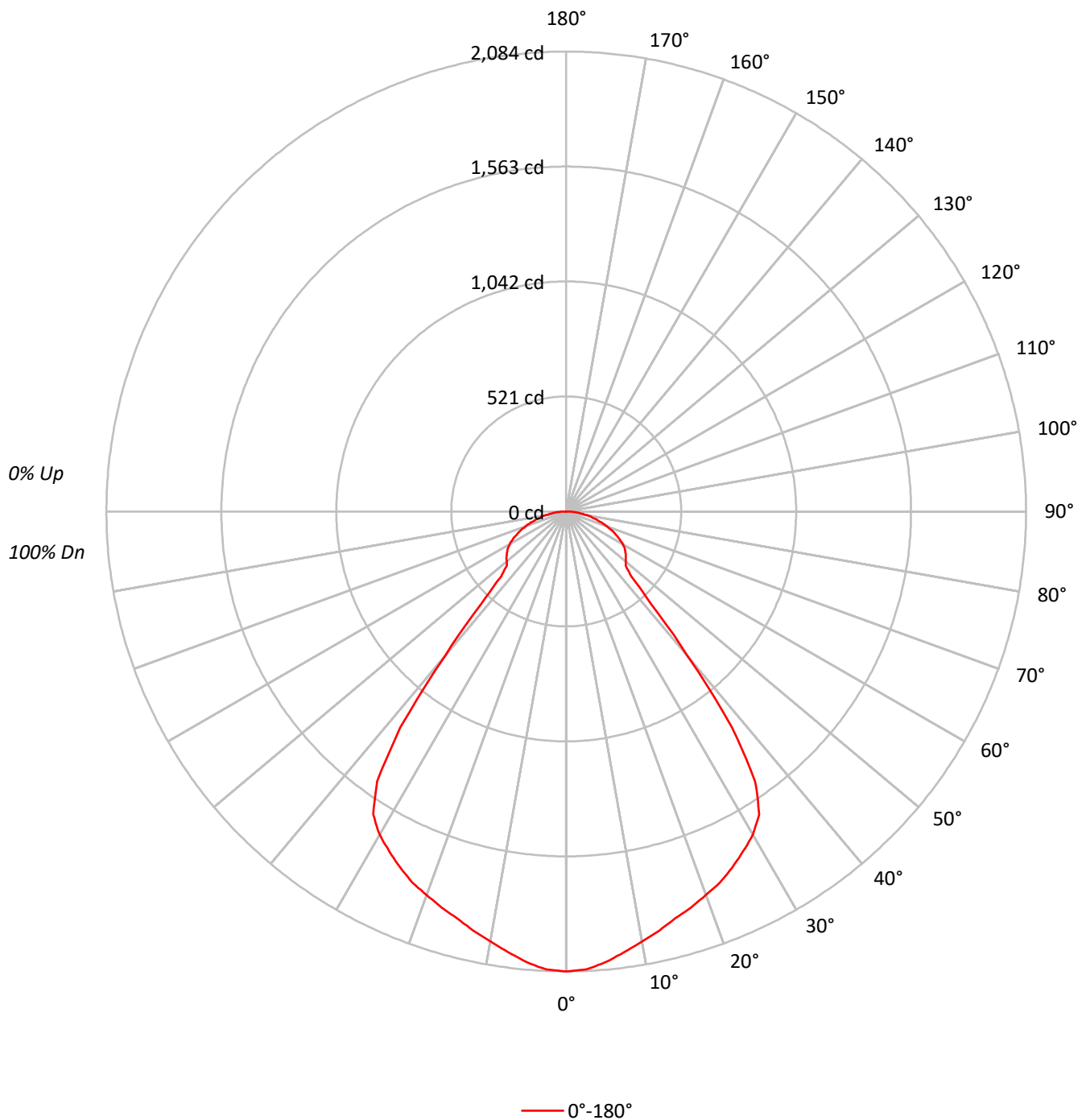
Input Watts (W): 29.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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		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	103	96	90	85	100	94	89	84	90	86	82		87	84	81		84
3	95	86	80	74	93	85	79	73	82	77	72		79	75	71		77
4	89	78	71	65	87	77	70	65	75	69	64		73	67	63		71
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65
6	77	66	58	52	76	65	58	52	63	57	52		62	56	51		60
7	72	61	53	48	71	60	53	47	58	52	47		57	51	47		56
8	68	56	49	43	67	55	48	43	54	48	43		53	47	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	39		49
10	60	49	42	37	59	48	41	37	47	41	37		46	41	36		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16070
5°	15864
10°	15496
15°	15237
20°	15173
25°	15145
30°	15057
35°	14044
40°	8645
45°	4545
50°	4219
55°	4407
60°	4565
65°	4529
70°	4400
75°	4191
80°	3951
85°	3644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 62.5°
Luminance: 4566 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	5.5
10°-20°	540.3	15.3
20°-30°	820.3	23.2
30°-40°	874.1	24.7
40°-50°	373.4	10.6
50°-60°	292.8	8.3
60°-70°	244.8	6.9
70°-80°	149.2	4.2
80°-90°	47.2	1.3
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°	1554.0	44.0
0°-40°	2428.0	68.7
0°-60°	3094.3	87.5
0°-90°	3535.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3535.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2084	
5°	2050	193
15°	1909	540
25°	1780	820
35°	1492	874
45°	417	373
55°	328	293
65°	248	245
75°	141	149
85°	41	47
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2084.5
2.5°	2077.9
5°	2050.0
7.5°	2014.1
10°	1979.6
12.5°	1945.1
15°	1909.2
17.5°	1881.4
20°	1849.5
22.5°	1820.3
25°	1780.5
27.5°	1736.6
30°	1691.5
32.5°	1627.8
35°	1492.3
37.5°	1233.4
40°	859.0
42.5°	566.9
45°	416.9
47.5°	365.1
50°	351.8
52.5°	341.2
55°	327.9
57.5°	314.7
60°	296.1
62.5°	273.5
65°	248.3
67.5°	221.7
70°	195.2
72.5°	167.3
75°	140.7
77.5°	115.5
80°	89.0
82.5°	65.1
85°	41.2
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	15.65	16.99	16.02	17.31	17.62	15.65	16.99	16.02	17.31	17.62
	3H	17.66	18.86	18.04	19.19	19.55	17.66	18.86	18.04	19.19	19.55
	4H	18.41	19.54	18.82	19.89	20.27	18.41	19.54	18.82	19.89	20.27
	6H	19.00	20.04	19.41	20.41	20.80	19.00	20.04	19.41	20.41	20.80
	8H	19.20	20.19	19.63	20.58	20.98	19.20	20.19	19.63	20.58	20.98
	12H	19.34	20.28	19.77	20.66	21.09	19.34	20.28	19.77	20.66	21.09
4H	2H	16.32	17.45	16.73	17.80	18.18	16.32	17.45	16.73	17.80	18.18
	3H	18.52	19.46	18.94	19.86	20.27	18.52	19.46	18.94	19.86	20.27
	4H	19.41	20.25	19.84	20.67	21.11	19.41	20.25	19.84	20.67	21.11
	6H	20.12	20.86	20.58	21.30	21.77	20.12	20.86	20.58	21.30	21.77
	8H	20.37	21.06	20.84	21.50	21.97	20.37	21.06	20.84	21.50	21.97
	12H	20.56	21.17	21.04	21.65	22.12	20.56	21.17	21.04	21.65	22.12
8H	4H	19.73	20.41	20.19	20.86	21.33	19.73	20.41	20.19	20.86	21.33
	6H	20.58	21.14	21.08	21.64	22.12	20.58	21.14	21.08	21.64	22.12
	8H	20.92	21.42	21.44	21.94	22.43	20.92	21.42	21.44	21.94	22.43
	12H	21.20	21.64	21.72	22.14	22.71	21.20	21.64	21.72	22.14	22.71
12H	4H	19.75	20.36	20.24	20.84	21.32	19.75	20.36	20.24	20.84	21.32
	6H	20.65	21.15	21.17	21.66	22.15	20.65	21.15	21.17	21.66	22.15
	8H	21.05	21.49	21.57	21.98	22.55	21.05	21.49	21.57	21.98	22.55