

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: IRiS

Report Number: P1335335

Luminaire Tested: P3A02R359030DE010 E3CA451MMS

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R359030DE010 E3CA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 90CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

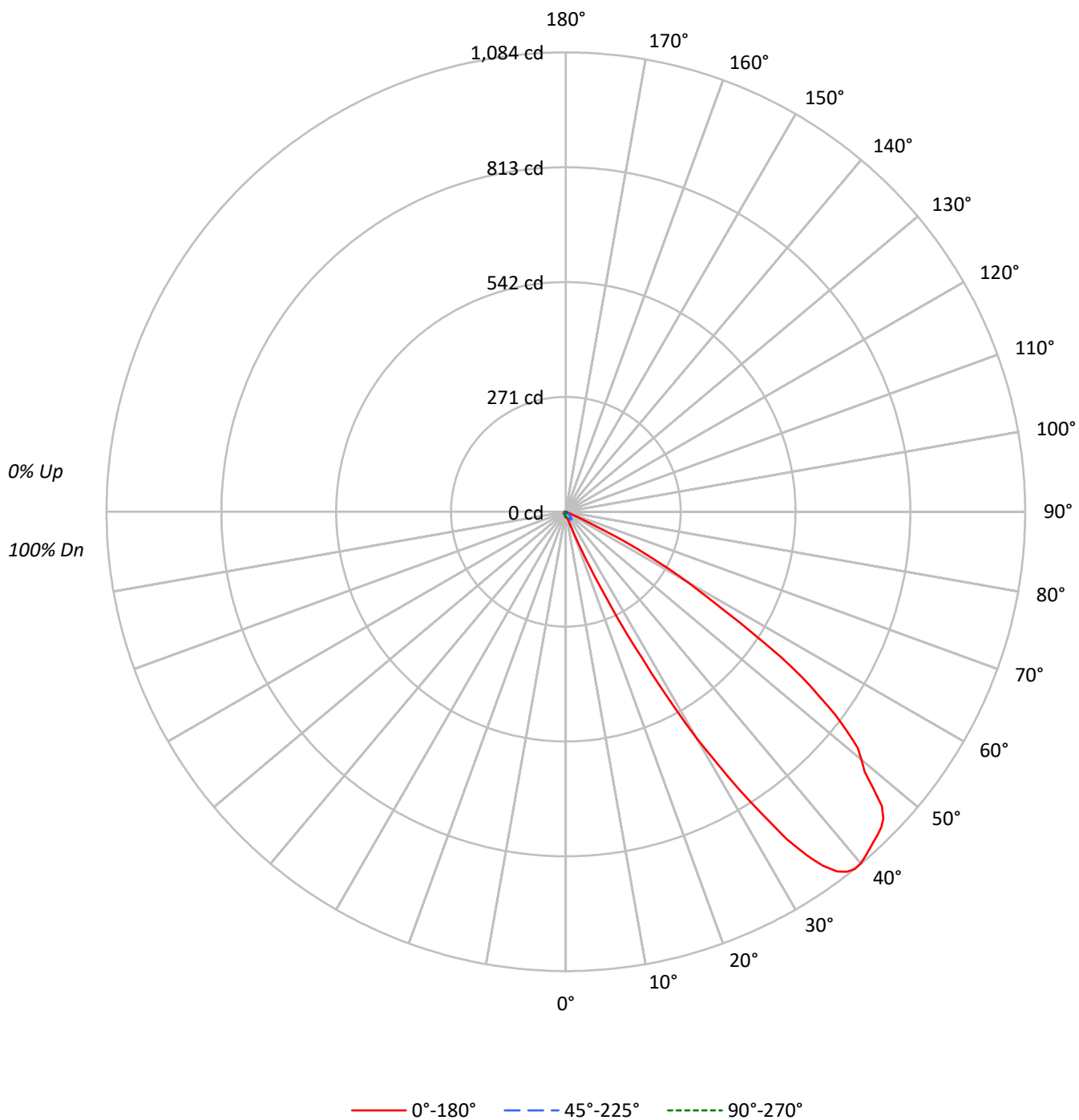
Lumens per Lamp: N/A
Luminaire Lumens: 270.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
Input Voltage (V): NR
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			0
RW	70	50	30	10	70	50	30	10	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		102	102	102	100
1	110	106	102	99	107	104	100	97	100	97	94		96	93	91		92	90	89	87
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	83	71	62	55	80	69	61	55	67	60	54		64	58	53		62	57	52	50
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55	49	44	42
6	68	54	45	38	66	53	44	38	51	43	38		50	43	37		48	42	37	35
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	57	42	33	27	55	41	33	27	40	32	27		39	32	26		38	31	26	24
9	52	38	29	23	50	37	29	23	36	28	23		35	28	22		34	27	22	20
10	48	34	25	19	46	33	25	19	32	25	19		31	24	19		30	24	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2719	2719	2719	2719	2719
5°	2950	2906	2685	2421	2355
10°	3095	2828	2382	2071	2071
15°	4427	2770	1930	1771	1816
20°	11084	2964	1540	1540	1703
25°	51487	3774	1186	1403	1597
30°	156505	5115	937	1291	1595
35°	264507	5943	776	1231	1553
40°	310038	5868	630	1260	1660
45°	326515	4155	527	1364	1799
50°	310813	2490	512	1399	1979
55°	260426	1032	573	1567	2332
60°	145822	219	658	1798	2544
65°	25165	104	623	2024	2906
70°	449	128	769	2180	3270
75°	424	169	1017	2457	3728
80°	253	253	1263	2778	4293
85°	0	503	2516	3019	4780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 328830 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.4
10°-20°	3.2	1.2
20°-30°	16.6	6.1
30°-40°	71.5	26.5
40°-50°	102.1	37.8
50°-60°	63.2	23.4
60°-70°	9.6	3.6
70°-80°	1.8	0.7
80°-90°	0.9	0.3
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°	20.9	7.7
0°-40°	92.4	34.2
0°-60°	257.7	95.4
0°-90°	270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	270.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	13	13	12	11	11	1
15°	20	12	8	8	8	7
25°	213	16	5	6	7	127
35°	988	22	3	5	6	593
45°	1053	13	2	4	6	795
55°	681	3	2	4	6	580
65°	48	0	1	4	6	99
75°	0	0	1	3	4	1
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
2.5°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.4	12.2
5°	13.4	13.4	13.2	13.2	13.2	13.2	13.2	13.2	12.7	12.2	11.5
7.5°	13.6	13.6	13.4	13.4	13.4	13.4	13.2	12.9	12.4	11.5	10.7
10°	13.9	13.9	13.9	13.9	13.6	13.4	13.2	12.7	11.9	10.7	10.0
12.5°	15.6	15.6	15.4	14.9	14.4	13.9	13.4	12.4	11.0	9.7	9.0
15°	19.5	19.3	18.8	18.0	17.1	15.8	14.9	12.2	10.0	8.5	8.0
17.5°	27.3	26.8	26.1	23.6	21.4	19.3	17.3	12.2	9.0	7.6	7.1
20°	47.5	47.8	42.7	36.8	31.9	26.6	21.7	12.7	8.0	6.6	6.3
22.5°	99.2	95.3	83.1	69.0	52.6	40.7	30.7	13.9	7.1	5.6	5.6
25°	212.8	197.9	168.4	127.2	89.7	63.6	44.6	15.6	6.3	4.9	5.1
27.5°	388.5	375.1	315.9	237.9	157.9	96.0	60.4	17.8	5.6	4.1	4.6
30°	618.1	581.1	503.8	390.0	264.0	147.0	81.2	20.2	4.6	3.7	4.4
31°	689.8	672.7	578.6	451.1	309.3	174.5	89.9	21.0	4.4	3.7	4.1
32°	774.8	744.6	660.3	518.2	355.4	199.1	100.4	21.7	4.1	3.2	4.1
33°	850.9	821.6	719.0	577.2	401.9	227.2	111.6	21.9	3.7	3.2	3.9
34°	930.8	890.8	789.2	638.8	449.7	257.4	121.9	22.2	3.4	2.9	3.9
35°	988.1	948.1	849.7	687.6	490.9	284.2	133.6	22.2	3.2	2.9	3.7
36°	1032.5	997.4	901.8	737.8	531.8	308.3	142.8	22.2	2.7	2.7	3.7
37°	1062.9	1029.5	936.9	780.9	563.0	329.8	151.1	22.2	2.4	2.7	3.7
38°	1077.8	1050.0	970.8	812.4	593.2	346.6	157.7	21.7	2.2	2.4	3.4
39°	1084.1	1061.5	991.5	838.9	615.9	361.2	162.6	21.2	1.9	2.4	3.4
40°	1083.1	1063.4	1003.2	857.2	634.2	371.2	165.3	20.5	1.7	2.2	3.4
41°	1077.5	1060.5	1009.3	872.8	645.2	378.0	166.0	19.7	1.5	2.2	3.2
42°	1071.2	1055.6	1011.2	881.1	652.2	380.2	164.0	18.8	1.5	1.9	3.2
43°	1064.6	1050.2	1011.2	883.8	653.9	378.8	160.9	17.1	1.2	1.9	3.2
44°	1059.3	1045.6	1008.1	883.0	650.3	373.2	155.0	15.1	1.0	1.9	3.2
45°	1052.9	1039.5	1003.9	878.4	643.2	363.6	147.7	13.4	0.7	1.7	3.2
46°	1041.7	1031.2	996.6	868.9	632.0	350.5	138.4	12.2	0.5	1.7	2.9
47°	1020.0	1011.0	982.5	854.8	617.1	334.9	128.9	11.0	0.5	1.7	2.9
48°	976.4	976.1	954.2	828.4	593.5	315.4	118.9	9.7	0.5	1.7	2.9
49°	934.2	929.8	902.5	782.1	559.6	292.0	108.5	8.8	0.2	1.7	2.9
50°	911.1	901.6	856.7	727.5	516.2	259.6	97.2	7.3	0.2	1.5	2.9
51°	886.9	873.3	820.4	678.3	464.6	228.4	85.1	5.8	0.2	1.5	2.7
52°	843.3	830.4	771.2	631.3	414.3	196.4	73.4	4.9	0.2	1.5	2.9
53°	796.3	777.8	713.4	579.6	370.2	168.2	61.4	4.1	0.2	1.5	2.7
54°	737.0	728.8	654.9	516.2	318.6	140.9	50.5	3.4	0.2	1.5	2.7
55°	681.2	669.0	592.3	451.4	271.8	115.5	42.2	2.7	0.2	1.5	2.7
56°	610.1	591.8	519.9	391.9	224.2	93.1	35.6	2.2	0.2	1.5	2.7
57°	525.2	505.7	449.0	325.9	176.0	70.9	29.7	1.7	0.2	1.5	2.7
58°	444.3	427.5	366.6	251.5	132.6	49.2	24.6	1.2	0.2	1.2	2.7
59°	383.9	365.4	304.9	193.5	92.1	36.3	18.5	1.0	0.2	1.5	2.7
60°	332.5	308.6	245.4	149.9	65.8	26.1	13.6	0.5	0.5	1.5	2.7
62.5°	191.6	169.2	117.2	60.9	27.1	13.4	6.6	0.2	0.5	1.5	2.7
65°	48.5	43.1	28.0	13.2	7.6	4.6	2.4	0.2	0.5	1.2	2.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	1.7	1.7	1.7	1.5	1.2	1.0	0.5	0.2	0.5	1.2	2.4
70°	0.7	0.7	0.7	0.5	0.5	0.2	0.2	0.2	0.5	1.2	2.2
72.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	1.2	1.9
75°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	1.2	1.9
77.5°	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.7	1.0	1.7
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	1.0	1.5
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	1.0	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.7	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	1.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	12.4	12.4	12.4
2.5°	11.7	11.7	11.7
5°	11.0	11.0	10.7
7.5°	10.2	10.0	10.0
10°	9.3	9.3	9.3
12.5°	8.5	8.5	8.5
15°	7.8	8.0	8.0
17.5°	7.1	7.6	7.6
20°	6.6	7.1	7.3
22.5°	6.1	6.6	6.8
25°	5.8	6.3	6.6
27.5°	5.4	6.1	6.6
30°	5.1	5.8	6.3
31°	5.1	5.8	6.1
32°	4.9	5.8	6.1
33°	4.9	5.8	6.1
34°	4.9	5.6	6.1
35°	4.6	5.6	5.8
36°	4.6	5.6	5.8
37°	4.6	5.6	6.1
38°	4.6	5.6	5.8
39°	4.4	5.6	5.8
40°	4.4	5.6	5.8
41°	4.4	5.6	5.8
42°	4.4	5.6	5.8
43°	4.4	5.6	5.8
44°	4.4	5.4	5.8
45°	4.4	5.4	5.8
46°	4.4	5.6	5.8
47°	4.4	5.6	6.1
48°	4.4	5.4	5.8
49°	4.1	5.4	5.8
50°	4.1	5.4	5.8
51°	4.1	5.6	6.1
52°	4.1	5.6	6.1
53°	4.1	5.6	6.1
54°	4.1	5.6	5.8
55°	4.1	5.6	6.1
56°	4.1	5.6	5.8
57°	4.1	5.6	5.8
58°	4.1	5.4	5.8
59°	4.1	5.4	5.8
60°	4.1	5.4	5.8
62.5°	3.9	5.4	5.8
65°	3.9	5.1	5.6



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	3.7	5.1	5.4
70°	3.4	4.9	5.1
72.5°	3.2	4.6	4.9
75°	2.9	4.1	4.4
77.5°	2.4	3.7	4.1
80°	2.2	3.2	3.4
82.5°	1.7	2.7	2.9
85°	1.2	1.9	1.9
87.5°	0.5	1.0	1.0
90°	0.0	0.0	0.0

(END OF REPORT)