

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: P1341883

Luminaire Tested: P3A09R359030D2WDE010 E3CA451MMS

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1341883
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: P3A09R359030D2WDE010 E3CA451MMS
Description: 3in Adjustable Dim to Warm LED luminaire with, R35 optic, 3000K CCT AND, 90CRI ,
E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

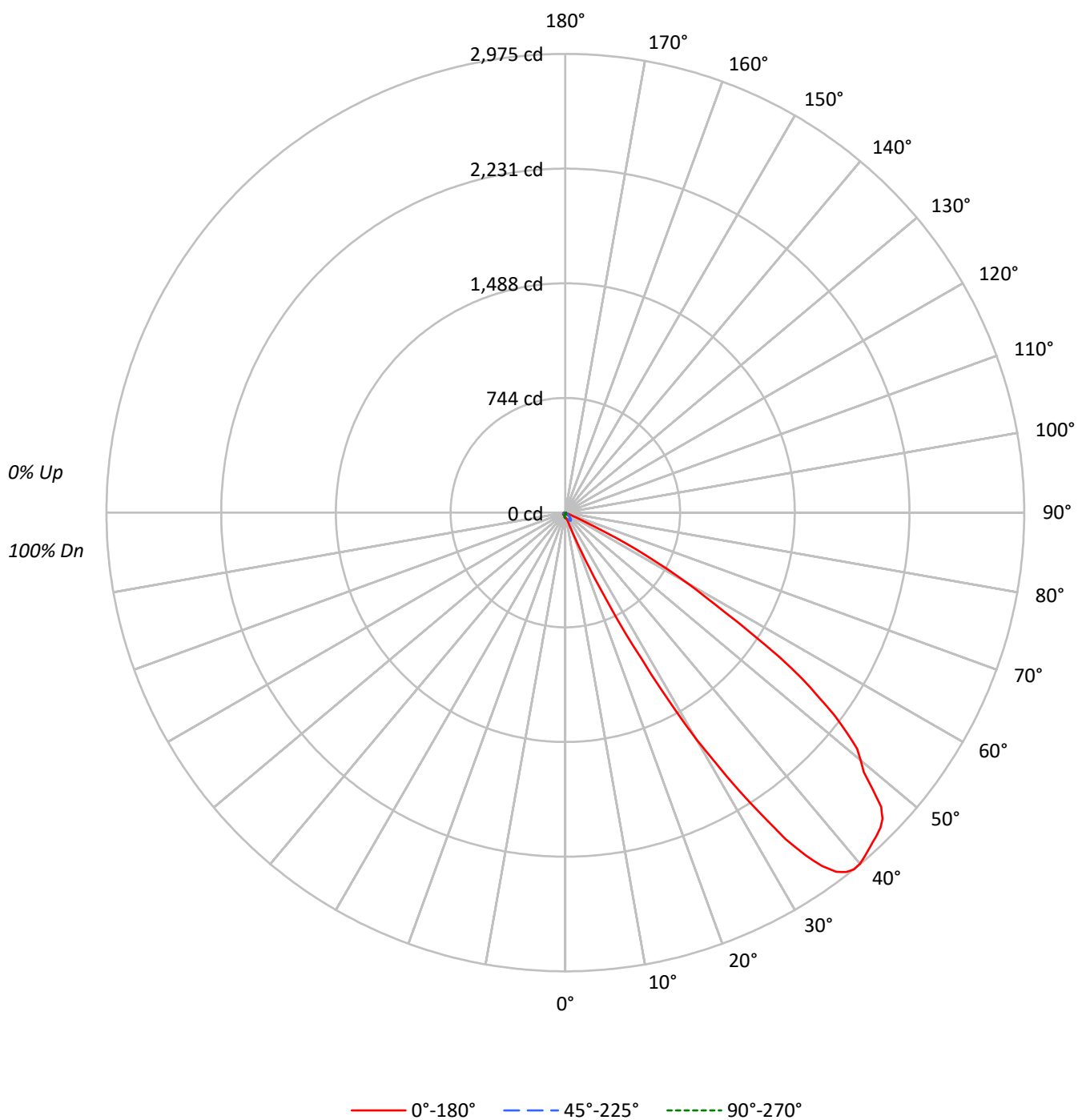
Lumens per Lamp: N/A
Luminaire Lumens: 741.0 lumens
Efficiency: N/A
Efficacy: 50.4 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.7
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	50	30	10
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°	7477	7477	7477	7477	7477
5°	8100	7946	7352	6626	6471
10°	8483	7749	6546	5656	5656
15°	12145	7582	5312	4858	5017
20°	30429	8121	4224	4224	4690
25°	141298	10355	3242	3895	4379
30°	429534	14053	2532	3545	4406
35°	725928	16302	2142	3400	4310
40°	850909	16087	1718	3435	4609
45°	896124	11412	1458	3721	4993
50°	852987	6857	1365	3889	5492
55°	714756	2829	1529	4358	6384
60°	400143	570	1754	5000	7061
65°	69061	363	1712	5552	7990
70°	1282	449	2116	6027	8976
75°	1101	593	2796	6778	10167
80°	884	884	3410	7577	11870
85°	0	1761	6793	8303	13586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 902460 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.4
10°-20°	8.7	1.2
20°-30°	45.5	6.1
30°-40°	196.4	26.5
40°-50°	280.1	37.8
50°-60°	173.5	23.4
60°-70°	26.4	3.6
70°-80°	4.9	0.7
80°-90°	2.5	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°	57.3	7.7
0°-40°	253.6	34.2
0°-60°	707.2	95.4
0°-90°	741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	741.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	37	36	33	30	29	4
15°	54	33	23	21	22	19
25°	584	43	13	16	18	349
35°	2712	61	8	13	16	1628
45°	2890	37	5	12	16	2183
55°	1870	7	4	11	17	1592
65°	133	1	3	11	15	272
75°	1	1	3	8	12	1
85°	0	1	3	3	5	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°	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
2.5°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	34.1	33.4
5°	36.8	36.8	36.1	36.1	36.1	36.1	36.1	36.1	34.8	33.4	31.4
7.5°	37.5	37.5	36.8	36.8	36.8	36.8	36.1	35.5	34.1	31.4	29.4
10°	38.1	38.1	38.1	38.1	37.5	36.8	36.1	34.8	32.8	29.4	27.4
12.5°	42.8	42.8	42.1	40.8	39.5	38.1	36.8	34.1	30.1	26.8	24.7
15°	53.5	52.8	51.5	49.5	46.8	43.5	40.8	33.4	27.4	23.4	22.1
17.5°	74.9	73.6	71.6	64.9	58.9	52.8	47.5	33.4	24.7	20.7	19.4
20°	130.4	131.1	117.1	101.0	87.6	72.9	59.5	34.8	22.1	18.1	17.4
22.5°	272.2	261.5	228.1	189.3	144.5	111.7	84.3	38.1	19.4	15.4	15.4
25°	584.0	543.2	462.2	349.2	246.2	174.6	122.4	42.8	17.4	13.4	14.0
27.5°	1066.2	1029.5	866.9	652.9	433.5	263.6	165.9	48.8	15.4	11.4	12.7
30°	1696.4	1594.7	1382.6	1070.3	724.4	403.4	222.7	55.5	12.7	10.0	12.0
31°	1893.0	1846.2	1588.0	1238.2	848.8	478.9	246.8	57.5	12.0	10.0	11.4
32°	2126.5	2043.5	1812.1	1422.1	975.3	546.5	275.6	59.5	11.4	8.7	11.4
33°	2335.2	2254.9	1973.3	1584.0	1103.0	623.4	306.4	60.2	10.0	8.7	10.7
34°	2554.6	2444.9	2165.9	1753.2	1234.1	706.4	334.5	60.9	9.4	8.0	10.7
35°	2711.8	2602.1	2331.8	1887.0	1347.2	780.0	366.6	60.9	8.7	8.0	10.0
36°	2833.5	2737.2	2475.0	2024.8	1459.6	846.2	392.0	60.9	7.4	7.4	10.0
37°	2917.1	2825.5	2571.3	2143.2	1545.2	905.0	414.7	60.9	6.7	7.4	10.0
38°	2957.9	2881.7	2664.3	2229.5	1628.1	951.2	432.8	59.5	6.0	6.7	9.4
39°	2975.3	2913.1	2721.1	2302.4	1690.3	991.3	446.2	58.2	5.4	6.7	9.4
40°	2972.6	2918.5	2753.2	2352.6	1740.5	1018.8	453.5	56.2	4.7	6.0	9.4
41°	2957.3	2910.4	2770.0	2395.4	1770.6	1037.5	455.5	54.2	4.0	6.0	8.7
42°	2939.9	2897.1	2775.3	2418.1	1790.0	1043.5	450.2	51.5	4.0	5.4	8.7
43°	2921.8	2882.3	2775.3	2425.5	1794.7	1039.5	441.5	46.8	3.3	5.4	8.7
44°	2907.1	2869.6	2766.6	2423.5	1784.7	1024.1	425.4	41.5	2.7	5.4	8.7
45°	2889.7	2852.9	2755.2	2410.8	1765.3	998.0	405.4	36.8	2.0	4.7	8.7
46°	2858.9	2830.2	2735.2	2384.7	1734.5	961.9	379.9	33.4	1.3	4.7	8.0
47°	2799.4	2774.6	2696.4	2345.9	1693.7	919.1	353.9	30.1	1.3	4.7	8.0
48°	2679.7	2679.0	2618.8	2273.6	1628.8	865.6	326.4	26.8	1.3	4.7	8.0
49°	2563.9	2551.9	2477.0	2146.5	1535.8	801.4	297.7	24.1	0.7	4.7	8.0
50°	2500.4	2474.3	2351.2	1996.7	1416.8	712.4	266.9	20.1	0.7	4.0	8.0
51°	2434.2	2396.7	2251.6	1861.6	1274.9	626.8	233.4	16.1	0.7	4.0	7.4
52°	2314.4	2279.0	2116.4	1732.5	1137.1	539.1	201.3	13.4	0.7	4.0	8.0
53°	2185.3	2134.5	1957.9	1590.7	1016.1	461.5	168.6	11.4	0.7	4.0	7.4
54°	2022.8	2000.0	1797.4	1416.8	874.3	386.6	138.5	9.4	0.7	4.0	7.4
55°	1869.6	1836.2	1625.5	1238.8	745.8	317.1	115.7	7.4	0.7	4.0	7.4
56°	1674.3	1624.1	1426.8	1075.6	615.4	255.5	97.7	6.0	0.7	4.0	7.4
57°	1441.5	1388.0	1232.1	894.3	483.0	194.7	81.6	4.7	0.7	4.0	7.4
58°	1219.4	1173.3	1006.0	690.3	363.9	135.1	67.6	3.3	0.7	3.3	7.4
59°	1053.5	1002.7	836.8	531.1	252.8	99.7	50.8	2.7	0.7	4.0	7.4
60°	912.4	846.8	673.6	411.4	180.6	71.6	37.5	1.3	1.3	4.0	7.4
62.5°	525.8	464.2	321.7	167.2	74.2	36.8	18.1	0.7	1.3	4.0	7.4
65°	133.1	118.4	76.9	36.1	20.7	12.7	6.7	0.7	1.3	3.3	6.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	4.7	4.7	4.7	4.0	3.3	2.7	1.3	0.7	1.3	3.3	6.7
70°	2.0	2.0	2.0	1.3	1.3	0.7	0.7	0.7	1.3	3.3	6.0
72.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	2.0	3.3	5.4
75°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	2.0	3.3	5.4
77.5°	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7	2.0	2.7	4.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0	2.7	4.0
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0	2.7	3.3
85°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7	2.0	2.7	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.7	2.0
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°	34.1	34.1	34.1
2.5°	32.1	32.1	32.1
5°	30.1	30.1	29.4
7.5°	28.1	27.4	27.4
10°	25.4	25.4	25.4
12.5°	23.4	23.4	23.4
15°	21.4	22.1	22.1
17.5°	19.4	20.7	20.7
20°	18.1	19.4	20.1
22.5°	16.7	18.1	18.7
25°	16.1	17.4	18.1
27.5°	14.7	16.7	18.1
30°	14.0	16.1	17.4
31°	14.0	16.1	16.7
32°	13.4	16.1	16.7
33°	13.4	16.1	16.7
34°	13.4	15.4	16.7
35°	12.7	15.4	16.1
36°	12.7	15.4	16.1
37°	12.7	15.4	16.7
38°	12.7	15.4	16.1
39°	12.0	15.4	16.1
40°	12.0	15.4	16.1
41°	12.0	15.4	16.1
42°	12.0	15.4	16.1
43°	12.0	15.4	16.1
44°	12.0	14.7	16.1
45°	12.0	14.7	16.1
46°	12.0	15.4	16.1
47°	12.0	15.4	16.7
48°	12.0	14.7	16.1
49°	11.4	14.7	16.1
50°	11.4	14.7	16.1
51°	11.4	15.4	16.7
52°	11.4	15.4	16.7
53°	11.4	15.4	16.7
54°	11.4	15.4	16.1
55°	11.4	15.4	16.7
56°	11.4	15.4	16.1
57°	11.4	15.4	16.1
58°	11.4	14.7	16.1
59°	11.4	14.7	16.1
60°	11.4	14.7	16.1
62.5°	10.7	14.7	16.1
65°	10.7	14.0	15.4



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	10.0	14.0	14.7
70°	9.4	13.4	14.0
72.5°	8.7	12.7	13.4
75°	8.0	11.4	12.0
77.5°	6.7	10.0	11.4
80°	6.0	8.7	9.4
82.5°	4.7	7.4	8.0
85°	3.3	5.4	5.4
87.5°	1.3	2.7	2.7
90°	0.0	0.0	0.0

(END OF REPORT)