

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: P1340871

Luminaire Tested: P3A09R259030D2WDE010 E3CA451MMS

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R259030D2WDE010 E3CA451MMS
Description: 3in Adjustable Dim to Warm LED luminaire with, R25 optic, 3000K CCT AND, 90CRI ,
E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

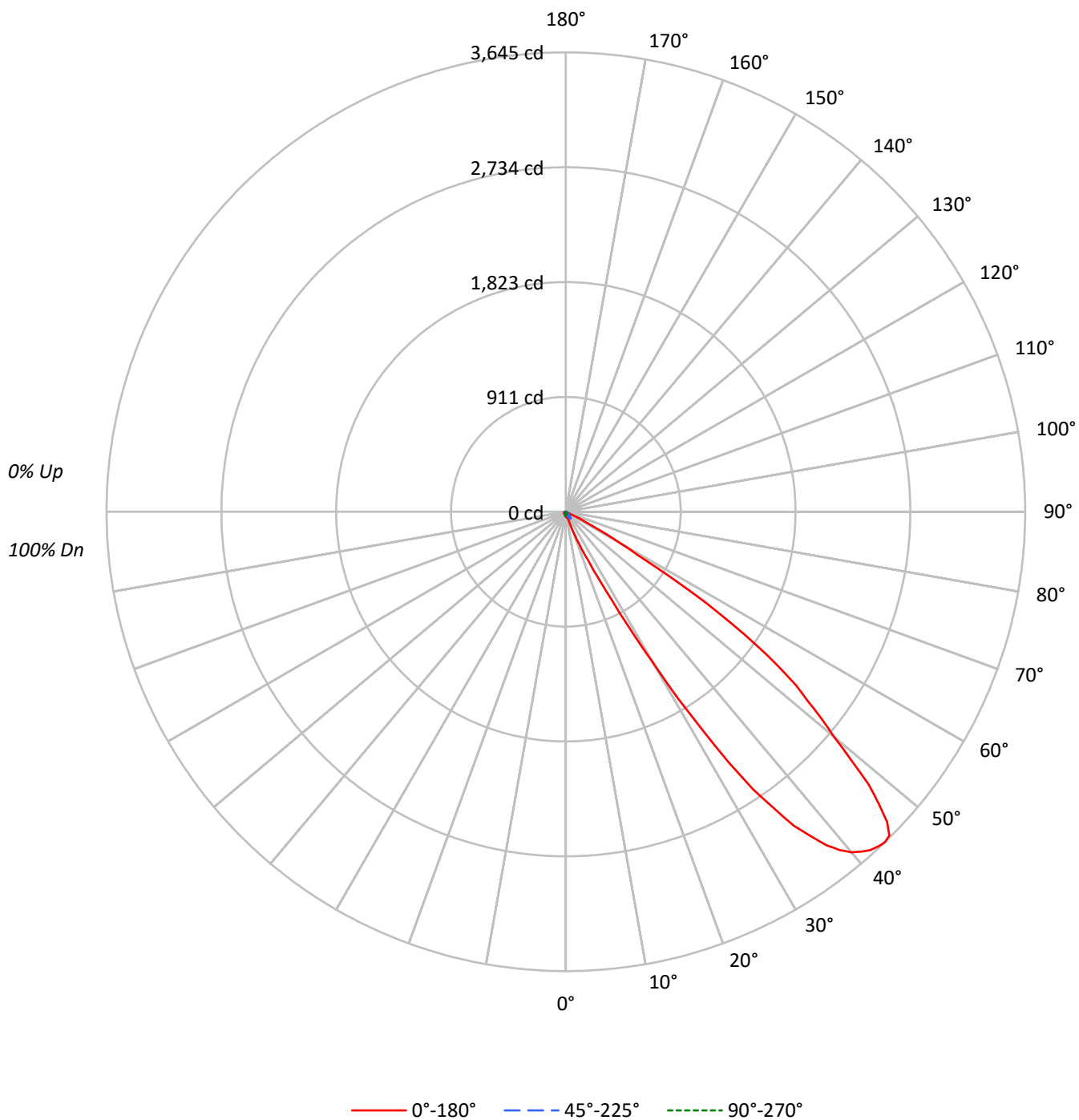
Lumens per Lamp: N/A
Luminaire Lumens: 760.0 lumens
Efficiency: N/A
Efficacy: 51.7 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8508	8508	8508	8508	8508
5°	9707	9267	8254	7352	7220
10°	9686	8795	6992	6101	6101
15°	10783	7582	5471	5153	5471
20°	38083	7491	4224	4364	4830
25°	109555	9557	3387	4041	4694
30°	349522	14736	2709	3899	4735
35°	765520	17373	2329	3748	4845
40°	1009835	15687	1918	3836	5181
45°	1126163	10978	1861	4155	5613
50°	947960	5697	1842	4332	6175
55°	708754	2294	1797	4855	6920
60°	219368	570	1754	5263	7631
65°	18731	0	2075	5552	8354
70°	1282	449	2116	6411	9425
75°	1101	593	2796	6778	10760
80°	884	884	4167	7577	12628
85°	1761	1761	6793	8303	13586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1126163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.5
10°-20°	9.0	1.2
20°-30°	42.0	5.5
30°-40°	202.4	26.6
40°-50°	317.3	41.8
50°-60°	162.7	21.4
60°-70°	15.3	2.0
70°-80°	5.2	0.7
80°-90°	2.6	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°	54.5	7.2
0°-40°	256.9	33.8
0°-60°	736.9	97.0
0°-90°	760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	760.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	39	39	39	39	39	
5°	44	42	38	33	33	4
15°	48	33	24	23	24	20
25°	453	40	14	17	19	281
35°	2860	65	9	14	18	1736
45°	3632	35	6	13	18	2657
55°	1854	6	5	13	18	1543
65°	36	0	4	11	16	113
75°	1	1	3	8	13	2
85°	1	1	3	3	5	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
2.5°	42.1	42.1	42.1	42.1	42.1	42.1	41.5	41.5	42.1	41.5	41.5
5°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	43.5	43.5	43.5	42.1
7.5°	44.8	44.1	44.1	44.1	44.1	44.1	44.1	44.1	43.5	43.5	41.5
10°	43.5	43.5	43.5	43.5	42.8	42.8	42.8	42.1	42.1	42.1	39.5
12.5°	43.5	43.5	43.5	43.5	42.8	42.8	42.1	42.1	41.5	40.8	36.1
15°	47.5	47.5	47.5	46.8	46.1	45.5	44.8	44.1	43.5	42.1	33.4
17.5°	69.6	67.5	66.9	64.2	60.9	57.5	54.8	52.2	49.5	47.5	32.1
20°	163.2	162.5	159.2	151.1	142.5	132.4	122.4	111.0	95.0	84.3	32.1
22.5°	282.9	278.9	272.9	266.8	251.5	233.4	214.7	193.3	172.5	150.5	34.1
25°	452.8	462.1	442.1	426.0	399.3	366.5	331.0	301.6	264.2	229.4	39.5
27.5°	787.2	793.2	753.7	701.6	639.4	570.5	503.6	453.4	390.6	333.1	49.5
30°	1380.4	1386.4	1320.2	1209.2	1080.8	967.7	814.6	680.2	556.4	460.8	58.2
31°	1722.8	1676.0	1599.1	1491.4	1328.9	1158.3	974.4	811.9	655.4	529.7	60.9
32°	2020.4	2016.4	1926.8	1763.6	1600.4	1389.7	1161.7	949.7	757.7	599.2	62.9
33°	2371.5	2344.8	2218.4	2064.5	1848.5	1636.5	1342.2	1100.1	862.7	676.8	64.2
34°	2653.1	2580.8	2528.7	2352.8	2124.7	1854.5	1539.5	1259.3	993.8	751.7	64.9
35°	2859.7	2844.3	2742.7	2578.8	2346.8	2070.5	1752.2	1424.5	1103.5	838.7	64.9
36°	3078.4	3030.9	2931.9	2783.5	2557.4	2271.9	1914.7	1567.6	1231.2	916.9	64.2
37°	3215.5	3187.4	3089.1	2936.0	2714.6	2441.7	2096.6	1718.8	1332.9	995.1	62.9
38°	3356.6	3299.8	3202.8	3056.3	2839.0	2582.8	2228.4	1835.1	1426.5	1064.0	60.9
39°	3454.3	3395.4	3296.4	3150.6	2938.0	2683.8	2332.7	1934.1	1508.1	1115.5	58.2
40°	3527.8	3471.0	3370.7	3220.9	3010.9	2763.4	2419.7	2021.7	1576.3	1160.3	54.8
41°	3573.3	3520.5	3420.8	3271.7	3061.0	2808.9	2476.5	2078.6	1622.5	1190.4	51.5
42°	3611.4	3557.3	3455.6	3303.1	3091.8	2847.7	2511.3	2114.7	1653.9	1205.8	48.8
43°	3632.8	3578.7	3479.7	3323.8	3110.5	2865.7	2530.0	2131.4	1664.6	1203.8	44.1
44°	3644.9	3588.7	3489.0	3333.2	3118.5	2870.4	2531.3	2128.1	1657.2	1187.8	40.1
45°	3631.5	3576.0	3479.7	3323.8	3104.5	2855.7	2518.0	2110.0	1629.2	1156.3	35.4
46°	3544.5	3501.7	3413.5	3270.3	3060.3	2818.2	2483.9	2075.2	1585.7	1117.5	30.1
47°	3391.4	3357.3	3271.7	3165.3	2975.4	2749.4	2421.0	2009.0	1524.8	1059.4	24.1
48°	3231.6	3181.4	3101.8	2992.8	2832.3	2625.6	2317.3	1912.0	1432.5	983.1	21.4
49°	2995.5	2966.0	2895.8	2774.1	2641.0	2459.1	2170.9	1787.7	1319.5	900.2	18.7
50°	2778.8	2758.7	2660.4	2570.8	2429.7	2259.8	1972.2	1623.8	1179.1	797.2	16.7
51°	2609.6	2585.5	2514.6	2402.9	2252.5	2055.2	1784.3	1411.1	1017.9	674.8	13.4
52°	2433.0	2419.7	2356.8	2241.8	2094.0	1897.3	1601.7	1230.6	861.4	570.5	10.7
53°	2288.6	2269.2	2192.3	2089.9	1930.1	1726.8	1403.8	1062.7	729.6	479.5	9.4
54°	2077.9	2069.9	2020.4	1913.4	1740.2	1518.8	1224.5	894.8	608.6	406.6	8.0
55°	1853.9	1827.1	1777.0	1692.0	1532.8	1326.2	1017.2	741.7	492.2	342.4	6.0
56°	1581.0	1579.7	1490.0	1419.2	1278.0	1058.7	812.6	579.2	399.9	285.6	5.4
57°	1320.2	1278.0	1191.8	1121.5	969.7	803.2	603.2	434.0	313.0	231.4	4.0
58°	976.4	954.4	931.6	828.6	688.2	569.1	430.7	305.0	231.4	176.6	2.7
59°	662.8	662.1	635.3	557.1	476.2	354.5	268.9	207.3	159.2	129.7	2.0
60°	500.2	488.2	434.7	383.2	299.6	224.0	159.2	122.4	99.0	83.6	1.3
62.5°	175.2	181.9	159.8	132.4	101.0	82.9	63.5	51.5	42.1	34.1	0.0
65°	36.1	39.5	34.1	32.1	25.4	22.1	19.4	16.7	14.0	12.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	4.7	4.0	4.0	4.0	3.3	3.3	3.3	3.3	2.7	2.7	0.7
70°	2.0	2.0	2.0	2.0	2.0	2.0	1.3	1.3	1.3	1.3	0.7
72.5°	2.0	2.0	2.0	1.3	1.3	1.3	1.3	1.3	1.3	0.7	0.7
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3
85°	0.7	0.7	0.7	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	38.8	38.8	38.8	38.8	38.8	38.8
2.5°	40.8	39.5	37.5	36.8	36.1	36.1
5°	40.1	37.5	35.4	33.4	32.8	32.8
7.5°	38.1	34.8	32.1	30.8	30.1	29.4
10°	36.1	31.4	28.8	27.4	27.4	27.4
12.5°	32.1	28.1	25.4	24.7	25.4	25.4
15°	28.8	24.1	22.7	22.7	23.4	24.1
17.5°	24.7	21.4	20.1	20.7	21.4	22.1
20°	22.1	18.1	18.1	18.7	20.7	20.7
22.5°	19.4	16.1	16.1	18.1	19.4	20.1
25°	17.4	14.0	14.7	16.7	18.7	19.4
27.5°	14.7	12.0	13.4	16.1	18.1	18.7
30°	12.7	10.7	12.7	15.4	17.4	18.7
31°	12.0	10.0	12.7	14.7	17.4	18.7
32°	10.7	10.0	12.0	14.7	17.4	18.1
33°	10.0	9.4	12.0	14.7	17.4	18.1
34°	9.4	8.7	11.4	14.7	17.4	18.1
35°	8.0	8.7	11.4	14.0	16.7	18.1
36°	7.4	8.0	11.4	14.0	16.7	18.1
37°	6.7	8.0	10.7	14.0	16.7	18.1
38°	6.0	7.4	10.7	14.0	16.7	18.1
39°	5.4	7.4	10.0	14.0	16.7	18.1
40°	4.7	6.7	10.0	13.4	16.7	18.1
41°	4.7	6.7	10.0	13.4	16.7	18.1
42°	4.0	6.7	10.0	13.4	16.7	18.1
43°	3.3	6.0	10.0	13.4	16.7	18.1
44°	2.7	6.0	9.4	13.4	16.7	18.1
45°	2.7	6.0	9.4	13.4	16.7	18.1
46°	2.0	5.4	9.4	13.4	16.7	18.1
47°	1.3	5.4	9.4	12.7	16.7	18.1
48°	1.3	5.4	9.4	12.7	16.7	18.1
49°	1.3	5.4	8.7	12.7	16.7	18.1
50°	1.3	5.4	8.7	12.7	16.7	18.1
51°	0.7	4.7	8.7	12.7	16.7	18.1
52°	0.7	4.7	8.7	12.7	16.7	18.7
53°	0.7	4.7	8.7	12.7	16.7	18.1
54°	0.7	4.7	8.0	12.7	16.7	18.1
55°	0.7	4.7	8.0	12.7	16.7	18.1
56°	0.7	4.0	8.0	12.0	16.7	18.1
57°	1.3	4.0	8.0	12.0	16.7	17.4
58°	1.3	4.0	8.0	12.0	16.1	17.4
59°	1.3	4.0	8.0	12.0	16.1	17.4
60°	1.3	4.0	7.4	12.0	16.1	17.4
62.5°	1.3	4.0	7.4	11.4	15.4	16.7
65°	1.3	4.0	6.7	10.7	15.4	16.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.3	3.3	6.7	10.0	14.7	15.4
70°	2.0	3.3	6.0	10.0	14.0	14.7
72.5°	2.0	3.3	6.0	8.7	12.7	14.0
75°	2.0	3.3	5.4	8.0	12.0	12.7
77.5°	2.0	3.3	4.7	7.4	10.7	11.4
80°	2.7	3.3	4.0	6.0	9.4	10.0
82.5°	2.7	3.3	3.3	4.7	7.4	8.0
85°	2.0	2.7	2.7	3.3	4.7	5.4
87.5°	2.0	2.7	2.0	1.3	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)