

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: P1337340

Luminaire Tested: P3A05R259030DE010 E3CA451MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337340
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: P3A05R259030DE010 E3CA451MW
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 90CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

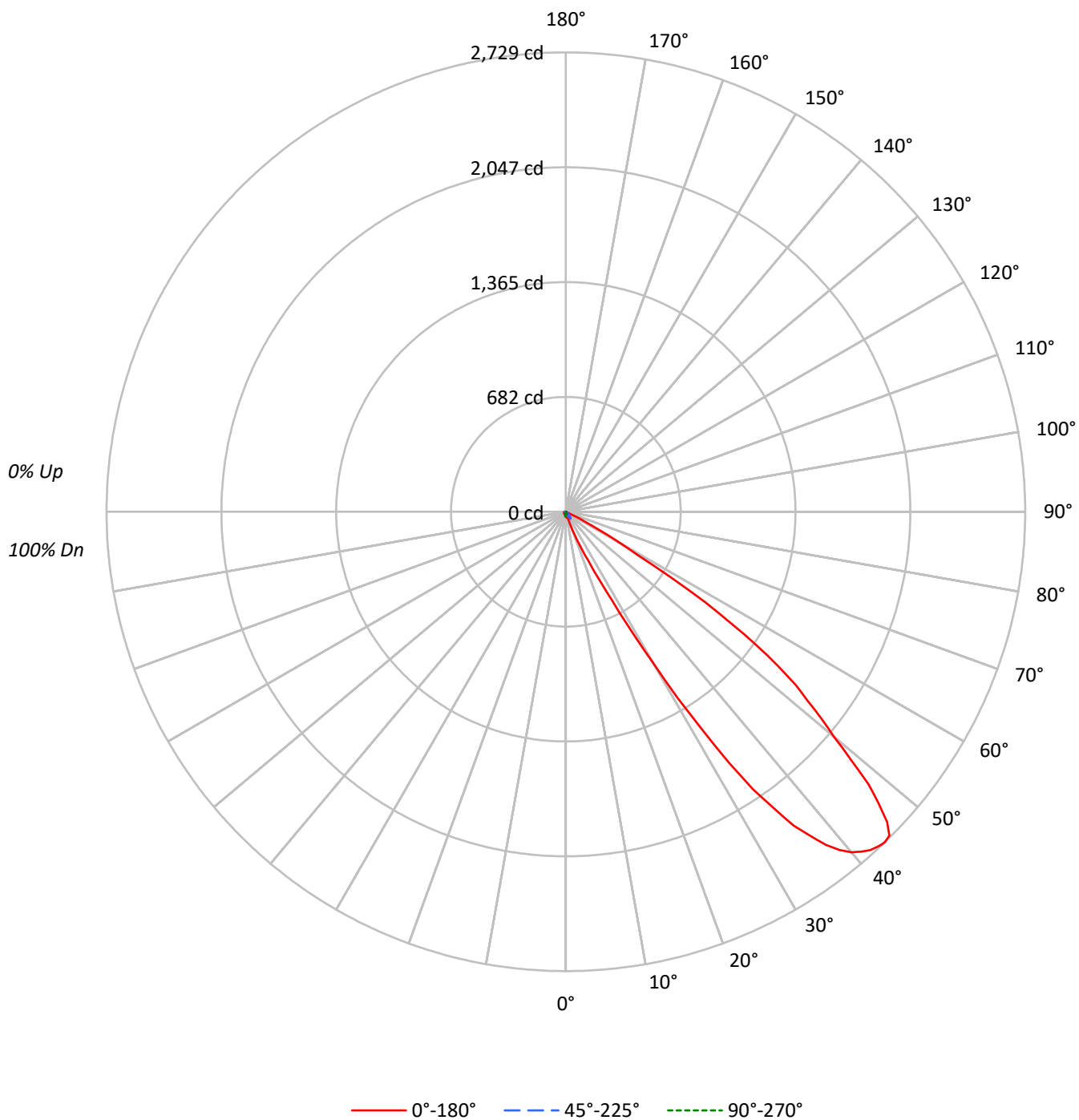
Lumens per Lamp: N/A
Luminaire Lumens: 569.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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°	6359	6359	6359	6359	6359
5°	7264	6934	6163	5503	5393
10°	7237	6569	5233	4565	4565
15°	8082	5675	4086	3859	4086
20°	28516	5600	3150	3267	3617
25°	82021	7138	2540	3024	3508
30°	261686	11040	2026	2912	3545
35°	573129	13010	1740	2811	3614
40°	756045	11765	1431	2863	3864
45°	843126	8218	1395	3101	4186
50°	709708	4264	1365	3241	4605
55°	530638	1720	1338	3632	5161
60°	164241	439	1316	3947	5701
65°	14009	0	1557	4151	6226
70°	962	321	1603	4809	7052
75°	847	424	2118	5083	8049
80°	631	631	3157	5683	9471
85°	1258	1258	5032	6290	10064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 843126 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.5
10°-20°	6.7	1.2
20°-30°	31.5	5.5
30°-40°	151.6	26.6
40°-50°	237.6	41.8
50°-60°	121.8	21.4
60°-70°	11.5	2.0
70°-80°	3.9	0.7
80°-90°	1.9	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°	40.8	7.2
0°-40°	192.3	33.8
0°-60°	551.7	97.0
0°-90°	569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	569.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	33	32	28	25	24	3
15°	36	25	18	17	18	15
25°	339	30	10	12	14	210
35°	2141	49	6	10	14	1300
45°	2719	26	4	10	14	1989
55°	1388	4	4	10	14	1155
65°	27	0	3	8	12	85
75°	1	0	2	6	10	1
85°	0	0	2	2	4	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°	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
2.5°	31.5	31.5	31.5	31.5	31.5	31.5	31.0	31.0	31.5	31.0	31.0
5°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	32.5	32.5	32.5	31.5
7.5°	33.5	33.0	33.0	33.0	33.0	33.0	33.0	33.0	32.5	32.5	31.0
10°	32.5	32.5	32.5	32.5	32.0	32.0	32.0	31.5	31.5	31.5	29.5
12.5°	32.5	32.5	32.5	32.5	32.0	32.0	31.5	31.5	31.0	30.5	27.0
15°	35.6	35.6	35.6	35.0	34.5	34.0	33.5	33.0	32.5	31.5	25.0
17.5°	52.1	50.6	50.1	48.1	45.6	43.1	41.1	39.1	37.1	35.6	24.0
20°	122.2	121.7	119.2	113.2	106.7	99.1	91.6	83.1	71.1	63.1	24.0
22.5°	211.8	208.8	204.3	199.8	188.3	174.7	160.7	144.7	129.2	112.7	25.5
25°	339.0	346.0	331.0	319.0	298.9	274.4	247.8	225.8	197.8	171.7	29.5
27.5°	589.3	593.8	564.3	525.2	478.7	427.1	377.0	339.5	292.4	249.4	37.1
30°	1033.5	1038.0	988.4	905.3	809.1	724.5	609.9	509.2	416.6	345.0	43.6
31°	1289.8	1254.8	1197.2	1116.6	994.9	867.2	729.5	607.9	490.7	396.6	45.6
32°	1512.6	1509.6	1442.5	1320.4	1198.2	1040.5	869.7	711.0	567.3	448.6	47.1
33°	1775.5	1755.5	1660.8	1545.7	1384.0	1225.2	1004.9	823.7	645.9	506.7	48.1
34°	1986.3	1932.2	1893.2	1761.5	1590.7	1388.5	1152.6	942.8	744.1	562.8	48.6
35°	2141.0	2129.5	2053.4	1930.7	1757.0	1550.2	1311.9	1066.5	826.2	627.9	48.6
36°	2304.8	2269.2	2195.1	2083.9	1914.7	1700.9	1433.5	1173.7	921.8	686.5	48.1
37°	2407.4	2386.4	2312.8	2198.1	2032.4	1828.1	1569.7	1286.8	997.9	745.1	47.1
38°	2513.0	2470.5	2397.9	2288.2	2125.5	1933.7	1668.4	1373.9	1068.0	796.6	45.6
39°	2586.1	2542.1	2468.0	2358.8	2199.6	2009.3	1746.5	1448.0	1129.1	835.2	43.6
40°	2641.2	2598.7	2523.6	2411.4	2254.2	2068.9	1811.6	1513.6	1180.2	868.7	41.1
41°	2675.3	2635.7	2561.1	2449.5	2291.7	2103.0	1854.1	1556.2	1214.7	891.3	38.6
42°	2703.8	2663.3	2587.2	2473.0	2314.8	2132.0	1880.2	1583.2	1238.2	902.8	36.6
43°	2719.8	2679.3	2605.2	2488.5	2328.8	2145.5	1894.2	1595.8	1246.3	901.3	33.0
44°	2728.9	2686.8	2612.2	2495.5	2334.8	2149.0	1895.2	1593.2	1240.8	889.3	30.0
45°	2718.8	2677.3	2605.2	2488.5	2324.3	2138.0	1885.2	1579.7	1219.7	865.7	26.5
46°	2653.7	2621.7	2555.6	2448.5	2291.2	2110.0	1859.6	1553.7	1187.2	836.7	22.5
47°	2539.1	2513.5	2449.5	2369.8	2227.6	2058.4	1812.6	1504.1	1141.6	793.1	18.0
48°	2419.4	2381.9	2322.3	2240.7	2120.5	1965.8	1734.9	1431.5	1072.5	736.0	16.0
49°	2242.7	2220.6	2168.1	2076.9	1977.3	1841.1	1625.3	1338.4	987.9	674.0	14.0
50°	2080.4	2065.4	1991.8	1924.7	1819.1	1691.9	1476.6	1215.7	882.7	596.8	12.5
51°	1953.8	1935.7	1882.7	1799.0	1686.4	1538.7	1335.9	1056.5	762.1	505.2	10.0
52°	1821.6	1811.6	1764.5	1678.4	1567.7	1420.5	1199.2	921.3	644.9	427.1	8.0
53°	1713.4	1698.9	1641.3	1564.7	1445.0	1292.8	1051.0	795.6	546.3	359.0	7.0
54°	1555.7	1549.7	1512.6	1432.5	1302.8	1137.1	916.8	669.9	455.6	304.4	6.0
55°	1388.0	1367.9	1330.4	1266.8	1147.6	992.9	761.6	555.3	368.5	256.4	4.5
56°	1183.7	1182.7	1115.6	1062.5	956.9	792.6	608.4	433.6	299.4	213.8	4.0
57°	988.4	956.9	892.3	839.7	726.0	601.3	451.6	325.0	234.3	173.2	3.0
58°	731.0	714.5	697.5	620.4	515.2	426.1	322.5	228.3	173.2	132.2	2.0
59°	496.2	495.7	475.7	417.1	356.5	265.4	201.3	155.2	119.2	97.1	1.5
60°	374.5	365.5	325.5	286.9	224.3	167.7	119.2	91.6	74.1	62.6	1.0
62.5°	131.2	136.2	119.7	99.1	75.6	62.1	47.6	38.6	31.5	25.5	0.0
65°	27.0	29.5	25.5	24.0	19.0	16.5	14.5	12.5	10.5	9.0	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°	3.5	3.0	3.0	3.0	2.5	2.5	2.5	2.5	2.0	2.0	0.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0	0.5
72.5°	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
85°	0.5	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	29.0	29.0	29.0	29.0	29.0	29.0
2.5°	30.5	29.5	28.0	27.5	27.0	27.0
5°	30.0	28.0	26.5	25.0	24.5	24.5
7.5°	28.5	26.0	24.0	23.0	22.5	22.0
10°	27.0	23.5	21.5	20.5	20.5	20.5
12.5°	24.0	21.0	19.0	18.5	19.0	19.0
15°	21.5	18.0	17.0	17.0	17.5	18.0
17.5°	18.5	16.0	15.0	15.5	16.0	16.5
20°	16.5	13.5	13.5	14.0	15.5	15.5
22.5°	14.5	12.0	12.0	13.5	14.5	15.0
25°	13.0	10.5	11.0	12.5	14.0	14.5
27.5°	11.0	9.0	10.0	12.0	13.5	14.0
30°	9.5	8.0	9.5	11.5	13.0	14.0
31°	9.0	7.5	9.5	11.0	13.0	14.0
32°	8.0	7.5	9.0	11.0	13.0	13.5
33°	7.5	7.0	9.0	11.0	13.0	13.5
34°	7.0	6.5	8.5	11.0	13.0	13.5
35°	6.0	6.5	8.5	10.5	12.5	13.5
36°	5.5	6.0	8.5	10.5	12.5	13.5
37°	5.0	6.0	8.0	10.5	12.5	13.5
38°	4.5	5.5	8.0	10.5	12.5	13.5
39°	4.0	5.5	7.5	10.5	12.5	13.5
40°	3.5	5.0	7.5	10.0	12.5	13.5
41°	3.5	5.0	7.5	10.0	12.5	13.5
42°	3.0	5.0	7.5	10.0	12.5	13.5
43°	2.5	4.5	7.5	10.0	12.5	13.5
44°	2.0	4.5	7.0	10.0	12.5	13.5
45°	2.0	4.5	7.0	10.0	12.5	13.5
46°	1.5	4.0	7.0	10.0	12.5	13.5
47°	1.0	4.0	7.0	9.5	12.5	13.5
48°	1.0	4.0	7.0	9.5	12.5	13.5
49°	1.0	4.0	6.5	9.5	12.5	13.5
50°	1.0	4.0	6.5	9.5	12.5	13.5
51°	0.5	3.5	6.5	9.5	12.5	13.5
52°	0.5	3.5	6.5	9.5	12.5	14.0
53°	0.5	3.5	6.5	9.5	12.5	13.5
54°	0.5	3.5	6.0	9.5	12.5	13.5
55°	0.5	3.5	6.0	9.5	12.5	13.5
56°	0.5	3.0	6.0	9.0	12.5	13.5
57°	1.0	3.0	6.0	9.0	12.5	13.0
58°	1.0	3.0	6.0	9.0	12.0	13.0
59°	1.0	3.0	6.0	9.0	12.0	13.0
60°	1.0	3.0	5.5	9.0	12.0	13.0
62.5°	1.0	3.0	5.5	8.5	11.5	12.5
65°	1.0	3.0	5.0	8.0	11.5	12.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.0	2.5	5.0	7.5	11.0	11.5
70°	1.5	2.5	4.5	7.5	10.5	11.0
72.5°	1.5	2.5	4.5	6.5	9.5	10.5
75°	1.5	2.5	4.0	6.0	9.0	9.5
77.5°	1.5	2.5	3.5	5.5	8.0	8.5
80°	2.0	2.5	3.0	4.5	7.0	7.5
82.5°	2.0	2.5	2.5	3.5	5.5	6.0
85°	1.5	2.0	2.0	2.5	3.5	4.0
87.5°	1.5	2.0	1.5	1.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)