

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: P1344469

Luminaire Tested: P3A13R259050DE010 E3A451WH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344469
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: P3A13R259050DE010 E3A451WH
Description: 3in Adjustable LED luminaire with, R25 optic, 5000K CCT AND, 90CRI , E3A451WH TRIM
Light Source: -
Ballast/Driver: -

Summary

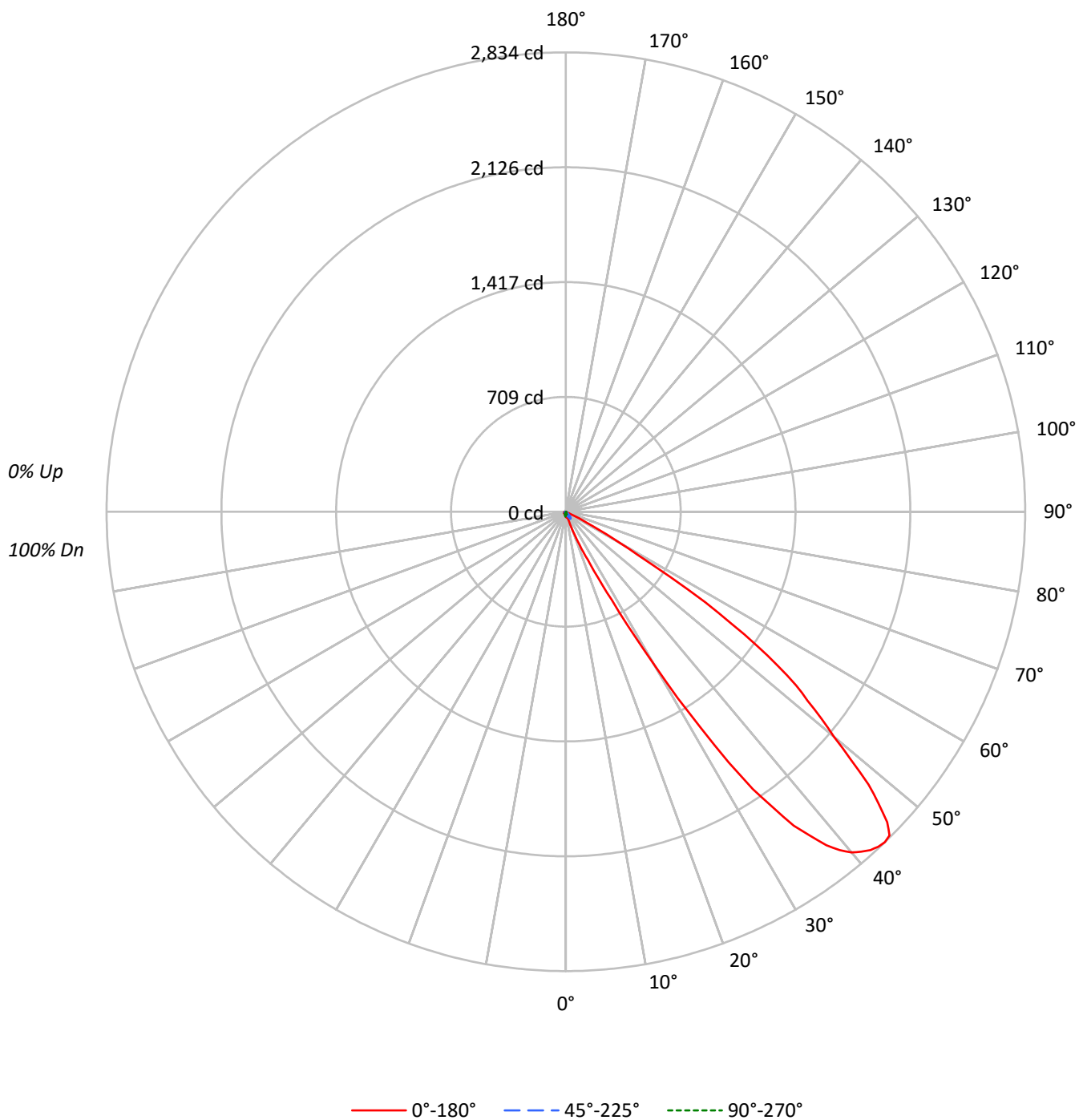
Lumens per Lamp: N/A
Luminaire Lumens: 591.0 lumens
Efficiency: N/A
Efficacy: 40.5 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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
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	110	106	102	99	108	104	101	97	100	97	94		96	94	92		92
2	101	93	87	82	98	91	86	81	88	83	79		85	81	77		82
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	62	48	39	32	60	47	39	32	46	38	32		44	37	32		43
8	57	43	34	27	55	42	33	27	40	33	27		39	32	27		38
9	52	38	29	23	51	37	29	23	36	28	23		35	28	23		34
10	48	34	25	20	47	33	25	20	32	25	20		31	24	19		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6622	6622	6622	6622	6622
5°	7550	7220	6405	5723	5613
10°	7526	6836	5433	4743	4743
15°	8377	5902	4245	4018	4245
20°	29613	5834	3267	3407	3757
25°	85190	7428	2637	3145	3653
30°	271789	11445	2102	3038	3697
35°	595294	13492	1820	2918	3748
40°	785271	12194	1489	2977	4008
45°	875750	8559	1458	3225	4342
50°	737170	4435	1433	3377	4776
55°	551130	1797	1376	3785	5352
60°	170600	439	1360	4122	5921
65°	14580	0	1608	4307	6486
70°	1026	321	1667	5001	7309
75°	847	424	2203	5253	8388
80°	631	631	3283	5935	9850
85°	1258	1258	5284	6542	10567

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 875750 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.5
10°-20°	7.0	1.2
20°-30°	32.7	5.5
30°-40°	157.4	26.6
40°-50°	246.8	41.8
50°-60°	126.5	21.4
60°-70°	11.9	2.0
70°-80°	4.0	0.7
80°-90°	2.0	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°	42.4	7.2
0°-40°	199.8	33.8
0°-60°	573.0	97.0
0°-90°	591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	591.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	34	33	29	26	26	3
15°	37	26	19	18	19	16
25°	352	31	11	13	15	218
35°	2224	50	7	11	14	1350
45°	2824	28	5	10	14	2066
55°	1442	5	4	10	14	1200
65°	28	0	3	8	12	88
75°	1	0	3	6	10	1
85°	0	0	2	3	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°	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
2.5°	32.8	32.8	32.8	32.8	32.8	32.8	32.2	32.2	32.8	32.2	32.2
5°	34.3	34.3	34.3	34.3	34.3	34.3	34.3	33.8	33.8	33.8	32.8
7.5°	34.8	34.3	34.3	34.3	34.3	34.3	34.3	34.3	33.8	33.8	32.2
10°	33.8	33.8	33.8	33.8	33.3	33.3	33.3	32.8	32.8	32.8	30.7
12.5°	33.8	33.8	33.8	33.8	33.3	33.3	32.8	32.8	32.2	31.7	28.1
15°	36.9	36.9	36.9	36.4	35.9	35.4	34.8	34.3	33.8	32.8	26.0
17.5°	54.1	52.5	52.0	49.9	47.3	44.7	42.6	40.6	38.5	36.9	25.0
20°	126.9	126.4	123.8	117.5	110.8	103.0	95.2	86.3	73.8	65.5	25.0
22.5°	220.0	216.9	212.2	207.5	195.5	181.5	166.9	150.3	134.2	117.0	26.5
25°	352.1	359.4	343.8	331.3	310.5	285.0	257.4	234.5	205.4	178.4	30.7
27.5°	612.1	616.8	586.1	545.5	497.2	443.6	391.6	352.6	303.7	259.0	38.5
30°	1073.4	1078.1	1026.6	940.3	840.4	752.5	633.4	528.9	432.7	358.3	45.2
31°	1339.7	1303.3	1243.5	1159.7	1033.4	900.8	757.7	631.4	509.7	411.9	47.3
32°	1571.1	1568.0	1498.3	1371.4	1244.5	1080.7	903.4	738.5	589.2	466.0	48.9
33°	1844.2	1823.4	1725.1	1605.4	1437.5	1272.6	1043.8	855.5	670.9	526.3	49.9
34°	2063.1	2006.9	1966.4	1829.6	1652.2	1442.1	1197.2	979.3	772.8	584.6	50.4
35°	2223.8	2211.8	2132.8	2005.4	1824.9	1610.1	1362.6	1107.7	858.1	652.2	50.4
36°	2393.9	2356.9	2280.0	2164.5	1988.7	1766.7	1488.9	1219.0	957.4	713.0	49.9
37°	2500.5	2478.6	2402.2	2283.1	2110.9	1898.8	1630.4	1336.6	1036.5	773.9	48.9
38°	2610.2	2566.0	2490.6	2376.7	2207.7	2008.5	1732.9	1427.1	1109.3	827.4	47.3
39°	2686.1	2640.4	2563.4	2450.0	2284.7	2087.0	1814.0	1504.0	1172.7	867.5	45.2
40°	2743.3	2699.1	2621.1	2504.6	2341.3	2148.9	1881.6	1572.2	1225.8	902.3	42.6
41°	2778.7	2737.6	2660.1	2544.2	2380.3	2184.3	1925.8	1616.4	1261.7	925.7	40.0
42°	2808.4	2766.2	2687.2	2568.6	2404.3	2214.4	1952.8	1644.4	1286.1	937.7	38.0
43°	2825.0	2782.9	2705.9	2584.7	2418.8	2228.5	1967.4	1657.5	1294.4	936.1	34.3
44°	2834.4	2790.7	2713.2	2592.0	2425.1	2232.1	1968.5	1654.9	1288.7	923.6	31.2
45°	2824.0	2780.8	2705.9	2584.7	2414.1	2220.7	1958.0	1640.8	1266.9	899.2	27.6
46°	2756.4	2723.1	2654.4	2543.1	2379.8	2191.6	1931.5	1613.8	1233.1	869.0	23.4
47°	2637.3	2610.7	2544.2	2461.5	2313.8	2138.0	1882.6	1562.3	1185.8	823.8	18.7
48°	2513.0	2474.0	2412.1	2327.3	2202.5	2041.8	1802.0	1486.9	1114.0	764.5	16.6
49°	2329.4	2306.5	2251.9	2157.2	2053.7	1912.3	1688.1	1390.1	1026.1	700.0	14.6
50°	2160.9	2145.3	2068.8	1999.1	1889.4	1757.3	1533.7	1262.7	916.9	619.9	13.0
51°	2029.3	2010.6	1955.4	1868.6	1751.6	1598.2	1387.5	1097.3	791.5	524.7	10.4
52°	1892.0	1881.6	1832.7	1743.3	1628.3	1475.4	1245.6	956.9	669.8	443.6	8.3
53°	1779.7	1764.6	1704.8	1625.2	1500.9	1342.8	1091.6	826.4	567.4	372.9	7.3
54°	1615.8	1609.6	1571.1	1487.9	1353.2	1181.1	952.2	695.8	473.3	316.2	6.2
55°	1441.6	1420.8	1381.8	1315.8	1192.0	1031.3	791.0	576.8	382.8	266.3	4.7
56°	1229.4	1228.4	1158.7	1103.6	993.8	823.3	631.9	450.4	311.0	222.1	4.2
57°	1026.6	993.8	926.8	872.2	754.1	624.6	469.1	337.5	243.4	179.9	3.1
58°	759.3	742.1	724.5	644.4	535.1	442.6	334.9	237.2	179.9	137.3	2.1
59°	515.4	514.9	494.1	433.2	370.3	275.6	209.1	161.2	123.8	100.9	1.6
60°	389.0	379.6	338.0	298.0	233.0	174.2	123.8	95.2	77.0	65.0	1.0
62.5°	136.3	141.5	124.3	103.0	78.5	64.5	49.4	40.0	32.8	26.5	0.0
65°	28.1	30.7	26.5	25.0	19.8	17.2	15.1	13.0	10.9	9.4	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°	3.6	3.1	3.1	3.1	2.6	2.6	2.6	2.6	2.1	2.1	0.5
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.0	1.0	1.0	1.0	0.5
72.5°	1.6	1.6	1.6	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°	30.2	30.2	30.2	30.2	30.2	30.2
2.5°	31.7	30.7	29.1	28.6	28.1	28.1
5°	31.2	29.1	27.6	26.0	25.5	25.5
7.5°	29.6	27.0	25.0	23.9	23.4	22.9
10°	28.1	24.4	22.4	21.3	21.3	21.3
12.5°	25.0	21.8	19.8	19.2	19.8	19.8
15°	22.4	18.7	17.7	17.7	18.2	18.7
17.5°	19.2	16.6	15.6	16.1	16.6	17.2
20°	17.2	14.0	14.0	14.6	16.1	16.1
22.5°	15.1	12.5	12.5	14.0	15.1	15.6
25°	13.5	10.9	11.4	13.0	14.6	15.1
27.5°	11.4	9.4	10.4	12.5	14.0	14.6
30°	9.9	8.3	9.9	12.0	13.5	14.6
31°	9.4	7.8	9.9	11.4	13.5	14.6
32°	8.3	7.8	9.4	11.4	13.5	14.0
33°	7.8	7.3	9.4	11.4	13.5	14.0
34°	7.3	6.8	8.8	11.4	13.5	14.0
35°	6.2	6.8	8.8	10.9	13.0	14.0
36°	5.7	6.2	8.8	10.9	13.0	14.0
37°	5.2	6.2	8.3	10.9	13.0	14.0
38°	4.7	5.7	8.3	10.9	13.0	14.0
39°	4.2	5.7	7.8	10.9	13.0	14.0
40°	3.6	5.2	7.8	10.4	13.0	14.0
41°	3.6	5.2	7.8	10.4	13.0	14.0
42°	3.1	5.2	7.8	10.4	13.0	14.0
43°	2.6	4.7	7.8	10.4	13.0	14.0
44°	2.1	4.7	7.3	10.4	13.0	14.0
45°	2.1	4.7	7.3	10.4	13.0	14.0
46°	1.6	4.2	7.3	10.4	13.0	14.0
47°	1.0	4.2	7.3	9.9	13.0	14.0
48°	1.0	4.2	7.3	9.9	13.0	14.0
49°	1.0	4.2	6.8	9.9	13.0	14.0
50°	1.0	4.2	6.8	9.9	13.0	14.0
51°	0.5	3.6	6.8	9.9	13.0	14.0
52°	0.5	3.6	6.8	9.9	13.0	14.6
53°	0.5	3.6	6.8	9.9	13.0	14.0
54°	0.5	3.6	6.2	9.9	13.0	14.0
55°	0.5	3.6	6.2	9.9	13.0	14.0
56°	0.5	3.1	6.2	9.4	13.0	14.0
57°	1.0	3.1	6.2	9.4	13.0	13.5
58°	1.0	3.1	6.2	9.4	12.5	13.5
59°	1.0	3.1	6.2	9.4	12.5	13.5
60°	1.0	3.1	5.7	9.4	12.5	13.5
62.5°	1.0	3.1	5.7	8.8	12.0	13.0
65°	1.0	3.1	5.2	8.3	12.0	12.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.0	2.6	5.2	7.8	11.4	12.0
70°	1.6	2.6	4.7	7.8	10.9	11.4
72.5°	1.6	2.6	4.7	6.8	9.9	10.9
75°	1.6	2.6	4.2	6.2	9.4	9.9
77.5°	1.6	2.6	3.6	5.7	8.3	8.8
80°	2.1	2.6	3.1	4.7	7.3	7.8
82.5°	2.1	2.6	2.6	3.6	5.7	6.2
85°	1.6	2.1	2.1	2.6	3.6	4.2
87.5°	1.6	2.1	1.6	1.0	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)