

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: P1337364

Luminaire Tested: P3A05R259040DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337364
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: P3A05R259040DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

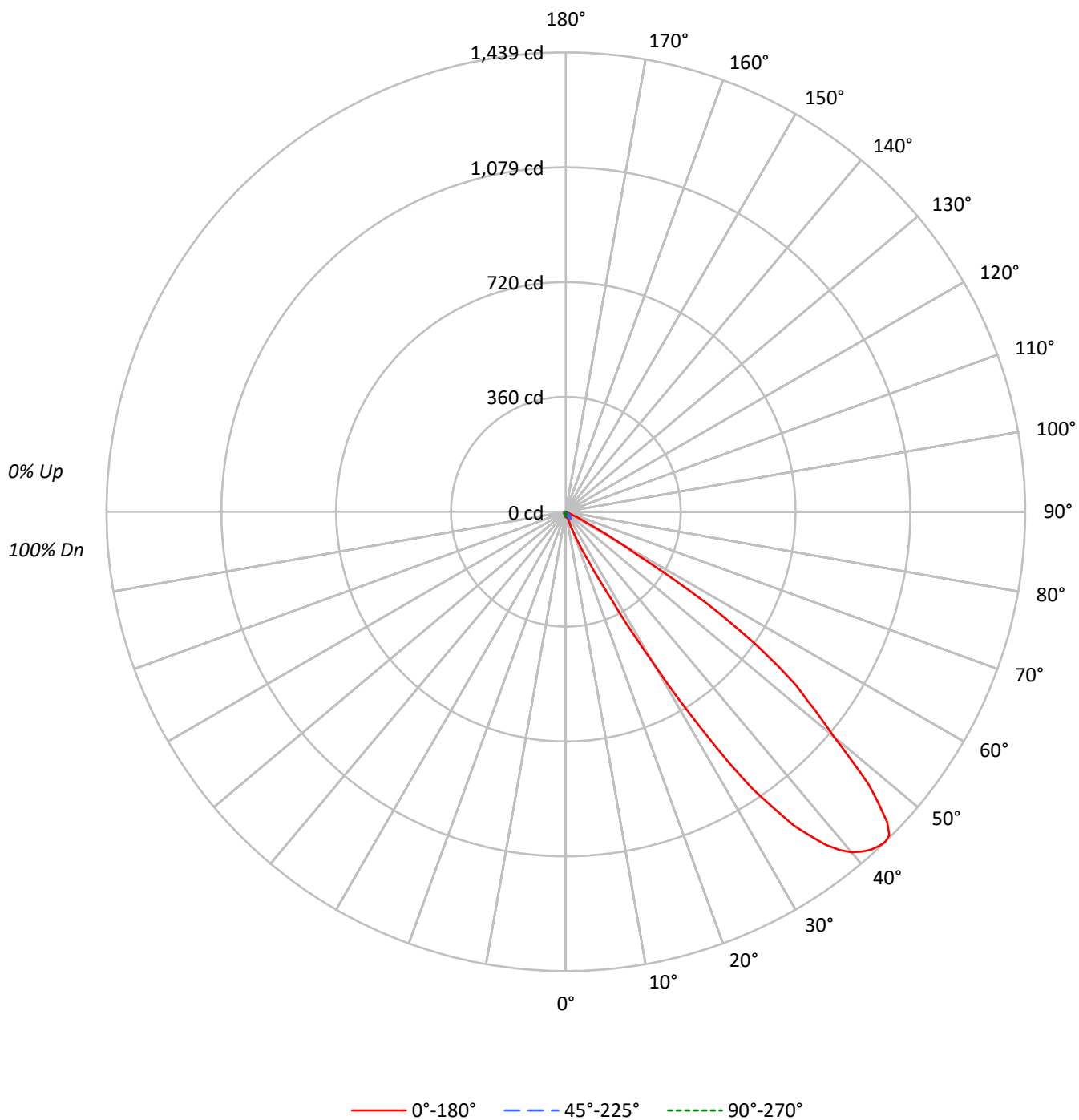
Lumens per Lamp: N/A
Luminaire Lumens: 300.0 lumens
Efficiency: N/A
Efficacy: 41.7 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RW	70	50	30	10	70	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
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3355	3355	3355	3355	3355
5°	3830	3654	3258	2906	2840
10°	3830	3474	2761	2405	2405
15°	4245	2997	2157	2043	2157
20°	15028	2964	1657	1727	1913
25°	43236	3774	1331	1597	1863
30°	137971	5824	1063	1545	1874
35°	302171	6853	910	1472	1901
40°	398633	6183	744	1517	2032
45°	444542	4342	744	1644	2202
50°	374197	2252	716	1706	2422
55°	279770	918	688	1912	2714
60°	86616	219	702	2105	3026
65°	7420	0	830	2179	3269
70°	513	192	833	2565	3719
75°	424	254	1101	2711	4236
80°	379	379	1642	3031	5051
85°	755	755	2768	3271	5284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 444542 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.5
10°-20°	3.5	1.2
20°-30°	16.6	5.5
30°-40°	79.9	26.6
40°-50°	125.3	41.7
50°-60°	64.2	21.4
60°-70°	6.1	2.0
70°-80°	2.0	0.7
80°-90°	1.0	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°	21.5	7.2
0°-40°	101.4	33.8
0°-60°	290.9	97.0
0°-90°	300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	300.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	17	17	15	13	13	2
15°	19	13	10	9	10	8
25°	179	16	6	7	8	111
35°	1129	26	3	6	7	685
45°	1434	14	2	5	7	1049
55°	732	2	2	5	7	609
65°	14	0	2	4	6	45
75°	0	0	1	3	5	1
85°	0	0	1	1	2	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°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
2.5°	16.6	16.6	16.6	16.6	16.6	16.6	16.4	16.4	16.6	16.4	16.4
5°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.2	17.2	17.2	16.6
7.5°	17.7	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.2	17.2	16.4
10°	17.2	17.2	17.2	17.2	16.9	16.9	16.9	16.6	16.6	16.6	15.6
12.5°	17.2	17.2	17.2	17.2	16.9	16.9	16.6	16.6	16.4	16.1	14.3
15°	18.7	18.7	18.7	18.5	18.2	18.0	17.7	17.4	17.2	16.6	13.2
17.5°	27.5	26.7	26.4	25.3	24.0	22.7	21.6	20.6	19.5	18.7	12.7
20°	64.4	64.2	62.8	59.7	56.2	52.3	48.3	43.8	37.5	33.3	12.7
22.5°	111.7	110.1	107.7	105.3	99.3	92.1	84.7	76.3	68.1	59.4	13.5
25°	178.7	182.4	174.5	168.2	157.6	144.7	130.7	119.1	104.3	90.5	15.6
27.5°	310.7	313.1	297.5	276.9	252.4	225.2	198.8	179.0	154.2	131.5	19.5
30°	544.9	547.3	521.1	477.3	426.6	382.0	321.5	268.5	219.6	181.9	23.0
31°	680.0	661.6	631.2	588.7	524.6	457.2	384.6	320.5	258.7	209.1	24.0
32°	797.5	795.9	760.6	696.1	631.7	548.6	458.6	374.9	299.1	236.5	24.8
33°	936.1	925.6	875.7	814.9	729.7	646.0	529.8	434.3	340.6	267.2	25.3
34°	1047.3	1018.7	998.2	928.7	838.7	732.1	607.7	497.1	392.3	296.7	25.6
35°	1128.8	1122.8	1082.6	1018.0	926.4	817.3	691.7	562.3	435.6	331.0	25.6
36°	1215.2	1196.4	1157.3	1098.7	1009.5	896.8	755.8	618.8	486.0	361.9	25.3
37°	1269.3	1258.2	1219.4	1158.9	1071.5	963.8	827.6	678.5	526.1	392.8	24.8
38°	1325.0	1302.5	1264.3	1206.4	1120.7	1019.5	879.6	724.4	563.1	420.0	24.0
39°	1363.5	1340.3	1301.2	1243.7	1159.7	1059.4	920.8	763.5	595.3	440.3	23.0
40°	1392.6	1370.1	1330.5	1271.4	1188.5	1090.8	955.1	798.1	622.2	458.0	21.6
41°	1410.5	1389.7	1350.3	1291.5	1208.3	1108.8	977.6	820.5	640.4	469.9	20.3
42°	1425.6	1404.2	1364.1	1303.9	1220.4	1124.1	991.3	834.7	652.9	476.0	19.3
43°	1434.0	1412.6	1373.6	1312.0	1227.8	1131.2	998.7	841.3	657.1	475.2	17.4
44°	1438.8	1416.6	1377.3	1315.7	1231.0	1133.1	999.2	840.0	654.2	468.9	15.8
45°	1433.5	1411.6	1373.6	1312.0	1225.5	1127.2	993.9	832.9	643.1	456.4	14.0
46°	1399.2	1382.3	1347.4	1290.9	1208.0	1112.5	980.5	819.2	625.9	441.1	11.9
47°	1338.7	1325.2	1291.5	1249.5	1174.5	1085.3	955.7	793.0	601.9	418.2	9.5
48°	1275.6	1255.8	1224.4	1181.4	1118.0	1036.4	914.7	754.8	565.5	388.1	8.4
49°	1182.4	1170.8	1143.1	1095.0	1042.5	970.7	856.9	705.7	520.9	355.3	7.4
50°	1096.9	1089.0	1050.2	1014.8	959.1	892.0	778.5	641.0	465.4	314.7	6.6
51°	1030.1	1020.6	992.6	948.5	889.1	811.3	704.3	557.0	401.8	266.4	5.3
52°	960.4	955.1	930.3	884.9	826.6	748.9	632.3	485.7	340.0	225.2	4.2
53°	903.4	895.7	865.4	825.0	761.9	681.6	554.1	419.5	288.0	189.3	3.7
54°	820.2	817.1	797.5	755.3	686.9	599.5	483.4	353.2	240.2	160.5	3.2
55°	731.8	721.2	701.4	667.9	605.1	523.5	401.5	292.8	194.3	135.2	2.4
56°	624.1	623.6	588.2	560.2	504.5	417.9	320.8	228.6	157.9	112.7	2.1
57°	521.1	504.5	470.4	442.7	382.8	317.1	238.1	171.3	123.5	91.3	1.6
58°	385.4	376.7	367.7	327.1	271.6	224.7	170.0	120.4	91.3	69.7	1.1
59°	261.6	261.4	250.8	219.9	188.0	139.9	106.1	81.8	62.8	51.2	0.8
60°	197.5	192.7	171.6	151.3	118.3	88.4	62.8	48.3	39.1	33.0	0.5
62.5°	69.2	71.8	63.1	52.3	39.9	32.7	25.1	20.3	16.6	13.5	0.0
65°	14.3	15.6	13.5	12.7	10.0	8.7	7.7	6.6	5.5	4.8	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°	1.8	1.6	1.6	1.6	1.3	1.3	1.3	1.3	1.1	1.1	0.3
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.3
72.5°	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
85°	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	15.3	15.3	15.3	15.3	15.3	15.3
2.5°	16.1	15.6	14.8	14.5	14.3	14.3
5°	15.8	14.8	14.0	13.2	12.9	12.9
7.5°	15.0	13.7	12.7	12.1	11.9	11.6
10°	14.3	12.4	11.4	10.8	10.8	10.8
12.5°	12.7	11.1	10.0	9.8	10.0	10.0
15°	11.4	9.5	9.0	9.0	9.2	9.5
17.5°	9.8	8.4	7.9	8.2	8.4	8.7
20°	8.7	7.1	7.1	7.4	8.2	8.2
22.5°	7.7	6.3	6.3	7.1	7.7	7.9
25°	6.9	5.5	5.8	6.6	7.4	7.7
27.5°	5.8	4.8	5.3	6.3	7.1	7.4
30°	5.0	4.2	5.0	6.1	6.9	7.4
31°	4.8	4.0	5.0	5.8	6.9	7.4
32°	4.2	4.0	4.8	5.8	6.9	7.1
33°	4.0	3.7	4.8	5.8	6.9	7.1
34°	3.7	3.4	4.5	5.8	6.9	7.1
35°	3.2	3.4	4.5	5.5	6.6	7.1
36°	2.9	3.2	4.5	5.5	6.6	7.1
37°	2.6	3.2	4.2	5.5	6.6	7.1
38°	2.4	2.9	4.2	5.5	6.6	7.1
39°	2.1	2.9	4.0	5.5	6.6	7.1
40°	1.8	2.6	4.0	5.3	6.6	7.1
41°	1.8	2.6	4.0	5.3	6.6	7.1
42°	1.6	2.6	4.0	5.3	6.6	7.1
43°	1.3	2.4	4.0	5.3	6.6	7.1
44°	1.1	2.4	3.7	5.3	6.6	7.1
45°	1.1	2.4	3.7	5.3	6.6	7.1
46°	0.8	2.1	3.7	5.3	6.6	7.1
47°	0.5	2.1	3.7	5.0	6.6	7.1
48°	0.5	2.1	3.7	5.0	6.6	7.1
49°	0.5	2.1	3.4	5.0	6.6	7.1
50°	0.5	2.1	3.4	5.0	6.6	7.1
51°	0.3	1.8	3.4	5.0	6.6	7.1
52°	0.3	1.8	3.4	5.0	6.6	7.4
53°	0.3	1.8	3.4	5.0	6.6	7.1
54°	0.3	1.8	3.2	5.0	6.6	7.1
55°	0.3	1.8	3.2	5.0	6.6	7.1
56°	0.3	1.6	3.2	4.8	6.6	7.1
57°	0.5	1.6	3.2	4.8	6.6	6.9
58°	0.5	1.6	3.2	4.8	6.3	6.9
59°	0.5	1.6	3.2	4.8	6.3	6.9
60°	0.5	1.6	2.9	4.8	6.3	6.9
62.5°	0.5	1.6	2.9	4.5	6.1	6.6
65°	0.5	1.6	2.6	4.2	6.1	6.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.5	1.3	2.6	4.0	5.8	6.1
70°	0.8	1.3	2.4	4.0	5.5	5.8
72.5°	0.8	1.3	2.4	3.4	5.0	5.5
75°	0.8	1.3	2.1	3.2	4.8	5.0
77.5°	0.8	1.3	1.8	2.9	4.2	4.5
80°	1.1	1.3	1.6	2.4	3.7	4.0
82.5°	1.1	1.3	1.3	1.8	2.9	3.2
85°	0.8	1.1	1.1	1.3	1.8	2.1
87.5°	0.8	1.1	0.8	0.5	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)