

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: P1337336

Luminaire Tested: P3A05R259030DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337336
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 E3A451WMH
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

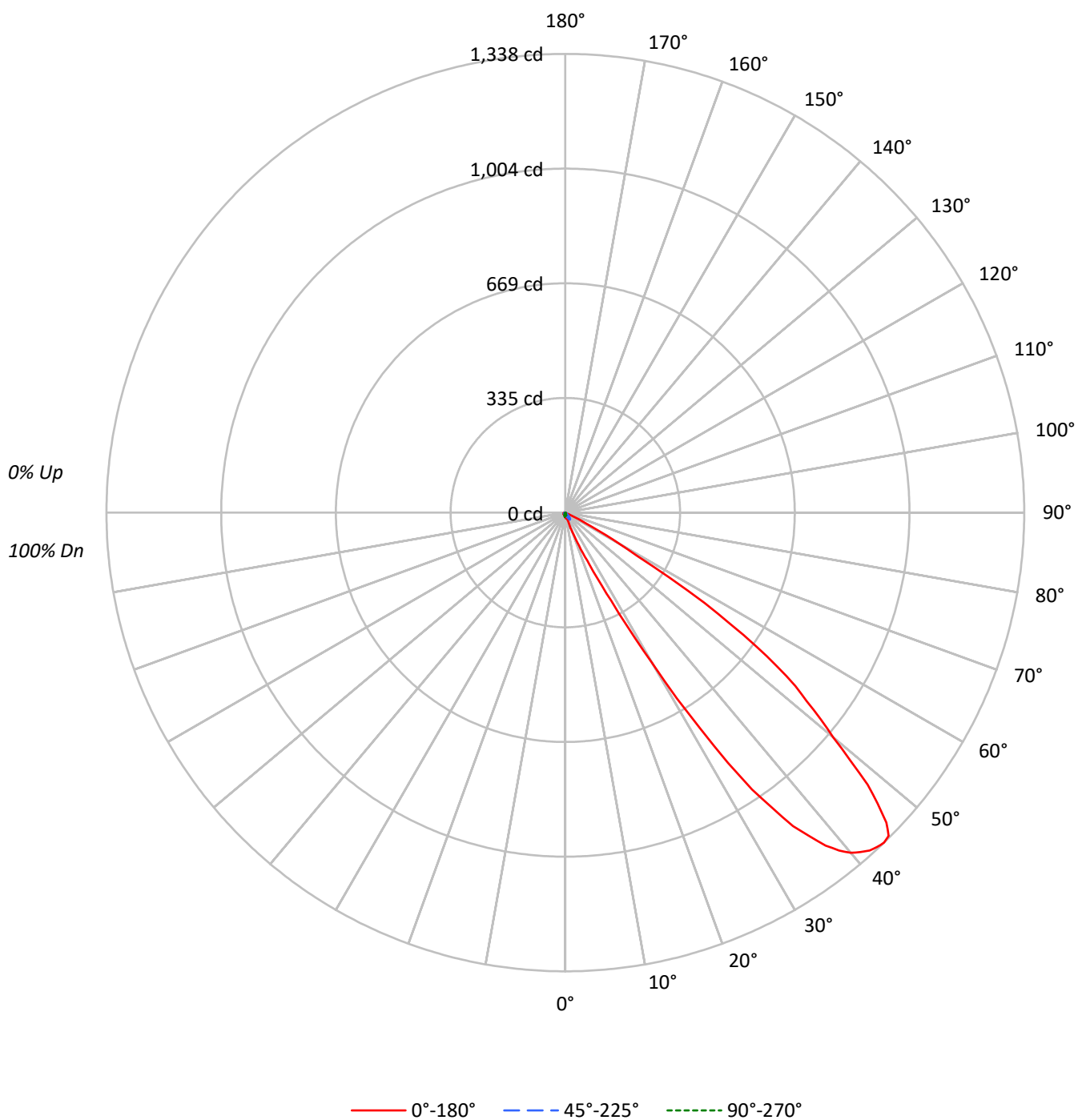
Lumens per Lamp: N/A
Luminaire Lumens: 279.0 lumens
Efficiency: N/A
Efficacy: 38.7 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	3114	3114	3114	3114	3114
5°	3566	3412	3016	2707	2641
10°	3563	3229	2561	2249	2249
15°	3950	2792	1998	1884	1998
20°	13978	2754	1540	1610	1773
25°	40212	3508	1258	1476	1718
30°	128298	5419	987	1418	1747
35°	281023	6371	857	1392	1767
40°	370723	5754	716	1403	1889
45°	413407	4031	682	1520	2047
50°	347997	2081	682	1603	2252
55°	260196	841	650	1797	2523
60°	80520	219	658	1930	2807
65°	6901	0	778	2024	3061
70°	449	128	769	2372	3462
75°	424	169	1017	2457	3982
80°	253	253	1515	2778	4672
85°	503	503	2516	3019	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 413407 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.5
10°-20°	3.3	1.2
20°-30°	15.4	5.5
30°-40°	74.3	26.6
40°-50°	116.5	41.8
50°-60°	59.7	21.4
60°-70°	5.6	2.0
70°-80°	1.9	0.7
80°-90°	0.9	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°	20.0	7.2
0°-40°	94.3	33.8
0°-60°	270.5	97.0
0°-90°	279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	279.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	16	16	14	12	12	2
15°	17	12	9	8	9	7
25°	166	14	5	6	7	103
35°	1050	24	3	5	7	637
45°	1333	13	2	5	7	975
55°	681	2	2	5	7	567
65°	13	0	2	4	6	42
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°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
2.5°	15.5	15.5	15.5	15.5	15.5	15.5	15.2	15.2	15.5	15.2	15.2
5°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.0	16.0	16.0	15.5
7.5°	16.4	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.0	16.0	15.2
10°	16.0	16.0	16.0	16.0	15.7	15.7	15.7	15.5	15.5	15.5	14.5
12.5°	16.0	16.0	16.0	16.0	15.7	15.7	15.5	15.5	15.2	15.0	13.3
15°	17.4	17.4	17.4	17.2	16.9	16.7	16.4	16.2	16.0	15.5	12.3
17.5°	25.5	24.8	24.6	23.6	22.3	21.1	20.1	19.2	18.2	17.4	11.8
20°	59.9	59.7	58.4	55.5	52.3	48.6	44.9	40.8	34.9	30.9	11.8
22.5°	103.9	102.4	100.2	98.0	92.3	85.7	78.8	71.0	63.3	55.2	12.5
25°	166.2	169.6	162.3	156.4	146.6	134.5	121.5	110.7	97.0	84.2	14.5
27.5°	289.0	291.2	276.7	257.5	234.7	209.4	184.9	166.5	143.4	122.3	18.2
30°	506.7	508.9	484.6	443.9	396.7	355.3	299.0	249.7	204.3	169.2	21.4
31°	632.4	615.3	587.0	547.5	487.8	425.2	357.7	298.1	240.6	194.4	22.3
32°	741.7	740.2	707.3	647.4	587.5	510.2	426.5	348.6	278.2	220.0	23.1
33°	870.6	860.8	814.4	757.9	678.6	600.8	492.7	403.9	316.7	248.5	23.6
34°	974.0	947.4	928.3	863.7	780.0	680.8	565.2	462.3	364.8	276.0	23.8
35°	1049.8	1044.2	1006.9	946.7	861.5	760.1	643.2	522.9	405.1	307.9	23.8
36°	1130.1	1112.7	1076.3	1021.8	938.8	834.0	702.9	575.5	452.0	336.6	23.6
37°	1180.4	1170.1	1134.0	1077.8	996.5	896.4	769.7	631.0	489.3	365.3	23.1
38°	1232.2	1211.4	1175.8	1122.0	1042.2	948.2	818.1	673.7	523.7	390.6	22.3
39°	1268.1	1246.5	1210.1	1156.6	1078.5	985.2	856.4	710.0	553.6	409.5	21.4
40°	1295.1	1274.2	1237.4	1182.4	1105.3	1014.5	888.3	742.2	578.7	426.0	20.1
41°	1311.8	1292.4	1255.8	1201.1	1123.7	1031.2	909.1	763.1	595.6	437.0	18.9
42°	1325.8	1305.9	1268.6	1212.6	1135.0	1045.4	921.9	776.3	607.2	442.7	17.9
43°	1333.6	1313.7	1277.4	1220.2	1141.9	1052.0	928.8	782.5	611.1	441.9	16.2
44°	1338.0	1317.4	1280.8	1223.6	1144.8	1053.7	929.3	781.2	608.4	436.0	14.7
45°	1333.1	1312.8	1277.4	1220.2	1139.7	1048.3	924.4	774.6	598.1	424.5	13.0
46°	1301.2	1285.5	1253.1	1200.6	1123.5	1034.6	911.8	761.8	582.1	410.3	11.0
47°	1245.0	1232.5	1201.1	1162.0	1092.3	1009.3	888.8	737.5	559.8	388.9	8.8
48°	1186.3	1167.9	1138.7	1098.7	1039.7	963.9	850.7	701.9	525.9	360.9	7.9
49°	1099.7	1088.9	1063.1	1018.4	969.5	902.8	796.9	656.3	484.4	330.5	6.9
50°	1020.1	1012.7	976.7	943.8	892.0	829.6	724.0	596.1	432.8	292.7	6.1
51°	958.0	949.2	923.1	882.1	826.9	754.5	655.0	518.0	373.7	247.7	4.9
52°	893.2	888.3	865.2	823.0	768.7	696.5	588.0	451.7	316.2	209.4	3.9
53°	840.1	833.0	804.8	767.2	708.6	633.9	515.3	390.1	267.9	176.0	3.4
54°	762.8	759.9	741.7	702.4	638.8	557.6	449.5	328.5	223.4	149.3	2.9
55°	680.6	670.7	652.3	621.1	562.7	486.9	373.4	272.3	180.7	125.7	2.2
56°	580.4	579.9	547.0	521.0	469.2	388.6	298.3	212.6	146.8	104.8	2.0
57°	484.6	469.2	437.5	411.7	356.0	294.9	221.5	159.3	114.9	84.9	1.5
58°	358.4	350.3	342.0	304.2	252.6	208.9	158.1	112.0	84.9	64.8	1.0
59°	243.3	243.1	233.2	204.5	174.8	130.1	98.7	76.1	58.4	47.6	0.7
60°	183.6	179.2	159.6	140.7	110.0	82.2	58.4	44.9	36.3	30.7	0.5
62.5°	64.3	66.8	58.7	48.6	37.1	30.4	23.3	18.9	15.5	12.5	0.0
65°	13.3	14.5	12.5	11.8	9.3	8.1	7.1	6.1	5.2	4.4	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°	1.7	1.5	1.5	1.5	1.2	1.2	1.2	1.2	1.0	1.0	0.2
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.2
72.5°	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
85°	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	14.2	14.2	14.2	14.2	14.2	14.2
2.5°	15.0	14.5	13.7	13.5	13.3	13.3
5°	14.7	13.7	13.0	12.3	12.0	12.0
7.5°	14.0	12.8	11.8	11.3	11.0	10.8
10°	13.3	11.5	10.6	10.1	10.1	10.1
12.5°	11.8	10.3	9.3	9.1	9.3	9.3
15°	10.6	8.8	8.3	8.3	8.6	8.8
17.5°	9.1	7.9	7.4	7.6	7.9	8.1
20°	8.1	6.6	6.6	6.9	7.6	7.6
22.5°	7.1	5.9	5.9	6.6	7.1	7.4
25°	6.4	5.2	5.4	6.1	6.9	7.1
27.5°	5.4	4.4	4.9	5.9	6.6	6.9
30°	4.7	3.9	4.7	5.6	6.4	6.9
31°	4.4	3.7	4.7	5.4	6.4	6.9
32°	3.9	3.7	4.4	5.4	6.4	6.6
33°	3.7	3.4	4.4	5.4	6.4	6.6
34°	3.4	3.2	4.2	5.4	6.4	6.6
35°	2.9	3.2	4.2	5.2	6.1	6.6
36°	2.7	2.9	4.2	5.2	6.1	6.6
37°	2.5	2.9	3.9	5.2	6.1	6.6
38°	2.2	2.7	3.9	5.2	6.1	6.6
39°	2.0	2.7	3.7	5.2	6.1	6.6
40°	1.7	2.5	3.7	4.9	6.1	6.6
41°	1.7	2.5	3.7	4.9	6.1	6.6
42°	1.5	2.5	3.7	4.9	6.1	6.6
43°	1.2	2.2	3.7	4.9	6.1	6.6
44°	1.0	2.2	3.4	4.9	6.1	6.6
45°	1.0	2.2	3.4	4.9	6.1	6.6
46°	0.7	2.0	3.4	4.9	6.1	6.6
47°	0.5	2.0	3.4	4.7	6.1	6.6
48°	0.5	2.0	3.4	4.7	6.1	6.6
49°	0.5	2.0	3.2	4.7	6.1	6.6
50°	0.5	2.0	3.2	4.7	6.1	6.6
51°	0.2	1.7	3.2	4.7	6.1	6.6
52°	0.2	1.7	3.2	4.7	6.1	6.9
53°	0.2	1.7	3.2	4.7	6.1	6.6
54°	0.2	1.7	2.9	4.7	6.1	6.6
55°	0.2	1.7	2.9	4.7	6.1	6.6
56°	0.2	1.5	2.9	4.4	6.1	6.6
57°	0.5	1.5	2.9	4.4	6.1	6.4
58°	0.5	1.5	2.9	4.4	5.9	6.4
59°	0.5	1.5	2.9	4.4	5.9	6.4
60°	0.5	1.5	2.7	4.4	5.9	6.4
62.5°	0.5	1.5	2.7	4.2	5.6	6.1
65°	0.5	1.5	2.5	3.9	5.6	5.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.5	1.2	2.5	3.7	5.4	5.6
70°	0.7	1.2	2.2	3.7	5.2	5.4
72.5°	0.7	1.2	2.2	3.2	4.7	5.2
75°	0.7	1.2	2.0	2.9	4.4	4.7
77.5°	0.7	1.2	1.7	2.7	3.9	4.2
80°	1.0	1.2	1.5	2.2	3.4	3.7
82.5°	1.0	1.2	1.2	1.7	2.7	2.9
85°	0.7	1.0	1.0	1.2	1.7	2.0
87.5°	0.7	1.0	0.7	0.5	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)