

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: P1337442

Luminaire Tested: P3A05R259740DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337442
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: P3A05R259740DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 97CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

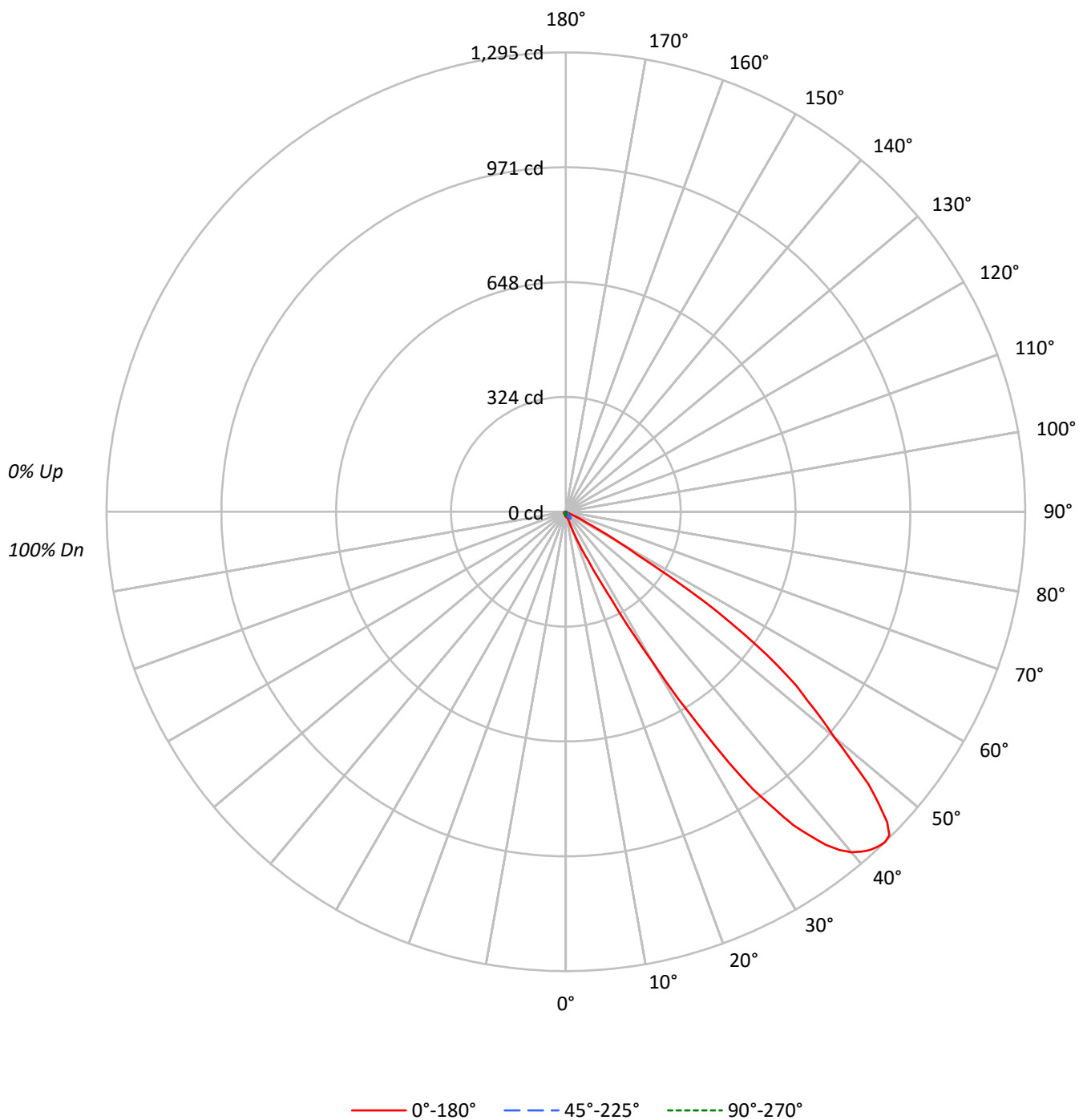
Lumens per Lamp: N/A
Luminaire Lumens: 270.0 lumens
Efficiency: N/A
Efficacy: 37.5 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73	73
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61	61
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42	42
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35	35
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29	29
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25	25
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21	21
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3026	3026	3026	3026	3026
5°	3456	3302	2928	2619	2553
10°	3429	3117	2494	2160	2160
15°	3837	2701	1952	1839	1952
20°	13535	2660	1493	1563	1727
25°	38930	3387	1210	1428	1669
30°	124171	5241	962	1393	1696
35°	271975	6157	830	1338	1713
40°	358758	5582	687	1374	1832
45°	400073	3907	651	1489	1985
50°	336774	2013	648	1535	2183
55°	251786	803	650	1720	2447
60°	77932	219	614	1886	2719
65°	6641	0	726	1972	2958
70°	449	128	769	2308	3334
75°	424	169	1017	2457	3813
80°	253	253	1515	2652	4546
85°	503	503	2516	3019	4780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 400073 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	3.2	1.2
20°-30°	14.9	5.5
30°-40°	71.9	26.6
40°-50°	112.7	41.8
50°-60°	57.8	21.4
60°-70°	5.5	2.0
70°-80°	1.8	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°	19.4	7.2
0°-40°	91.3	33.8
0°-60°	261.8	97.0
0°-90°	270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	270.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	16	15	13	12	12	1
15°	17	12	9	8	9	7
25°	161	14	5	6	7	100
35°	1016	23	3	5	6	617
45°	1290	13	2	5	6	944
55°	659	2	2	4	6	548
65°	13	0	1	4	6	40
75°	0	0	1	3	4	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°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
2.5°	15.0	15.0	15.0	15.0	15.0	15.0	14.7	14.7	15.0	14.7	14.7
5°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.4	15.4	15.4	15.0
7.5°	15.9	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.4	15.4	14.7
10°	15.4	15.4	15.4	15.4	15.2	15.2	15.2	15.0	15.0	15.0	14.0
12.5°	15.4	15.4	15.4	15.4	15.2	15.2	15.0	15.0	14.7	14.5	12.8
15°	16.9	16.9	16.9	16.6	16.4	16.2	15.9	15.7	15.4	15.0	11.9
17.5°	24.7	24.0	23.8	22.8	21.6	20.4	19.5	18.5	17.6	16.9	11.4
20°	58.0	57.7	56.5	53.7	50.6	47.0	43.5	39.4	33.7	29.9	11.4
22.5°	100.5	99.1	96.9	94.8	89.3	82.9	76.3	68.7	61.3	53.5	12.1
25°	160.9	164.2	157.0	151.3	141.8	130.2	117.6	107.2	93.8	81.5	14.0
27.5°	279.6	281.8	267.8	249.2	227.1	202.7	178.9	161.1	138.8	118.3	17.6
30°	490.4	492.5	469.0	429.6	384.0	343.8	289.4	241.6	197.7	163.7	20.7
31°	612.0	595.4	568.1	529.8	472.1	411.5	346.2	288.4	232.8	188.2	21.6
32°	717.8	716.3	684.5	626.5	568.6	493.7	412.7	337.4	269.2	212.9	22.3
33°	842.5	833.0	788.1	733.5	656.7	581.4	476.9	390.8	306.5	240.4	22.8
34°	942.5	916.9	898.3	835.9	754.8	658.8	546.9	447.4	353.1	267.1	23.0
35°	1016.0	1010.5	974.4	916.2	833.7	735.6	622.5	506.1	392.0	297.9	23.0
36°	1093.6	1076.8	1041.6	988.9	908.6	807.1	680.2	556.9	437.4	325.7	22.8
37°	1142.4	1132.4	1097.4	1043.0	964.4	867.5	744.9	610.6	473.5	353.5	22.3
38°	1192.5	1172.3	1137.8	1085.8	1008.6	917.6	791.7	652.0	506.8	378.0	21.6
39°	1227.2	1206.3	1171.1	1119.3	1043.7	953.5	828.7	687.1	535.8	396.3	20.7
40°	1253.3	1233.1	1197.5	1144.3	1069.6	981.7	859.6	718.2	560.0	412.2	19.5
41°	1269.5	1250.7	1215.3	1162.3	1087.5	997.9	879.8	738.4	576.4	422.9	18.3
42°	1283.0	1263.8	1227.6	1173.5	1098.4	1011.7	892.2	751.3	587.6	428.4	17.3
43°	1290.6	1271.4	1236.2	1180.8	1105.0	1018.1	898.8	757.2	591.4	427.7	15.7
44°	1294.9	1274.9	1239.5	1184.2	1107.9	1019.8	899.3	756.0	588.8	422.0	14.3
45°	1290.1	1270.4	1236.2	1180.8	1102.9	1014.5	894.5	749.6	578.8	410.8	12.6
46°	1259.2	1244.0	1212.7	1161.8	1087.2	1001.2	882.4	737.3	563.3	397.0	10.7
47°	1204.8	1192.7	1162.3	1124.5	1057.1	976.7	860.1	713.7	541.7	376.3	8.6
48°	1148.1	1130.2	1102.0	1063.2	1006.2	932.8	823.3	679.3	508.9	349.3	7.6
49°	1064.2	1053.7	1028.8	985.5	938.3	873.6	771.2	635.1	468.8	319.8	6.7
50°	987.2	980.1	945.1	913.3	863.2	802.8	700.7	576.9	418.9	283.2	5.9
51°	927.1	918.5	893.4	853.7	800.2	730.1	633.9	501.3	361.6	239.7	4.8
52°	864.4	859.6	837.3	796.4	743.9	674.1	569.0	437.2	306.0	202.7	3.8
53°	813.0	806.2	778.8	742.5	685.7	613.5	498.7	377.5	259.2	170.4	3.3
54°	738.2	735.4	717.8	679.8	618.2	539.6	435.0	317.9	216.2	144.5	2.9
55°	658.6	649.1	631.3	601.1	544.6	471.1	361.4	263.5	174.9	121.6	2.1
56°	561.7	561.2	529.4	504.2	454.0	376.1	288.7	205.8	142.1	101.5	1.9
57°	469.0	454.0	423.4	398.4	344.5	285.3	214.3	154.2	111.2	82.2	1.4
58°	346.9	339.0	331.0	294.4	244.5	202.2	153.0	108.3	82.2	62.7	1.0
59°	235.5	235.2	225.7	197.9	169.2	125.9	95.5	73.7	56.5	46.1	0.7
60°	177.7	173.4	154.4	136.1	106.4	79.6	56.5	43.5	35.2	29.7	0.5
62.5°	62.2	64.6	56.8	47.0	35.9	29.5	22.6	18.3	15.0	12.1	0.0
65°	12.8	14.0	12.1	11.4	9.0	7.8	6.9	5.9	5.0	4.3	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	1.4	1.4	1.4	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°	13.8	13.8	13.8	13.8	13.8	13.8
2.5°	14.5	14.0	13.3	13.1	12.8	12.8
5°	14.3	13.3	12.6	11.9	11.6	11.6
7.5°	13.5	12.4	11.4	10.9	10.7	10.5
10°	12.8	11.2	10.2	9.7	9.7	9.7
12.5°	11.4	10.0	9.0	8.8	9.0	9.0
15°	10.2	8.6	8.1	8.1	8.3	8.6
17.5°	8.8	7.6	7.1	7.4	7.6	7.8
20°	7.8	6.4	6.4	6.7	7.4	7.4
22.5°	6.9	5.7	5.7	6.4	6.9	7.1
25°	6.2	5.0	5.2	5.9	6.7	6.9
27.5°	5.2	4.3	4.8	5.7	6.4	6.7
30°	4.5	3.8	4.5	5.5	6.2	6.7
31°	4.3	3.6	4.5	5.2	6.2	6.7
32°	3.8	3.6	4.3	5.2	6.2	6.4
33°	3.6	3.3	4.3	5.2	6.2	6.4
34°	3.3	3.1	4.0	5.2	6.2	6.4
35°	2.9	3.1	4.0	5.0	5.9	6.4
36°	2.6	2.9	4.0	5.0	5.9	6.4
37°	2.4	2.9	3.8	5.0	5.9	6.4
38°	2.1	2.6	3.8	5.0	5.9	6.4
39°	1.9	2.6	3.6	5.0	5.9	6.4
40°	1.7	2.4	3.6	4.8	5.9	6.4
41°	1.7	2.4	3.6	4.8	5.9	6.4
42°	1.4	2.4	3.6	4.8	5.9	6.4
43°	1.2	2.1	3.6	4.8	5.9	6.4
44°	1.0	2.1	3.3	4.8	5.9	6.4
45°	1.0	2.1	3.3	4.8	5.9	6.4
46°	0.7	1.9	3.3	4.8	5.9	6.4
47°	0.5	1.9	3.3	4.5	5.9	6.4
48°	0.5	1.9	3.3	4.5	5.9	6.4
49°	0.5	1.9	3.1	4.5	5.9	6.4
50°	0.5	1.9	3.1	4.5	5.9	6.4
51°	0.2	1.7	3.1	4.5	5.9	6.4
52°	0.2	1.7	3.1	4.5	5.9	6.7
53°	0.2	1.7	3.1	4.5	5.9	6.4
54°	0.2	1.7	2.9	4.5	5.9	6.4
55°	0.2	1.7	2.9	4.5	5.9	6.4
56°	0.2	1.4	2.9	4.3	5.9	6.4
57°	0.5	1.4	2.9	4.3	5.9	6.2
58°	0.5	1.4	2.9	4.3	5.7	6.2
59°	0.5	1.4	2.9	4.3	5.7	6.2
60°	0.5	1.4	2.6	4.3	5.7	6.2
62.5°	0.5	1.4	2.6	4.0	5.5	5.9
65°	0.5	1.4	2.4	3.8	5.5	5.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.5	1.2	2.4	3.6	5.2	5.5
70°	0.7	1.2	2.1	3.6	5.0	5.2
72.5°	0.7	1.2	2.1	3.1	4.5	5.0
75°	0.7	1.2	1.9	2.9	4.3	4.5
77.5°	0.7	1.2	1.7	2.6	3.8	4.0
80°	1.0	1.2	1.4	2.1	3.3	3.6
82.5°	1.0	1.2	1.2	1.7	2.6	2.9
85°	0.7	1.0	1.0	1.2	1.7	1.9
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)