

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: P1337322

Luminaire Tested: P3A05R259030D2WDE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337322
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: P3A05R259030D2WDE010 E3A451WMH
Description: 3in Adjustable Dim to Warm LED luminaire with, R25 optic, 3000K CCT AND, 90CRI ,
E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

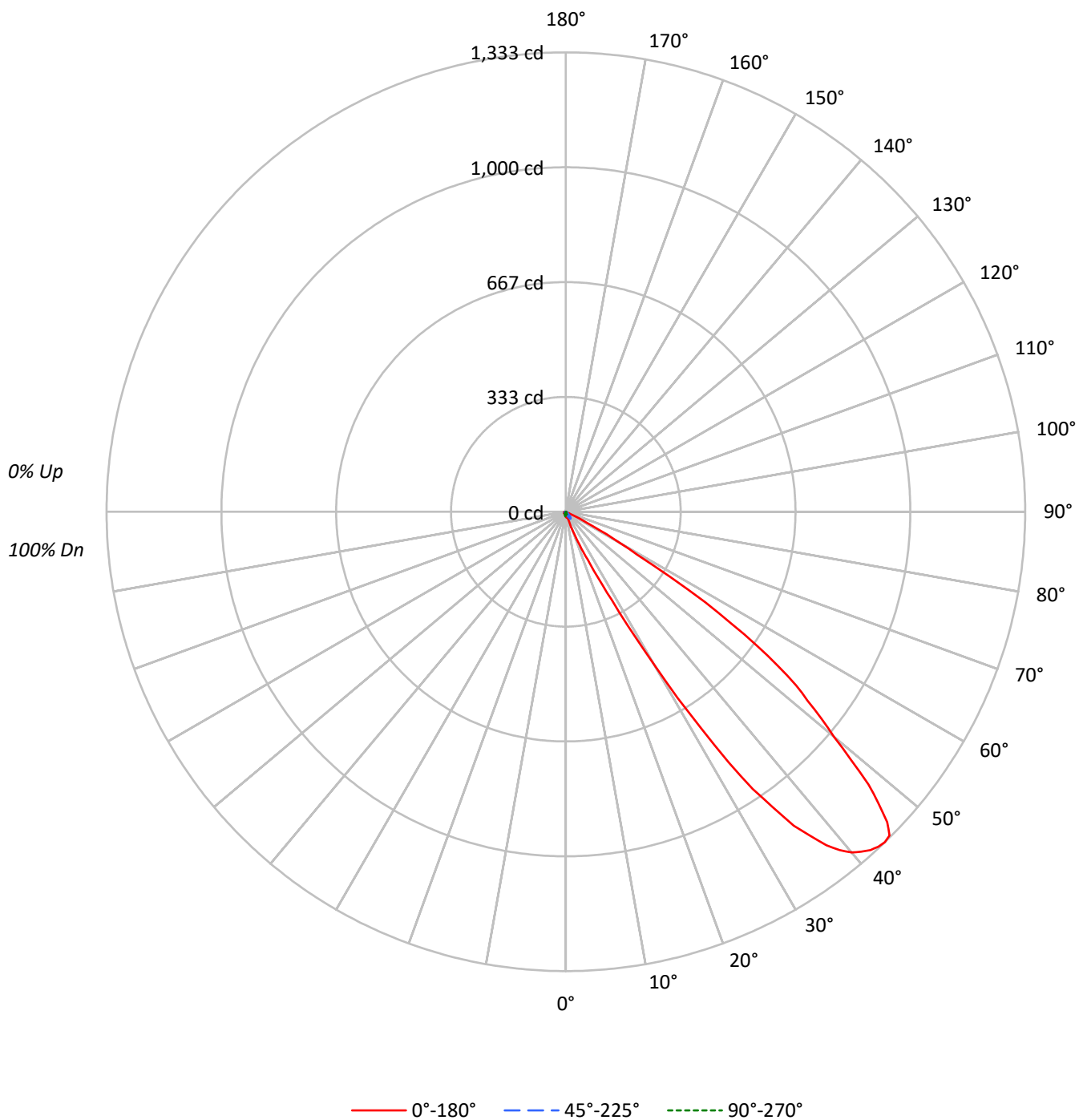
Lumens per Lamp: N/A
Luminaire Lumens: 278.0 lumens
Efficiency: N/A
Efficacy: 25.0 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	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°	3544	3390	3016	2685	2641
10°	3540	3206	2561	2227	2227
15°	3950	2770	1998	1884	1998
20°	13931	2730	1540	1587	1773
25°	40067	3484	1234	1476	1718
30°	127842	5393	987	1418	1722
35°	280033	6344	857	1365	1767
40°	369378	5754	687	1403	1889
45°	411950	4031	682	1520	2047
50°	346769	2081	682	1569	2252
55°	259240	841	650	1759	2523
60°	80257	219	658	1930	2807
65°	6849	0	778	2024	3061
70°	449	128	769	2372	3462
75°	424	169	1017	2457	3897
80°	253	253	1515	2778	4672
85°	503	503	2516	3019	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 411950 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°	74.0	26.6
40°-50°	116.1	41.8
50°-60°	59.5	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°	19.9	7.2
0°-40°	94.0	33.8
0°-60°	269.5	97.0
0°-90°	278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	278.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	16	15	14	12	12	2
15°	17	12	9	8	9	7
25°	166	14	5	6	7	103
35°	1046	24	3	5	7	635
45°	1328	13	2	5	7	972
55°	678	2	2	5	7	565
65°	13	0	2	4	6	41
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°	15.4	15.4	15.4	15.4	15.4	15.4	15.2	15.2	15.4	15.2	15.2
5°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	15.9	15.9	15.9	15.4
7.5°	16.4	16.1	16.1	16.1	16.1	16.1	16.1	16.1	15.9	15.9	15.2
10°	15.9	15.9	15.9	15.9	15.7	15.7	15.7	15.4	15.4	15.4	14.4
12.5°	15.9	15.9	15.9	15.9	15.7	15.7	15.4	15.4	15.2	14.9	13.2
15°	17.4	17.4	17.4	17.1	16.9	16.6	16.4	16.1	15.9	15.4	12.2
17.5°	25.4	24.7	24.5	23.5	22.3	21.0	20.1	19.1	18.1	17.4	11.7
20°	59.7	59.4	58.2	55.3	52.1	48.4	44.8	40.6	34.7	30.8	11.7
22.5°	103.5	102.0	99.8	97.6	92.0	85.4	78.5	70.7	63.1	55.0	12.5
25°	165.6	169.0	161.7	155.8	146.0	134.1	121.1	110.3	96.6	83.9	14.4
27.5°	287.9	290.1	275.7	256.6	233.9	208.7	184.2	165.9	142.9	121.8	18.1
30°	504.9	507.1	482.9	442.3	395.3	354.0	298.0	248.8	203.5	168.6	21.3
31°	630.2	613.1	584.9	545.5	486.1	423.7	356.4	297.0	239.7	193.7	22.3
32°	739.0	737.6	704.8	645.1	585.4	508.3	424.9	347.4	277.2	219.2	23.0
33°	867.5	857.7	811.4	755.2	676.2	598.6	491.0	402.4	315.6	247.6	23.5
34°	970.5	944.0	925.0	860.6	777.2	678.4	563.1	460.6	363.5	275.0	23.7
35°	1046.1	1040.4	1003.2	943.3	858.4	757.4	640.9	521.1	403.6	306.8	23.7
36°	1126.0	1108.7	1072.5	1018.2	935.5	831.0	700.4	573.4	450.4	335.4	23.5
37°	1176.2	1165.9	1130.0	1073.9	993.0	893.2	766.9	628.7	487.6	364.0	23.0
38°	1227.8	1207.0	1171.5	1118.0	1038.5	944.8	815.1	671.3	521.8	389.2	22.3
39°	1263.5	1242.0	1205.8	1152.5	1074.7	981.7	853.3	707.5	551.6	408.0	21.3
40°	1290.4	1269.6	1233.0	1178.2	1101.3	1010.8	885.1	739.5	576.6	424.4	20.1
41°	1307.1	1287.8	1251.3	1196.7	1119.7	1027.5	905.9	760.3	593.5	435.4	18.8
42°	1321.0	1301.2	1264.0	1208.2	1130.9	1041.6	918.6	773.5	605.0	441.1	17.9
43°	1328.8	1309.0	1272.8	1215.8	1137.8	1048.3	925.4	779.6	608.9	440.3	16.1
44°	1333.3	1312.7	1276.3	1219.3	1140.7	1050.0	925.9	778.4	606.2	434.5	14.7
45°	1328.4	1308.1	1272.8	1215.8	1135.6	1044.6	921.0	771.8	595.9	423.0	13.0
46°	1296.6	1280.9	1248.6	1196.3	1119.4	1030.9	908.6	759.1	580.0	408.8	11.0
47°	1240.5	1228.1	1196.7	1157.9	1088.4	1005.7	885.6	734.9	557.8	387.5	8.8
48°	1182.1	1163.7	1134.6	1094.7	1036.0	960.4	847.7	699.4	524.0	359.6	7.8
49°	1095.7	1084.9	1059.3	1014.7	966.1	899.5	794.1	653.9	482.7	329.3	6.8
50°	1016.5	1009.1	973.2	940.4	888.8	826.6	721.4	594.0	431.3	291.6	6.1
51°	954.6	945.8	919.8	879.0	823.9	751.8	652.7	516.2	372.3	246.8	4.9
52°	890.0	885.1	862.1	820.0	765.9	694.0	585.9	450.1	315.1	208.7	3.9
53°	837.1	830.0	801.9	764.5	706.0	631.6	513.5	388.7	266.9	175.4	3.4
54°	760.1	757.1	739.0	699.9	636.5	555.6	447.9	327.3	222.6	148.7	2.9
55°	678.1	668.3	650.0	618.9	560.7	485.1	372.1	271.3	180.1	125.3	2.2
56°	578.3	577.8	545.0	519.1	467.5	387.3	297.2	211.9	146.3	104.5	2.0
57°	482.9	467.5	435.9	410.3	354.7	293.8	220.7	158.8	114.5	84.6	1.5
58°	357.2	349.1	340.8	303.1	251.7	208.2	157.5	111.6	84.6	64.6	1.0
59°	242.4	242.2	232.4	203.8	174.2	129.7	98.3	75.8	58.2	47.5	0.7
60°	183.0	178.6	159.0	140.2	109.6	82.0	58.2	44.8	36.2	30.6	0.5
62.5°	64.1	66.5	58.5	48.4	36.9	30.3	23.2	18.8	15.4	12.5	0.0
65°	13.2	14.4	12.5	11.7	9.3	8.1	7.1	6.1	5.1	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°	14.9	14.4	13.7	13.5	13.2	13.2
5°	14.7	13.7	13.0	12.2	12.0	12.0
7.5°	13.9	12.7	11.7	11.3	11.0	10.8
10°	13.2	11.5	10.5	10.0	10.0	10.0
12.5°	11.7	10.3	9.3	9.1	9.3	9.3
15°	10.5	8.8	8.3	8.3	8.6	8.8
17.5°	9.1	7.8	7.3	7.6	7.8	8.1
20°	8.1	6.6	6.6	6.8	7.6	7.6
22.5°	7.1	5.9	5.9	6.6	7.1	7.3
25°	6.4	5.1	5.4	6.1	6.8	7.1
27.5°	5.4	4.4	4.9	5.9	6.6	6.8
30°	4.6	3.9	4.6	5.6	6.4	6.8
31°	4.4	3.7	4.6	5.4	6.4	6.8
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	5.1	6.1	6.6
36°	2.7	2.9	4.2	5.1	6.1	6.6
37°	2.4	2.9	3.9	5.1	6.1	6.6
38°	2.2	2.7	3.9	5.1	6.1	6.6
39°	2.0	2.7	3.7	5.1	6.1	6.6
40°	1.7	2.4	3.7	4.9	6.1	6.6
41°	1.7	2.4	3.7	4.9	6.1	6.6
42°	1.5	2.4	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	4.6	6.1	6.6
48°	0.5	2.0	3.4	4.6	6.1	6.6
49°	0.5	2.0	3.2	4.6	6.1	6.6
50°	0.5	2.0	3.2	4.6	6.1	6.6
51°	0.2	1.7	3.2	4.6	6.1	6.6
52°	0.2	1.7	3.2	4.6	6.1	6.8
53°	0.2	1.7	3.2	4.6	6.1	6.6
54°	0.2	1.7	2.9	4.6	6.1	6.6
55°	0.2	1.7	2.9	4.6	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	2.4	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	2.4	3.7	5.4	5.6
70°	0.7	1.2	2.2	3.7	5.1	5.4
72.5°	0.7	1.2	2.2	3.2	4.6	5.1
75°	0.7	1.2	2.0	2.9	4.4	4.6
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)