

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: P1337306

Luminaire Tested: P3A05R259027DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337306
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: P3A05R259027DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

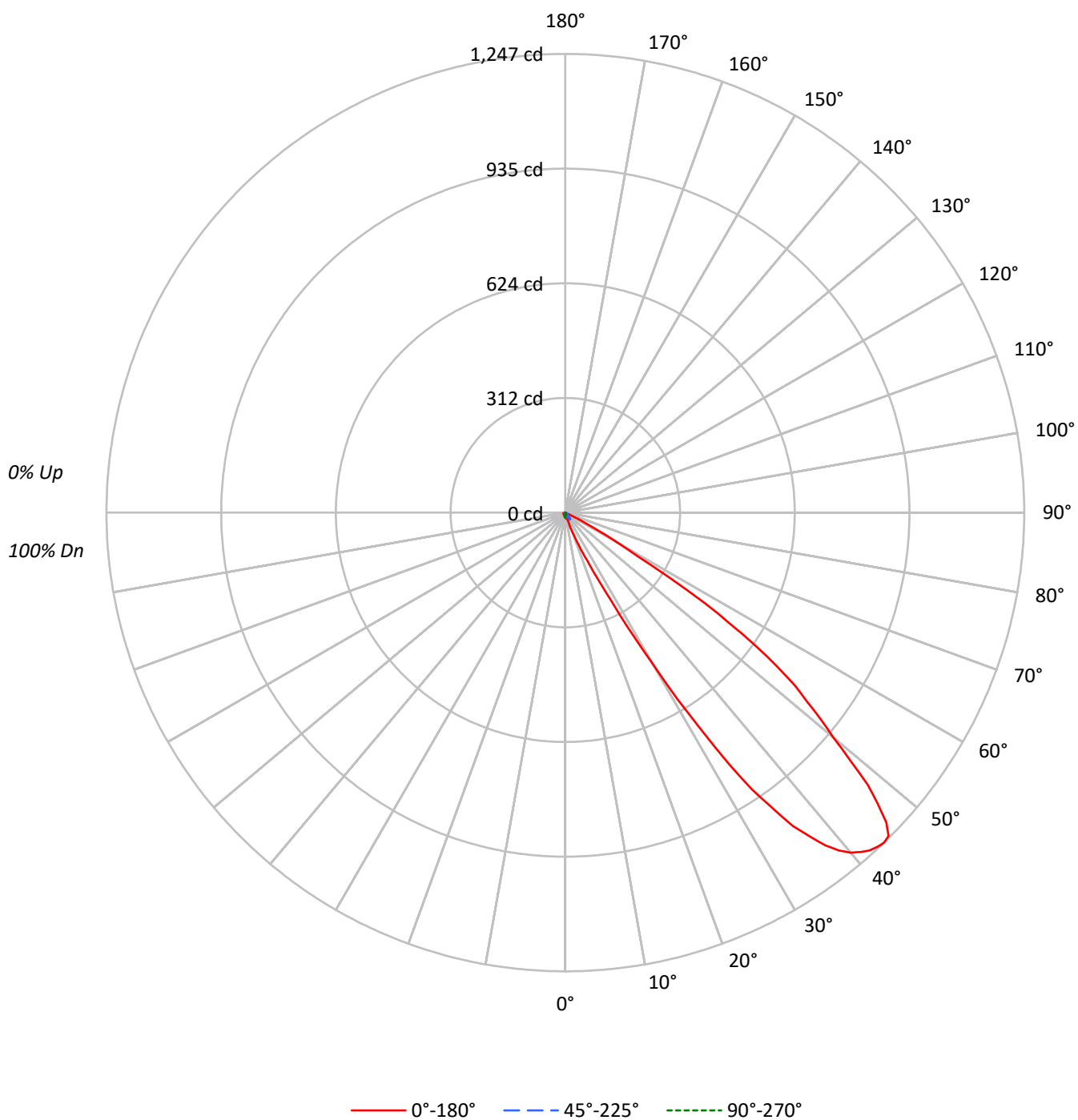
Lumens per Lamp: N/A
Luminaire Lumens: 260.0 lumens
Efficiency: N/A
Efficacy: 36.1 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			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°	2916	2916	2916	2916	2916
5°	3324	3170	2818	2509	2465
10°	3318	3006	2405	2093	2093
15°	3678	2588	1862	1771	1862
20°	13021	2567	1447	1493	1657
25°	37478	3266	1161	1379	1597
30°	119563	5039	937	1342	1621
35°	261883	5943	803	1285	1660
40°	345476	5382	658	1317	1775
45°	385280	3752	651	1427	1923
50°	324288	1944	614	1467	2115
55°	242457	803	612	1644	2370
60°	75038	219	614	1798	2588
65°	6434	0	726	1920	2854
70°	449	128	705	2180	3206
75°	424	169	932	2288	3643
80°	253	253	1389	2652	4293
85°	503	503	2264	2768	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 385280 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	3.1	1.2
20°-30°	14.4	5.5
30°-40°	69.3	26.6
40°-50°	108.6	41.8
50°-60°	55.6	21.4
60°-70°	5.3	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°	18.6	7.2
0°-40°	87.9	33.8
0°-60°	252.1	97.0
0°-90°	260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	260.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	15	14	13	11	11	1
15°	16	11	8	8	8	7
25°	155	14	5	6	7	96
35°	978	22	3	5	6	594
45°	1242	12	2	5	6	909
55°	634	2	2	4	6	528
65°	12	0	1	4	6	39
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°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
2.5°	14.4	14.4	14.4	14.4	14.4	14.4	14.2	14.2	14.4	14.2	14.2
5°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	14.9	14.9	14.9	14.4
7.5°	15.3	15.1	15.1	15.1	15.1	15.1	15.1	15.1	14.9	14.9	14.2
10°	14.9	14.9	14.9	14.9	14.6	14.6	14.6	14.4	14.4	14.4	13.5
12.5°	14.9	14.9	14.9	14.9	14.6	14.6	14.4	14.4	14.2	14.0	12.4
15°	16.2	16.2	16.2	16.0	15.8	15.6	15.3	15.1	14.9	14.4	11.4
17.5°	23.8	23.1	22.9	22.0	20.8	19.7	18.8	17.8	16.9	16.2	11.0
20°	55.8	55.6	54.5	51.7	48.7	45.3	41.9	38.0	32.5	28.8	11.0
22.5°	96.8	95.4	93.3	91.3	86.0	79.8	73.4	66.1	59.0	51.5	11.7
25°	154.9	158.1	151.2	145.7	136.6	125.4	113.3	103.2	90.4	78.5	13.5
27.5°	269.3	271.3	257.9	240.0	218.7	195.2	172.3	155.1	133.6	113.9	16.9
30°	472.2	474.3	451.6	413.7	369.7	331.1	278.7	232.7	190.4	157.6	19.9
31°	589.4	573.4	547.0	510.2	454.6	396.3	333.4	277.8	224.2	181.2	20.8
32°	691.2	689.8	659.2	603.3	547.5	475.4	397.4	324.9	259.2	205.0	21.5
33°	811.3	802.2	758.9	706.3	632.4	559.9	459.2	376.4	295.1	231.5	22.0
34°	907.6	882.9	865.1	804.9	726.9	634.4	526.7	430.8	340.0	257.2	22.2
35°	978.3	973.1	938.3	882.2	802.8	708.3	599.4	487.3	377.5	286.9	22.2
36°	1053.1	1036.9	1003.0	952.2	874.9	777.2	655.0	536.3	421.2	313.7	22.0
37°	1100.0	1090.4	1056.8	1004.4	928.7	835.3	717.3	588.0	456.0	340.4	21.5
38°	1148.3	1128.9	1095.7	1045.6	971.2	883.6	762.3	627.8	488.0	364.0	20.8
39°	1181.7	1161.6	1127.7	1077.8	1005.1	918.1	798.0	661.7	515.9	381.6	19.9
40°	1206.9	1187.4	1153.1	1101.9	1030.0	945.4	827.8	691.6	539.3	397.0	18.8
41°	1222.4	1204.4	1170.3	1119.3	1047.2	960.9	847.2	711.1	555.1	407.3	17.6
42°	1235.5	1217.0	1182.2	1130.0	1057.7	974.2	859.1	723.4	565.8	412.5	16.7
43°	1242.8	1224.3	1190.4	1137.1	1064.1	980.4	865.5	729.2	569.5	411.8	15.1
44°	1246.9	1227.7	1193.6	1140.3	1066.9	982.0	866.0	728.0	567.0	406.3	13.7
45°	1242.4	1223.4	1190.4	1137.1	1062.1	976.9	861.4	721.8	557.3	395.6	12.1
46°	1212.6	1198.0	1167.8	1118.8	1047.0	964.1	849.7	709.9	542.5	382.3	10.3
47°	1160.2	1148.5	1119.3	1082.9	1017.9	940.6	828.2	687.3	521.7	362.4	8.2
48°	1105.5	1088.4	1061.1	1023.9	968.9	898.2	792.8	654.1	490.1	336.3	7.3
49°	1024.8	1014.7	990.7	949.0	903.5	841.3	742.7	611.6	451.4	308.0	6.4
50°	950.6	943.8	910.1	879.5	831.2	773.1	674.7	555.5	403.4	272.7	5.7
51°	892.8	884.5	860.3	822.1	770.6	703.1	610.4	482.8	348.2	230.9	4.6
52°	832.4	827.8	806.3	766.9	716.4	649.1	548.0	421.0	294.7	195.2	3.7
53°	782.9	776.3	750.0	715.0	660.3	590.7	480.2	363.6	249.6	164.0	3.2
54°	710.9	708.1	691.2	654.6	595.3	519.6	418.9	306.1	208.2	139.1	2.7
55°	634.2	625.1	607.9	578.8	524.4	453.7	348.0	253.7	168.4	117.1	2.1
56°	540.9	540.4	509.8	485.5	437.2	362.2	278.0	198.1	136.8	97.7	1.8
57°	451.6	437.2	407.7	383.7	331.8	274.8	206.4	148.5	107.1	79.2	1.4
58°	334.0	326.5	318.7	283.5	235.4	194.7	147.3	104.3	79.2	60.4	0.9
59°	226.7	226.5	217.4	190.6	162.9	121.3	92.0	70.9	54.5	44.4	0.7
60°	171.1	167.0	148.7	131.1	102.5	76.6	54.5	41.9	33.9	28.6	0.5
62.5°	59.9	62.2	54.7	45.3	34.5	28.4	21.7	17.6	14.4	11.7	0.0
65°	12.4	13.5	11.7	11.0	8.7	7.6	6.6	5.7	4.8	4.1	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°	1.6	1.4	1.4	1.4	1.1	1.1	1.1	1.1	0.9	0.9	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°	13.3	13.3	13.3	13.3	13.3	13.3
2.5°	14.0	13.5	12.8	12.6	12.4	12.4
5°	13.7	12.8	12.1	11.4	11.2	11.2
7.5°	13.0	11.9	11.0	10.5	10.3	10.1
10°	12.4	10.8	9.8	9.4	9.4	9.4
12.5°	11.0	9.6	8.7	8.5	8.7	8.7
15°	9.8	8.2	7.8	7.8	8.0	8.2
17.5°	8.5	7.3	6.9	7.1	7.3	7.6
20°	7.6	6.2	6.2	6.4	7.1	7.1
22.5°	6.6	5.5	5.5	6.2	6.6	6.9
25°	5.9	4.8	5.0	5.7	6.4	6.6
27.5°	5.0	4.1	4.6	5.5	6.2	6.4
30°	4.3	3.7	4.3	5.3	5.9	6.4
31°	4.1	3.4	4.3	5.0	5.9	6.4
32°	3.7	3.4	4.1	5.0	5.9	6.2
33°	3.4	3.2	4.1	5.0	5.9	6.2
34°	3.2	3.0	3.9	5.0	5.9	6.2
35°	2.7	3.0	3.9	4.8	5.7	6.2
36°	2.5	2.7	3.9	4.8	5.7	6.2
37°	2.3	2.7	3.7	4.8	5.7	6.2
38°	2.1	2.5	3.7	4.8	5.7	6.2
39°	1.8	2.5	3.4	4.8	5.7	6.2
40°	1.6	2.3	3.4	4.6	5.7	6.2
41°	1.6	2.3	3.4	4.6	5.7	6.2
42°	1.4	2.3	3.4	4.6	5.7	6.2
43°	1.1	2.1	3.4	4.6	5.7	6.2
44°	0.9	2.1	3.2	4.6	5.7	6.2
45°	0.9	2.1	3.2	4.6	5.7	6.2
46°	0.7	1.8	3.2	4.6	5.7	6.2
47°	0.5	1.8	3.2	4.3	5.7	6.2
48°	0.5	1.8	3.2	4.3	5.7	6.2
49°	0.5	1.8	3.0	4.3	5.7	6.2
50°	0.5	1.8	3.0	4.3	5.7	6.2
51°	0.2	1.6	3.0	4.3	5.7	6.2
52°	0.2	1.6	3.0	4.3	5.7	6.4
53°	0.2	1.6	3.0	4.3	5.7	6.2
54°	0.2	1.6	2.7	4.3	5.7	6.2
55°	0.2	1.6	2.7	4.3	5.7	6.2
56°	0.2	1.4	2.7	4.1	5.7	6.2
57°	0.5	1.4	2.7	4.1	5.7	5.9
58°	0.5	1.4	2.7	4.1	5.5	5.9
59°	0.5	1.4	2.7	4.1	5.5	5.9
60°	0.5	1.4	2.5	4.1	5.5	5.9
62.5°	0.5	1.4	2.5	3.9	5.3	5.7
65°	0.5	1.4	2.3	3.7	5.3	5.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.5	1.1	2.3	3.4	5.0	5.3
70°	0.7	1.1	2.1	3.4	4.8	5.0
72.5°	0.7	1.1	2.1	3.0	4.3	4.8
75°	0.7	1.1	1.8	2.7	4.1	4.3
77.5°	0.7	1.1	1.6	2.5	3.7	3.9
80°	0.9	1.1	1.4	2.1	3.2	3.4
82.5°	0.9	1.1	1.1	1.6	2.5	2.7
85°	0.7	0.9	0.9	1.1	1.6	1.8
87.5°	0.7	0.9	0.7	0.5	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)