

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: P1337350

Luminaire Tested: P3A05R259035DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337350
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: P3A05R259035DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

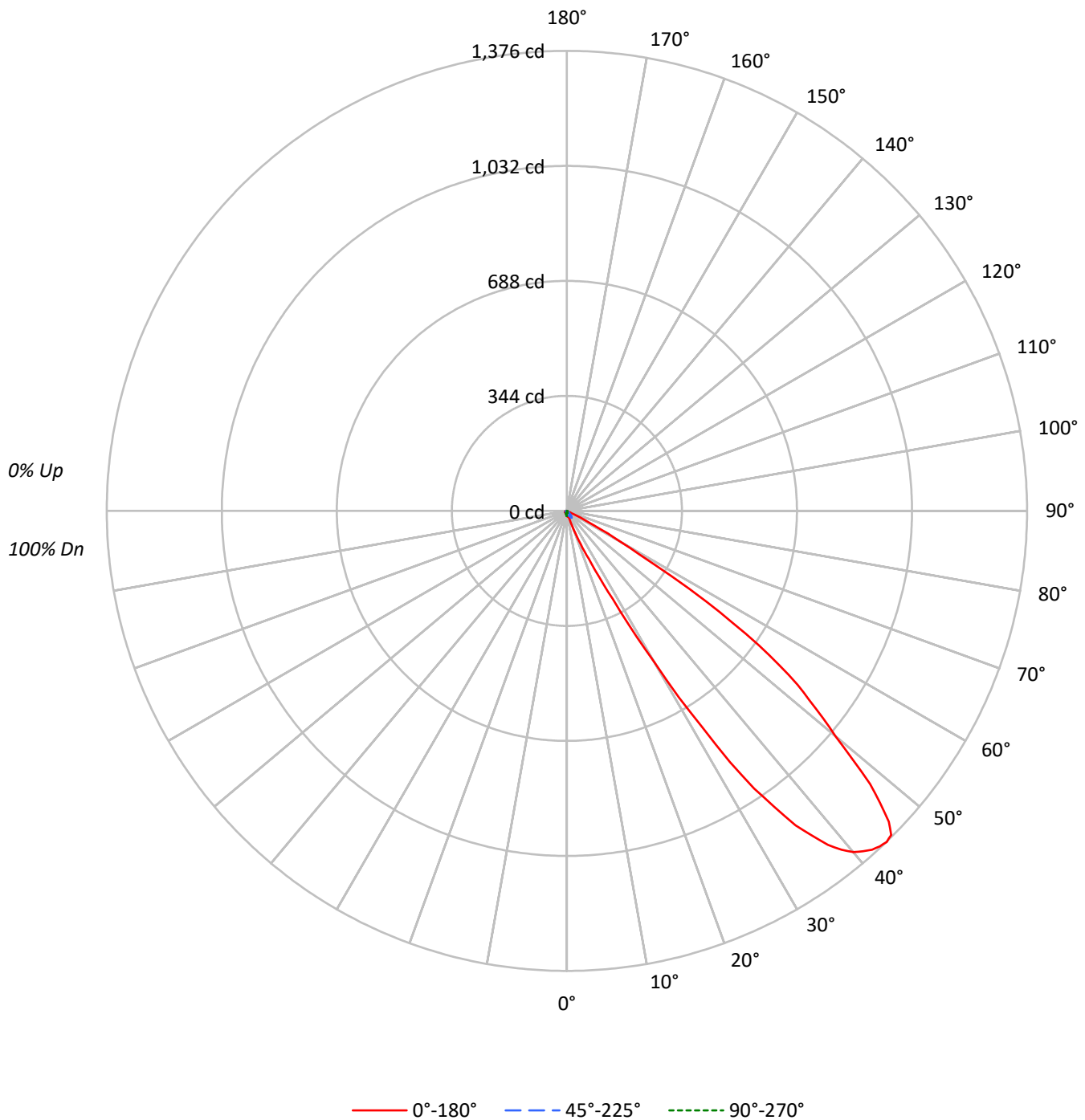
Lumens per Lamp: N/A
Luminaire Lumens: 287.0 lumens
Efficiency: N/A
Efficacy: 39.9 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	3201	3201	3201	3201	3201
5°	3676	3500	3104	2773	2729
10°	3652	3318	2650	2316	2316
15°	4064	2860	2066	1952	2066
20°	14375	2824	1587	1657	1820
25°	41373	3605	1282	1524	1766
30°	131995	5570	1013	1469	1798
35°	289081	6558	883	1419	1820
40°	381343	5925	716	1460	1947
45°	425284	4155	713	1582	2109
50°	357992	2149	682	1637	2320
55°	267651	879	688	1835	2600
60°	82844	219	658	1974	2895
65°	7057	0	778	2075	3165
70°	513	192	833	2436	3590
75°	424	254	1101	2542	4067
80°	379	379	1642	2904	4799
85°	755	755	2516	3271	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 425284 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.5
10°-20°	3.4	1.2
20°-30°	15.9	5.5
30°-40°	76.4	26.6
40°-50°	119.8	41.7
50°-60°	61.4	21.4
60°-70°	5.8	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°	20.6	7.2
0°-40°	97.0	33.8
0°-60°	278.3	96.9
0°-90°	287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	287.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	17	16	14	13	12	2
15°	18	13	9	9	9	8
25°	171	15	5	6	7	106
35°	1080	24	3	5	7	656
45°	1371	13	2	5	7	1003
55°	700	2	2	5	7	583
65°	14	0	2	4	6	43
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°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
2.5°	15.9	15.9	15.9	15.9	15.9	15.9	15.7	15.7	15.9	15.7	15.7
5°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.4	16.4	16.4	15.9
7.5°	16.9	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.4	16.4	15.7
10°	16.4	16.4	16.4	16.4	16.2	16.2	16.2	15.9	15.9	15.9	14.9
12.5°	16.4	16.4	16.4	16.4	16.2	16.2	15.9	15.9	15.7	15.4	13.6
15°	17.9	17.9	17.9	17.7	17.4	17.2	16.9	16.7	16.4	15.9	12.6
17.5°	26.3	25.5	25.3	24.2	23.0	21.7	20.7	19.7	18.7	17.9	12.1
20°	61.6	61.4	60.1	57.1	53.8	50.0	46.2	41.9	35.9	31.8	12.1
22.5°	106.8	105.3	103.0	100.8	95.0	88.1	81.1	73.0	65.2	56.8	12.9
25°	171.0	174.5	166.9	160.9	150.8	138.4	125.0	113.9	99.8	86.6	14.9
27.5°	297.3	299.5	284.6	264.9	241.4	215.4	190.2	171.2	147.5	125.8	18.7
30°	521.3	523.5	498.5	456.6	408.1	365.4	307.6	256.8	210.1	174.0	22.0
31°	650.6	632.9	603.9	563.2	501.8	437.4	368.0	306.6	247.5	200.0	23.0
32°	763.0	761.4	727.6	666.0	604.4	524.8	438.7	358.6	286.1	226.3	23.7
33°	895.6	885.5	837.7	779.6	698.1	618.0	506.9	415.5	325.8	255.6	24.2
34°	1001.9	974.6	954.9	888.5	802.4	700.3	581.4	475.6	375.3	283.9	24.5
35°	1079.9	1074.1	1035.7	973.8	886.2	781.9	661.7	537.9	416.7	316.7	24.5
36°	1162.5	1144.6	1107.2	1051.1	965.8	857.9	723.1	592.0	465.0	346.3	24.2
37°	1214.3	1203.7	1166.5	1108.7	1025.1	922.1	791.8	649.1	503.3	375.8	23.7
38°	1267.6	1246.1	1209.5	1154.2	1072.1	975.4	841.5	693.0	538.7	401.8	23.0
39°	1304.4	1282.2	1244.8	1189.8	1109.5	1013.5	880.9	730.4	569.5	421.3	22.0
40°	1332.2	1310.8	1272.9	1216.3	1137.0	1043.6	913.7	763.5	595.3	438.2	20.7
41°	1349.4	1329.4	1291.8	1235.5	1155.9	1060.7	935.2	784.9	612.7	449.5	19.4
42°	1363.8	1343.3	1304.9	1247.4	1167.6	1075.4	948.3	798.6	624.6	455.4	18.4
43°	1371.9	1351.4	1314.0	1255.2	1174.6	1082.2	955.4	804.9	628.6	454.6	16.7
44°	1376.4	1355.2	1317.6	1258.7	1177.7	1084.0	955.9	803.6	625.8	448.5	15.2
45°	1371.4	1350.4	1314.0	1255.2	1172.4	1078.4	950.9	796.8	615.2	436.7	13.4
46°	1338.5	1322.4	1289.0	1235.0	1155.7	1064.3	938.0	783.7	598.8	422.0	11.4
47°	1280.7	1267.8	1235.5	1195.3	1123.6	1038.2	914.2	758.7	575.8	400.0	9.1
48°	1220.3	1201.4	1171.3	1130.2	1069.6	991.5	875.1	722.0	541.0	371.3	8.1
49°	1131.2	1120.1	1093.6	1047.6	997.3	928.6	819.8	675.1	498.3	339.9	7.1
50°	1049.4	1041.8	1004.7	970.8	917.5	853.4	744.8	613.2	445.3	301.0	6.3
51°	985.5	976.4	949.6	907.4	850.6	776.1	673.8	532.9	384.4	254.8	5.1
52°	918.8	913.7	890.0	846.6	790.7	716.5	604.9	464.7	325.3	215.4	4.0
53°	864.2	856.9	827.9	789.2	728.9	652.1	530.1	401.3	275.5	181.1	3.5
54°	784.7	781.7	763.0	722.6	657.1	573.5	462.4	337.9	229.8	153.6	3.0
55°	700.1	690.0	671.0	639.0	578.9	500.8	384.1	280.1	185.9	129.3	2.3
56°	597.0	596.5	562.7	535.9	482.6	399.8	306.9	218.7	151.0	107.8	2.0
57°	498.5	482.6	450.0	423.5	366.2	303.3	227.8	163.9	118.2	87.4	1.5
58°	368.7	360.4	351.8	312.9	259.9	214.9	162.6	115.2	87.4	66.7	1.0
59°	250.3	250.0	239.9	210.4	179.8	133.9	101.5	78.3	60.1	49.0	0.8
60°	188.9	184.4	164.2	144.7	113.1	84.6	60.1	46.2	37.4	31.6	0.5
62.5°	66.2	68.7	60.4	50.0	38.1	31.3	24.0	19.4	15.9	12.9	0.0
65°	13.6	14.9	12.9	12.1	9.6	8.3	7.3	6.3	5.3	4.5	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	1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.0	1.0	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°	14.6	14.6	14.6	14.6	14.6	14.6
2.5°	15.4	14.9	14.1	13.9	13.6	13.6
5°	15.2	14.1	13.4	12.6	12.4	12.4
7.5°	14.4	13.1	12.1	11.6	11.4	11.1
10°	13.6	11.9	10.9	10.4	10.4	10.4
12.5°	12.1	10.6	9.6	9.3	9.6	9.6
15°	10.9	9.1	8.6	8.6	8.8	9.1
17.5°	9.3	8.1	7.6	7.8	8.1	8.3
20°	8.3	6.8	6.8	7.1	7.8	7.8
22.5°	7.3	6.1	6.1	6.8	7.3	7.6
25°	6.6	5.3	5.6	6.3	7.1	7.3
27.5°	5.6	4.5	5.1	6.1	6.8	7.1
30°	4.8	4.0	4.8	5.8	6.6	7.1
31°	4.5	3.8	4.8	5.6	6.6	7.1
32°	4.0	3.8	4.5	5.6	6.6	6.8
33°	3.8	3.5	4.5	5.6	6.6	6.8
34°	3.5	3.3	4.3	5.6	6.6	6.8
35°	3.0	3.3	4.3	5.3	6.3	6.8
36°	2.8	3.0	4.3	5.3	6.3	6.8
37°	2.5	3.0	4.0	5.3	6.3	6.8
38°	2.3	2.8	4.0	5.3	6.3	6.8
39°	2.0	2.8	3.8	5.3	6.3	6.8
40°	1.8	2.5	3.8	5.1	6.3	6.8
41°	1.8	2.5	3.8	5.1	6.3	6.8
42°	1.5	2.5	3.8	5.1	6.3	6.8
43°	1.3	2.3	3.8	5.1	6.3	6.8
44°	1.0	2.3	3.5	5.1	6.3	6.8
45°	1.0	2.3	3.5	5.1	6.3	6.8
46°	0.8	2.0	3.5	5.1	6.3	6.8
47°	0.5	2.0	3.5	4.8	6.3	6.8
48°	0.5	2.0	3.5	4.8	6.3	6.8
49°	0.5	2.0	3.3	4.8	6.3	6.8
50°	0.5	2.0	3.3	4.8	6.3	6.8
51°	0.3	1.8	3.3	4.8	6.3	6.8
52°	0.3	1.8	3.3	4.8	6.3	7.1
53°	0.3	1.8	3.3	4.8	6.3	6.8
54°	0.3	1.8	3.0	4.8	6.3	6.8
55°	0.3	1.8	3.0	4.8	6.3	6.8
56°	0.3	1.5	3.0	4.5	6.3	6.8
57°	0.5	1.5	3.0	4.5	6.3	6.6
58°	0.5	1.5	3.0	4.5	6.1	6.6
59°	0.5	1.5	3.0	4.5	6.1	6.6
60°	0.5	1.5	2.8	4.5	6.1	6.6
62.5°	0.5	1.5	2.8	4.3	5.8	6.3
65°	0.5	1.5	2.5	4.0	5.8	6.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.5	1.3	2.5	3.8	5.6	5.8
70°	0.8	1.3	2.3	3.8	5.3	5.6
72.5°	0.8	1.3	2.3	3.3	4.8	5.3
75°	0.8	1.3	2.0	3.0	4.5	4.8
77.5°	0.8	1.3	1.8	2.8	4.0	4.3
80°	1.0	1.3	1.5	2.3	3.5	3.8
82.5°	1.0	1.3	1.3	1.8	2.8	3.0
85°	0.8	1.0	1.0	1.3	1.8	2.0
87.5°	0.8	1.0	0.8	0.5	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)