

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: P1337324

Luminaire Tested: P3A05R259030D2WDE010 E3CA451MB

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337324
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 E3CA451MB
Description: 3in Adjustable Dim to Warm LED luminaire with, R25 optic, 3000K CCT AND, 90CRI ,
E3CA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

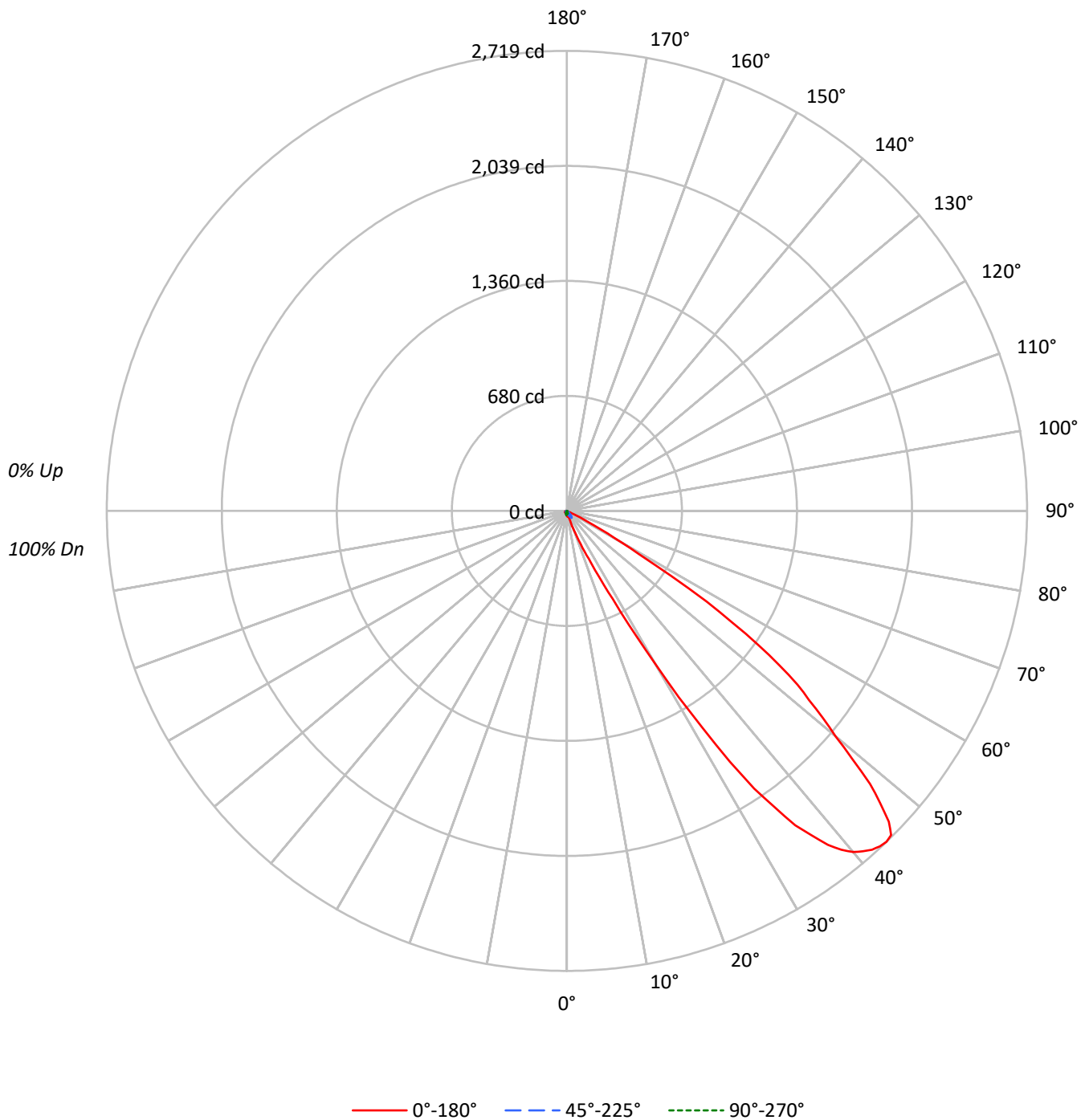
Lumens per Lamp: N/A
Luminaire Lumens: 567.1 lumens
Efficiency: N/A
Efficacy: 51.1 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	6337	6337	6337	6337	6337
5°	7242	6912	6141	5481	5371
10°	7214	6546	5233	4565	4565
15°	8036	5653	4086	3859	4086
20°	28399	5577	3150	3267	3617
25°	81731	7113	2540	3024	3508
30°	260749	10989	2026	2912	3545
35°	571121	12956	1740	2811	3614
40°	753383	11708	1431	2863	3864
45°	840180	8187	1395	3101	4186
50°	707218	4264	1365	3241	4605
55°	528765	1720	1338	3632	5161
60°	163671	439	1316	3947	5701
65°	13957	0	1557	4151	6226
70°	962	321	1603	4809	7052
75°	847	424	2118	5083	8049
80°	631	631	3157	5683	9471
85°	1258	1258	5032	6290	10064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 840180 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.5
10°-20°	6.7	1.2
20°-30°	31.4	5.5
30°-40°	151.0	26.6
40°-50°	236.7	41.7
50°-60°	121.4	21.4
60°-70°	11.5	2.0
70°-80°	3.9	0.7
80°-90°	1.9	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°	40.7	7.2
0°-40°	191.7	33.8
0°-60°	549.8	97.0
0°-90°	567.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	567.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	33	31	28	25	24	3
15°	35	25	18	17	18	15
25°	338	29	10	12	14	210
35°	2134	48	6	10	14	1295
45°	2709	26	4	10	14	1982
55°	1383	4	4	10	14	1151
65°	27	0	3	8	12	84
75°	1	0	2	6	10	1
85°	0	0	2	2	4	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°	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
2.5°	31.4	31.4	31.4	31.4	31.4	31.4	30.9	30.9	31.4	30.9	30.9
5°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.4	32.4	32.4	31.4
7.5°	33.4	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.4	32.4	30.9
10°	32.4	32.4	32.4	32.4	31.9	31.9	31.9	31.4	31.4	31.4	29.4
12.5°	32.4	32.4	32.4	32.4	31.9	31.9	31.4	31.4	30.9	30.4	26.9
15°	35.4	35.4	35.4	34.9	34.4	33.9	33.4	32.9	32.4	31.4	24.9
17.5°	51.9	50.4	49.9	47.9	45.4	42.9	40.9	38.9	36.9	35.4	23.9
20°	121.7	121.2	118.7	112.8	106.3	98.8	91.3	82.8	70.9	62.9	23.9
22.5°	211.1	208.1	203.6	199.1	187.6	174.1	160.2	144.2	128.7	112.3	25.4
25°	337.8	344.8	329.8	317.8	297.9	273.4	247.0	225.0	197.1	171.1	29.4
27.5°	587.3	591.8	562.3	523.4	477.0	425.6	375.7	338.3	291.4	248.5	36.9
30°	1029.8	1034.3	984.9	902.1	806.3	722.0	607.7	507.4	415.1	343.8	43.4
31°	1285.3	1250.4	1193.0	1112.7	991.4	864.2	727.0	605.7	489.0	395.2	45.4
32°	1507.3	1504.3	1437.5	1315.7	1194.0	1036.8	866.7	708.5	565.3	447.1	46.9
33°	1769.3	1749.3	1655.0	1540.2	1379.1	1220.9	1001.4	820.8	643.6	504.9	47.9
34°	1979.3	1925.4	1886.5	1755.3	1585.2	1383.6	1148.6	939.5	741.4	560.8	48.4
35°	2133.5	2122.0	2046.2	1923.9	1750.8	1544.7	1307.2	1062.8	823.3	625.7	48.4
36°	2296.7	2261.2	2187.4	2076.6	1908.0	1694.9	1428.5	1169.5	918.6	684.1	47.9
37°	2398.9	2378.0	2304.6	2190.4	2025.2	1821.7	1564.2	1282.3	994.4	742.4	46.9
38°	2504.2	2461.8	2389.5	2280.2	2118.0	1926.9	1662.5	1369.1	1064.3	793.8	45.4
39°	2577.1	2533.2	2459.3	2350.5	2191.9	2002.3	1740.3	1443.0	1125.1	832.2	43.4
40°	2631.9	2589.5	2514.7	2402.9	2246.3	2061.6	1805.2	1508.3	1176.0	865.7	40.9
41°	2665.9	2626.5	2552.1	2440.8	2283.7	2095.6	1847.6	1550.7	1210.4	888.1	38.4
42°	2694.3	2653.9	2578.1	2464.3	2306.6	2124.5	1873.5	1577.7	1233.9	899.6	36.4
43°	2710.3	2669.9	2596.0	2479.8	2320.6	2138.0	1887.5	1590.1	1241.9	898.1	32.9
44°	2719.3	2677.3	2603.0	2486.8	2326.6	2141.5	1888.5	1587.6	1236.4	886.1	29.9
45°	2709.3	2667.9	2596.0	2479.8	2316.1	2130.5	1878.5	1574.2	1215.4	862.7	26.4
46°	2644.4	2612.5	2546.6	2439.8	2283.2	2102.6	1853.1	1548.2	1183.0	833.7	22.5
47°	2530.2	2504.7	2440.8	2361.5	2219.8	2051.2	1806.2	1498.8	1137.6	790.3	18.0
48°	2410.9	2373.5	2314.1	2232.8	2113.0	1958.9	1728.9	1426.5	1068.7	733.5	16.0
49°	2234.8	2212.8	2160.4	2069.6	1970.3	1834.6	1619.6	1333.7	984.4	671.6	14.0
50°	2073.1	2058.2	1984.8	1918.0	1812.7	1685.9	1471.4	1211.4	879.6	594.7	12.5
51°	1946.9	1928.9	1876.0	1792.7	1680.5	1533.3	1331.2	1052.8	759.4	503.4	10.0
52°	1815.2	1805.2	1758.3	1672.5	1562.2	1415.5	1195.0	918.1	642.6	425.6	8.0
53°	1707.4	1692.9	1635.5	1559.2	1440.0	1288.3	1047.3	792.8	544.4	357.7	7.0
54°	1550.2	1544.2	1507.3	1427.5	1298.3	1133.1	913.6	667.6	454.0	303.4	6.0
55°	1383.1	1363.1	1325.7	1262.3	1143.6	989.4	758.9	553.3	367.2	255.5	4.5
56°	1179.5	1178.5	1111.7	1058.8	953.5	789.8	606.2	432.1	298.4	213.1	4.0
57°	984.9	953.5	889.1	836.7	723.5	599.2	450.0	323.8	233.5	172.6	3.0
58°	728.5	712.0	695.0	618.2	513.4	424.6	321.3	227.5	172.6	131.7	2.0
59°	494.5	494.0	474.0	415.6	355.3	264.4	200.6	154.7	118.7	96.8	1.5
60°	373.2	364.2	324.3	285.9	223.5	167.1	118.7	91.3	73.8	62.4	1.0
62.5°	130.7	135.7	119.2	98.8	75.3	61.9	47.4	38.4	31.4	25.4	0.0
65°	26.9	29.4	25.4	23.9	19.0	16.5	14.5	12.5	10.5	9.0	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°	3.5	3.0	3.0	3.0	2.5	2.5	2.5	2.5	2.0	2.0	0.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0	0.5
72.5°	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
85°	0.5	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	28.9	28.9	28.9	28.9	28.9	28.9
2.5°	30.4	29.4	27.9	27.4	26.9	26.9
5°	29.9	27.9	26.4	24.9	24.4	24.4
7.5°	28.4	25.9	23.9	23.0	22.5	22.0
10°	26.9	23.5	21.5	20.5	20.5	20.5
12.5°	23.9	21.0	19.0	18.5	19.0	19.0
15°	21.5	18.0	17.0	17.0	17.5	18.0
17.5°	18.5	16.0	15.0	15.5	16.0	16.5
20°	16.5	13.5	13.5	14.0	15.5	15.5
22.5°	14.5	12.0	12.0	13.5	14.5	15.0
25°	13.0	10.5	11.0	12.5	14.0	14.5
27.5°	11.0	9.0	10.0	12.0	13.5	14.0
30°	9.5	8.0	9.5	11.5	13.0	14.0
31°	9.0	7.5	9.5	11.0	13.0	14.0
32°	8.0	7.5	9.0	11.0	13.0	13.5
33°	7.5	7.0	9.0	11.0	13.0	13.5
34°	7.0	6.5	8.5	11.0	13.0	13.5
35°	6.0	6.5	8.5	10.5	12.5	13.5
36°	5.5	6.0	8.5	10.5	12.5	13.5
37°	5.0	6.0	8.0	10.5	12.5	13.5
38°	4.5	5.5	8.0	10.5	12.5	13.5
39°	4.0	5.5	7.5	10.5	12.5	13.5
40°	3.5	5.0	7.5	10.0	12.5	13.5
41°	3.5	5.0	7.5	10.0	12.5	13.5
42°	3.0	5.0	7.5	10.0	12.5	13.5
43°	2.5	4.5	7.5	10.0	12.5	13.5
44°	2.0	4.5	7.0	10.0	12.5	13.5
45°	2.0	4.5	7.0	10.0	12.5	13.5
46°	1.5	4.0	7.0	10.0	12.5	13.5
47°	1.0	4.0	7.0	9.5	12.5	13.5
48°	1.0	4.0	7.0	9.5	12.5	13.5
49°	1.0	4.0	6.5	9.5	12.5	13.5
50°	1.0	4.0	6.5	9.5	12.5	13.5
51°	0.5	3.5	6.5	9.5	12.5	13.5
52°	0.5	3.5	6.5	9.5	12.5	14.0
53°	0.5	3.5	6.5	9.5	12.5	13.5
54°	0.5	3.5	6.0	9.5	12.5	13.5
55°	0.5	3.5	6.0	9.5	12.5	13.5
56°	0.5	3.0	6.0	9.0	12.5	13.5
57°	1.0	3.0	6.0	9.0	12.5	13.0
58°	1.0	3.0	6.0	9.0	12.0	13.0
59°	1.0	3.0	6.0	9.0	12.0	13.0
60°	1.0	3.0	5.5	9.0	12.0	13.0
62.5°	1.0	3.0	5.5	8.5	11.5	12.5
65°	1.0	3.0	5.0	8.0	11.5	12.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.0	2.5	5.0	7.5	11.0	11.5
70°	1.5	2.5	4.5	7.5	10.5	11.0
72.5°	1.5	2.5	4.5	6.5	9.5	10.5
75°	1.5	2.5	4.0	6.0	9.0	9.5
77.5°	1.5	2.5	3.5	5.5	8.0	8.5
80°	2.0	2.5	3.0	4.5	7.0	7.5
82.5°	2.0	2.5	2.5	3.5	5.5	6.0
85°	1.5	2.0	2.0	2.5	3.5	4.0
87.5°	1.5	2.0	1.5	1.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)