

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: P1338336

Luminaire Tested: P3A05R359030D2WDE010 E3CA451MB

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R359030D2WDE010 E3CA451MB
Description: 3in Adjustable Dim to Warm LED luminaire with, R35 optic, 3000K CCT AND, 90CRI ,
E3CA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

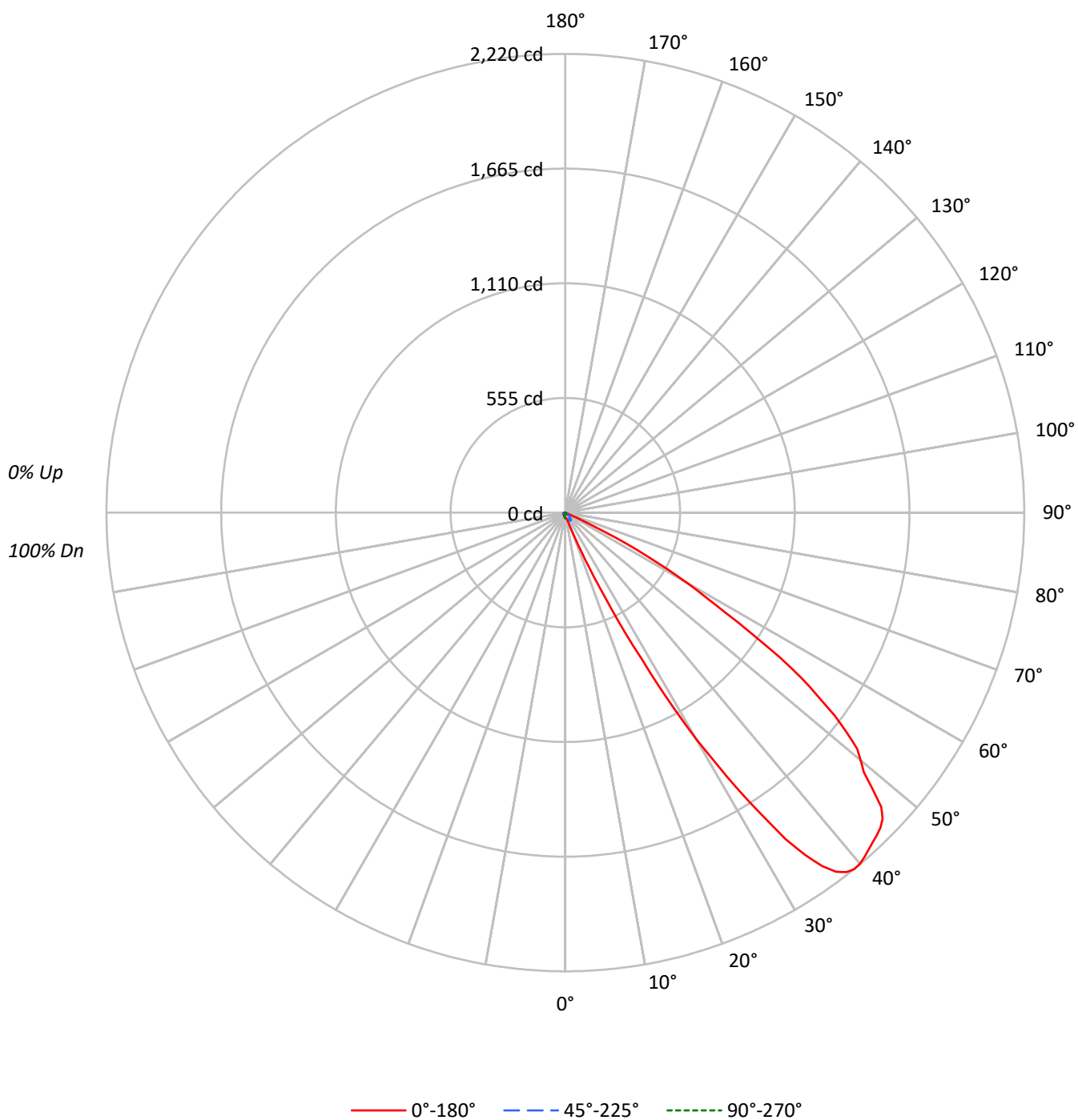
Lumens per Lamp: N/A
Luminaire Lumens: 553.1 lumens
Efficiency: N/A
Efficacy: 49.8 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	100	100
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50	50
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42	42	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35	35	35
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29	29	29
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24	24	24
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20	20	20
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5592	5592	5592	5592	5592
5°	6053	5943	5503	4953	4843
10°	6346	5789	4899	4231	4231
15°	9058	5675	3973	3632	3746
20°	22705	6067	3150	3150	3500
25°	105442	7718	2419	2903	3266
30°	320556	10483	1899	2659	3292
35°	541756	12153	1606	2543	3212
40°	635018	11994	1288	2576	3435
45°	668752	8528	1085	2791	3721
50°	636568	5117	1023	2900	4094
55°	533429	2103	1147	3250	4779
60°	298616	439	1316	3728	5263
65°	51523	259	1297	4151	5967
70°	962	321	1603	4488	6732
75°	847	424	2118	5083	7625
80°	631	631	2526	5683	8840
85°	0	1258	5032	6290	10064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 673507 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.4
10°-20°	6.5	1.2
20°-30°	33.9	6.1
30°-40°	146.5	26.5
40°-50°	209.0	37.8
50°-60°	129.5	23.4
60°-70°	19.7	3.6
70°-80°	3.7	0.7
80°-90°	1.8	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°	42.8	7.7
0°-40°	189.3	34.2
0°-60°	527.8	95.4
0°-90°	553.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	553.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	28	27	25	22	22	3
15°	40	25	18	16	16	14
25°	436	32	10	12	14	261
35°	2024	45	6	10	12	1215
45°	2156	28	4	9	12	1629
55°	1395	6	3	8	12	1188
65°	99	0	2	8	12	203
75°	1	0	2	6	9	1
85°	0	0	2	2	4	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
2.5°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	25.5	25.0
5°	27.5	27.5	27.0	27.0	27.0	27.0	27.0	27.0	26.0	25.0	23.5
7.5°	28.0	28.0	27.5	27.5	27.5	27.5	27.0	26.5	25.5	23.5	22.0
10°	28.5	28.5	28.5	28.5	28.0	27.5	27.0	26.0	24.5	22.0	20.5
12.5°	31.9	31.9	31.4	30.5	29.5	28.5	27.5	25.5	22.5	20.0	18.5
15°	39.9	39.4	38.4	36.9	34.9	32.4	30.5	25.0	20.5	17.5	16.5
17.5°	55.9	54.9	53.4	48.4	43.9	39.4	35.4	25.0	18.5	15.5	14.5
20°	97.3	97.8	87.4	75.4	65.4	54.4	44.4	26.0	16.5	13.5	13.0
22.5°	203.2	195.2	170.2	141.3	107.8	83.4	62.9	28.5	14.5	11.5	11.5
25°	435.8	405.4	344.9	260.6	183.7	130.3	91.4	31.9	13.0	10.0	10.5
27.5°	795.7	768.3	647.0	487.2	323.5	196.7	123.8	36.4	11.5	8.5	9.5
30°	1266.0	1190.1	1031.8	798.7	540.6	301.0	166.2	41.4	9.5	7.5	9.0
31°	1412.7	1377.8	1185.1	924.0	633.5	357.4	184.2	42.9	9.0	7.5	8.5
32°	1587.0	1525.1	1352.3	1061.3	727.8	407.8	205.7	44.4	8.5	6.5	8.5
33°	1742.7	1682.8	1472.6	1182.1	823.2	465.3	228.6	44.9	7.5	6.5	8.0
34°	1906.4	1824.6	1616.4	1308.4	921.0	527.2	249.6	45.4	7.0	6.0	8.0
35°	2023.8	1941.9	1740.2	1408.2	1005.4	582.1	273.6	45.4	6.5	6.0	7.5
36°	2114.6	2042.7	1847.0	1511.1	1089.3	631.5	292.5	45.4	5.5	5.5	7.5
37°	2177.0	2108.6	1918.9	1599.4	1153.2	675.4	309.5	45.4	5.0	5.5	7.5
38°	2207.5	2150.6	1988.3	1663.8	1215.1	709.9	323.0	44.4	4.5	5.0	7.0
39°	2220.4	2174.0	2030.7	1718.2	1261.5	739.8	333.0	43.4	4.0	5.0	7.0
40°	2218.4	2178.0	2054.7	1755.7	1298.9	760.3	338.5	41.9	3.5	4.5	7.0
41°	2207.0	2172.0	2067.2	1787.6	1321.4	774.3	340.0	40.4	3.0	4.5	6.5
42°	2194.0	2162.0	2071.2	1804.6	1335.9	778.8	336.0	38.4	3.0	4.0	6.5
43°	2180.5	2151.1	2071.2	1810.1	1339.4	775.8	329.5	34.9	2.5	4.0	6.5
44°	2169.5	2141.6	2064.7	1808.6	1331.9	764.3	317.5	31.0	2.0	4.0	6.5
45°	2156.5	2129.1	2056.2	1799.1	1317.4	744.8	302.5	27.5	1.5	3.5	6.5
46°	2133.6	2112.1	2041.2	1779.7	1294.4	717.9	283.5	25.0	1.0	3.5	6.0
47°	2089.2	2070.7	2012.3	1750.7	1264.0	685.9	264.1	22.5	1.0	3.5	6.0
48°	1999.8	1999.3	1954.4	1696.8	1215.6	646.0	243.6	20.0	1.0	3.5	6.0
49°	1913.4	1904.5	1848.5	1601.9	1146.2	598.0	222.1	18.0	0.5	3.5	6.0
50°	1866.0	1846.5	1754.7	1490.1	1057.3	531.6	199.2	15.0	0.5	3.0	6.0
51°	1816.6	1788.6	1680.3	1389.3	951.5	467.8	174.2	12.0	0.5	3.0	5.5
52°	1727.2	1700.8	1579.5	1292.9	848.6	402.4	150.3	10.0	0.5	3.0	6.0
53°	1630.9	1593.0	1461.2	1187.1	758.3	344.4	125.8	8.5	0.5	3.0	5.5
54°	1509.6	1492.6	1341.4	1057.3	652.5	288.5	103.3	7.0	0.5	3.0	5.5
55°	1395.3	1370.3	1213.1	924.5	556.6	236.6	86.4	5.5	0.5	3.0	5.5
56°	1249.5	1212.1	1064.8	802.7	459.3	190.7	72.9	4.5	0.5	3.0	5.5
57°	1075.8	1035.8	919.5	667.4	360.4	145.3	60.9	3.5	0.5	3.0	5.5
58°	910.0	875.6	750.8	515.2	271.6	100.8	50.4	2.5	0.5	2.5	5.5
59°	786.2	748.3	624.5	396.4	188.7	74.4	37.9	2.0	0.5	3.0	5.5
60°	680.9	632.0	502.7	307.0	134.8	53.4	28.0	1.0	1.0	3.0	5.5
62.5°	392.4	346.4	240.1	124.8	55.4	27.5	13.5	0.5	1.0	3.0	5.5
65°	99.3	88.4	57.4	27.0	15.5	9.5	5.0	0.5	1.0	2.5	5.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	3.5	3.5	3.5	3.0	2.5	2.0	1.0	0.5	1.0	2.5	5.0
70°	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.5	1.0	2.5	4.5
72.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.5	2.5	4.0
75°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.5	2.5	4.0
77.5°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.0	3.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.0	3.0
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.0	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	1.5	2.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.0	1.5
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):

	135°	157.5°	180°
0°	25.5	25.5	25.5
2.5°	24.0	24.0	24.0
5°	22.5	22.5	22.0
7.5°	21.0	20.5	20.5
10°	19.0	19.0	19.0
12.5°	17.5	17.5	17.5
15°	16.0	16.5	16.5
17.5°	14.5	15.5	15.5
20°	13.5	14.5	15.0
22.5°	12.5	13.5	14.0
25°	12.0	13.0	13.5
27.5°	11.0	12.5	13.5
30°	10.5	12.0	13.0
31°	10.5	12.0	12.5
32°	10.0	12.0	12.5
33°	10.0	12.0	12.5
34°	10.0	11.5	12.5
35°	9.5	11.5	12.0
36°	9.5	11.5	12.0
37°	9.5	11.5	12.5
38°	9.5	11.5	12.0
39°	9.0	11.5	12.0
40°	9.0	11.5	12.0
41°	9.0	11.5	12.0
42°	9.0	11.5	12.0
43°	9.0	11.5	12.0
44°	9.0	11.0	12.0
45°	9.0	11.0	12.0
46°	9.0	11.5	12.0
47°	9.0	11.5	12.5
48°	9.0	11.0	12.0
49°	8.5	11.0	12.0
50°	8.5	11.0	12.0
51°	8.5	11.5	12.5
52°	8.5	11.5	12.5
53°	8.5	11.5	12.5
54°	8.5	11.5	12.0
55°	8.5	11.5	12.5
56°	8.5	11.5	12.0
57°	8.5	11.5	12.0
58°	8.5	11.0	12.0
59°	8.5	11.0	12.0
60°	8.5	11.0	12.0
62.5°	8.0	11.0	12.0
65°	8.0	10.5	11.5



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	7.5	10.5	11.0
70°	7.0	10.0	10.5
72.5°	6.5	9.5	10.0
75°	6.0	8.5	9.0
77.5°	5.0	7.5	8.5
80°	4.5	6.5	7.0
82.5°	3.5	5.5	6.0
85°	2.5	4.0	4.0
87.5°	1.0	2.0	2.0
90°	0.0	0.0	0.0

(END OF REPORT)