

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: P1337412

Luminaire Tested: P3A05R259730DE010 E3CA451MB

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337412
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: P3A05R259730DE010 E3CA451MB
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 97CRI , E3CA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

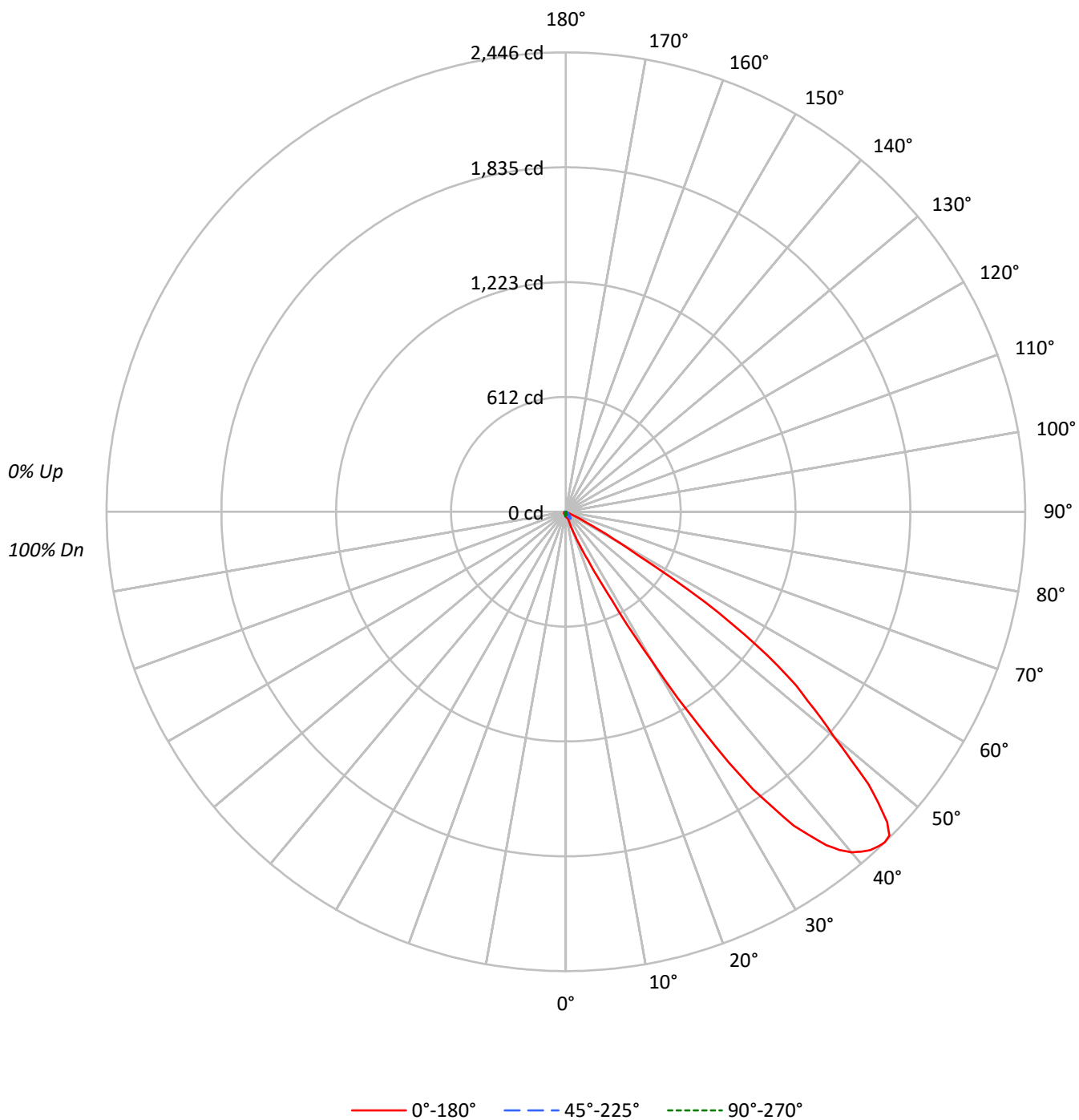
Lumens per Lamp: N/A
Luminaire Lumens: 509.9 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	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
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5701	5701	5701	5701	5701
5°	6516	6229	5525	4931	4843
10°	6502	5901	4698	4097	4097
15°	7242	5085	3678	3473	3678
20°	25552	5017	2824	2940	3244
25°	73504	6412	2274	2710	3145
30°	234542	9875	1823	2608	3190
35°	513701	11645	1553	2516	3239
40°	677670	10534	1288	2576	3464
45°	755706	7381	1240	2791	3752
50°	636124	3821	1228	2900	4128
55°	475586	1529	1185	3250	4626
60°	147225	395	1184	3552	5131
65°	12556	0	1401	3736	5604
70°	833	256	1410	4296	6347
75°	763	339	1864	4575	7202
80°	505	505	2778	5051	8461
85°	1006	1006	4529	5535	9057

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 755706 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.5
10°-20°	6.0	1.2
20°-30°	28.2	5.5
30°-40°	135.8	26.6
40°-50°	212.9	41.8
50°-60°	109.2	21.4
60°-70°	10.3	2.0
70°-80°	3.4	0.7
80°-90°	1.7	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°	36.6	7.2
0°-40°	172.4	33.8
0°-60°	494.5	97.0
0°-90°	509.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	509.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	30	28	25	22	22	3
15°	32	22	16	15	16	13
25°	304	26	9	11	13	188
35°	1919	44	6	9	12	1165
45°	2437	24	4	9	12	1783
55°	1244	4	3	8	12	1036
65°	24	0	3	7	11	76
75°	1	0	2	5	8	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°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
2.5°	28.3	28.3	28.3	28.3	28.3	28.3	27.8	27.8	28.3	27.8	27.8
5°	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.2	29.2	29.2	28.3
7.5°	30.1	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.2	29.2	27.8
10°	29.2	29.2	29.2	29.2	28.7	28.7	28.7	28.3	28.3	28.3	26.5
12.5°	29.2	29.2	29.2	29.2	28.7	28.7	28.3	28.3	27.8	27.4	24.2
15°	31.9	31.9	31.9	31.4	31.0	30.5	30.1	29.6	29.2	28.3	22.4
17.5°	46.7	45.3	44.9	43.1	40.8	38.6	36.8	35.0	33.2	31.9	21.5
20°	109.5	109.1	106.8	101.4	95.6	88.9	82.1	74.5	63.7	56.5	21.5
22.5°	189.8	187.1	183.1	179.1	168.7	156.6	144.1	129.7	115.8	101.0	22.9
25°	303.8	310.1	296.6	285.9	267.9	245.9	222.2	202.4	177.3	153.9	26.5
27.5°	528.2	532.3	505.8	470.8	429.0	382.8	337.9	304.3	262.1	223.5	33.2
30°	926.3	930.3	885.9	811.4	725.2	649.4	546.6	456.4	373.4	309.2	39.0
31°	1156.1	1124.7	1073.1	1000.8	891.7	777.3	653.9	544.8	439.8	355.4	40.8
32°	1355.8	1353.1	1293.0	1183.5	1073.9	932.6	779.5	637.3	508.5	402.1	42.2
33°	1591.4	1573.5	1488.6	1385.4	1240.5	1098.2	900.7	738.3	578.9	454.2	43.1
34°	1780.3	1731.9	1696.9	1578.8	1425.8	1244.5	1033.1	845.1	666.9	504.4	43.5
35°	1919.0	1908.7	1840.5	1730.5	1574.8	1389.4	1175.8	955.9	740.5	562.8	43.5
36°	2065.8	2033.9	1967.5	1867.9	1716.2	1524.5	1284.9	1052.0	826.2	615.3	43.1
37°	2157.8	2138.9	2073.0	1970.2	1821.6	1638.5	1407.0	1153.4	894.4	667.8	42.2
38°	2252.5	2214.3	2149.2	2051.0	1905.1	1733.2	1495.4	1231.5	957.3	714.0	40.8
39°	2318.0	2278.5	2212.1	2114.2	1971.5	1801.0	1565.4	1297.9	1012.0	748.6	39.0
40°	2367.4	2329.2	2261.9	2161.4	2020.4	1854.4	1623.7	1356.7	1057.8	778.6	36.8
41°	2397.9	2362.4	2295.6	2195.5	2054.1	1884.9	1661.9	1394.8	1088.8	798.8	34.6
42°	2423.5	2387.1	2318.9	2216.6	2074.7	1910.9	1685.2	1419.1	1109.9	809.2	32.8
43°	2437.8	2401.5	2335.0	2230.5	2087.3	1923.1	1697.8	1430.3	1117.0	807.8	29.6
44°	2445.9	2408.2	2341.3	2236.8	2092.7	1926.2	1698.7	1428.0	1112.1	797.0	26.9
45°	2436.9	2399.7	2335.0	2230.5	2083.3	1916.3	1689.7	1415.9	1093.2	776.0	23.8
46°	2378.6	2349.9	2290.6	2194.6	2053.7	1891.2	1666.8	1392.6	1064.1	749.9	20.2
47°	2275.8	2252.9	2195.5	2124.1	1996.7	1845.0	1624.6	1348.2	1023.2	710.9	16.2
48°	2168.5	2134.9	2081.5	2008.3	1900.6	1761.9	1555.1	1283.1	961.3	659.7	14.4
49°	2010.1	1990.4	1943.3	1861.6	1772.3	1650.2	1456.8	1199.6	885.5	604.1	12.6
50°	1864.7	1851.3	1785.3	1725.1	1630.4	1516.5	1323.5	1089.7	791.2	535.0	11.2
51°	1751.2	1735.0	1687.4	1612.5	1511.5	1379.1	1197.4	946.9	683.1	452.8	9.0
52°	1632.7	1623.7	1581.5	1504.3	1405.2	1273.2	1074.8	825.8	578.0	382.8	7.2
53°	1535.8	1522.7	1471.1	1402.5	1295.2	1158.8	942.0	713.1	489.6	321.8	6.3
54°	1394.4	1389.0	1355.8	1284.0	1167.7	1019.2	821.7	600.5	408.4	272.9	5.4
55°	1244.0	1226.1	1192.4	1135.4	1028.6	889.9	682.6	497.7	330.3	229.8	4.0
56°	1060.9	1060.0	999.9	952.3	857.6	710.4	545.3	388.7	268.4	191.6	3.6
57°	885.9	857.6	799.7	752.6	650.7	539.0	404.8	291.3	210.0	155.3	2.7
58°	655.2	640.4	625.2	556.0	461.8	381.9	289.0	204.6	155.3	118.5	1.8
59°	444.7	444.3	426.3	373.8	319.5	237.9	180.4	139.1	106.8	87.1	1.3
60°	335.7	327.6	291.7	257.2	201.1	150.3	106.8	82.1	66.4	56.1	0.9
62.5°	117.6	122.1	107.3	88.9	67.8	55.6	42.6	34.6	28.3	22.9	0.0
65°	24.2	26.5	22.9	21.5	17.1	14.8	13.0	11.2	9.4	8.1	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°	3.1	2.7	2.7	2.7	2.2	2.2	2.2	2.2	1.8	1.8	0.4
70°	1.3	1.3	1.3	1.3	1.3	1.3	0.9	0.9	0.9	0.9	0.4
72.5°	1.3	1.3	1.3	0.9	0.9	0.9	0.9	0.9	0.9	0.4	0.4
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
85°	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	26.0	26.0	26.0	26.0	26.0	26.0
2.5°	27.4	26.5	25.1	24.7	24.2	24.2
5°	26.9	25.1	23.8	22.4	22.0	22.0
7.5°	25.6	23.3	21.5	20.6	20.2	19.7
10°	24.2	21.1	19.3	18.4	18.4	18.4
12.5°	21.5	18.8	17.1	16.6	17.1	17.1
15°	19.3	16.2	15.3	15.3	15.7	16.2
17.5°	16.6	14.4	13.5	13.9	14.4	14.8
20°	14.8	12.1	12.1	12.6	13.9	13.9
22.5°	13.0	10.8	10.8	12.1	13.0	13.5
25°	11.7	9.4	9.9	11.2	12.6	13.0
27.5°	9.9	8.1	9.0	10.8	12.1	12.6
30°	8.5	7.2	8.5	10.3	11.7	12.6
31°	8.1	6.7	8.5	9.9	11.7	12.6
32°	7.2	6.7	8.1	9.9	11.7	12.1
33°	6.7	6.3	8.1	9.9	11.7	12.1
34°	6.3	5.8	7.6	9.9	11.7	12.1
35°	5.4	5.8	7.6	9.4	11.2	12.1
36°	4.9	5.4	7.6	9.4	11.2	12.1
37°	4.5	5.4	7.2	9.4	11.2	12.1
38°	4.0	4.9	7.2	9.4	11.2	12.1
39°	3.6	4.9	6.7	9.4	11.2	12.1
40°	3.1	4.5	6.7	9.0	11.2	12.1
41°	3.1	4.5	6.7	9.0	11.2	12.1
42°	2.7	4.5	6.7	9.0	11.2	12.1
43°	2.2	4.0	6.7	9.0	11.2	12.1
44°	1.8	4.0	6.3	9.0	11.2	12.1
45°	1.8	4.0	6.3	9.0	11.2	12.1
46°	1.3	3.6	6.3	9.0	11.2	12.1
47°	0.9	3.6	6.3	8.5	11.2	12.1
48°	0.9	3.6	6.3	8.5	11.2	12.1
49°	0.9	3.6	5.8	8.5	11.2	12.1
50°	0.9	3.6	5.8	8.5	11.2	12.1
51°	0.4	3.1	5.8	8.5	11.2	12.1
52°	0.4	3.1	5.8	8.5	11.2	12.6
53°	0.4	3.1	5.8	8.5	11.2	12.1
54°	0.4	3.1	5.4	8.5	11.2	12.1
55°	0.4	3.1	5.4	8.5	11.2	12.1
56°	0.4	2.7	5.4	8.1	11.2	12.1
57°	0.9	2.7	5.4	8.1	11.2	11.7
58°	0.9	2.7	5.4	8.1	10.8	11.7
59°	0.9	2.7	5.4	8.1	10.8	11.7
60°	0.9	2.7	4.9	8.1	10.8	11.7
62.5°	0.9	2.7	4.9	7.6	10.3	11.2
65°	0.9	2.7	4.5	7.2	10.3	10.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.9	2.2	4.5	6.7	9.9	10.3
70°	1.3	2.2	4.0	6.7	9.4	9.9
72.5°	1.3	2.2	4.0	5.8	8.5	9.4
75°	1.3	2.2	3.6	5.4	8.1	8.5
77.5°	1.3	2.2	3.1	4.9	7.2	7.6
80°	1.8	2.2	2.7	4.0	6.3	6.7
82.5°	1.8	2.2	2.2	3.1	4.9	5.4
85°	1.3	1.8	1.8	2.2	3.1	3.6
87.5°	1.3	1.8	1.3	0.9	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)