

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: P1337354

Luminaire Tested: P3A05R259035DE010 E3CA451MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337354
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 E3CA451MW
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 90CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

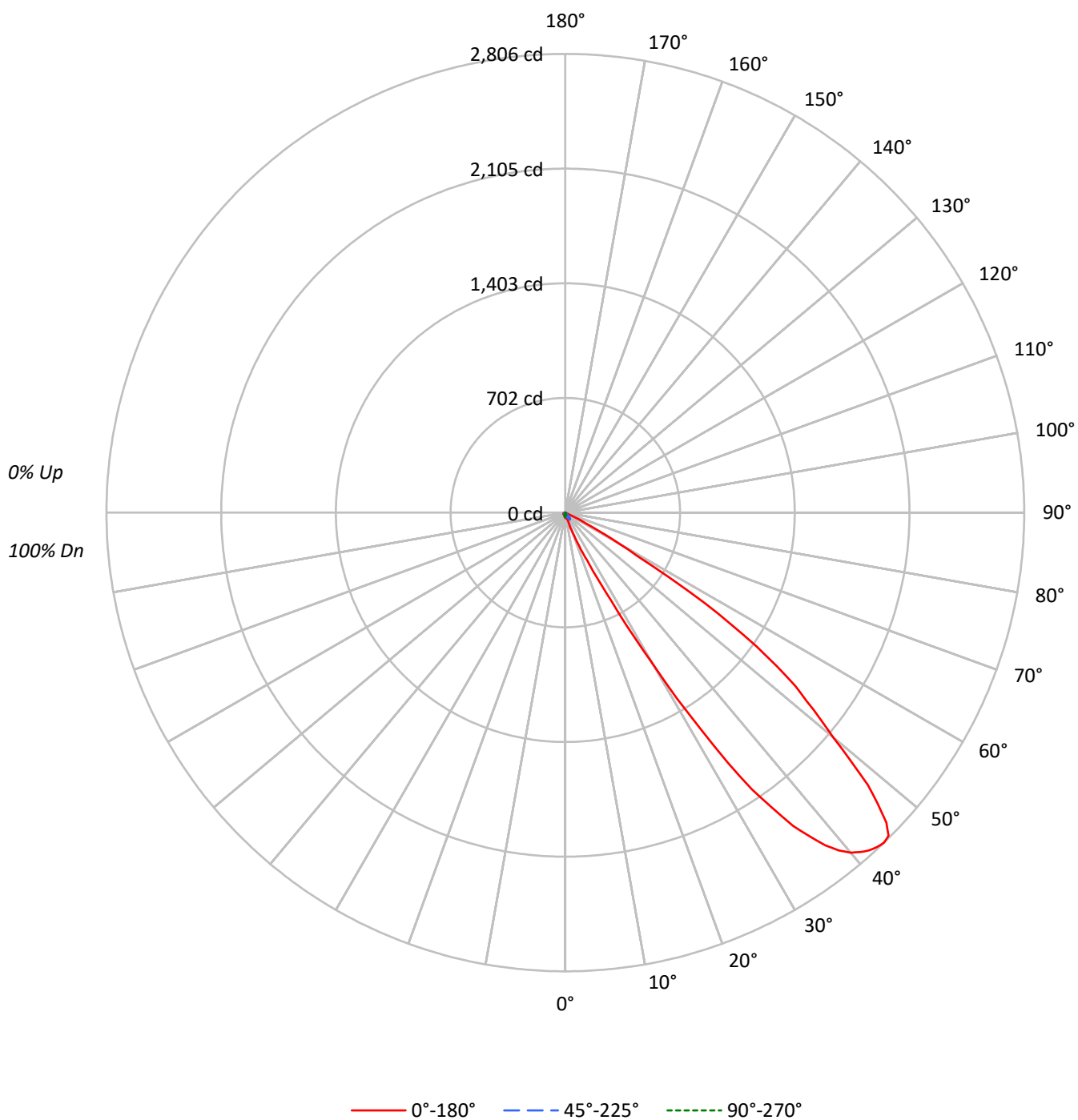
Lumens per Lamp: N/A
Luminaire Lumens: 585.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	0
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°	6556	6556	6556	6556	6556
5°	7484	7132	6339	5657	5547
10°	7459	6769	5388	4698	4698
15°	8286	5834	4200	3973	4200
20°	29309	5764	3244	3360	3734
25°	84319	7355	2613	3121	3605
30°	269029	11344	2076	2988	3646
35°	589244	13358	1794	2891	3721
40°	777313	12080	1460	2948	3979
45°	866850	8466	1427	3194	4311
50°	729665	4401	1399	3343	4742
55°	545548	1759	1376	3747	5314
60°	168890	439	1360	4079	5877
65°	14424	0	1608	4255	6434
70°	962	321	1667	4937	7245
75°	847	424	2203	5253	8303
80°	631	631	3283	5809	9723
85°	1258	1258	5284	6542	10315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 866850 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.5
10°-20°	6.9	1.2
20°-30°	32.4	5.5
30°-40°	155.8	26.6
40°-50°	244.2	41.8
50°-60°	125.2	21.4
60°-70°	11.8	2.0
70°-80°	4.0	0.7
80°-90°	2.0	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°	41.9	7.2
0°-40°	197.8	33.8
0°-60°	567.2	97.0
0°-90°	585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	585.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	34	32	29	26	25	3
15°	36	26	18	18	18	15
25°	348	30	11	13	15	216
35°	2201	50	7	11	14	1336
45°	2795	27	5	10	14	2045
55°	1427	5	4	10	14	1188
65°	28	0	3	8	12	87
75°	1	0	3	6	10	1
85°	0	0	2	3	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°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
2.5°	32.4	32.4	32.4	32.4	32.4	32.4	31.9	31.9	32.4	31.9	31.9
5°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	33.5	33.5	33.5	32.4
7.5°	34.5	34.0	34.0	34.0	34.0	34.0	34.0	34.0	33.5	33.5	31.9
10°	33.5	33.5	33.5	33.5	32.9	32.9	32.9	32.4	32.4	32.4	30.4
12.5°	33.5	33.5	33.5	33.5	32.9	32.9	32.4	32.4	31.9	31.4	27.8
15°	36.5	36.5	36.5	36.0	35.5	35.0	34.5	34.0	33.5	32.4	25.7
17.5°	53.5	52.0	51.5	49.4	46.8	44.3	42.2	40.2	38.1	36.5	24.7
20°	125.6	125.1	122.5	116.3	109.6	101.9	94.2	85.5	73.1	64.9	24.7
22.5°	217.8	214.7	210.0	205.4	193.6	179.7	165.2	148.8	132.8	115.8	26.3
25°	348.5	355.7	340.3	327.9	307.3	282.1	254.8	232.2	203.3	176.6	30.4
27.5°	605.9	610.5	580.2	540.0	492.1	439.1	387.6	349.0	300.6	256.4	38.1
30°	1062.5	1067.2	1016.2	930.7	831.9	744.9	627.0	523.5	428.3	354.7	44.8
31°	1326.1	1290.1	1230.9	1148.0	1022.9	891.6	750.0	625.0	504.5	407.7	46.8
32°	1555.2	1552.1	1483.1	1357.5	1231.9	1069.7	894.2	731.0	583.3	461.2	48.4
33°	1825.4	1804.8	1707.5	1589.1	1422.9	1259.7	1033.2	846.8	664.1	521.0	49.4
34°	2042.2	1986.6	1946.4	1811.0	1635.5	1427.5	1185.0	969.3	765.0	578.6	49.9
35°	2201.2	2189.4	2111.1	1985.0	1806.4	1593.8	1348.7	1096.5	849.4	645.5	49.9
36°	2369.6	2333.0	2256.8	2142.5	1968.5	1748.7	1473.8	1206.7	947.7	705.8	49.4
37°	2475.1	2453.5	2377.8	2259.9	2089.5	1879.5	1613.9	1323.0	1026.0	766.0	48.4
38°	2583.7	2540.0	2465.3	2352.6	2185.3	1988.1	1715.3	1412.6	1098.0	819.0	46.8
39°	2658.9	2613.6	2537.4	2425.2	2261.5	2065.8	1795.6	1488.8	1160.8	858.7	44.8
40°	2715.5	2671.7	2594.5	2479.2	2317.6	2127.1	1862.5	1556.2	1213.4	893.2	42.2
41°	2750.5	2709.8	2633.1	2518.3	2356.2	2162.1	1906.3	1600.0	1248.9	916.3	39.6
42°	2779.8	2738.1	2659.9	2542.5	2379.9	2192.0	1933.0	1627.8	1273.1	928.2	37.6
43°	2796.3	2754.6	2678.4	2558.5	2394.3	2205.9	1947.4	1640.6	1281.3	926.6	34.0
44°	2805.6	2762.3	2685.6	2565.7	2400.4	2209.5	1948.5	1638.0	1275.6	914.3	30.9
45°	2795.3	2752.6	2678.4	2558.5	2389.6	2198.1	1938.2	1624.2	1254.0	890.1	27.3
46°	2728.4	2695.4	2627.5	2517.3	2355.7	2169.3	1911.9	1597.4	1220.6	860.2	23.2
47°	2610.5	2584.2	2518.3	2436.5	2290.3	2116.3	1863.5	1546.4	1173.7	815.4	18.5
48°	2487.4	2448.8	2387.6	2303.7	2180.1	2021.1	1783.7	1471.8	1102.7	756.7	16.5
49°	2305.7	2283.1	2229.0	2135.3	2032.9	1892.9	1671.0	1376.0	1015.7	692.9	14.4
50°	2138.9	2123.5	2047.8	1978.8	1870.2	1739.5	1518.1	1249.9	907.6	613.6	12.9
51°	2008.7	1990.2	1935.6	1849.6	1733.8	1581.9	1373.4	1086.2	783.5	519.4	10.3
52°	1872.8	1862.5	1814.1	1725.6	1611.8	1460.4	1232.9	947.2	663.0	439.1	8.2
53°	1761.6	1746.7	1687.5	1608.7	1485.7	1329.2	1080.5	818.0	561.6	369.1	7.2
54°	1599.4	1593.3	1555.2	1472.8	1339.5	1169.1	942.6	688.8	468.5	313.0	6.2
55°	1427.0	1406.4	1367.8	1302.4	1179.9	1020.8	783.0	570.9	378.9	263.6	4.6
56°	1217.0	1215.9	1146.9	1092.4	983.8	814.9	625.5	445.8	307.8	219.8	4.1
57°	1016.2	983.8	917.3	863.3	746.4	618.3	464.3	334.1	240.9	178.1	3.1
58°	751.6	734.6	717.1	637.8	529.7	438.1	331.5	234.7	178.1	135.9	2.1
59°	510.2	509.6	489.0	428.8	366.5	272.8	206.9	159.6	122.5	99.9	1.5
60°	385.1	375.8	334.6	295.0	230.6	172.5	122.5	94.2	76.2	64.3	1.0
62.5°	134.9	140.0	123.0	101.9	77.7	63.8	48.9	39.6	32.4	26.3	0.0
65°	27.8	30.4	26.3	24.7	19.6	17.0	14.9	12.9	10.8	9.3	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°	3.6	3.1	3.1	3.1	2.6	2.6	2.6	2.6	2.1	2.1	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°	29.9	29.9	29.9	29.9	29.9	29.9
2.5°	31.4	30.4	28.8	28.3	27.8	27.8
5°	30.9	28.8	27.3	25.7	25.2	25.2
7.5°	29.3	26.8	24.7	23.7	23.2	22.7
10°	27.8	24.2	22.1	21.1	21.1	21.1
12.5°	24.7	21.6	19.6	19.0	19.6	19.6
15°	22.1	18.5	17.5	17.5	18.0	18.5
17.5°	19.0	16.5	15.4	16.0	16.5	17.0
20°	17.0	13.9	13.9	14.4	16.0	16.0
22.5°	14.9	12.4	12.4	13.9	14.9	15.4
25°	13.4	10.8	11.3	12.9	14.4	14.9
27.5°	11.3	9.3	10.3	12.4	13.9	14.4
30°	9.8	8.2	9.8	11.8	13.4	14.4
31°	9.3	7.7	9.8	11.3	13.4	14.4
32°	8.2	7.7	9.3	11.3	13.4	13.9
33°	7.7	7.2	9.3	11.3	13.4	13.9
34°	7.2	6.7	8.8	11.3	13.4	13.9
35°	6.2	6.7	8.8	10.8	12.9	13.9
36°	5.7	6.2	8.8	10.8	12.9	13.9
37°	5.1	6.2	8.2	10.8	12.9	13.9
38°	4.6	5.7	8.2	10.8	12.9	13.9
39°	4.1	5.7	7.7	10.8	12.9	13.9
40°	3.6	5.1	7.7	10.3	12.9	13.9
41°	3.6	5.1	7.7	10.3	12.9	13.9
42°	3.1	5.1	7.7	10.3	12.9	13.9
43°	2.6	4.6	7.7	10.3	12.9	13.9
44°	2.1	4.6	7.2	10.3	12.9	13.9
45°	2.1	4.6	7.2	10.3	12.9	13.9
46°	1.5	4.1	7.2	10.3	12.9	13.9
47°	1.0	4.1	7.2	9.8	12.9	13.9
48°	1.0	4.1	7.2	9.8	12.9	13.9
49°	1.0	4.1	6.7	9.8	12.9	13.9
50°	1.0	4.1	6.7	9.8	12.9	13.9
51°	0.5	3.6	6.7	9.8	12.9	13.9
52°	0.5	3.6	6.7	9.8	12.9	14.4
53°	0.5	3.6	6.7	9.8	12.9	13.9
54°	0.5	3.6	6.2	9.8	12.9	13.9
55°	0.5	3.6	6.2	9.8	12.9	13.9
56°	0.5	3.1	6.2	9.3	12.9	13.9
57°	1.0	3.1	6.2	9.3	12.9	13.4
58°	1.0	3.1	6.2	9.3	12.4	13.4
59°	1.0	3.1	6.2	9.3	12.4	13.4
60°	1.0	3.1	5.7	9.3	12.4	13.4
62.5°	1.0	3.1	5.7	8.8	11.8	12.9
65°	1.0	3.1	5.1	8.2	11.8	12.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.0	2.6	5.1	7.7	11.3	11.8
70°	1.5	2.6	4.6	7.7	10.8	11.3
72.5°	1.5	2.6	4.6	6.7	9.8	10.8
75°	1.5	2.6	4.1	6.2	9.3	9.8
77.5°	1.5	2.6	3.6	5.7	8.2	8.8
80°	2.1	2.6	3.1	4.6	7.2	7.7
82.5°	2.1	2.6	2.6	3.6	5.7	6.2
85°	1.5	2.1	2.1	2.6	3.6	4.1
87.5°	1.5	2.1	1.5	1.0	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)