

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: P1338433

Luminaire Tested: P3A05R359730DE010 E3CA451MMS

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338433
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: P3A05R359730DE010 E3CA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 97CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

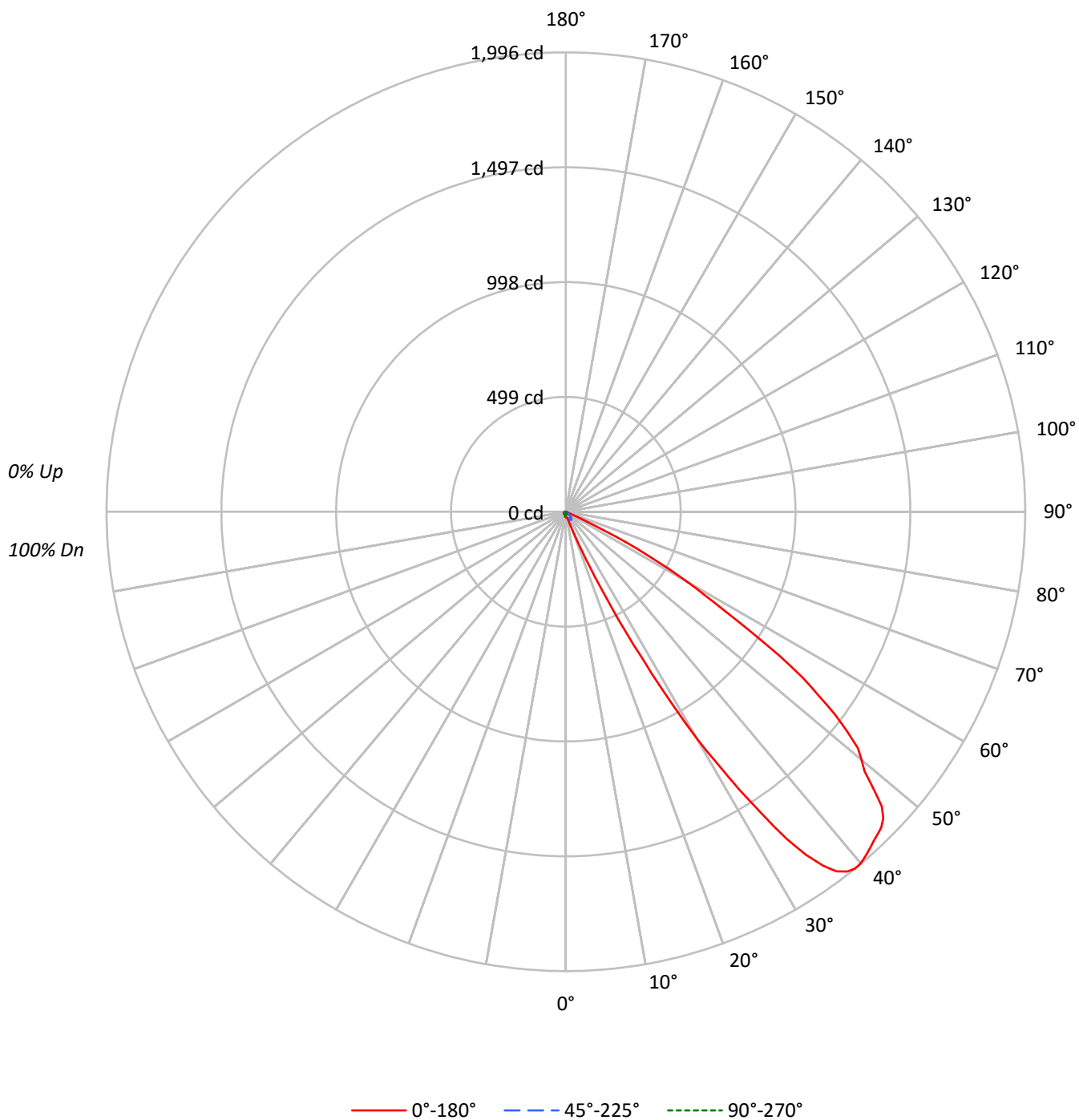
Lumens per Lamp: N/A
Luminaire Lumens: 496.9 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5022	5022	5022	5022	5022
5°	5437	5327	4931	4446	4336
10°	5700	5188	4386	3785	3785
15°	8150	5085	3564	3269	3360
20°	20418	5437	2824	2824	3150
25°	94772	6944	2178	2613	2928
30°	288095	9419	1696	2380	2962
35°	486879	10922	1446	2275	2891
40°	570726	10792	1145	2319	3092
45°	601055	7660	961	2512	3349
50°	572092	4605	921	2593	3684
55°	479409	1873	1032	2906	4282
60°	268400	395	1184	3333	4736
65°	46334	208	1141	3736	5344
70°	833	256	1410	4039	6027
75°	763	339	1864	4575	6863
80°	505	505	2273	5051	7956
85°	0	1006	4529	5535	9057

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 605291 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.4
10°-20°	5.9	1.2
20°-30°	30.5	6.1
30°-40°	131.7	26.5
40°-50°	187.9	37.8
50°-60°	116.3	23.4
60°-70°	17.7	3.6
70°-80°	3.3	0.7
80°-90°	1.6	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°	38.4	7.7
0°-40°	170.1	34.2
0°-60°	474.3	95.4
0°-90°	496.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	496.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	25	24	22	20	20	2
15°	36	22	16	14	15	13
25°	392	29	9	11	12	234
35°	1819	41	5	8	11	1092
45°	1938	25	3	8	11	1464
55°	1254	5	3	8	11	1068
65°	89	0	2	7	10	182
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°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
2.5°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	22.9	22.4
5°	24.7	24.7	24.2	24.2	24.2	24.2	24.2	24.2	23.3	22.4	21.1
7.5°	25.1	25.1	24.7	24.7	24.7	24.7	24.2	23.8	22.9	21.1	19.7
10°	25.6	25.6	25.6	25.6	25.1	24.7	24.2	23.3	22.0	19.7	18.4
12.5°	28.7	28.7	28.3	27.4	26.5	25.6	24.7	22.9	20.2	17.9	16.6
15°	35.9	35.4	34.5	33.2	31.4	29.2	27.4	22.4	18.4	15.7	14.8
17.5°	50.2	49.4	48.0	43.5	39.5	35.4	31.9	22.4	16.6	13.9	13.0
20°	87.5	87.9	78.5	67.7	58.8	48.9	39.9	23.3	14.8	12.1	11.7
22.5°	182.6	175.4	153.0	127.0	96.9	74.9	56.5	25.6	13.0	10.3	10.3
25°	391.7	364.3	310.0	234.2	165.1	117.1	82.1	28.7	11.7	9.0	9.4
27.5°	715.1	690.5	581.4	437.9	290.7	176.8	111.3	32.8	10.3	7.6	8.5
30°	1137.8	1069.6	927.4	717.8	485.9	270.5	149.4	37.2	8.5	6.7	8.1
31°	1269.7	1238.3	1065.1	830.4	569.3	321.2	165.6	38.6	8.1	6.7	7.6
32°	1426.3	1370.6	1215.4	953.8	654.1	366.5	184.8	39.9	7.6	5.8	7.6
33°	1566.2	1512.4	1323.5	1062.4	739.8	418.1	205.5	40.4	6.7	5.8	7.2
34°	1713.4	1639.8	1452.7	1175.9	827.8	473.8	224.3	40.8	6.3	5.4	7.2
35°	1818.8	1745.2	1564.0	1265.6	903.6	523.1	245.9	40.8	5.8	5.4	6.7
36°	1900.5	1835.9	1660.0	1358.1	979.0	567.5	262.9	40.8	4.9	4.9	6.7
37°	1956.6	1895.1	1724.6	1437.5	1036.4	607.0	278.2	40.8	4.5	4.9	6.7
38°	1983.9	1932.8	1787.0	1495.3	1092.0	638.0	290.3	39.9	4.0	4.5	6.3
39°	1995.6	1953.9	1825.1	1544.2	1133.7	664.9	299.2	39.0	3.6	4.5	6.3
40°	1993.8	1957.5	1846.6	1577.9	1167.4	683.3	304.2	37.7	3.1	4.0	6.3
41°	1983.5	1952.1	1857.9	1606.6	1187.6	695.9	305.5	36.3	2.7	4.0	5.8
42°	1971.8	1943.1	1861.4	1621.9	1200.6	699.9	301.9	34.5	2.7	3.6	5.8
43°	1959.7	1933.2	1861.4	1626.8	1203.7	697.2	296.1	31.4	2.2	3.6	5.8
44°	1949.8	1924.7	1855.6	1625.5	1197.0	686.9	285.3	27.8	1.8	3.6	5.8
45°	1938.2	1913.5	1848.0	1616.9	1184.0	669.4	271.9	24.7	1.3	3.1	5.8
46°	1917.5	1898.2	1834.5	1599.4	1163.3	645.2	254.8	22.4	0.9	3.1	5.4
47°	1877.6	1861.0	1808.5	1573.4	1136.0	616.4	237.3	20.2	0.9	3.1	5.4
48°	1797.3	1796.8	1756.5	1525.0	1092.5	580.6	218.9	17.9	0.9	3.1	5.4
49°	1719.7	1711.6	1661.3	1439.7	1030.1	537.5	199.6	16.2	0.4	3.1	5.4
50°	1677.0	1659.6	1577.0	1339.2	950.2	477.8	179.0	13.5	0.4	2.7	5.4
51°	1632.6	1607.5	1510.2	1248.6	855.1	420.4	156.6	10.8	0.4	2.7	4.9
52°	1552.3	1528.5	1419.5	1162.0	762.7	361.6	135.0	9.0	0.4	2.7	5.4
53°	1465.7	1431.6	1313.2	1066.9	681.5	309.6	113.1	7.6	0.4	2.7	4.9
54°	1356.7	1341.5	1205.5	950.2	586.4	259.3	92.9	6.3	0.4	2.7	4.9
55°	1254.0	1231.5	1090.2	830.9	500.2	212.7	77.6	4.9	0.4	2.7	4.9
56°	1123.0	1089.3	957.0	721.4	412.8	171.4	65.5	4.0	0.4	2.7	4.9
57°	966.8	930.9	826.4	599.8	323.9	130.6	54.7	3.1	0.4	2.7	4.9
58°	817.9	786.9	674.8	463.0	244.1	90.6	45.3	2.2	0.4	2.2	4.9
59°	706.6	672.5	561.3	356.2	169.6	66.8	34.1	1.8	0.4	2.7	4.9
60°	612.0	568.0	451.8	275.9	121.1	48.0	25.1	0.9	0.9	2.7	4.9
62.5°	352.6	311.4	215.8	112.2	49.8	24.7	12.1	0.4	0.9	2.7	4.9
65°	89.3	79.4	51.6	24.2	13.9	8.5	4.5	0.4	0.9	2.2	4.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	3.1	3.1	3.1	2.7	2.2	1.8	0.9	0.4	0.9	2.2	4.5
70°	1.3	1.3	1.3	0.9	0.9	0.4	0.4	0.4	0.9	2.2	4.0
72.5°	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	1.3	2.2	3.6
75°	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	1.3	2.2	3.6
77.5°	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	1.3	1.8	3.1
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3	1.8	2.7
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3	1.8	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	1.3	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	1.8	1.3
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):

	135°	157.5°	180°
0°	22.9	22.9	22.9
2.5°	21.5	21.5	21.5
5°	20.2	20.2	19.7
7.5°	18.8	18.4	18.4
10°	17.0	17.0	17.0
12.5°	15.7	15.7	15.7
15°	14.4	14.8	14.8
17.5°	13.0	13.9	13.9
20°	12.1	13.0	13.5
22.5°	11.2	12.1	12.6
25°	10.8	11.7	12.1
27.5°	9.9	11.2	12.1
30°	9.4	10.8	11.7
31°	9.4	10.8	11.2
32°	9.0	10.8	11.2
33°	9.0	10.8	11.2
34°	9.0	10.3	11.2
35°	8.5	10.3	10.8
36°	8.5	10.3	10.8
37°	8.5	10.3	11.2
38°	8.5	10.3	10.8
39°	8.1	10.3	10.8
40°	8.1	10.3	10.8
41°	8.1	10.3	10.8
42°	8.1	10.3	10.8
43°	8.1	10.3	10.8
44°	8.1	9.9	10.8
45°	8.1	9.9	10.8
46°	8.1	10.3	10.8
47°	8.1	10.3	11.2
48°	8.1	9.9	10.8
49°	7.6	9.9	10.8
50°	7.6	9.9	10.8
51°	7.6	10.3	11.2
52°	7.6	10.3	11.2
53°	7.6	10.3	11.2
54°	7.6	10.3	10.8
55°	7.6	10.3	11.2
56°	7.6	10.3	10.8
57°	7.6	10.3	10.8
58°	7.6	9.9	10.8
59°	7.6	9.9	10.8
60°	7.6	9.9	10.8
62.5°	7.2	9.9	10.8
65°	7.2	9.4	10.3



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	6.7	9.4	9.9
70°	6.3	9.0	9.4
72.5°	5.8	8.5	9.0
75°	5.4	7.6	8.1
77.5°	4.5	6.7	7.6
80°	4.0	5.8	6.3
82.5°	3.1	4.9	5.4
85°	2.2	3.6	3.6
87.5°	0.9	1.8	1.8
90°	0.0	0.0	0.0

(END OF REPORT)