

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: P1338464

Luminaire Tested: P3A05R359740DE010 E3CA451MB

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338464
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: P3A05R359740DE010 E3CA451MB
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 97CRI , E3CA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

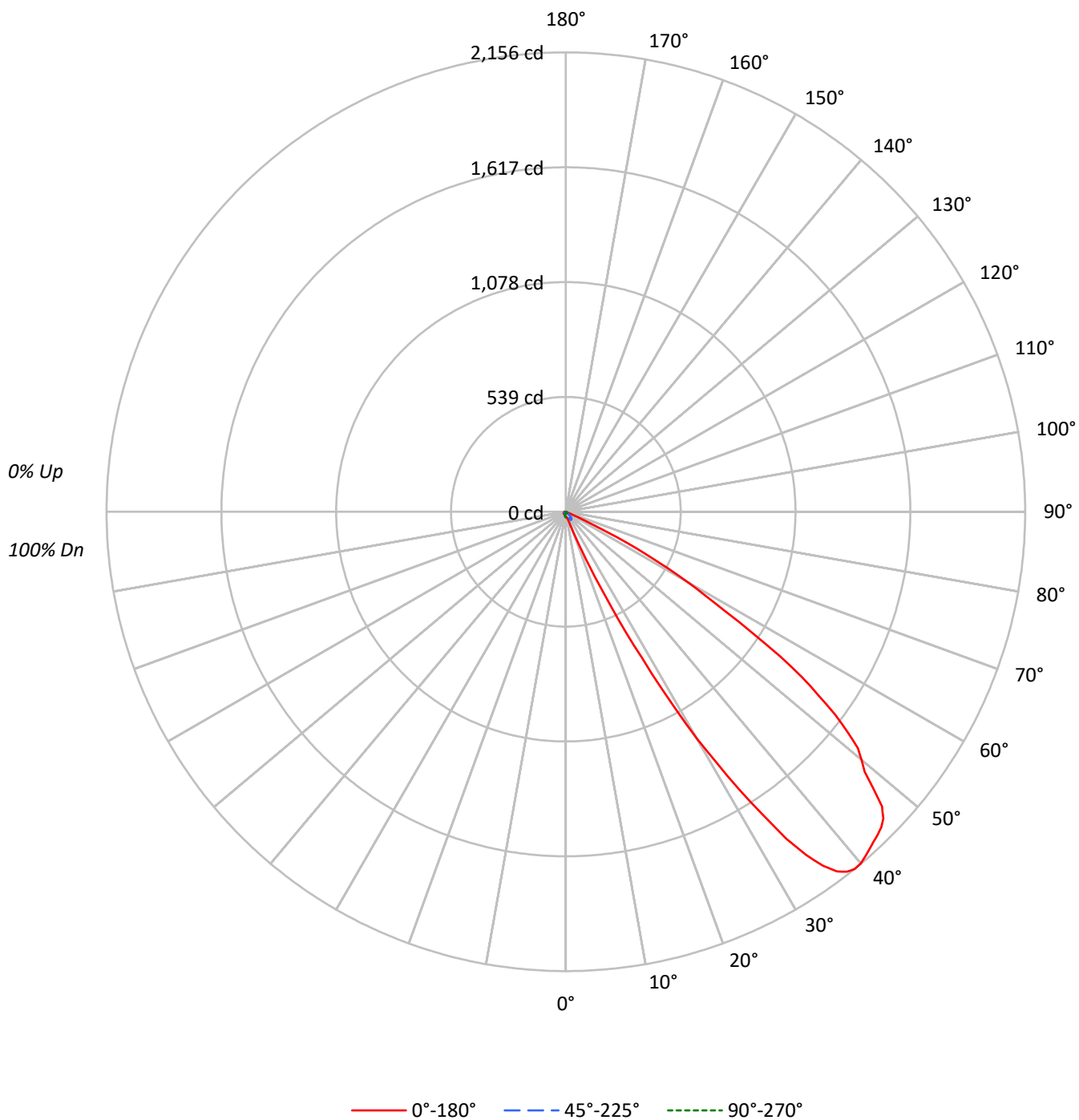
Lumens per Lamp: N/A
Luminaire Lumens: 537.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5416	5416	5416	5416	5416
5°	5877	5767	5327	4799	4689
10°	6146	5611	4743	4097	4097
15°	8808	5494	3859	3519	3632
20°	22052	5881	3057	3057	3384
25°	102393	7500	2347	2807	3170
30°	311263	10179	1848	2583	3190
35°	526069	11805	1553	2463	3105
40°	616670	11650	1260	2490	3321
45°	649432	8280	1054	2698	3597
50°	618146	4947	989	2797	3957
55°	517984	2026	1109	3135	4626
60°	289977	439	1272	3596	5087
65°	50070	259	1245	4047	5759
70°	962	321	1539	4360	6540
75°	847	424	2033	4914	7371
80°	631	631	2399	5556	8587
85°	0	1258	4780	6038	9812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 654030 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.4
10°-20°	6.3	1.2
20°-30°	32.9	6.1
30°-40°	142.3	26.5
40°-50°	203.0	37.8
50°-60°	125.7	23.4
60°-70°	19.1	3.6
70°-80°	3.6	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°	41.5	7.7
0°-40°	183.8	34.2
0°-60°	512.5	95.4
0°-90°	537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	537.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	27	26	24	22	21	3
15°	39	24	17	16	16	14
25°	423	31	10	12	13	253
35°	1965	44	6	9	12	1180
45°	2094	27	3	9	12	1582
55°	1355	5	3	8	12	1154
65°	96	0	2	8	11	197
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°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
2.5°	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	24.7	24.2
5°	26.7	26.7	26.2	26.2	26.2	26.2	26.2	26.2	25.2	24.2	22.8
7.5°	27.1	27.1	26.7	26.7	26.7	26.7	26.2	25.7	24.7	22.8	21.3
10°	27.6	27.6	27.6	27.6	27.1	26.7	26.2	25.2	23.8	21.3	19.9
12.5°	31.0	31.0	30.5	29.6	28.6	27.6	26.7	24.7	21.8	19.4	17.9
15°	38.8	38.3	37.3	35.9	33.9	31.5	29.6	24.2	19.9	17.0	16.0
17.5°	54.3	53.3	51.9	47.0	42.7	38.3	34.4	24.2	17.9	15.0	14.1
20°	94.5	95.0	84.8	73.2	63.5	52.8	43.1	25.2	16.0	13.1	12.6
22.5°	197.3	189.5	165.3	137.2	104.7	81.0	61.1	27.6	14.1	11.1	11.1
25°	423.2	393.6	335.0	253.0	178.4	126.5	88.7	31.0	12.6	9.7	10.2
27.5°	772.7	746.0	628.2	473.1	314.1	191.0	120.2	35.4	11.1	8.2	9.2
30°	1229.3	1155.7	1002.0	775.6	525.0	292.3	161.4	40.2	9.2	7.3	8.7
31°	1371.9	1337.9	1150.8	897.3	615.2	347.1	178.9	41.7	8.7	7.3	8.2
32°	1541.0	1480.9	1313.2	1030.6	706.8	396.0	199.7	43.1	8.2	6.3	8.2
33°	1692.3	1634.1	1430.0	1147.9	799.4	451.8	222.0	43.6	7.3	6.3	7.8
34°	1851.3	1771.8	1569.6	1270.5	894.4	511.9	242.4	44.1	6.8	5.8	7.8
35°	1965.2	1885.7	1689.9	1367.5	976.3	565.2	265.6	44.1	6.3	5.8	7.3
36°	2053.4	1983.6	1793.6	1467.4	1057.7	613.2	284.1	44.1	5.3	5.3	7.3
37°	2114.0	2047.6	1863.4	1553.2	1119.8	655.9	300.5	44.1	4.8	5.3	7.3
38°	2143.6	2088.3	1930.8	1615.7	1179.9	689.3	313.6	43.1	4.4	4.8	6.8
39°	2156.2	2111.1	1972.0	1668.5	1225.0	718.4	323.3	42.2	3.9	4.8	6.8
40°	2154.3	2115.0	1995.3	1704.9	1261.3	738.3	328.7	40.7	3.4	4.4	6.8
41°	2143.1	2109.2	2007.4	1735.9	1283.2	751.9	330.1	39.3	2.9	4.4	6.3
42°	2130.5	2099.5	2011.3	1752.4	1297.2	756.2	326.2	37.3	2.9	3.9	6.3
43°	2117.4	2088.8	2011.3	1757.7	1300.6	753.3	319.9	33.9	2.4	3.9	6.3
44°	2106.8	2079.6	2005.0	1756.3	1293.3	742.2	308.3	30.1	1.9	3.9	6.3
45°	2094.2	2067.5	1996.7	1747.1	1279.3	723.3	293.8	26.7	1.5	3.4	6.3
46°	2071.9	2051.0	1982.2	1728.2	1257.0	697.1	275.3	24.2	1.0	3.4	5.8
47°	2028.7	2010.8	1954.1	1700.0	1227.4	666.1	256.4	21.8	1.0	3.4	5.8
48°	1941.9	1941.5	1897.8	1647.7	1180.4	627.3	236.6	19.4	1.0	3.4	5.8
49°	1858.1	1849.3	1795.1	1555.6	1113.0	580.7	215.7	17.5	0.5	3.4	5.8
50°	1812.0	1793.1	1703.9	1447.0	1026.7	516.3	193.4	14.5	0.5	2.9	5.8
51°	1764.0	1736.9	1631.7	1349.1	923.9	454.2	169.2	11.6	0.5	2.9	5.3
52°	1677.3	1651.6	1533.8	1255.5	824.1	390.7	145.9	9.7	0.5	2.9	5.8
53°	1583.7	1546.9	1418.9	1152.8	736.3	334.5	122.2	8.2	0.5	2.9	5.3
54°	1465.9	1449.4	1302.5	1026.7	633.6	280.2	100.3	6.8	0.5	2.9	5.3
55°	1354.9	1330.7	1178.0	897.8	540.5	229.8	83.9	5.3	0.5	2.9	5.3
56°	1213.3	1177.0	1034.0	779.5	446.0	185.2	70.8	4.4	0.5	2.9	5.3
57°	1044.7	1005.9	892.9	648.1	350.0	141.1	59.1	3.4	0.5	2.9	5.3
58°	883.7	850.3	729.1	500.3	263.7	97.9	49.0	2.4	0.5	2.4	5.3
59°	763.5	726.7	606.4	384.9	183.2	72.2	36.8	1.9	0.5	2.9	5.3
60°	661.2	613.7	488.2	298.1	130.9	51.9	27.1	1.0	1.0	2.9	5.3
62.5°	381.0	336.4	233.2	121.2	53.8	26.7	13.1	0.5	1.0	2.9	5.3
65°	96.5	85.8	55.7	26.2	15.0	9.2	4.8	0.5	1.0	2.4	4.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	3.4	3.4	3.4	2.9	2.4	1.9	1.0	0.5	1.0	2.4	4.8
70°	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.5	1.0	2.4	4.4
72.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.5	2.4	3.9
75°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.5	2.4	3.9
77.5°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	1.5	1.9	3.4
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	1.9	2.9
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	1.9	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	1.5	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	1.9	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°	24.7	24.7	24.7
2.5°	23.3	23.3	23.3
5°	21.8	21.8	21.3
7.5°	20.4	19.9	19.9
10°	18.4	18.4	18.4
12.5°	17.0	17.0	17.0
15°	15.5	16.0	16.0
17.5°	14.1	15.0	15.0
20°	13.1	14.1	14.5
22.5°	12.1	13.1	13.6
25°	11.6	12.6	13.1
27.5°	10.7	12.1	13.1
30°	10.2	11.6	12.6
31°	10.2	11.6	12.1
32°	9.7	11.6	12.1
33°	9.7	11.6	12.1
34°	9.7	11.1	12.1
35°	9.2	11.1	11.6
36°	9.2	11.1	11.6
37°	9.2	11.1	12.1
38°	9.2	11.1	11.6
39°	8.7	11.1	11.6
40°	8.7	11.1	11.6
41°	8.7	11.1	11.6
42°	8.7	11.1	11.6
43°	8.7	11.1	11.6
44°	8.7	10.7	11.6
45°	8.7	10.7	11.6
46°	8.7	11.1	11.6
47°	8.7	11.1	12.1
48°	8.7	10.7	11.6
49°	8.2	10.7	11.6
50°	8.2	10.7	11.6
51°	8.2	11.1	12.1
52°	8.2	11.1	12.1
53°	8.2	11.1	12.1
54°	8.2	11.1	11.6
55°	8.2	11.1	12.1
56°	8.2	11.1	11.6
57°	8.2	11.1	11.6
58°	8.2	10.7	11.6
59°	8.2	10.7	11.6
60°	8.2	10.7	11.6
62.5°	7.8	10.7	11.6
65°	7.8	10.2	11.1



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	7.3	10.2	10.7
70°	6.8	9.7	10.2
72.5°	6.3	9.2	9.7
75°	5.8	8.2	8.7
77.5°	4.8	7.3	8.2
80°	4.4	6.3	6.8
82.5°	3.4	5.3	5.8
85°	2.4	3.9	3.9
87.5°	1.0	1.9	1.9
90°	0.0	0.0	0.0

(END OF REPORT)