

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: P1335495

Luminaire Tested: P3A02R359835DE010 E3CA451MMS

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335495
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: P3A02R359835DE010 E3CA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 98CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

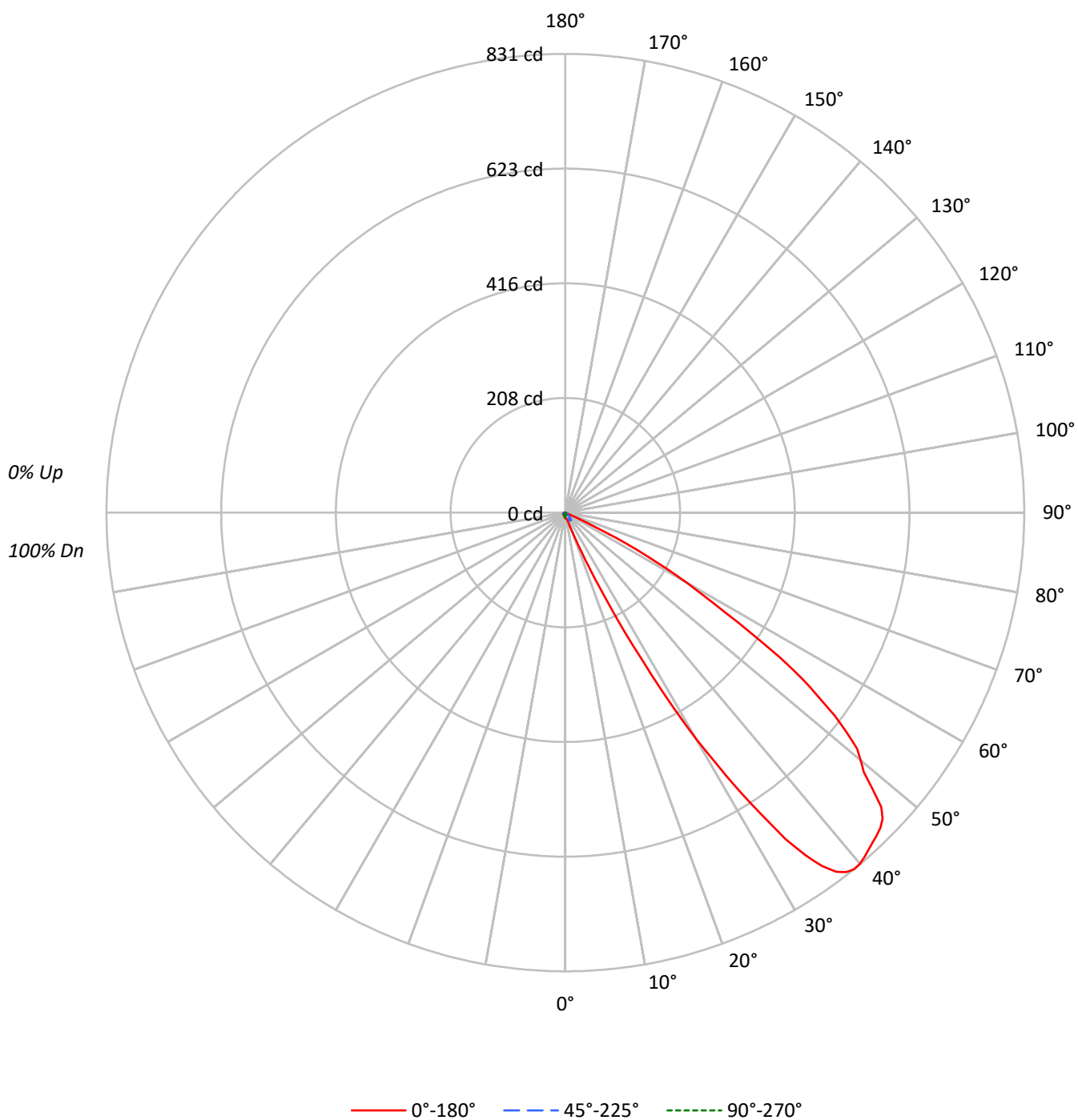
Lumens per Lamp: N/A
Luminaire Lumens: 207.0 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.42
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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°	2083	2083	2083	2083	2083
5°	2267	2223	2047	1849	1805
10°	2382	2160	1826	1581	1581
15°	3383	2111	1476	1362	1407
20°	8494	2264	1167	1167	1307
25°	39462	2903	895	1089	1210
30°	119993	3925	709	987	1241
35°	202777	4551	589	964	1205
40°	237702	4494	487	973	1288
45°	250321	3194	403	1054	1395
50°	238286	1910	375	1092	1535
55°	199677	803	421	1223	1797
60°	111789	175	482	1403	1974
65°	19302	104	467	1557	2231
70°	385	128	577	1667	2500
75°	339	169	763	1864	2881
80°	253	253	884	2147	3283
85°	0	503	1761	2264	3774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 252092 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.4
10°-20°	2.4	1.2
20°-30°	12.7	6.1
30°-40°	54.9	26.5
40°-50°	78.2	37.8
50°-60°	48.5	23.4
60°-70°	7.4	3.6
70°-80°	1.4	0.7
80°-90°	0.7	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°	16.0	7.7
0°-40°	70.9	34.2
0°-60°	197.6	95.4
0°-90°	207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	207.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	10	10	9	8	8	1
15°	15	9	6	6	6	5
25°	163	12	4	4	5	98
35°	758	17	2	4	4	455
45°	807	10	1	3	4	610
55°	522	2	1	3	5	445
65°	37	0	1	3	4	76
75°	0	0	1	2	3	0
85°	0	0	1	1	2	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°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
2.5°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.5	9.3
5°	10.3	10.3	10.1	10.1	10.1	10.1	10.1	10.1	9.7	9.3	8.8
7.5°	10.5	10.5	10.3	10.3	10.3	10.3	10.1	9.9	9.5	8.8	8.2
10°	10.7	10.7	10.7	10.7	10.5	10.3	10.1	9.7	9.2	8.2	7.7
12.5°	12.0	12.0	11.8	11.4	11.0	10.7	10.3	9.5	8.4	7.5	6.9
15°	14.9	14.8	14.4	13.8	13.1	12.1	11.4	9.3	7.7	6.5	6.2
17.5°	20.9	20.6	20.0	18.1	16.4	14.8	13.3	9.3	6.9	5.8	5.4
20°	36.4	36.6	32.7	28.2	24.5	20.4	16.6	9.7	6.2	5.0	4.9
22.5°	76.1	73.1	63.7	52.9	40.4	31.2	23.5	10.7	5.4	4.3	4.3
25°	163.1	151.7	129.1	97.5	68.8	48.8	34.2	12.0	4.9	3.7	3.9
27.5°	297.9	287.6	242.2	182.4	121.1	73.6	46.3	13.6	4.3	3.2	3.6
30°	473.9	445.5	386.2	299.0	202.4	112.7	62.2	15.5	3.6	2.8	3.4
31°	528.8	515.7	443.6	345.9	237.1	133.8	69.0	16.1	3.4	2.8	3.2
32°	594.0	570.9	506.2	397.3	272.4	152.7	77.0	16.6	3.2	2.4	3.2
33°	652.3	629.9	551.2	442.5	308.1	174.2	85.6	16.8	2.8	2.4	3.0
34°	713.6	683.0	605.1	489.8	344.8	197.3	93.4	17.0	2.6	2.2	3.0
35°	757.5	726.9	651.4	527.1	376.3	217.9	102.4	17.0	2.4	2.2	2.8
36°	791.5	764.6	691.4	565.6	407.7	236.4	109.5	17.0	2.1	2.1	2.8
37°	814.9	789.3	718.3	598.7	431.7	252.8	115.9	17.0	1.9	2.1	2.8
38°	826.3	805.0	744.3	622.8	454.8	265.7	120.9	16.6	1.7	1.9	2.6
39°	831.2	813.8	760.2	643.2	472.2	276.9	124.6	16.3	1.5	1.9	2.6
40°	830.4	815.3	769.1	657.2	486.2	284.6	126.7	15.7	1.3	1.7	2.6
41°	826.1	813.0	773.8	669.2	494.6	289.8	127.3	15.1	1.1	1.7	2.4
42°	821.3	809.3	775.3	675.5	500.0	291.5	125.8	14.4	1.1	1.5	2.4
43°	816.2	805.2	775.3	677.6	501.4	290.4	123.3	13.1	0.9	1.5	2.4
44°	812.1	801.6	772.9	677.0	498.5	286.1	118.8	11.6	0.7	1.5	2.4
45°	807.2	797.0	769.7	673.4	493.1	278.8	113.2	10.3	0.6	1.3	2.4
46°	798.6	790.6	764.1	666.2	484.5	268.7	106.1	9.3	0.4	1.3	2.2
47°	782.0	775.1	753.2	655.3	473.1	256.7	98.8	8.4	0.4	1.3	2.2
48°	748.6	748.4	731.6	635.1	455.0	241.8	91.2	7.5	0.4	1.3	2.2
49°	716.2	712.9	691.9	599.6	429.0	223.9	83.2	6.7	0.2	1.3	2.2
50°	698.5	691.2	656.8	557.8	395.8	199.0	74.6	5.6	0.2	1.1	2.2
51°	680.0	669.5	629.0	520.0	356.2	175.1	65.2	4.5	0.2	1.1	2.1
52°	646.5	636.6	591.2	484.0	317.7	150.6	56.2	3.7	0.2	1.1	2.2
53°	610.5	596.3	546.9	444.4	283.8	128.9	47.1	3.2	0.2	1.1	2.1
54°	565.1	558.7	502.1	395.8	244.2	108.0	38.7	2.6	0.2	1.1	2.1
55°	522.3	512.9	454.1	346.1	208.4	88.6	32.3	2.1	0.2	1.1	2.1
56°	467.7	453.7	398.6	300.5	171.9	71.4	27.3	1.7	0.2	1.1	2.1
57°	402.7	387.7	344.2	249.8	134.9	54.4	22.8	1.3	0.2	1.1	2.1
58°	340.6	327.8	281.0	192.8	101.7	37.7	18.9	0.9	0.2	0.9	2.1
59°	294.3	280.1	233.8	148.4	70.6	27.8	14.2	0.7	0.2	1.1	2.1
60°	254.9	236.6	188.2	114.9	50.5	20.0	10.5	0.4	0.4	1.1	2.1
62.5°	146.9	129.7	89.9	46.7	20.7	10.3	5.0	0.2	0.4	1.1	2.1
65°	37.2	33.1	21.5	10.1	5.8	3.6	1.9	0.2	0.4	0.9	1.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	1.3	1.3	1.3	1.1	0.9	0.7	0.4	0.2	0.4	0.9	1.9
70°	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.2	0.4	0.9	1.7
72.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	0.9	1.5
75°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	0.9	1.5
77.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.7	1.3
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.7	1.1
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.7	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.6	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.7	0.6
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°	9.5	9.5	9.5
2.5°	9.0	9.0	9.0
5°	8.4	8.4	8.2
7.5°	7.8	7.7	7.7
10°	7.1	7.1	7.1
12.5°	6.5	6.5	6.5
15°	6.0	6.2	6.2
17.5°	5.4	5.8	5.8
20°	5.0	5.4	5.6
22.5°	4.7	5.0	5.2
25°	4.5	4.9	5.0
27.5°	4.1	4.7	5.0
30°	3.9	4.5	4.9
31°	3.9	4.5	4.7
32°	3.7	4.5	4.7
33°	3.7	4.5	4.7
34°	3.7	4.3	4.7
35°	3.6	4.3	4.5
36°	3.6	4.3	4.5
37°	3.6	4.3	4.7
38°	3.6	4.3	4.5
39°	3.4	4.3	4.5
40°	3.4	4.3	4.5
41°	3.4	4.3	4.5
42°	3.4	4.3	4.5
43°	3.4	4.3	4.5
44°	3.4	4.1	4.5
45°	3.4	4.1	4.5
46°	3.4	4.3	4.5
47°	3.4	4.3	4.7
48°	3.4	4.1	4.5
49°	3.2	4.1	4.5
50°	3.2	4.1	4.5
51°	3.2	4.3	4.7
52°	3.2	4.3	4.7
53°	3.2	4.3	4.7
54°	3.2	4.3	4.5
55°	3.2	4.3	4.7
56°	3.2	4.3	4.5
57°	3.2	4.3	4.5
58°	3.2	4.1	4.5
59°	3.2	4.1	4.5
60°	3.2	4.1	4.5
62.5°	3.0	4.1	4.5
65°	3.0	3.9	4.3



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	2.8	3.9	4.1
70°	2.6	3.7	3.9
72.5°	2.4	3.6	3.7
75°	2.2	3.2	3.4
77.5°	1.9	2.8	3.2
80°	1.7	2.4	2.6
82.5°	1.3	2.1	2.2
85°	0.9	1.5	1.5
87.5°	0.4	0.7	0.7
90°	0.0	0.0	0.0

(END OF REPORT)