

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: P1338481

Luminaire Tested: P3A05R359827DE010 E3CA451MMS

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338481
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: P3A05R359827DE010 E3CA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 98CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

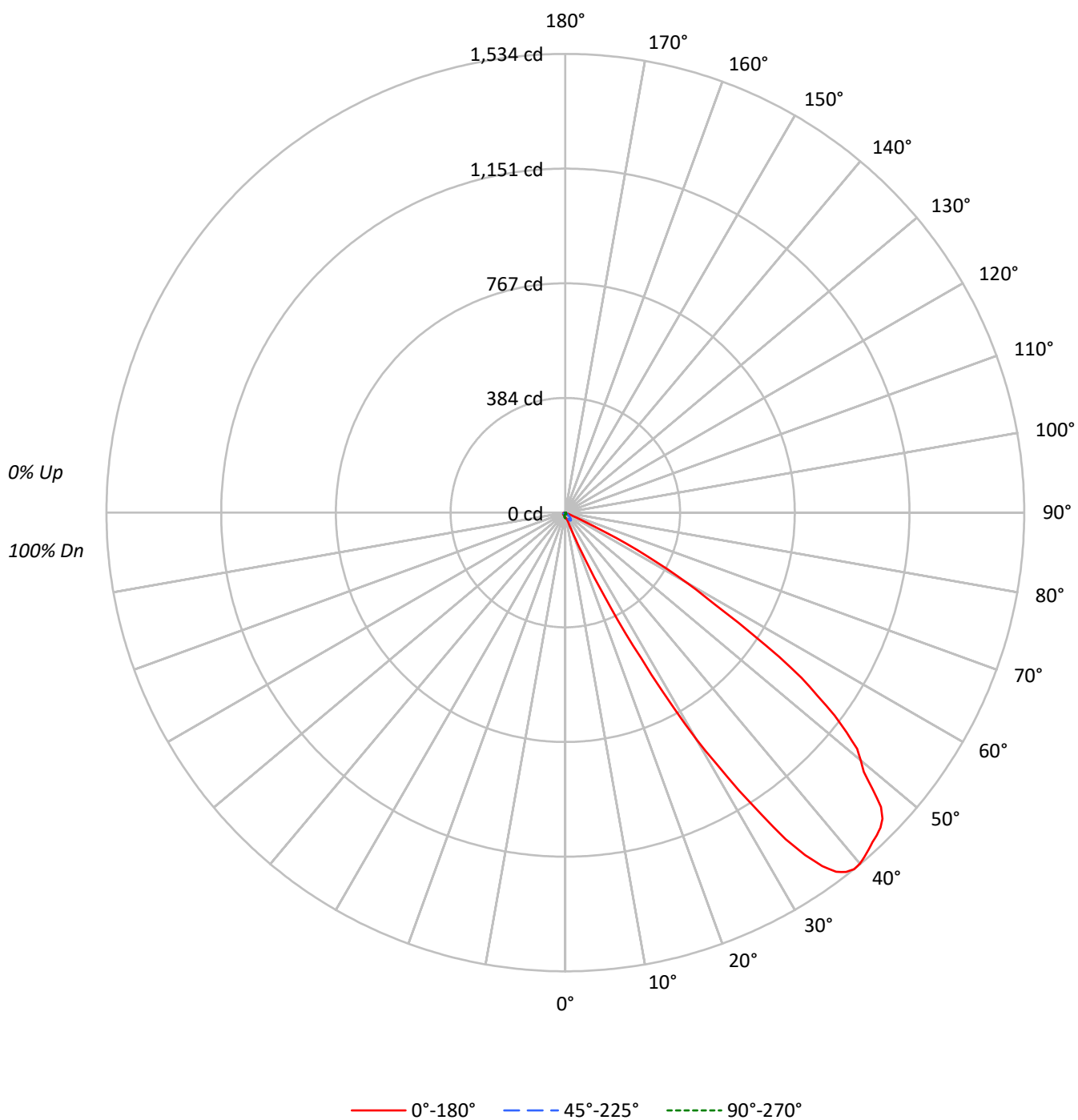
Lumens per Lamp: N/A
Luminaire Lumens: 382.0 lumens
Efficiency: N/A
Efficacy: 53.1 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35	35
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29	29
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24	24
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20	20
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3859	3859	3859	3859	3859
5°	4182	4094	3786	3412	3346
10°	4386	3986	3384	2917	2917
15°	6266	3905	2747	2497	2588
20°	15681	4177	2170	2170	2404
25°	72827	5347	1669	2008	2250
30°	221426	7242	1317	1823	2279
35°	374234	8406	1098	1767	2222
40°	438679	8301	887	1775	2376
45°	461970	5892	744	1923	2574
50°	439730	3514	716	2013	2831
55°	368465	1453	803	2256	3288
60°	206299	307	921	2588	3640
65°	35594	156	882	2854	4099
70°	641	192	1090	3077	4616
75°	593	254	1440	3474	5253
80°	379	379	1768	3915	6061
85°	0	755	3522	4277	7045

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 465230 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.4
10°-20°	4.5	1.2
20°-30°	23.4	6.1
30°-40°	101.2	26.5
40°-50°	144.4	37.8
50°-60°	89.4	23.4
60°-70°	13.6	3.6
70°-80°	2.5	0.7
80°-90°	1.3	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°	29.5	7.7
0°-40°	130.8	34.2
0°-60°	364.6	95.4
0°-90°	382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	382.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	19	19	17	16	15	2
15°	28	17	12	11	11	10
25°	301	22	7	8	9	180
35°	1398	31	4	7	8	839
45°	1490	19	2	6	8	1125
55°	964	4	2	6	9	821
65°	69	0	2	6	8	140
75°	1	0	2	4	6	1
85°	0	0	1	2	3	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°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
2.5°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	17.6	17.2
5°	19.0	19.0	18.6	18.6	18.6	18.6	18.6	18.6	17.9	17.2	16.2
7.5°	19.3	19.3	19.0	19.0	19.0	19.0	18.6	18.3	17.6	16.2	15.2
10°	19.7	19.7	19.7	19.7	19.3	19.0	18.6	17.9	16.9	15.2	14.1
12.5°	22.1	22.1	21.7	21.0	20.3	19.7	19.0	17.6	15.5	13.8	12.8
15°	27.6	27.2	26.6	25.5	24.1	22.4	21.0	17.2	14.1	12.1	11.4
17.5°	38.6	37.9	36.9	33.4	30.3	27.2	24.5	17.2	12.8	10.7	10.0
20°	67.2	67.6	60.3	52.1	45.2	37.6	30.7	17.9	11.4	9.3	9.0
22.5°	140.3	134.8	117.6	97.6	74.5	57.6	43.4	19.7	10.0	7.9	7.9
25°	301.0	280.0	238.3	180.0	126.9	90.0	63.1	22.1	9.0	6.9	7.2
27.5°	549.7	530.7	446.9	336.6	223.5	135.9	85.5	25.2	7.9	5.9	6.6
30°	874.5	822.1	712.8	551.7	373.5	207.9	114.8	28.6	6.6	5.2	6.2
31°	975.9	951.7	818.6	638.3	437.6	246.9	127.2	29.7	6.2	5.2	5.9
32°	1096.2	1053.5	934.2	733.1	502.8	281.7	142.1	30.7	5.9	4.5	5.9
33°	1203.8	1162.4	1017.3	816.6	568.6	321.4	157.9	31.0	5.2	4.5	5.5
34°	1316.9	1260.4	1116.6	903.8	636.2	364.1	172.4	31.4	4.8	4.1	5.5
35°	1398.0	1341.4	1202.1	972.8	694.5	402.1	189.0	31.4	4.5	4.1	5.2
36°	1460.7	1411.1	1275.9	1043.8	752.4	436.2	202.1	31.4	3.8	3.8	5.2
37°	1503.8	1456.6	1325.6	1104.9	796.6	466.6	213.8	31.4	3.4	3.8	5.2
38°	1524.9	1485.6	1373.5	1149.3	839.3	490.4	223.1	30.7	3.1	3.4	4.8
39°	1533.8	1501.8	1402.8	1186.9	871.4	511.0	230.0	30.0	2.8	3.4	4.8
40°	1532.5	1504.5	1419.3	1212.8	897.3	525.2	233.8	29.0	2.4	3.1	4.8
41°	1524.5	1500.4	1428.0	1234.9	912.8	534.8	234.8	27.9	2.1	3.1	4.5
42°	1515.6	1493.5	1430.7	1246.6	922.8	537.9	232.1	26.6	2.1	2.8	4.5
43°	1506.2	1485.9	1430.7	1250.4	925.2	535.9	227.6	24.1	1.7	2.8	4.5
44°	1498.7	1479.3	1426.2	1249.3	920.0	527.9	219.3	21.4	1.4	2.8	4.5
45°	1489.7	1470.7	1420.4	1242.8	910.0	514.5	209.0	19.0	1.0	2.4	4.5
46°	1473.8	1459.0	1410.0	1229.3	894.2	495.9	195.9	17.2	0.7	2.4	4.1
47°	1443.1	1430.4	1390.0	1209.3	873.1	473.8	182.4	15.5	0.7	2.4	4.1
48°	1381.4	1381.1	1350.0	1172.1	839.7	446.2	168.3	13.8	0.7	2.4	4.1
49°	1321.8	1315.6	1276.9	1106.6	791.7	413.1	153.5	12.4	0.3	2.4	4.1
50°	1289.0	1275.6	1212.1	1029.3	730.4	367.3	137.6	10.3	0.3	2.1	4.1
51°	1254.9	1235.6	1160.7	959.7	657.3	323.1	120.3	8.3	0.3	2.1	3.8
52°	1193.1	1174.9	1091.1	893.1	586.2	277.9	103.8	6.9	0.3	2.1	4.1
53°	1126.6	1100.4	1009.3	820.0	523.8	237.9	86.9	5.9	0.3	2.1	3.8
54°	1042.8	1031.1	926.6	730.4	450.7	199.3	71.4	4.8	0.3	2.1	3.8
55°	963.8	946.6	838.0	638.6	384.5	163.5	59.7	3.8	0.3	2.1	3.8
56°	863.1	837.3	735.5	554.5	317.2	131.7	50.3	3.1	0.3	2.1	3.8
57°	743.1	715.5	635.2	461.0	249.0	100.3	42.1	2.4	0.3	2.1	3.8
58°	628.6	604.8	518.6	355.9	187.6	69.7	34.8	1.7	0.3	1.7	3.8
59°	543.1	516.9	431.4	273.8	130.3	51.4	26.2	1.4	0.3	2.1	3.8
60°	470.4	436.6	347.3	212.1	93.1	36.9	19.3	0.7	0.7	2.1	3.8
62.5°	271.0	239.3	165.9	86.2	38.3	19.0	9.3	0.3	0.7	2.1	3.8
65°	68.6	61.0	39.7	18.6	10.7	6.6	3.4	0.3	0.7	1.7	3.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	2.4	2.4	2.4	2.1	1.7	1.4	0.7	0.3	0.7	1.7	3.4
70°	1.0	1.0	1.0	0.7	0.7	0.3	0.3	0.3	0.7	1.7	3.1
72.5°	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	1.0	1.7	2.8
75°	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	1.0	1.7	2.8
77.5°	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.4	2.4
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.4	2.1
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.4	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	1.0	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.4	1.0
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°	17.6	17.6	17.6
2.5°	16.6	16.6	16.6
5°	15.5	15.5	15.2
7.5°	14.5	14.1	14.1
10°	13.1	13.1	13.1
12.5°	12.1	12.1	12.1
15°	11.0	11.4	11.4
17.5°	10.0	10.7	10.7
20°	9.3	10.0	10.3
22.5°	8.6	9.3	9.7
25°	8.3	9.0	9.3
27.5°	7.6	8.6	9.3
30°	7.2	8.3	9.0
31°	7.2	8.3	8.6
32°	6.9	8.3	8.6
33°	6.9	8.3	8.6
34°	6.9	7.9	8.6
35°	6.6	7.9	8.3
36°	6.6	7.9	8.3
37°	6.6	7.9	8.6
38°	6.6	7.9	8.3
39°	6.2	7.9	8.3
40°	6.2	7.9	8.3
41°	6.2	7.9	8.3
42°	6.2	7.9	8.3
43°	6.2	7.9	8.3
44°	6.2	7.6	8.3
45°	6.2	7.6	8.3
46°	6.2	7.9	8.3
47°	6.2	7.9	8.6
48°	6.2	7.6	8.3
49°	5.9	7.6	8.3
50°	5.9	7.6	8.3
51°	5.9	7.9	8.6
52°	5.9	7.9	8.6
53°	5.9	7.9	8.6
54°	5.9	7.9	8.3
55°	5.9	7.9	8.6
56°	5.9	7.9	8.3
57°	5.9	7.9	8.3
58°	5.9	7.6	8.3
59°	5.9	7.6	8.3
60°	5.9	7.6	8.3
62.5°	5.5	7.6	8.3
65°	5.5	7.2	7.9



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	5.2	7.2	7.6
70°	4.8	6.9	7.2
72.5°	4.5	6.6	6.9
75°	4.1	5.9	6.2
77.5°	3.4	5.2	5.9
80°	3.1	4.5	4.8
82.5°	2.4	3.8	4.1
85°	1.7	2.8	2.8
87.5°	0.7	1.4	1.4
90°	0.0	0.0	0.0

(END OF REPORT)