

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: P1306040

Luminaire Tested: P3SQASS17R209024DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQASS17R209024DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

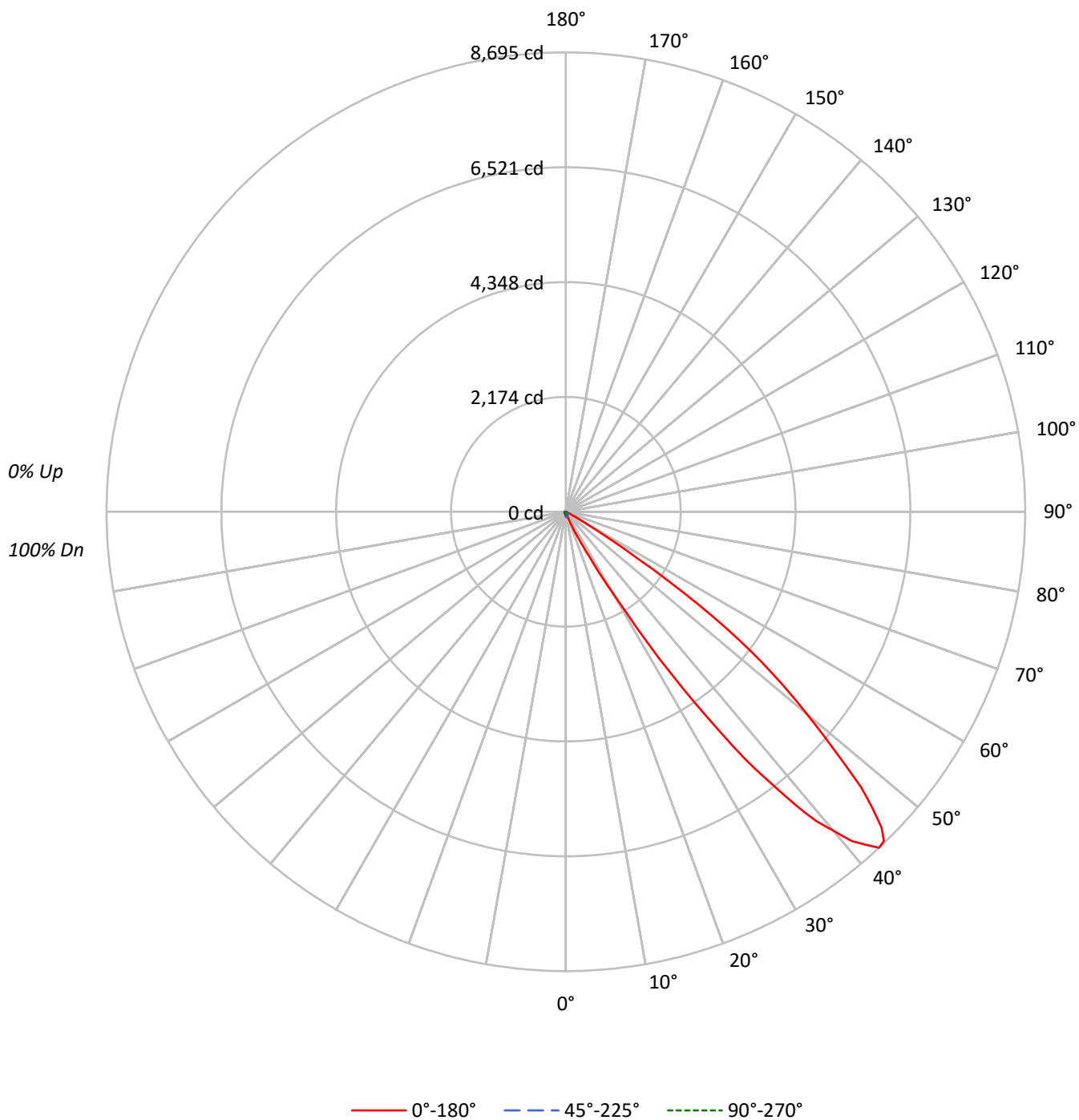
Lumens per Lamp: N/A
Luminaire Lumens: 1208.0 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	65		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	38	52	44	38		50	43	38		48	42	37	35
7	62	48	39	32	60	47	38	32	46	38	32		44	37	32		43	36	31	29
8	57	42	33	27	55	42	33	27	40	33	27		39	32	27		38	31	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	19		31	24	19		30	24	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14467	14467	14467	14467	14467
5°	16873	15698	13537	11773	11376
10°	16683	14288	10720	9129	8936
15°	14567	10930	7899	7292	7685
20°	21645	9164	5828	6250	6873
25°	93189	9501	4523	5606	6689
30°	352410	11514	3838	5409	6543
35°	1068318	13834	3574	5487	6917
40°	1771520	13782	3058	5868	7397
45°	2059077	9401	2777	6089	8013
50°	1598395	5171	2733	6377	9136
55°	925104	3423	2732	7146	9879
60°	156413	792	2342	7440	10953
65°	12022	0	2771	8313	12511
70°	1712	0	3424	9165	14301
75°	1530	732	3793	10580	16635
80°	1091	1091	5653	11306	19142
85°	2174	2174	8892	11263	20156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2059077 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.6
10°-20°	15.1	1.3
20°-30°	48.2	4.0
30°-40°	308.0	25.5
40°-50°	563.9	46.7
50°-60°	231.7	19.2
60°-70°	19.5	1.6
70°-80°	9.7	0.8
80°-90°	4.6	0.4
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°	70.6	5.8
0°-40°	378.6	31.3
0°-60°	1174.1	97.2
0°-90°	1208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1208.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	84	84	84	84	84	
5°	98	91	78	68	66	9
15°	82	61	44	41	43	26
25°	490	50	24	30	35	322
35°	5081	66	17	26	33	3216
45°	8454	39	11	25	33	6070
55°	3081	11	9	24	33	2693
65°	30	0	7	20	31	96
75°	2	1	6	16	25	3
85°	1	1	4	6	10	1
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°	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
2.5°	92.0	92.0	92.0	90.8	90.8	92.0	90.8	90.8	90.8	90.8	89.7
5°	97.6	97.6	97.6	97.6	97.6	97.6	97.6	96.5	96.5	95.4	90.8
7.5°	99.9	99.9	99.9	99.9	98.8	98.8	98.8	98.8	97.6	96.5	88.5
10°	95.4	95.4	95.4	94.2	94.2	94.2	93.1	93.1	92.0	90.8	81.7
12.5°	86.3	86.3	86.3	86.3	85.1	85.1	84.0	84.0	82.9	81.7	71.5
15°	81.7	81.7	81.7	80.6	80.6	79.5	78.3	77.2	76.1	73.8	61.3
17.5°	88.5	88.5	87.4	87.4	85.1	82.9	81.7	78.3	76.1	72.7	54.5
20°	118.1	119.2	114.7	111.3	109.0	102.2	98.8	93.1	88.5	82.9	50.0
22.5°	238.4	233.9	225.9	213.4	198.7	186.2	163.5	145.3	132.8	115.8	48.8
25°	490.4	485.9	464.3	446.1	400.7	365.5	316.7	277.0	236.1	196.4	50.0
27.5°	932.0	901.4	895.7	812.8	749.3	658.4	564.2	484.7	412.1	331.5	53.4
30°	1772.1	1736.9	1613.2	1488.3	1316.9	1122.7	937.7	765.1	621.0	490.4	57.9
31°	2248.9	2283.0	2137.7	1886.8	1633.6	1385.0	1131.8	912.7	726.6	564.2	60.2
32°	2956.2	2807.4	2654.2	2396.5	2028.7	1710.8	1392.9	1077.3	832.1	643.7	62.4
33°	3624.8	3537.4	3303.5	2982.3	2540.7	2094.5	1682.4	1271.5	961.5	740.2	63.6
34°	4337.7	4241.2	4051.7	3590.8	3106.0	2521.4	1971.9	1495.1	1115.9	834.4	64.7
35°	5081.3	5040.4	4674.9	4275.3	3679.3	2974.3	2320.4	1740.3	1266.9	920.7	65.8
36°	5829.4	5697.8	5411.7	4828.2	4206.1	3393.2	2686.0	1968.5	1420.2	1022.8	65.8
37°	6392.5	6363.0	5983.8	5415.1	4684.0	3840.5	3001.6	2221.7	1574.6	1110.3	65.8
38°	7013.5	6896.6	6511.7	5932.7	5133.5	4250.3	3331.9	2441.9	1721.0	1189.7	64.7
39°	7536.8	7363.1	6974.9	6402.7	5526.3	4561.4	3594.2	2655.3	1850.4	1255.6	63.6
40°	7879.7	7759.3	7354.1	6710.4	5882.8	4855.4	3859.8	2831.3	1946.9	1305.5	61.3
41°	8257.7	8057.9	7657.2	7010.1	6141.6	5114.2	4026.7	2947.1	2021.9	1338.4	59.0
42°	8483.6	8320.1	7844.5	7211.0	6326.7	5261.8	4162.9	3035.6	2067.3	1355.5	54.5
43°	8694.8	8472.3	8009.1	7328.0	6449.3	5366.3	4225.4	3076.5	2077.5	1355.5	48.8
44°	8666.4	8455.2	7975.0	7343.8	6476.5	5396.9	4251.5	3077.6	2061.6	1338.4	43.1
45°	8454.1	8244.1	7811.6	7205.3	6378.9	5336.7	4199.2	3032.2	2017.3	1308.9	38.6
46°	8064.7	7855.8	7524.3	6973.8	6197.3	5200.5	4077.8	2933.5	1943.5	1261.2	34.1
47°	7641.3	7438.1	7098.6	6600.3	5887.3	4957.6	3901.8	2795.0	1840.2	1192.0	30.7
48°	7027.1	6900.0	6559.4	6133.7	5457.1	4577.3	3593.0	2569.0	1701.7	1102.3	26.1
49°	6484.5	6350.5	6051.9	5594.4	4896.3	4134.5	3224.1	2294.3	1521.2	1002.4	22.7
50°	5965.7	5848.7	5572.9	5056.3	4390.0	3599.8	2725.7	1948.1	1294.2	878.7	19.3
51°	5458.2	5370.8	5089.3	4614.7	3938.1	3188.9	2361.3	1622.3	1069.4	728.8	18.2
52°	4948.5	4938.3	4632.9	4152.7	3498.8	2779.1	2007.1	1369.1	907.1	611.9	17.0
53°	4400.2	4334.3	4067.6	3636.2	3008.4	2352.2	1701.7	1154.5	781.0	521.1	14.8
54°	3775.8	3702.0	3415.9	3026.5	2457.8	1926.5	1371.4	933.2	650.5	440.5	13.6
55°	3081.0	2955.0	2747.3	2347.7	1919.7	1470.1	1059.2	739.0	519.9	366.7	11.4
56°	2337.5	2211.4	2094.5	1800.5	1408.8	1096.6	789.0	566.5	406.4	289.5	10.2
57°	1625.7	1618.8	1427.0	1201.1	942.2	747.0	540.4	399.6	287.2	224.8	7.9
58°	1054.6	1019.4	896.8	766.3	616.4	466.6	347.4	271.3	195.3	153.3	6.8
59°	739.0	668.7	602.8	510.9	388.3	294.0	223.6	173.7	135.1	106.7	4.5
60°	454.1	439.3	395.1	311.1	252.0	207.7	166.9	128.3	98.8	76.1	2.3
62.5°	129.4	131.7	119.2	105.6	90.8	78.3	70.4	60.2	50.0	39.7	0.0
65°	29.5	28.4	30.7	28.4	26.1	26.1	22.7	20.4	18.2	17.0	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°	9.1	9.1	7.9	7.9	7.9	6.8	6.8	5.7	5.7	4.5	0.0
70°	3.4	3.4	3.4	3.4	3.4	2.3	2.3	2.3	1.1	1.1	0.0
72.5°	3.4	3.4	3.4	2.3	2.3	2.3	2.3	2.3	1.1	1.1	1.1
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1
77.5°	2.3	2.3	2.3	2.3	2.3	1.1	2.3	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	0.0	0.0	1.1	1.1	1.1	0.0	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°	84.0	84.0	84.0	84.0	84.0	84.0
2.5°	87.4	82.9	79.5	76.1	74.9	74.9
5°	85.1	78.3	71.5	68.1	65.8	65.8
7.5°	78.3	70.4	63.6	60.2	59.0	59.0
10°	70.4	61.3	54.5	52.2	52.2	51.1
12.5°	61.3	52.2	47.7	46.5	46.5	46.5
15°	51.1	44.3	40.9	40.9	42.0	43.1
17.5°	43.1	36.3	35.2	37.5	39.7	39.7
20°	36.3	31.8	31.8	34.1	36.3	37.5
22.5°	30.7	27.2	28.4	31.8	35.2	36.3
25°	27.2	23.8	26.1	29.5	32.9	35.2
27.5°	22.7	21.6	23.8	28.4	32.9	34.1
30°	19.3	19.3	22.7	27.2	31.8	32.9
31°	18.2	18.2	22.7	27.2	31.8	32.9
32°	17.0	18.2	21.6	27.2	31.8	32.9
33°	15.9	17.0	21.6	26.1	31.8	32.9
34°	14.8	17.0	21.6	26.1	31.8	32.9
35°	13.6	17.0	21.6	26.1	31.8	32.9
36°	12.5	15.9	20.4	26.1	31.8	32.9
37°	11.4	15.9	20.4	26.1	31.8	32.9
38°	10.2	14.8	20.4	26.1	31.8	32.9
39°	10.2	14.8	19.3	26.1	30.7	32.9
40°	9.1	13.6	19.3	26.1	30.7	32.9
41°	7.9	13.6	19.3	25.0	30.7	32.9
42°	6.8	12.5	18.2	25.0	30.7	32.9
43°	5.7	12.5	18.2	25.0	30.7	32.9
44°	5.7	11.4	18.2	25.0	30.7	32.9
45°	4.5	11.4	18.2	25.0	30.7	32.9
46°	3.4	11.4	18.2	25.0	30.7	32.9
47°	3.4	10.2	17.0	25.0	30.7	32.9
48°	2.3	10.2	17.0	25.0	30.7	32.9
49°	2.3	10.2	17.0	25.0	30.7	34.1
50°	2.3	10.2	17.0	23.8	30.7	34.1
51°	1.1	10.2	17.0	23.8	30.7	34.1
52°	1.1	10.2	15.9	23.8	31.8	34.1
53°	1.1	9.1	15.9	23.8	31.8	34.1
54°	1.1	9.1	15.9	23.8	31.8	32.9
55°	1.1	9.1	15.9	23.8	30.7	32.9
56°	1.1	7.9	15.9	23.8	30.7	32.9
57°	1.1	7.9	14.8	22.7	30.7	31.8
58°	1.1	7.9	14.8	22.7	30.7	31.8
59°	1.1	7.9	14.8	22.7	29.5	31.8
60°	2.3	6.8	13.6	21.6	29.5	31.8
62.5°	2.3	6.8	13.6	21.6	28.4	30.7
65°	2.3	6.8	12.5	20.4	28.4	30.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.3	5.7	11.4	19.3	27.2	29.5
70°	2.3	6.8	11.4	18.2	26.1	28.4
72.5°	3.4	5.7	10.2	17.0	25.0	27.2
75°	3.4	5.7	10.2	15.9	23.8	25.0
77.5°	4.5	5.7	9.1	13.6	21.6	22.7
80°	4.5	5.7	7.9	11.4	18.2	19.3
82.5°	4.5	5.7	5.7	9.1	13.6	14.8
85°	3.4	4.5	4.5	5.7	9.1	10.2
87.5°	3.4	4.5	3.4	2.3	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)