

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: P1309952

Luminaire Tested: P3SQAS05R409040DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R409040DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

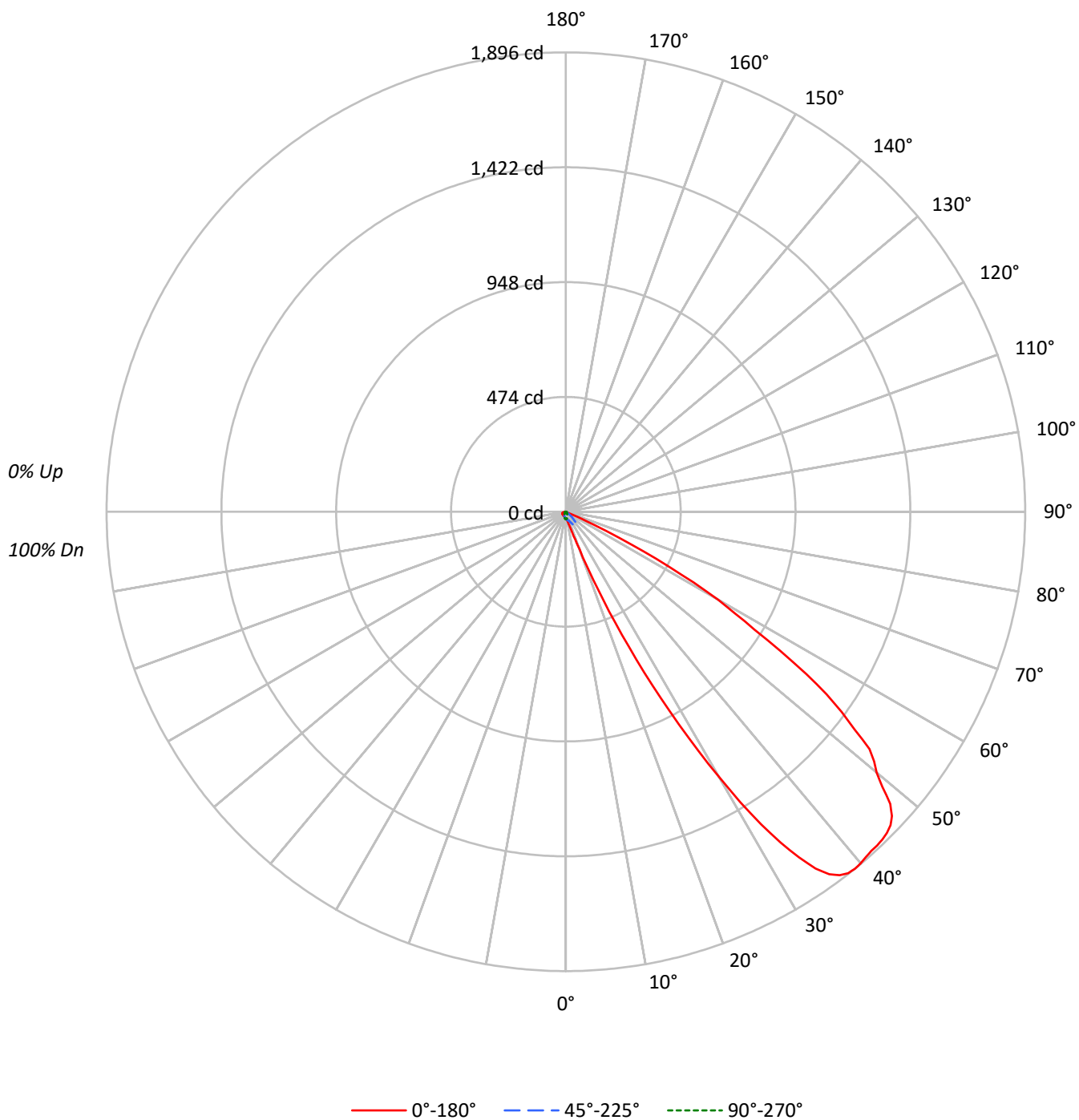
Lumens per Lamp: N/A
Luminaire Lumens: 586.0 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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		
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	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	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	24		
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	20	31	24	20	30	24	19	18		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5184	5184	5184	5184	5184
5°	5774	5584	5117	4650	4564
10°	6960	5928	4704	4232	4145
15°	11411	6437	4030	3744	3833
20°	30185	7588	3354	3354	3647
25°	116372	9406	2660	3059	3573
30°	251068	12529	2148	3003	3540
35°	377915	14822	1808	2943	3616
40°	425765	14883	1574	3035	3867
45°	456528	11545	1437	3142	4189
50°	448731	7207	1286	3322	4608
55°	394753	3543	1291	3723	5164
60°	249861	758	1481	4064	5752
65°	51102	204	1549	4401	6357
70°	1108	252	1611	4884	7301
75°	1065	732	1797	5390	8251
80°	1091	496	2182	5852	9620
85°	988	988	4347	6323	10671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 464775 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.5
10°-20°	9.3	1.6
20°-30°	45.5	7.8
30°-40°	148.0	25.3
40°-50°	204.1	34.8
50°-60°	142.2	24.3
60°-70°	27.0	4.6
70°-80°	4.9	0.8
80°-90°	2.2	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°	57.6	9.8
0°-40°	205.7	35.1
0°-60°	551.9	94.2
0°-90°	586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	586.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	33	32	30	27	26	3
15°	64	36	23	21	22	23
25°	612	50	14	16	19	315
35°	1798	70	9	14	17	1086
45°	1874	47	6	13	17	1425
55°	1315	12	4	12	17	1124
65°	125	0	4	11	16	222
75°	2	1	3	8	12	2
85°	0	0	2	3	5	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
2.5°	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	30.7	30.1
5°	33.4	33.4	33.4	33.4	32.8	32.8	32.8	32.3	32.3	31.2	29.6
7.5°	35.5	35.5	35.5	35.5	35.0	34.4	33.9	33.9	33.4	30.7	28.5
10°	39.8	39.8	39.3	38.7	38.2	37.1	36.6	35.5	33.9	30.1	26.9
12.5°	48.4	47.4	46.8	45.7	44.1	42.0	39.8	38.2	34.4	29.1	25.3
15°	64.0	63.0	60.8	57.6	54.4	50.0	46.3	42.5	36.1	27.4	22.6
17.5°	91.5	88.3	85.0	79.6	71.6	64.0	56.0	49.0	38.2	25.8	20.5
20°	164.7	162.5	143.2	128.1	103.9	86.6	70.5	58.7	41.4	24.2	18.3
22.5°	339.6	317.0	285.2	233.6	181.9	134.0	97.4	73.7	44.7	22.1	16.1
25°	612.4	576.9	508.6	409.0	301.9	213.6	141.0	96.3	49.5	19.9	14.0
27.5°	927.2	891.2	785.2	647.9	473.0	322.4	201.3	127.5	56.0	17.8	12.4
30°	1262.5	1231.8	1097.3	907.3	666.8	451.5	269.6	159.3	63.0	15.6	10.8
31°	1397.6	1358.3	1213.0	1010.7	757.7	504.8	297.1	172.7	65.7	15.1	10.2
32°	1521.9	1477.2	1326.6	1109.7	831.5	562.4	327.2	184.6	67.8	14.0	9.7
33°	1629.0	1576.8	1431.5	1203.3	912.7	616.2	358.4	195.9	69.4	12.9	9.1
34°	1720.0	1674.8	1518.7	1297.5	984.8	667.9	389.1	207.2	70.5	12.4	8.6
35°	1797.5	1756.6	1602.1	1369.1	1055.3	717.9	417.1	218.0	70.5	11.3	8.6
36°	1849.7	1814.1	1674.2	1442.3	1114.5	760.4	440.8	227.6	70.5	10.2	8.1
37°	1878.2	1843.7	1721.6	1502.5	1172.6	802.4	462.3	235.2	70.0	9.7	7.5
38°	1892.7	1862.6	1756.6	1551.5	1213.0	832.5	481.1	241.1	69.4	8.6	7.5
39°	1896.5	1871.2	1778.6	1587.0	1252.3	862.7	494.6	244.3	67.8	8.1	7.0
40°	1893.8	1871.7	1790.5	1618.8	1282.4	886.3	504.3	245.4	66.2	7.0	7.0
41°	1888.4	1871.2	1799.1	1640.8	1306.7	901.4	508.0	243.2	64.0	5.9	6.5
42°	1883.6	1864.7	1802.8	1655.9	1323.3	909.0	507.5	238.9	60.8	5.4	6.5
43°	1883.6	1862.0	1803.4	1665.6	1331.4	909.5	501.0	230.9	56.5	4.8	5.9
44°	1880.3	1860.4	1806.1	1672.1	1333.6	904.6	490.8	222.3	51.7	4.3	5.9
45°	1874.4	1853.4	1805.5	1672.6	1329.8	892.8	474.1	211.0	47.4	3.2	5.9
46°	1863.1	1844.3	1800.7	1668.8	1318.5	875.6	454.2	199.7	42.5	2.7	5.4
47°	1840.5	1826.0	1787.8	1655.9	1301.3	850.3	430.5	186.7	38.7	2.2	5.4
48°	1801.8	1791.5	1765.7	1627.4	1268.4	819.1	405.2	172.7	35.0	2.2	5.4
49°	1730.7	1722.6	1707.6	1581.7	1226.5	780.9	377.8	157.1	31.2	1.6	5.4
50°	1674.8	1666.1	1635.5	1504.7	1166.2	732.4	347.7	141.5	26.9	1.1	4.8
51°	1637.6	1623.6	1575.2	1415.4	1078.5	667.9	314.8	125.9	22.6	1.1	4.8
52°	1590.8	1569.8	1509.5	1335.2	998.3	603.3	279.3	110.3	19.9	1.1	4.8
53°	1492.9	1485.3	1425.6	1249.1	918.1	541.4	242.7	97.4	17.2	1.1	4.8
54°	1407.3	1396.0	1314.7	1129.6	830.9	472.5	205.0	86.1	14.5	1.1	4.8
55°	1314.7	1292.7	1220.5	1029.0	728.7	409.0	169.0	74.3	11.8	1.1	4.3
56°	1197.9	1178.6	1101.1	921.3	634.5	344.4	141.5	60.8	9.1	1.1	4.3
57°	1055.9	1038.1	978.4	788.9	536.5	281.5	115.2	49.0	7.0	1.1	4.3
58°	918.6	898.7	830.4	661.9	433.2	223.3	96.3	39.8	5.4	1.1	4.3
59°	813.2	786.3	698.0	555.9	339.0	169.5	76.4	31.8	3.8	1.1	4.3
60°	725.4	703.4	611.9	462.8	265.9	124.9	56.5	24.2	2.2	1.1	4.3
62.5°	420.3	414.4	332.0	238.4	125.4	58.1	28.0	11.3	1.1	1.6	4.3
65°	125.4	109.2	85.0	50.6	32.3	19.4	10.2	3.8	0.5	1.6	3.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	3.8	3.8	3.8	3.8	3.8	3.8	2.2	1.1	0.5	1.6	3.8
70°	2.2	1.6	1.6	1.6	1.6	1.1	1.1	0.5	0.5	1.6	3.2
72.5°	1.6	1.6	1.6	1.6	1.1	1.1	1.1	0.5	1.1	1.6	2.7
75°	1.6	1.1	1.1	1.1	1.1	0.5	0.5	0.5	1.1	1.6	2.7
77.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	1.1	1.6	2.7
80°	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6	2.2
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6	2.2
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.6	1.6
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):

	112.5°	135°	157.5°	180°
0°	30.1	30.1	30.1	30.1
2.5°	29.1	28.5	28.0	28.0
5°	28.0	26.9	26.9	26.4
7.5°	26.4	25.3	25.3	25.3
10°	24.8	24.2	24.2	23.7
12.5°	22.6	22.6	22.6	22.6
15°	21.0	21.0	21.5	21.5
17.5°	18.8	19.4	20.5	21.0
20°	17.2	18.3	19.4	19.9
22.5°	16.1	17.2	18.8	19.4
25°	14.5	16.1	18.3	18.8
27.5°	13.5	15.6	17.2	18.3
30°	12.4	15.1	16.7	17.8
31°	12.4	14.5	16.7	17.8
32°	11.8	14.0	16.7	17.2
33°	11.8	14.0	16.7	17.2
34°	11.3	14.0	16.1	17.2
35°	11.3	14.0	16.1	17.2
36°	10.8	13.5	16.1	17.2
37°	10.8	13.5	16.1	17.2
38°	10.2	13.5	16.1	17.2
39°	10.2	13.5	16.1	17.2
40°	10.2	13.5	16.1	17.2
41°	9.7	13.5	16.1	17.2
42°	9.7	13.5	16.1	17.2
43°	9.7	12.9	16.1	17.2
44°	9.7	12.9	16.1	17.2
45°	9.1	12.9	16.1	17.2
46°	9.1	12.9	16.1	17.2
47°	9.1	12.9	16.1	17.2
48°	9.1	12.9	16.1	17.2
49°	9.1	12.9	16.1	17.2
50°	8.6	12.4	16.1	17.2
51°	8.6	12.4	16.1	17.2
52°	8.6	12.4	16.1	17.2
53°	8.6	12.4	16.1	17.2
54°	8.1	12.4	16.1	17.2
55°	8.1	12.4	16.1	17.2
56°	8.1	12.4	16.1	16.7
57°	8.1	12.4	15.6	16.7
58°	8.1	11.8	15.6	16.7
59°	8.1	11.8	15.6	16.7
60°	8.1	11.8	15.6	16.7
62.5°	7.5	11.8	15.1	16.1
65°	7.0	10.8	15.1	15.6



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	7.0	10.2	14.0	15.1
70°	6.5	9.7	13.5	14.5
72.5°	5.4	9.1	12.4	13.5
75°	4.8	8.1	11.3	12.4
77.5°	4.3	7.0	10.2	10.8
80°	3.8	5.9	8.6	9.7
82.5°	2.7	4.3	7.0	7.5
85°	2.2	3.2	4.8	5.4
87.5°	1.6	1.6	2.7	2.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)