

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: P1307699

Luminaire Tested: P3SQAS05R359030DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R359030DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

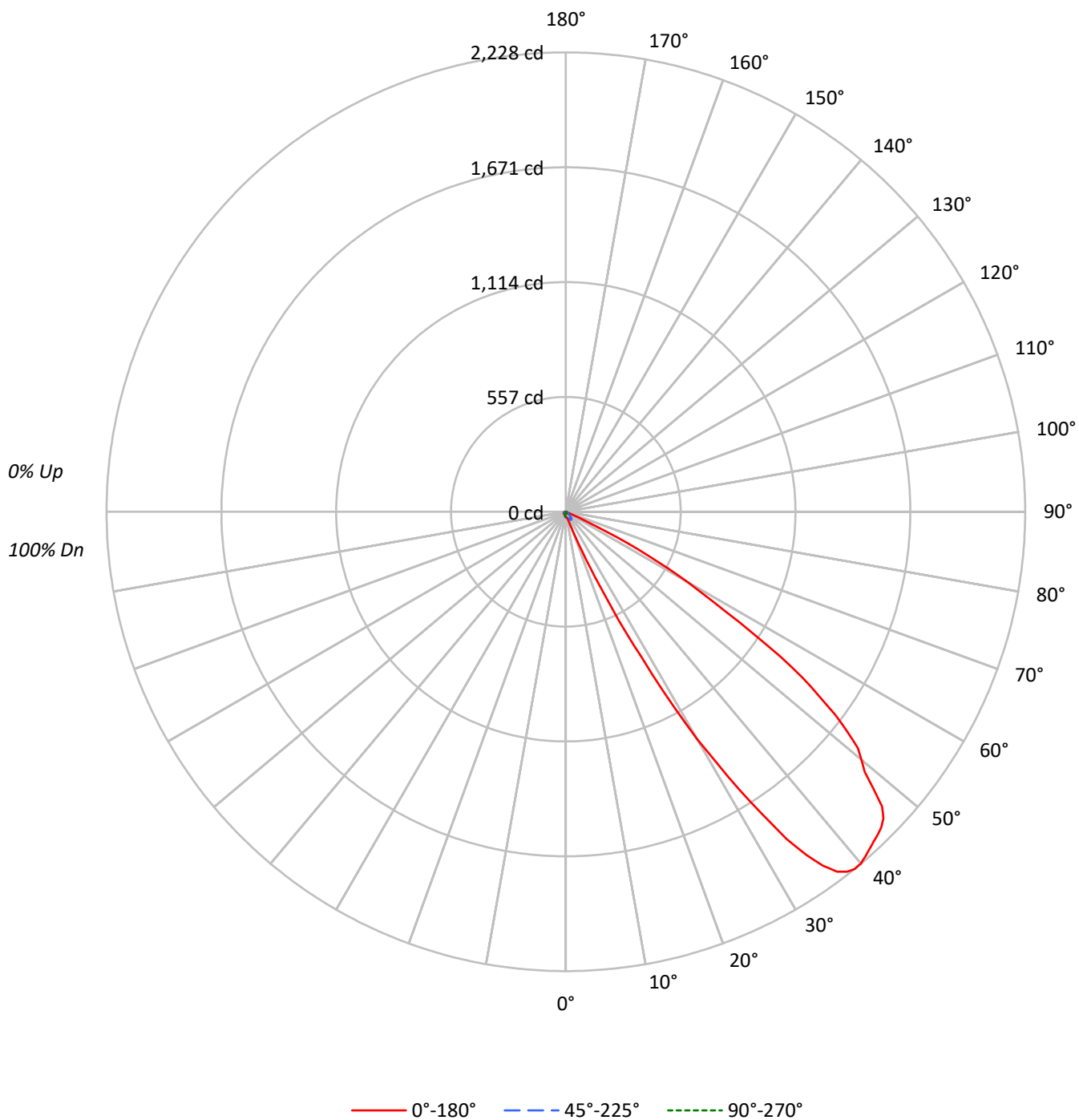
Lumens per Lamp: N/A
Luminaire Lumens: 554.9 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4409	4409	4409	4409	4409
5°	4772	4685	4339	3890	3803
10°	5002	4564	3847	3323	3323
15°	7150	4475	3120	2853	2942
20°	17906	4783	2474	2474	2749
25°	83118	6100	1900	2280	2565
30°	252679	8273	1491	2088	2585
35°	427029	9587	1261	1997	2523
40°	500563	9465	1012	2023	2698
45°	527136	6722	852	2192	2923
50°	501781	4019	804	2277	3215
55°	420455	1651	901	2552	3753
60°	235394	344	1033	2928	4133
65°	40629	204	1019	3260	4686
70°	755	252	1259	3525	5287
75°	665	333	1664	3993	5989
80°	496	496	1984	4463	6943
85°	0	988	3952	4940	7904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 530880 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.4
10°-20°	6.5	1.2
20°-30°	34.0	6.1
30°-40°	147.1	26.5
40°-50°	209.8	37.8
50°-60°	129.9	23.4
60°-70°	19.8	3.6
70°-80°	3.7	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°	42.9	7.7
0°-40°	190.0	34.2
0°-60°	529.6	95.4
0°-90°	554.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	554.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	28	27	25	22	22	3
15°	40	25	18	16	16	14
25°	437	32	10	12	14	262
35°	2031	46	6	10	12	1219
45°	2164	28	4	9	12	1635
55°	1400	6	3	8	12	1193
65°	100	0	2	8	12	204
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°	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
2.5°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	25.6	25.1
5°	27.6	27.6	27.1	27.1	27.1	27.1	27.1	27.1	26.1	25.1	23.5
7.5°	28.1	28.1	27.6	27.6	27.6	27.6	27.1	26.6	25.6	23.5	22.0
10°	28.6	28.6	28.6	28.6	28.1	27.6	27.1	26.1	24.5	22.0	20.5
12.5°	32.1	32.1	31.6	30.6	29.6	28.6	27.6	25.6	22.5	20.0	18.5
15°	40.1	39.6	38.6	37.1	35.1	32.6	30.6	25.1	20.5	17.5	16.5
17.5°	56.1	55.1	53.6	48.6	44.1	39.6	35.6	25.1	18.5	15.5	14.5
20°	97.7	98.2	87.7	75.7	65.6	54.6	44.6	26.1	16.5	13.5	13.0
22.5°	203.9	195.9	170.8	141.8	108.2	83.7	63.1	28.6	14.5	11.5	11.5
25°	437.4	406.8	346.2	261.5	184.4	130.8	91.7	32.1	13.0	10.0	10.5
27.5°	798.6	771.0	649.3	489.0	324.7	197.4	124.2	36.6	11.5	8.5	9.5
30°	1270.6	1194.4	1035.6	801.6	542.6	302.1	166.8	41.6	9.5	7.5	9.0
31°	1417.8	1382.8	1189.4	927.4	635.8	358.7	184.9	43.1	9.0	7.5	8.5
32°	1592.7	1530.6	1357.2	1065.1	730.5	409.3	206.4	44.6	8.5	6.5	8.5
33°	1749.0	1688.9	1478.0	1186.4	826.2	466.9	229.5	45.1	7.5	6.5	8.0
34°	1913.3	1831.2	1622.3	1313.1	924.4	529.1	250.5	45.6	7.0	6.0	8.0
35°	2031.1	1948.9	1746.5	1413.3	1009.0	584.2	274.6	45.6	6.5	6.0	7.5
36°	2122.3	2050.1	1853.7	1516.5	1093.2	633.8	293.6	45.6	5.5	5.5	7.5
37°	2184.9	2116.3	1925.9	1605.2	1157.3	677.9	310.6	45.6	5.0	5.5	7.5
38°	2215.4	2158.3	1995.5	1669.9	1219.4	712.4	324.2	44.6	4.5	5.0	7.0
39°	2228.5	2181.9	2038.1	1724.5	1266.0	742.5	334.2	43.6	4.0	5.0	7.0
40°	2226.5	2185.9	2062.1	1762.0	1303.6	763.0	339.7	42.1	3.5	4.5	7.0
41°	2214.9	2179.9	2074.7	1794.1	1326.2	777.1	341.2	40.6	3.0	4.5	6.5
42°	2201.9	2169.9	2078.7	1811.1	1340.7	781.6	337.2	38.6	3.0	4.0	6.5
43°	2188.4	2158.8	2078.7	1816.6	1344.2	778.6	330.7	35.1	2.5	4.0	6.5
44°	2177.4	2149.3	2072.2	1815.1	1336.7	767.0	318.6	31.1	2.0	4.0	6.5
45°	2164.3	2136.8	2063.6	1805.6	1322.2	747.5	303.6	27.6	1.5	3.5	6.5
46°	2141.3	2119.8	2048.6	1786.1	1299.1	720.4	284.6	25.1	1.0	3.5	6.0
47°	2096.7	2078.2	2019.6	1757.0	1268.5	688.4	265.0	22.5	1.0	3.5	6.0
48°	2007.0	2006.5	1961.4	1702.9	1220.0	648.3	244.5	20.0	1.0	3.5	6.0
49°	1920.4	1911.3	1855.2	1607.7	1150.3	600.2	222.9	18.0	0.5	3.5	6.0
50°	1872.8	1853.2	1761.0	1495.5	1061.1	533.6	199.9	15.0	0.5	3.0	6.0
51°	1823.2	1795.1	1686.4	1394.3	954.9	469.4	174.9	12.0	0.5	3.0	5.5
52°	1733.5	1706.9	1585.2	1297.6	851.7	403.8	150.8	10.0	0.5	3.0	6.0
53°	1636.8	1598.7	1466.4	1191.4	761.0	345.7	126.3	8.5	0.5	3.0	5.5
54°	1515.0	1498.0	1346.2	1061.1	654.8	289.6	103.7	7.0	0.5	3.0	5.5
55°	1400.3	1375.3	1217.4	927.9	558.6	237.5	86.7	5.5	0.5	3.0	5.5
56°	1254.0	1216.4	1068.6	805.6	460.9	191.4	73.1	4.5	0.5	3.0	5.5
57°	1079.7	1039.6	922.9	669.8	361.7	145.8	61.1	3.5	0.5	3.0	5.5
58°	913.3	878.8	753.5	517.0	272.5	101.2	50.6	2.5	0.5	2.5	5.5
59°	789.1	751.0	626.8	397.8	189.4	74.6	38.1	2.0	0.5	3.0	5.5
60°	683.4	634.3	504.5	308.1	135.3	53.6	28.1	1.0	1.0	3.0	5.5
62.5°	393.8	347.7	241.0	125.3	55.6	27.6	13.5	0.5	1.0	3.0	5.5
65°	99.7	88.7	57.6	27.1	15.5	9.5	5.0	0.5	1.0	2.5	5.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	3.5	3.5	3.5	3.0	2.5	2.0	1.0	0.5	1.0	2.5	5.0
70°	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.5	1.0	2.5	4.5
72.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.5	2.5	4.0
75°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.5	2.5	4.0
77.5°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.0	3.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.0	3.0
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.0	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	1.5	2.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.0	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°	25.6	25.6	25.6
2.5°	24.0	24.0	24.0
5°	22.5	22.5	22.0
7.5°	21.0	20.5	20.5
10°	19.0	19.0	19.0
12.5°	17.5	17.5	17.5
15°	16.0	16.5	16.5
17.5°	14.5	15.5	15.5
20°	13.5	14.5	15.0
22.5°	12.5	13.5	14.0
25°	12.0	13.0	13.5
27.5°	11.0	12.5	13.5
30°	10.5	12.0	13.0
31°	10.5	12.0	12.5
32°	10.0	12.0	12.5
33°	10.0	12.0	12.5
34°	10.0	11.5	12.5
35°	9.5	11.5	12.0
36°	9.5	11.5	12.0
37°	9.5	11.5	12.5
38°	9.5	11.5	12.0
39°	9.0	11.5	12.0
40°	9.0	11.5	12.0
41°	9.0	11.5	12.0
42°	9.0	11.5	12.0
43°	9.0	11.5	12.0
44°	9.0	11.0	12.0
45°	9.0	11.0	12.0
46°	9.0	11.5	12.0
47°	9.0	11.5	12.5
48°	9.0	11.0	12.0
49°	8.5	11.0	12.0
50°	8.5	11.0	12.0
51°	8.5	11.5	12.5
52°	8.5	11.5	12.5
53°	8.5	11.5	12.5
54°	8.5	11.5	12.0
55°	8.5	11.5	12.5
56°	8.5	11.5	12.0
57°	8.5	11.5	12.0
58°	8.5	11.0	12.0
59°	8.5	11.0	12.0
60°	8.5	11.0	12.0
62.5°	8.0	11.0	12.0
65°	8.0	10.5	11.5



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	7.5	10.5	11.0
70°	7.0	10.0	10.5
72.5°	6.5	9.5	10.0
75°	6.0	8.5	9.0
77.5°	5.0	7.5	8.5
80°	4.5	6.5	7.0
82.5°	3.5	5.5	6.0
85°	2.5	4.0	4.0
87.5°	1.0	2.0	2.0
90°	0.0	0.0	0.0

(END OF REPORT)