

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: P1308816

Luminaire Tested: P3SQAS05R359035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308816
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: P3SQAS05R359035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

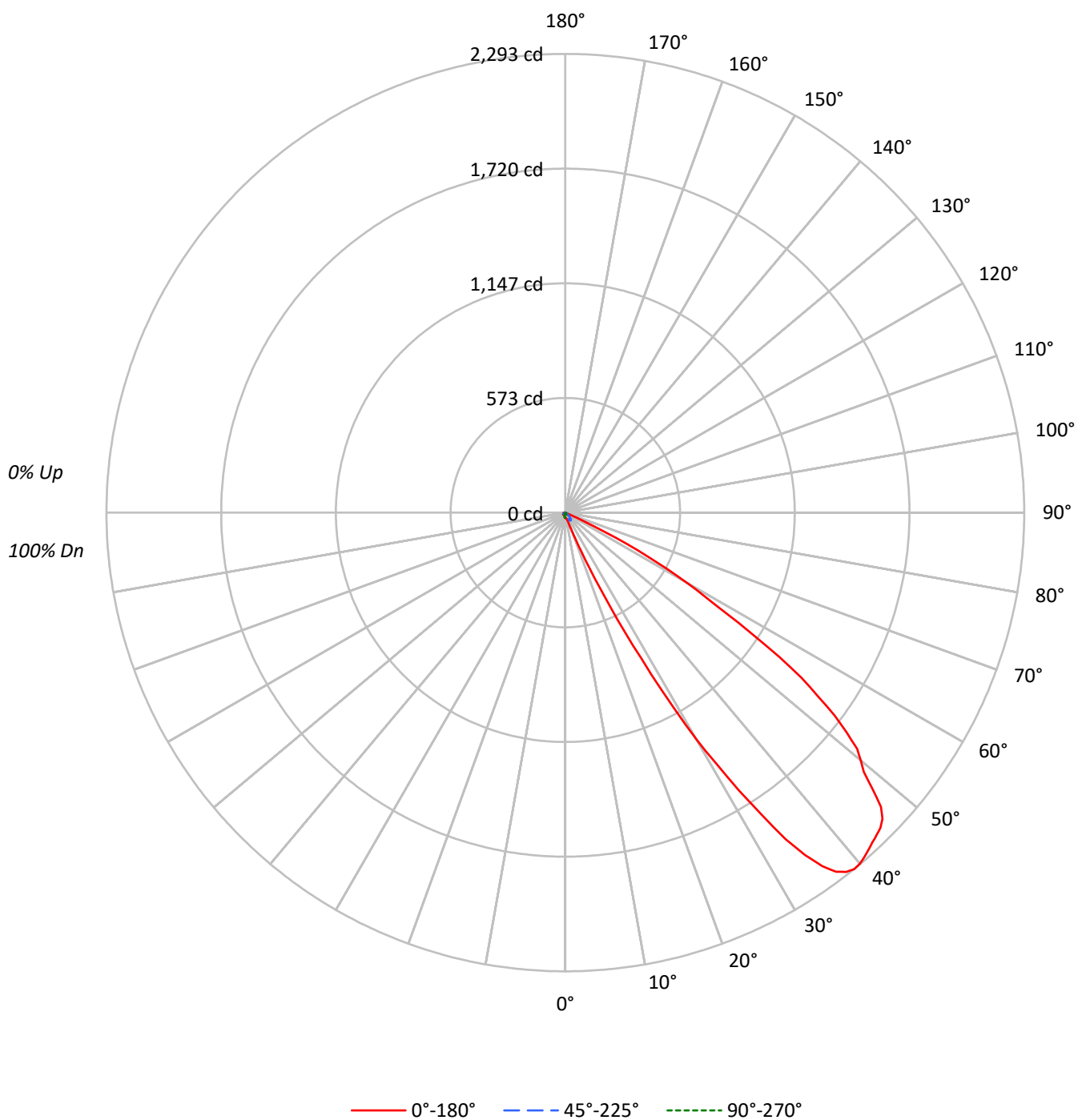
Lumens per Lamp: N/A
Luminaire Lumens: 571.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	4529	4529	4529	4529	4529
5°	4893	4806	4460	4011	3924
10°	5141	4687	3970	3428	3428
15°	7346	4600	3209	2942	3031
20°	18419	4912	2548	2548	2841
25°	85512	6271	1957	2356	2641
30°	259957	8511	1531	2148	2665
35°	439328	9860	1304	2060	2607
40°	514997	9735	1034	2091	2788
45°	542334	6893	877	2265	3020
50°	516249	4153	831	2358	3322
55°	432586	1711	931	2642	3873
60°	242179	344	1068	3031	4271
65°	41811	204	1060	3342	4849
70°	755	252	1309	3626	5438
75°	665	333	1730	4126	6188
80°	496	496	2083	4562	7141
85°	0	988	4150	5138	8102

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 546177 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.4
10°-20°	6.7	1.2
20°-30°	35.0	6.1
30°-40°	151.3	26.5
40°-50°	215.8	37.8
50°-60°	133.7	23.4
60°-70°	20.3	3.6
70°-80°	3.8	0.7
80°-90°	1.9	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°	44.1	7.7
0°-40°	195.4	34.2
0°-60°	545.0	95.4
0°-90°	571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	571.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	28	28	26	23	23	3
15°	41	26	18	16	17	15
25°	450	33	10	12	14	269
35°	2090	47	6	10	12	1255
45°	2227	28	4	9	12	1682
55°	1441	6	3	9	13	1227
65°	103	0	3	8	12	210
75°	1	0	3	6	9	1
85°	0	0	2	3	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°	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
2.5°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	26.3	25.8
5°	28.3	28.3	27.8	27.8	27.8	27.8	27.8	27.8	26.8	25.8	24.2
7.5°	28.9	28.9	28.3	28.3	28.3	28.3	27.8	27.3	26.3	24.2	22.7
10°	29.4	29.4	29.4	29.4	28.9	28.3	27.8	26.8	25.3	22.7	21.1
12.5°	33.0	33.0	32.5	31.4	30.4	29.4	28.3	26.3	23.2	20.6	19.1
15°	41.2	40.7	39.7	38.1	36.1	33.5	31.4	25.8	21.1	18.0	17.0
17.5°	57.7	56.7	55.2	50.0	45.4	40.7	36.6	25.8	19.1	16.0	14.9
20°	100.5	101.0	90.2	77.8	67.5	56.2	45.9	26.8	17.0	13.9	13.4
22.5°	209.8	201.5	175.8	145.9	111.3	86.1	64.9	29.4	14.9	11.9	11.9
25°	450.0	418.5	356.2	269.1	189.7	134.5	94.3	33.0	13.4	10.3	10.8
27.5°	821.6	793.3	668.0	503.1	334.0	203.1	127.8	37.6	11.9	8.8	9.8
30°	1307.2	1228.8	1065.4	824.7	558.2	310.8	171.6	42.8	9.8	7.7	9.3
31°	1458.7	1422.6	1223.7	954.1	654.1	369.1	190.2	44.3	9.3	7.7	8.8
32°	1638.6	1574.7	1396.4	1095.8	751.5	421.1	212.4	45.9	8.8	6.7	8.8
33°	1799.4	1737.6	1520.6	1220.6	850.0	480.4	236.1	46.4	7.7	6.7	8.2
34°	1968.5	1884.0	1669.0	1351.0	951.0	544.3	257.7	46.9	7.2	6.2	8.2
35°	2089.6	2005.1	1796.9	1454.1	1038.1	601.0	282.5	46.9	6.7	6.2	7.7
36°	2183.4	2109.2	1907.2	1560.3	1124.7	652.0	302.1	46.9	5.7	5.7	7.7
37°	2247.9	2177.3	1981.4	1651.5	1190.7	697.4	319.6	46.9	5.2	5.7	7.7
38°	2279.3	2220.6	2053.0	1718.0	1254.6	733.0	333.5	45.9	4.6	5.2	7.2
39°	2292.7	2244.8	2096.8	1774.2	1302.5	763.9	343.8	44.8	4.1	5.2	7.2
40°	2290.7	2248.9	2121.6	1812.8	1341.2	785.0	349.5	43.3	3.6	4.6	7.2
41°	2278.8	2242.7	2134.5	1845.8	1364.4	799.5	351.0	41.8	3.1	4.6	6.7
42°	2265.4	2232.4	2138.6	1863.4	1379.3	804.1	346.9	39.7	3.1	4.1	6.7
43°	2251.5	2221.1	2138.6	1869.0	1383.0	801.0	340.2	36.1	2.6	4.1	6.7
44°	2240.1	2211.3	2131.9	1867.5	1375.2	789.2	327.8	32.0	2.1	4.1	6.7
45°	2226.7	2198.4	2123.1	1857.7	1360.3	769.1	312.4	28.3	1.5	3.6	6.7
46°	2203.0	2180.9	2107.7	1837.6	1336.6	741.2	292.8	25.8	1.0	3.6	6.2
47°	2157.2	2138.1	2077.8	1807.7	1305.1	708.2	272.7	23.2	1.0	3.6	6.2
48°	2064.9	2064.4	2018.0	1752.0	1255.1	667.0	251.5	20.6	1.0	3.6	6.2
49°	1975.7	1966.4	1908.7	1654.1	1183.5	617.5	229.4	18.6	0.5	3.6	6.2
50°	1926.8	1906.6	1811.8	1538.6	1091.7	549.0	205.7	15.5	0.5	3.1	6.2
51°	1875.7	1846.9	1735.0	1434.5	982.4	483.0	179.9	12.4	0.5	3.1	5.7
52°	1783.5	1756.1	1630.9	1335.0	876.3	415.5	155.2	10.3	0.5	3.1	6.2
53°	1684.0	1644.8	1508.7	1225.7	783.0	355.7	129.9	8.8	0.5	3.1	5.7
54°	1558.7	1541.2	1385.0	1091.7	673.7	297.9	106.7	7.2	0.5	3.1	5.7
55°	1440.7	1414.9	1252.5	954.6	574.7	244.3	89.2	5.7	0.5	3.1	5.7
56°	1290.2	1251.5	1099.5	828.8	474.2	196.9	75.3	4.6	0.5	3.1	5.7
57°	1110.8	1069.6	949.5	689.2	372.2	150.0	62.9	3.6	0.5	3.1	5.7
58°	939.7	904.1	775.2	531.9	280.4	104.1	52.1	2.6	0.5	2.6	5.7
59°	811.8	772.7	644.8	409.3	194.8	76.8	39.2	2.1	0.5	3.1	5.7
60°	703.1	652.6	519.1	317.0	139.2	55.2	28.9	1.0	1.0	3.1	5.7
62.5°	405.1	357.7	247.9	128.9	57.2	28.3	13.9	0.5	1.0	3.1	5.7
65°	102.6	91.2	59.3	27.8	16.0	9.8	5.2	0.5	1.0	2.6	5.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	3.6	3.6	3.6	3.1	2.6	2.1	1.0	0.5	1.0	2.6	5.2
70°	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.5	1.0	2.6	4.6
72.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.5	2.6	4.1
75°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.5	2.6	4.1
77.5°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.1	3.6
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.1	3.1
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.1	2.6
85°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	1.5	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.1	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°	26.3	26.3	26.3
2.5°	24.7	24.7	24.7
5°	23.2	23.2	22.7
7.5°	21.6	21.1	21.1
10°	19.6	19.6	19.6
12.5°	18.0	18.0	18.0
15°	16.5	17.0	17.0
17.5°	14.9	16.0	16.0
20°	13.9	14.9	15.5
22.5°	12.9	13.9	14.4
25°	12.4	13.4	13.9
27.5°	11.3	12.9	13.9
30°	10.8	12.4	13.4
31°	10.8	12.4	12.9
32°	10.3	12.4	12.9
33°	10.3	12.4	12.9
34°	10.3	11.9	12.9
35°	9.8	11.9	12.4
36°	9.8	11.9	12.4
37°	9.8	11.9	12.9
38°	9.8	11.9	12.4
39°	9.3	11.9	12.4
40°	9.3	11.9	12.4
41°	9.3	11.9	12.4
42°	9.3	11.9	12.4
43°	9.3	11.9	12.4
44°	9.3	11.3	12.4
45°	9.3	11.3	12.4
46°	9.3	11.9	12.4
47°	9.3	11.9	12.9
48°	9.3	11.3	12.4
49°	8.8	11.3	12.4
50°	8.8	11.3	12.4
51°	8.8	11.9	12.9
52°	8.8	11.9	12.9
53°	8.8	11.9	12.9
54°	8.8	11.9	12.4
55°	8.8	11.9	12.9
56°	8.8	11.9	12.4
57°	8.8	11.9	12.4
58°	8.8	11.3	12.4
59°	8.8	11.3	12.4
60°	8.8	11.3	12.4
62.5°	8.2	11.3	12.4
65°	8.2	10.8	11.9



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	7.7	10.8	11.3
70°	7.2	10.3	10.8
72.5°	6.7	9.8	10.3
75°	6.2	8.8	9.3
77.5°	5.2	7.7	8.8
80°	4.6	6.7	7.2
82.5°	3.6	5.7	6.2
85°	2.6	4.1	4.1
87.5°	1.0	2.1	2.1
90°	0.0	0.0	0.0

(END OF REPORT)