

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: P1317683

Luminaire Tested: P3SQAS05R259835DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R259835DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

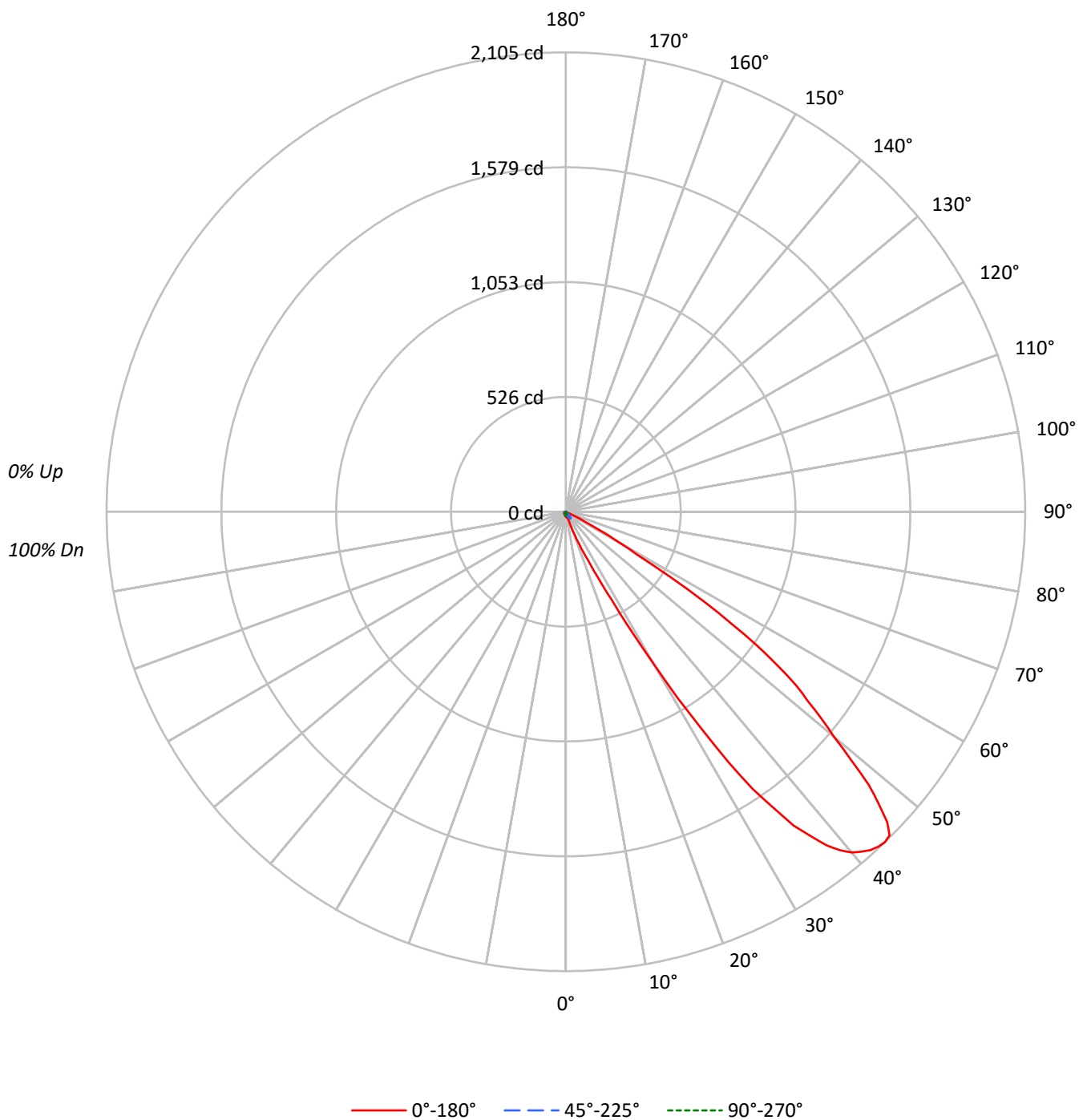
Lumens per Lamp: N/A
Luminaire Lumens: 439.0 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	64		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	39	52	44	38		50	43	38		48	42	37	35
7	62	48	39	32	60	47	39	32	46	38	32		44	37	32		43	36	32	29
8	57	43	34	27	55	42	33	27	40	33	27		39	32	27		38	32	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	20		31	24	19		30	24	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3858	3858	3858	3858	3858
5°	4408	4201	3734	3337	3267
10°	4389	3987	3183	2763	2763
15°	4885	3441	2478	2336	2478
20°	17283	3391	1906	1979	2199
25°	49692	4333	1539	1843	2128
30°	158556	6682	1233	1770	2148
35°	347304	7884	1051	1703	2187
40°	458140	7127	877	1731	2338
45°	510915	4993	852	1875	2533
50°	430056	2599	831	1956	2786
55°	321550	1051	811	2192	3123
60°	99545	276	792	2411	3444
65°	8517	0	937	2527	3790
70°	604	201	957	2921	4280
75°	532	266	1264	3061	4858
80°	397	397	1884	3471	5752
85°	790	790	2964	3754	6126

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 510915 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.5
10°-20°	5.2	1.2
20°-30°	24.3	5.5
30°-40°	116.9	26.6
40°-50°	183.3	41.8
50°-60°	94.0	21.4
60°-70°	8.9	2.0
70°-80°	3.0	0.7
80°-90°	1.5	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°	31.5	7.2
0°-40°	148.4	33.8
0°-60°	425.7	97.0
0°-90°	439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	439.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	26	24	22	19	19	2
15°	27	19	14	13	14	12
25°	262	23	8	10	11	162
35°	1652	38	5	8	10	1003
45°	2098	20	4	8	10	1535
55°	1071	4	3	7	10	891
65°	21	0	2	6	9	65
75°	1	0	2	5	7	1
85°	0	0	2	2	3	0
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°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
2.5°	24.3	24.3	24.3	24.3	24.3	24.3	24.0	24.0	24.3	24.0	24.0
5°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.1	25.1	25.1	24.3
7.5°	25.9	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.1	25.1	24.0
10°	25.1	25.1	25.1	25.1	24.7	24.7	24.7	24.3	24.3	24.3	22.8
12.5°	25.1	25.1	25.1	25.1	24.7	24.7	24.3	24.3	24.0	23.6	20.9
15°	27.4	27.4	27.4	27.0	26.7	26.3	25.9	25.5	25.1	24.3	19.3
17.5°	40.2	39.0	38.6	37.1	35.2	33.2	31.7	30.1	28.6	27.4	18.5
20°	94.3	93.9	91.9	87.3	82.3	76.5	70.7	64.1	54.9	48.7	18.5
22.5°	163.4	161.1	157.6	154.1	145.3	134.8	124.0	111.6	99.7	86.9	19.7
25°	261.5	266.9	255.4	246.1	230.6	211.7	191.2	174.2	152.6	132.5	22.8
27.5°	454.7	458.2	435.4	405.2	369.3	329.5	290.9	261.9	225.6	192.4	28.6
30°	797.3	800.8	762.6	698.4	624.3	559.0	470.5	392.9	321.4	266.2	33.6
31°	995.1	968.1	923.7	861.5	767.6	669.1	562.9	469.0	378.6	306.0	35.2
32°	1167.0	1164.7	1113.0	1018.7	924.4	802.8	671.0	548.6	437.7	346.1	36.3
33°	1369.9	1354.4	1281.4	1192.5	1067.8	945.3	775.3	635.5	498.3	390.9	37.1
34°	1532.5	1490.8	1460.6	1359.0	1227.3	1071.2	889.3	727.4	574.1	434.2	37.5
35°	1651.9	1643.0	1584.3	1489.6	1355.6	1196.0	1012.1	822.8	637.4	484.4	37.5
36°	1778.2	1750.8	1693.6	1607.8	1477.2	1312.3	1106.0	905.5	711.2	529.6	37.1
37°	1857.4	1841.2	1784.4	1695.9	1568.0	1410.4	1211.1	992.8	769.9	574.8	36.3
38°	1938.9	1906.1	1850.0	1765.4	1639.9	1491.9	1287.2	1060.0	824.0	614.6	35.2
39°	1995.3	1961.3	1904.1	1819.9	1697.1	1550.3	1347.4	1117.2	871.1	644.4	33.6
40°	2037.8	2004.9	1947.0	1860.5	1739.2	1596.2	1397.7	1167.8	910.5	670.2	31.7
41°	2064.1	2033.5	1976.0	1889.8	1768.1	1622.5	1430.5	1200.7	937.2	687.6	29.7
42°	2086.1	2054.8	1996.1	1908.0	1785.9	1644.9	1450.6	1221.5	955.3	696.5	28.2
43°	2098.4	2067.1	2010.0	1920.0	1796.7	1655.3	1461.4	1231.2	961.5	695.4	25.5
44°	2105.4	2072.9	2015.4	1925.4	1801.4	1658.0	1462.2	1229.2	957.3	686.1	23.2
45°	2097.7	2065.6	2010.0	1920.0	1793.2	1649.5	1454.5	1218.8	941.1	667.9	20.5
46°	2047.4	2022.7	1971.7	1889.1	1767.8	1627.9	1434.8	1198.7	915.9	645.5	17.4
47°	1959.0	1939.3	1889.8	1828.4	1718.7	1588.1	1398.4	1160.5	880.8	611.9	13.9
48°	1866.6	1837.7	1791.7	1728.7	1636.0	1516.7	1338.6	1104.5	827.5	567.9	12.4
49°	1730.3	1713.3	1672.7	1602.4	1525.5	1420.5	1254.0	1032.6	762.2	520.0	10.8
50°	1605.1	1593.5	1536.7	1485.0	1403.5	1305.3	1139.2	938.0	681.1	460.5	9.7
51°	1507.4	1493.5	1452.5	1388.0	1301.1	1187.1	1030.7	815.1	588.0	389.8	7.7
52°	1405.4	1397.7	1361.4	1294.9	1209.5	1096.0	925.2	710.8	497.6	329.5	6.2
53°	1322.0	1310.7	1266.3	1207.2	1114.9	997.5	810.9	613.8	421.5	277.0	5.4
54°	1200.3	1195.6	1167.0	1105.2	1005.2	877.3	707.3	516.9	351.5	234.9	4.6
55°	1070.9	1055.4	1026.4	977.4	885.4	766.1	587.6	428.4	284.3	197.8	3.5
56°	913.2	912.5	860.7	819.7	738.2	611.5	469.4	334.5	231.0	165.0	3.1
57°	762.6	738.2	688.4	647.8	560.1	464.0	348.5	250.7	180.8	133.7	2.3
58°	564.0	551.3	538.1	478.6	397.5	328.7	248.8	176.2	133.7	102.0	1.5
59°	382.8	382.4	367.0	321.8	275.1	204.7	155.3	119.8	91.9	74.9	1.2
60°	289.0	282.0	251.1	221.4	173.1	129.4	91.9	70.7	57.2	48.3	0.8
62.5°	101.2	105.1	92.3	76.5	58.3	47.9	36.7	29.7	24.3	19.7	0.0
65°	20.9	22.8	19.7	18.5	14.7	12.7	11.2	9.7	8.1	7.0	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°	2.7	2.3	2.3	2.3	1.9	1.9	1.9	1.9	1.5	1.5	0.4
70°	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.4
72.5°	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	22.4	22.4	22.4	22.4	22.4	22.4
2.5°	23.6	22.8	21.6	21.2	20.9	20.9
5°	23.2	21.6	20.5	19.3	18.9	18.9
7.5°	22.0	20.1	18.5	17.8	17.4	17.0
10°	20.9	18.2	16.6	15.8	15.8	15.8
12.5°	18.5	16.2	14.7	14.3	14.7	14.7
15°	16.6	13.9	13.1	13.1	13.5	13.9
17.5°	14.3	12.4	11.6	12.0	12.4	12.7
20°	12.7	10.4	10.4	10.8	12.0	12.0
22.5°	11.2	9.3	9.3	10.4	11.2	11.6
25°	10.0	8.1	8.5	9.7	10.8	11.2
27.5°	8.5	7.0	7.7	9.3	10.4	10.8
30°	7.3	6.2	7.3	8.9	10.0	10.8
31°	7.0	5.8	7.3	8.5	10.0	10.8
32°	6.2	5.8	7.0	8.5	10.0	10.4
33°	5.8	5.4	7.0	8.5	10.0	10.4
34°	5.4	5.0	6.6	8.5	10.0	10.4
35°	4.6	5.0	6.6	8.1	9.7	10.4
36°	4.2	4.6	6.6	8.1	9.7	10.4
37°	3.9	4.6	6.2	8.1	9.7	10.4
38°	3.5	4.2	6.2	8.1	9.7	10.4
39°	3.1	4.2	5.8	8.1	9.7	10.4
40°	2.7	3.9	5.8	7.7	9.7	10.4
41°	2.7	3.9	5.8	7.7	9.7	10.4
42°	2.3	3.9	5.8	7.7	9.7	10.4
43°	1.9	3.5	5.8	7.7	9.7	10.4
44°	1.5	3.5	5.4	7.7	9.7	10.4
45°	1.5	3.5	5.4	7.7	9.7	10.4
46°	1.2	3.1	5.4	7.7	9.7	10.4
47°	0.8	3.1	5.4	7.3	9.7	10.4
48°	0.8	3.1	5.4	7.3	9.7	10.4
49°	0.8	3.1	5.0	7.3	9.7	10.4
50°	0.8	3.1	5.0	7.3	9.7	10.4
51°	0.4	2.7	5.0	7.3	9.7	10.4
52°	0.4	2.7	5.0	7.3	9.7	10.8
53°	0.4	2.7	5.0	7.3	9.7	10.4
54°	0.4	2.7	4.6	7.3	9.7	10.4
55°	0.4	2.7	4.6	7.3	9.7	10.4
56°	0.4	2.3	4.6	7.0	9.7	10.4
57°	0.8	2.3	4.6	7.0	9.7	10.0
58°	0.8	2.3	4.6	7.0	9.3	10.0
59°	0.8	2.3	4.6	7.0	9.3	10.0
60°	0.8	2.3	4.2	7.0	9.3	10.0
62.5°	0.8	2.3	4.2	6.6	8.9	9.7
65°	0.8	2.3	3.9	6.2	8.9	9.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	1.9	3.9	5.8	8.5	8.9
70°	1.2	1.9	3.5	5.8	8.1	8.5
72.5°	1.2	1.9	3.5	5.0	7.3	8.1
75°	1.2	1.9	3.1	4.6	7.0	7.3
77.5°	1.2	1.9	2.7	4.2	6.2	6.6
80°	1.5	1.9	2.3	3.5	5.4	5.8
82.5°	1.5	1.9	1.9	2.7	4.2	4.6
85°	1.2	1.5	1.5	1.9	2.7	3.1
87.5°	1.2	1.5	1.2	0.8	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)