

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: P1315482

Luminaire Tested: P3SQAS17R259740DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315482
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: P3SQAS17R259740DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

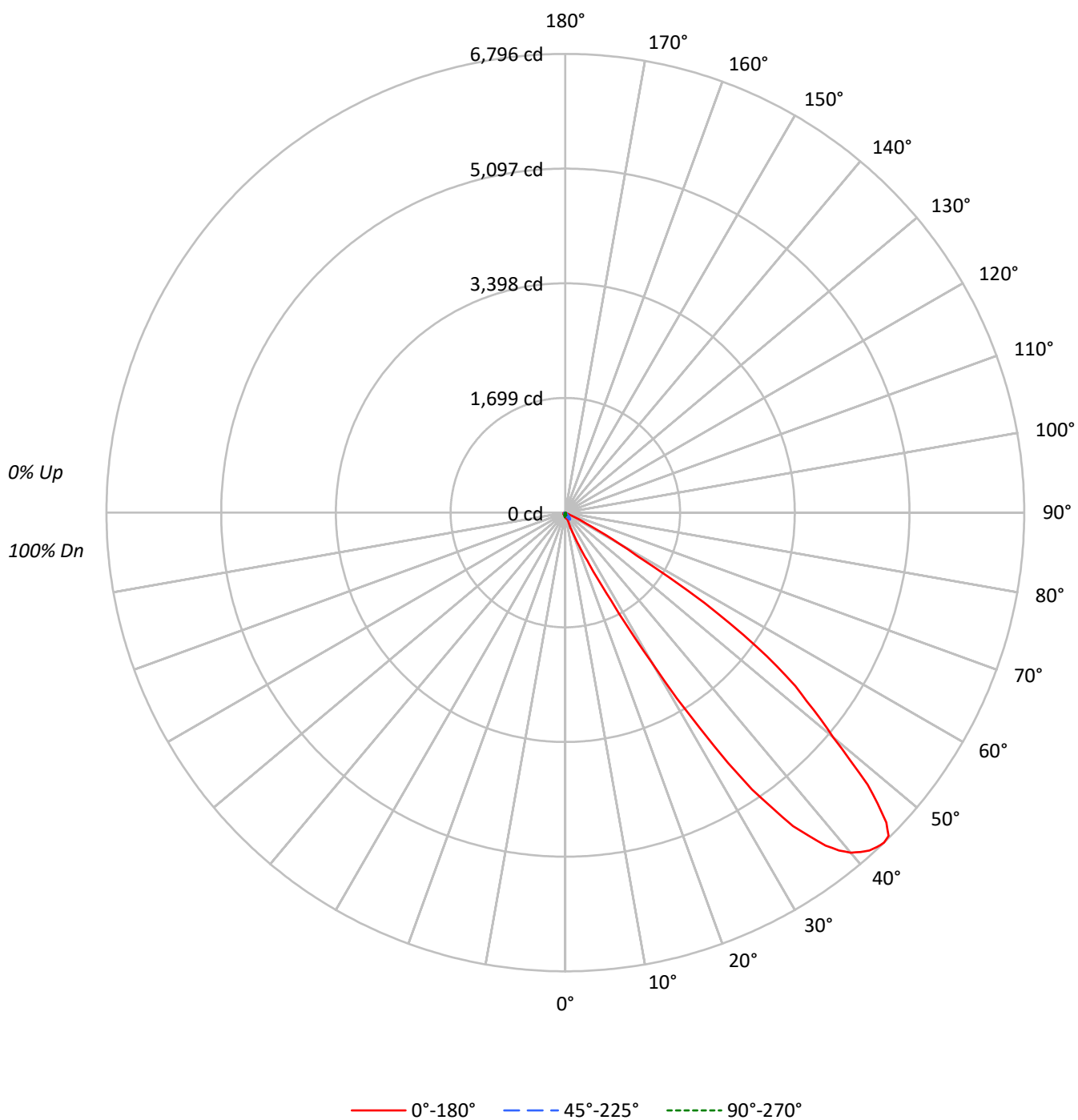
Lumens per Lamp: N/A
Luminaire Lumens: 1417.0 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	108	104	101	97	100	97	94		96	94	92		92
2	101	93	87	82	98	91	86	81	88	83	79		85	81	77		82
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	62	48	39	32	60	47	39	32	46	38	32		44	37	32		43
8	57	43	34	27	55	42	33	27	40	33	27		39	32	27		38
9	52	38	29	23	51	37	29	23	36	28	23		35	28	23		34
10	48	34	25	20	47	33	25	20	32	25	20		31	24	19		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12452	12452	12452	12452	12452
5°	14228	13588	12067	10770	10563
10°	14183	12871	10248	8936	8936
15°	15779	11108	8006	7560	8006
20°	55771	10978	6176	6396	7093
25°	160421	13986	4979	5929	6879
30°	511820	21577	3977	5707	6940
35°	1121005	25440	3406	5508	7085
40°	1478758	22977	2810	5598	7576
45°	1649093	16099	2728	6065	8208
50°	1388150	8359	2679	6350	9029
55°	1037852	3363	2612	7116	10119
60°	321264	861	2583	7716	11160
65°	27426	0	3056	8150	12185
70°	1863	604	3122	9416	13797
75°	1664	799	4126	9981	15770
80°	1190	1190	6149	11108	18546
85°	2371	2371	9880	12251	19760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1649093 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.5
10°-20°	16.7	1.2
20°-30°	78.4	5.5
30°-40°	377.4	26.6
40°-50°	591.6	41.8
50°-60°	303.3	21.4
60°-70°	28.6	2.0
70°-80°	9.6	0.7
80°-90°	4.8	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°	101.6	7.2
0°-40°	479.0	33.8
0°-60°	1373.9	97.0
0°-90°	1417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1417.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	72	72	72	72	72	
5°	82	79	70	62	61	8
15°	88	62	45	42	45	37
25°	844	74	26	31	36	524
35°	5332	121	16	26	34	3237
45°	6771	66	11	25	34	4954
55°	3456	11	9	24	34	2878
65°	67	0	8	20	30	211
75°	2	1	6	15	24	3
85°	1	1	5	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°	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
2.5°	78.6	78.6	78.6	78.6	78.6	78.6	77.3	77.3	78.6	77.3	77.3
5°	82.3	82.3	82.3	82.3	82.3	82.3	82.3	81.1	81.1	81.1	78.6
7.5°	83.5	82.3	82.3	82.3	82.3	82.3	82.3	82.3	81.1	81.1	77.3
10°	81.1	81.1	81.1	81.1	79.8	79.8	79.8	78.6	78.6	78.6	73.6
12.5°	81.1	81.1	81.1	81.1	79.8	79.8	78.6	78.6	77.3	76.1	67.3
15°	88.5	88.5	88.5	87.3	86.0	84.8	83.5	82.3	81.1	78.6	62.3
17.5°	129.7	125.9	124.7	119.7	113.5	107.2	102.2	97.3	92.3	88.5	59.9
20°	304.3	303.0	296.8	281.8	265.6	246.9	228.2	207.0	177.1	157.1	59.9
22.5°	527.4	520.0	508.7	497.5	468.8	435.2	400.3	360.4	321.7	280.6	63.6
25°	844.2	861.6	824.2	794.3	744.4	683.3	617.2	562.4	492.5	427.7	73.6
27.5°	1467.6	1478.9	1405.3	1308.0	1192.1	1063.6	938.9	845.4	728.2	621.0	92.3
30°	2573.7	2584.9	2461.4	2254.4	2015.0	1804.3	1518.8	1268.1	1037.4	859.1	108.5
31°	3212.1	3124.8	2981.4	2780.6	2477.6	2159.7	1816.8	1513.8	1222.0	987.6	113.5
32°	3767.0	3759.5	3592.4	3288.1	2983.9	2591.1	2165.9	1770.6	1412.8	1117.2	117.2
33°	4421.6	4371.7	4136.1	3849.3	3446.5	3051.2	2502.6	2051.2	1608.5	1261.9	119.7
34°	4946.6	4811.9	4714.6	4386.7	3961.5	3457.7	2870.4	2348.0	1852.9	1401.5	121.0
35°	5331.9	5303.2	5113.6	4808.1	4375.5	3860.5	3266.9	2656.0	2057.4	1563.6	121.0
36°	5739.6	5651.1	5466.5	5189.7	4768.2	4235.8	3570.0	2922.8	2295.6	1709.5	119.7
37°	5995.2	5942.9	5759.6	5474.0	5061.3	4552.5	3909.1	3204.6	2485.1	1855.4	117.2
38°	6258.3	6152.3	5971.5	5698.5	5293.2	4815.6	4154.8	3421.6	2659.7	1983.9	113.5
39°	6440.4	6330.6	6146.1	5874.3	5477.7	5003.9	4349.3	3606.1	2811.8	2079.9	108.5
40°	6577.5	6471.5	6284.5	6005.2	5613.7	5152.3	4511.4	3769.5	2939.0	2163.4	102.2
41°	6662.3	6563.8	6378.0	6100.0	5707.2	5237.1	4617.4	3875.4	3025.0	2219.5	96.0
42°	6733.4	6632.4	6442.9	6158.6	5764.5	5309.4	4682.2	3942.8	3083.6	2248.2	91.0
43°	6773.3	6672.3	6487.8	6197.2	5799.5	5343.1	4717.1	3974.0	3103.6	2244.5	82.3
44°	6795.8	6691.0	6505.2	6214.7	5814.4	5351.8	4719.6	3967.7	3089.9	2214.5	74.8
45°	6770.8	6667.3	6487.8	6197.2	5788.2	5324.4	4694.7	3934.1	3037.5	2155.9	66.1
46°	6608.7	6528.9	6364.3	6097.5	5705.9	5254.5	4631.1	3869.2	2956.5	2083.6	56.1
47°	6323.2	6259.6	6100.0	5901.7	5547.6	5126.1	4513.9	3745.8	2843.0	1975.1	44.9
48°	6025.1	5931.6	5783.2	5580.0	5280.7	4895.4	4320.6	3565.0	2670.9	1833.0	39.9
49°	5585.0	5530.1	5399.2	5172.3	4924.1	4584.9	4047.5	3333.0	2460.2	1678.4	34.9
50°	5181.0	5143.6	4960.3	4793.2	4530.1	4213.4	3677.2	3027.5	2198.3	1486.3	31.2
51°	4865.5	4820.6	4688.4	4480.2	4199.6	3831.8	3326.8	2631.0	1897.8	1258.1	24.9
52°	4536.3	4511.4	4394.2	4179.7	3904.1	3537.5	2986.4	2294.3	1606.0	1063.6	20.0
53°	4267.0	4230.8	4087.4	3896.6	3598.6	3219.6	2617.3	1981.4	1360.4	894.0	17.5
54°	3874.2	3859.2	3767.0	3567.5	3244.5	2831.8	2283.1	1668.4	1134.7	758.1	15.0
55°	3456.5	3406.6	3313.1	3154.7	2858.0	2472.7	1896.6	1382.8	917.7	638.4	11.2
56°	2947.7	2945.2	2778.2	2646.0	2382.9	1973.9	1515.0	1079.8	745.7	532.4	10.0
57°	2461.4	2382.9	2222.0	2091.1	1808.0	1497.6	1124.7	809.3	583.6	431.4	7.5
58°	1820.5	1779.4	1737.0	1544.9	1283.1	1061.1	803.0	568.6	431.4	329.2	5.0
59°	1235.7	1234.5	1184.6	1038.7	887.8	660.9	501.3	386.5	296.8	241.9	3.7
60°	932.7	910.3	810.5	714.5	558.6	417.7	296.8	228.2	184.5	155.9	2.5
62.5°	326.7	339.2	298.0	246.9	188.3	154.6	118.5	96.0	78.6	63.6	0.0
65°	67.3	73.6	63.6	59.9	47.4	41.1	36.2	31.2	26.2	22.4	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°	8.7	7.5	7.5	7.5	6.2	6.2	6.2	6.2	5.0	5.0	1.2
70°	3.7	3.7	3.7	3.7	3.7	3.7	2.5	2.5	2.5	2.5	1.2
72.5°	3.7	3.7	3.7	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5
85°	1.2	1.2	1.2	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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°	72.3	72.3	72.3	72.3	72.3	72.3
2.5°	76.1	73.6	69.8	68.6	67.3	67.3
5°	74.8	69.8	66.1	62.3	61.1	61.1
7.5°	71.1	64.8	59.9	57.4	56.1	54.9
10°	67.3	58.6	53.6	51.1	51.1	51.1
12.5°	59.9	52.4	47.4	46.1	47.4	47.4
15°	53.6	44.9	42.4	42.4	43.6	44.9
17.5°	46.1	39.9	37.4	38.7	39.9	41.1
20°	41.1	33.7	33.7	34.9	38.7	38.7
22.5°	36.2	29.9	29.9	33.7	36.2	37.4
25°	32.4	26.2	27.4	31.2	34.9	36.2
27.5°	27.4	22.4	24.9	29.9	33.7	34.9
30°	23.7	20.0	23.7	28.7	32.4	34.9
31°	22.4	18.7	23.7	27.4	32.4	34.9
32°	20.0	18.7	22.4	27.4	32.4	33.7
33°	18.7	17.5	22.4	27.4	32.4	33.7
34°	17.5	16.2	21.2	27.4	32.4	33.7
35°	15.0	16.2	21.2	26.2	31.2	33.7
36°	13.7	15.0	21.2	26.2	31.2	33.7
37°	12.5	15.0	20.0	26.2	31.2	33.7
38°	11.2	13.7	20.0	26.2	31.2	33.7
39°	10.0	13.7	18.7	26.2	31.2	33.7
40°	8.7	12.5	18.7	24.9	31.2	33.7
41°	8.7	12.5	18.7	24.9	31.2	33.7
42°	7.5	12.5	18.7	24.9	31.2	33.7
43°	6.2	11.2	18.7	24.9	31.2	33.7
44°	5.0	11.2	17.5	24.9	31.2	33.7
45°	5.0	11.2	17.5	24.9	31.2	33.7
46°	3.7	10.0	17.5	24.9	31.2	33.7
47°	2.5	10.0	17.5	23.7	31.2	33.7
48°	2.5	10.0	17.5	23.7	31.2	33.7
49°	2.5	10.0	16.2	23.7	31.2	33.7
50°	2.5	10.0	16.2	23.7	31.2	33.7
51°	1.2	8.7	16.2	23.7	31.2	33.7
52°	1.2	8.7	16.2	23.7	31.2	34.9
53°	1.2	8.7	16.2	23.7	31.2	33.7
54°	1.2	8.7	15.0	23.7	31.2	33.7
55°	1.2	8.7	15.0	23.7	31.2	33.7
56°	1.2	7.5	15.0	22.4	31.2	33.7
57°	2.5	7.5	15.0	22.4	31.2	32.4
58°	2.5	7.5	15.0	22.4	29.9	32.4
59°	2.5	7.5	15.0	22.4	29.9	32.4
60°	2.5	7.5	13.7	22.4	29.9	32.4
62.5°	2.5	7.5	13.7	21.2	28.7	31.2
65°	2.5	7.5	12.5	20.0	28.7	29.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.5	6.2	12.5	18.7	27.4	28.7
70°	3.7	6.2	11.2	18.7	26.2	27.4
72.5°	3.7	6.2	11.2	16.2	23.7	26.2
75°	3.7	6.2	10.0	15.0	22.4	23.7
77.5°	3.7	6.2	8.7	13.7	20.0	21.2
80°	5.0	6.2	7.5	11.2	17.5	18.7
82.5°	5.0	6.2	6.2	8.7	13.7	15.0
85°	3.7	5.0	5.0	6.2	8.7	10.0
87.5°	3.7	5.0	3.7	2.5	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)