

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: P1307838

Luminaire Tested: P3SQAS09R309030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R309030DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

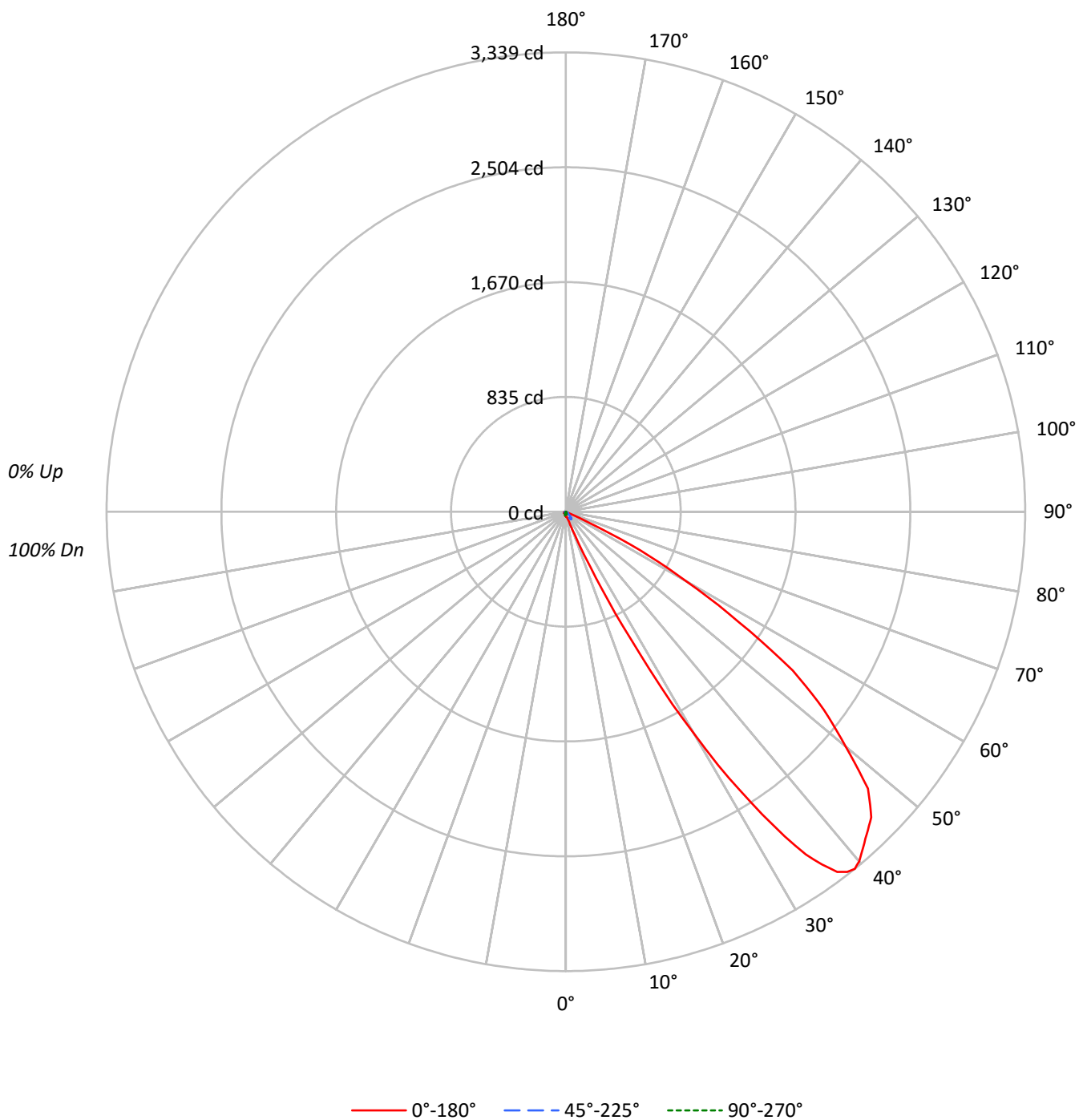
Lumens per Lamp: N/A
Luminaire Lumens: 868.0 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5787	5787	5787	5787	5787
5°	6189	6068	5688	5186	5048
10°	6785	6016	4984	4477	4354
15°	9913	5991	4172	3780	3905
20°	24925	6561	3207	3207	3611
25°	115745	8190	2508	2926	3325
30°	368458	11335	1889	2764	3341
35°	639334	13834	1535	2607	3385
40°	745640	13804	1147	2630	3462
45°	764680	9791	1242	2850	3751
50°	711115	5493	991	2947	4314
55°	604395	2852	1111	3303	4834
60°	349061	758	1274	3513	5304
65°	71193	0	1508	4157	5950
70°	1108	352	1863	4784	6999
75°	998	466	1930	4858	8251
80°	694	694	2876	5752	9422
85°	0	1383	5730	5730	11461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 764680 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.4
10°-20°	8.8	1.0
20°-30°	50.1	5.8
30°-40°	233.8	26.9
40°-50°	330.6	38.1
50°-60°	203.4	23.4
60°-70°	31.0	3.6
70°-80°	4.9	0.6
80°-90°	2.4	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°	61.8	7.1
0°-40°	295.6	34.1
0°-60°	829.7	95.6
0°-90°	868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	868.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	36	35	33	30	29	4
15°	56	34	23	21	22	20
25°	609	43	13	15	18	375
35°	3041	66	7	12	16	1825
45°	3140	40	5	12	15	2380
55°	2013	10	4	11	16	1713
65°	175	0	4	10	15	316
75°	2	1	3	7	12	2
85°	0	1	3	3	6	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
2.5°	34.4	34.4	35.1	35.1	34.4	35.1	35.1	35.1	33.6	32.9	31.4
5°	35.8	35.8	35.8	36.6	35.8	35.8	35.1	34.4	32.9	30.7	30.0
7.5°	37.3	37.3	36.6	37.3	36.6	36.6	35.1	33.6	31.4	29.2	27.8
10°	38.8	38.8	38.0	38.0	37.3	37.3	34.4	32.2	28.5	26.3	25.6
12.5°	43.1	43.1	42.4	41.7	40.2	39.5	33.6	30.0	25.6	23.4	22.7
15°	55.6	54.8	53.4	51.2	47.5	46.8	33.6	27.8	23.4	21.2	21.2
17.5°	76.0	75.3	73.1	67.3	60.7	58.5	33.6	24.9	20.5	19.0	19.0
20°	136.0	130.1	119.2	104.6	89.2	81.2	35.8	21.9	17.5	16.8	17.5
21°	177.7	171.8	157.9	133.8	106.8	98.0	37.3	21.2	16.8	16.1	17.5
22°	242.0	235.4	206.9	174.0	135.3	119.9	38.0	19.7	15.4	15.4	16.8
23°	337.8	326.8	278.6	225.9	168.9	147.0	39.5	19.0	14.6	15.4	16.1
24°	442.4	432.9	378.0	299.0	215.7	184.3	40.9	18.3	13.9	13.9	15.4
25°	609.1	598.1	500.8	377.3	273.5	221.5	43.1	16.8	13.2	13.2	15.4
26°	824.8	774.3	644.9	486.2	337.1	277.8	45.3	16.1	12.4	13.2	14.6
27°	1029.5	987.8	842.3	623.7	416.8	341.5	48.3	15.4	11.7	12.4	14.6
28°	1298.6	1240.1	1056.5	788.9	525.0	413.1	51.2	14.6	11.0	12.4	13.9
29°	1599.8	1517.9	1296.4	974.6	647.1	493.5	54.1	13.9	10.2	11.7	13.9
30°	1852.8	1776.0	1554.5	1194.7	787.5	599.6	57.0	13.2	9.5	11.7	13.9
31°	2149.6	2033.4	1765.0	1381.2	908.1	705.6	60.0	11.7	8.8	11.0	13.2
32°	2390.2	2309.0	2023.9	1591.7	1066.8	822.6	62.1	11.0	8.8	11.0	13.2
33°	2622.7	2513.8	2238.1	1793.6	1210.1	942.5	64.3	10.2	8.0	10.2	13.2
34°	2845.0	2744.8	2440.6	1956.6	1345.3	1056.5	65.8	8.8	8.0	10.2	12.4
35°	3040.9	2924.7	2619.0	2116.0	1484.3	1160.4	65.8	8.0	7.3	9.5	12.4
36°	3168.1	3084.8	2774.0	2273.2	1610.0	1259.1	65.8	7.3	6.6	9.5	11.7
37°	3277.1	3179.8	2898.3	2393.8	1702.9	1338.0	65.8	6.6	6.6	9.5	11.7
38°	3321.7	3238.3	2983.9	2500.6	1789.9	1418.5	65.1	5.8	5.8	8.8	11.7
39°	3339.2	3264.7	3048.2	2577.4	1854.2	1472.6	63.6	5.1	5.8	8.8	11.7
40°	3316.6	3260.3	3081.1	2627.1	1905.4	1512.1	61.4	4.4	5.1	8.8	11.7
42.5°	3223.0	3185.7	3073.8	2676.8	1949.3	1541.3	53.4	2.9	5.1	8.0	11.7
45°	3139.6	3098.7	3000.0	2624.9	1892.3	1483.5	40.2	1.5	5.1	8.0	11.7
47.5°	2978.0	2952.5	2874.9	2492.5	1767.2	1353.4	28.5	0.7	4.4	7.3	11.0
50°	2654.1	2630.0	2527.6	2164.3	1520.1	1144.3	20.5	0.7	3.7	7.3	11.0
52.5°	2363.9	2338.3	2191.3	1799.4	1167.7	838.6	13.2	0.7	3.7	7.3	11.0
55°	2012.9	1968.3	1775.3	1365.8	827.7	562.3	9.5	0.7	3.7	6.6	11.0
57.5°	1490.1	1425.0	1252.5	931.5	476.7	304.9	5.1	0.7	3.7	6.6	11.0
60°	1013.4	974.6	783.8	491.3	203.3	128.7	2.2	0.7	3.7	6.6	10.2
62.5°	614.2	565.2	394.1	209.1	87.7	58.5	0.0	1.5	3.7	6.6	10.2
65°	174.7	155.0	103.1	47.5	24.9	19.0	0.0	1.5	3.7	6.6	10.2
67.5°	5.8	5.8	5.8	5.1	3.7	3.7	0.7	1.5	3.7	6.6	9.5
70°	2.2	2.2	2.2	1.5	1.5	0.7	0.7	1.5	3.7	5.8	9.5
72.5°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	1.5	2.9	5.1	8.8
75°	1.5	1.5	1.5	0.7	0.7	0.7	0.7	2.2	2.9	5.1	7.3
77.5°	1.5	1.5	1.5	0.7	0.7	0.7	0.7	2.2	2.9	4.4	7.3
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.2	2.9	4.4	5.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.7	2.2	2.9	2.9	4.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.2	2.9	2.2	2.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.2	2.2	2.2	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):

	157.5°	180°
0°	33.6	33.6
2.5°	31.4	31.4
5°	29.2	29.2
7.5°	27.1	27.1
10°	24.9	24.9
12.5°	23.4	23.4
15°	21.2	21.9
17.5°	19.7	20.5
20°	19.0	19.7
21°	19.0	19.7
22°	18.3	19.0
23°	18.3	19.0
24°	17.5	18.3
25°	16.8	17.5
26°	16.8	17.5
27°	16.8	17.5
28°	16.1	17.5
29°	16.1	16.8
30°	16.1	16.8
31°	15.4	16.8
32°	15.4	16.8
33°	15.4	16.1
34°	14.6	16.1
35°	14.6	16.1
36°	14.6	16.1
37°	14.6	15.4
38°	14.6	16.1
39°	14.6	15.4
40°	14.6	15.4
42.5°	14.6	15.4
45°	14.6	15.4
47.5°	14.6	16.1
50°	14.6	16.1
52.5°	14.6	16.1
55°	14.6	16.1
57.5°	14.6	15.4
60°	14.6	15.4
62.5°	13.9	15.4
65°	13.9	14.6
67.5°	13.9	14.6
70°	13.2	13.9
72.5°	12.4	13.2
75°	11.0	12.4
77.5°	10.2	11.0
80°	8.8	9.5



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	7.3	7.3
85°	5.1	5.8
87.5°	2.9	2.9
90°	0.0	0.0

(END OF REPORT)