

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: P1307062

Luminaire Tested: P3SQAS17R359027DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307062
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: P3SQAS17R359027DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

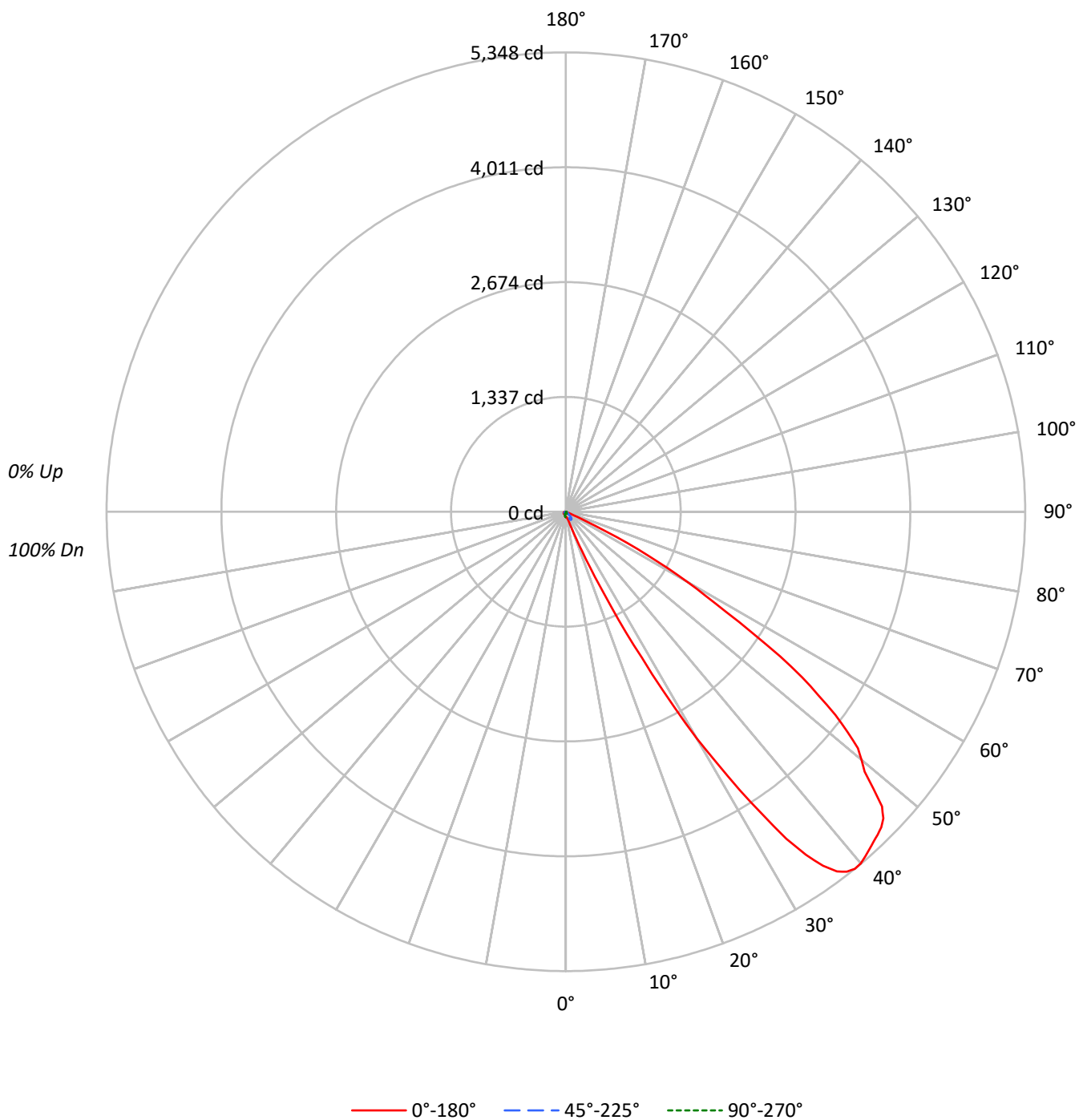
Lumens per Lamp: N/A
Luminaire Lumens: 1332.0 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	10557	10557	10557	10557	10557
5°	11427	11220	10390	9353	9145
10°	11979	10930	9251	7992	7992
15°	17152	10716	7506	6864	7078
20°	42978	11455	5956	5956	6616
25°	199471	14632	4561	5492	6176
30°	606401	19847	3580	5031	6224
35°	1024860	23001	3028	4794	6076
40°	1201329	22707	2428	4856	6497
45°	1265146	16099	2046	5261	7039
50°	1204242	9672	1929	5466	7743
55°	1009117	3963	2162	6125	9038
60°	564925	827	2480	7027	9954
65°	97518	489	2445	7824	11288
70°	1813	604	3021	8460	12740
75°	1597	799	3993	9582	14373
80°	1190	1190	4761	10711	16662
85°	0	2371	9485	11856	18970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1274107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.4
10°-20°	15.7	1.2
20°-30°	81.7	6.1
30°-40°	353.0	26.5
40°-50°	503.5	37.8
50°-60°	311.8	23.4
60°-70°	47.5	3.6
70°-80°	8.9	0.7
80°-90°	4.4	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°	103.0	7.7
0°-40°	455.9	34.2
0°-60°	1271.2	95.4
0°-90°	1332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1332.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	61	61	61	61	61	
5°	66	65	60	54	53	6
15°	96	60	42	38	40	35
25°	1050	77	24	29	32	628
35°	4875	109	14	23	29	2927
45°	5194	66	8	22	29	3924
55°	3361	13	7	20	30	2862
65°	239	1	6	19	28	489
75°	2	1	6	14	22	3
85°	0	1	5	6	10	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°	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
2.5°	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	61.3	60.1
5°	66.1	66.1	64.9	64.9	64.9	64.9	64.9	64.9	62.5	60.1	56.5
7.5°	67.3	67.3	66.1	66.1	66.1	66.1	64.9	63.7	61.3	56.5	52.9
10°	68.5	68.5	68.5	68.5	67.3	66.1	64.9	62.5	58.9	52.9	49.3
12.5°	77.0	77.0	75.8	73.3	70.9	68.5	66.1	61.3	54.1	48.1	44.5
15°	96.2	95.0	92.6	89.0	84.2	78.2	73.3	60.1	49.3	42.1	39.7
17.5°	134.7	132.3	128.7	116.6	105.8	95.0	85.4	60.1	44.5	37.3	34.9
20°	234.5	235.7	210.4	181.6	157.5	131.1	107.0	62.5	39.7	32.5	31.3
22.5°	489.4	470.1	410.0	340.3	259.7	200.8	151.5	68.5	34.9	27.7	27.7
25°	1049.7	976.4	830.9	627.7	442.5	313.8	220.0	77.0	31.3	24.0	25.3
27.5°	1916.6	1850.5	1558.3	1173.6	779.2	473.8	298.2	87.8	27.7	20.4	22.8
30°	3049.3	2866.6	2485.4	1923.9	1302.2	725.1	400.4	99.8	22.8	18.0	21.6
31°	3402.8	3318.7	2854.5	2225.7	1525.9	860.9	443.7	103.4	21.6	18.0	20.4
32°	3822.5	3673.4	3257.3	2556.3	1753.1	982.4	495.4	107.0	20.4	15.6	20.4
33°	4197.6	4053.3	3547.1	2847.3	1982.8	1120.7	550.7	108.2	18.0	15.6	19.2
34°	4592.0	4394.8	3893.4	3151.5	2218.5	1269.8	601.2	109.4	16.8	14.4	19.2
35°	4874.6	4677.4	4191.6	3392.0	2421.7	1402.0	658.9	109.4	15.6	14.4	18.0
36°	5093.4	4920.3	4448.9	3639.7	2623.7	1521.1	704.6	109.4	13.2	13.2	18.0
37°	5243.7	5079.0	4622.1	3852.5	2777.6	1626.9	745.5	109.4	12.0	13.2	18.0
38°	5317.1	5180.0	4789.2	4007.6	2926.7	1709.8	778.0	107.0	10.8	12.0	16.8
39°	5348.3	5236.5	4891.4	4138.7	3038.5	1782.0	802.0	104.6	9.6	12.0	16.8
40°	5343.5	5246.1	4949.1	4228.9	3128.7	1831.3	815.2	101.0	8.4	10.8	16.8
41°	5315.9	5231.7	4979.2	4305.8	3182.8	1864.9	818.8	97.4	7.2	10.8	15.6
42°	5284.6	5207.7	4988.8	4346.7	3217.7	1875.8	809.2	92.6	7.2	9.6	15.6
43°	5252.1	5181.2	4988.8	4360.0	3226.1	1868.6	793.6	84.2	6.0	9.6	15.6
44°	5225.7	5158.4	4973.2	4356.4	3208.0	1840.9	764.7	74.5	4.8	9.6	15.6
45°	5194.4	5128.3	4952.7	4333.5	3173.2	1794.0	728.7	66.1	3.6	8.4	15.6
46°	5139.1	5087.4	4916.7	4286.6	3117.9	1729.1	683.0	60.1	2.4	8.4	14.4
47°	5032.1	4987.6	4846.9	4216.9	3044.5	1652.1	636.1	54.1	2.4	8.4	14.4
48°	4816.9	4815.7	4707.5	4087.0	2927.9	1555.9	586.8	48.1	2.4	8.4	14.4
49°	4608.9	4587.2	4452.5	3858.6	2760.7	1440.5	535.1	43.3	1.2	8.4	14.4
50°	4494.6	4447.7	4226.5	3589.2	2546.7	1280.6	479.8	36.1	1.2	7.2	14.4
51°	4375.6	4308.3	4047.3	3346.3	2291.8	1126.7	419.6	28.9	1.2	7.2	13.2
52°	4160.4	4096.6	3804.4	3114.3	2044.1	969.1	361.9	24.0	1.2	7.2	14.4
53°	3928.3	3836.9	3519.5	2859.3	1826.5	829.7	303.0	20.4	1.2	7.2	13.2
54°	3636.1	3595.2	3230.9	2546.7	1571.6	695.0	248.9	16.8	1.2	7.2	13.2
55°	3360.8	3300.6	2921.9	2226.9	1340.7	569.9	208.0	13.2	1.2	7.2	13.2
56°	3009.6	2919.5	2564.8	1933.5	1106.2	459.3	175.6	10.8	1.2	7.2	13.2
57°	2591.2	2495.0	2214.8	1607.6	868.1	349.9	146.7	8.4	1.2	7.2	13.2
58°	2192.0	2109.0	1808.4	1240.9	654.1	242.9	121.4	6.0	1.2	6.0	13.2
59°	1893.8	1802.4	1504.2	954.7	454.5	179.2	91.4	4.8	1.2	7.2	13.2
60°	1640.1	1522.3	1210.8	739.5	324.7	128.7	67.3	2.4	2.4	7.2	13.2
62.5°	945.1	834.5	578.4	300.6	133.5	66.1	32.5	1.2	2.4	7.2	13.2
65°	239.3	212.8	138.3	64.9	37.3	22.8	12.0	1.2	2.4	6.0	12.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	8.4	8.4	8.4	7.2	6.0	4.8	2.4	1.2	2.4	6.0	12.0
70°	3.6	3.6	3.6	2.4	2.4	1.2	1.2	1.2	2.4	6.0	10.8
72.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	3.6	6.0	9.6
75°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	3.6	6.0	9.6
77.5°	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	3.6	4.8	8.4
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6	4.8	7.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6	4.8	6.0
85°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	3.6	4.8	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.6	4.8	3.6
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°	61.3	61.3	61.3
2.5°	57.7	57.7	57.7
5°	54.1	54.1	52.9
7.5°	50.5	49.3	49.3
10°	45.7	45.7	45.7
12.5°	42.1	42.1	42.1
15°	38.5	39.7	39.7
17.5°	34.9	37.3	37.3
20°	32.5	34.9	36.1
22.5°	30.1	32.5	33.7
25°	28.9	31.3	32.5
27.5°	26.5	30.1	32.5
30°	25.3	28.9	31.3
31°	25.3	28.9	30.1
32°	24.0	28.9	30.1
33°	24.0	28.9	30.1
34°	24.0	27.7	30.1
35°	22.8	27.7	28.9
36°	22.8	27.7	28.9
37°	22.8	27.7	30.1
38°	22.8	27.7	28.9
39°	21.6	27.7	28.9
40°	21.6	27.7	28.9
41°	21.6	27.7	28.9
42°	21.6	27.7	28.9
43°	21.6	27.7	28.9
44°	21.6	26.5	28.9
45°	21.6	26.5	28.9
46°	21.6	27.7	28.9
47°	21.6	27.7	30.1
48°	21.6	26.5	28.9
49°	20.4	26.5	28.9
50°	20.4	26.5	28.9
51°	20.4	27.7	30.1
52°	20.4	27.7	30.1
53°	20.4	27.7	30.1
54°	20.4	27.7	28.9
55°	20.4	27.7	30.1
56°	20.4	27.7	28.9
57°	20.4	27.7	28.9
58°	20.4	26.5	28.9
59°	20.4	26.5	28.9
60°	20.4	26.5	28.9
62.5°	19.2	26.5	28.9
65°	19.2	25.3	27.7



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	18.0	25.3	26.5
70°	16.8	24.0	25.3
72.5°	15.6	22.8	24.0
75°	14.4	20.4	21.6
77.5°	12.0	18.0	20.4
80°	10.8	15.6	16.8
82.5°	8.4	13.2	14.4
85°	6.0	9.6	9.6
87.5°	2.4	4.8	4.8
90°	0.0	0.0	0.0

(END OF REPORT)