

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: P1309245

Luminaire Tested: P3SQAS17R209035DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R209035DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

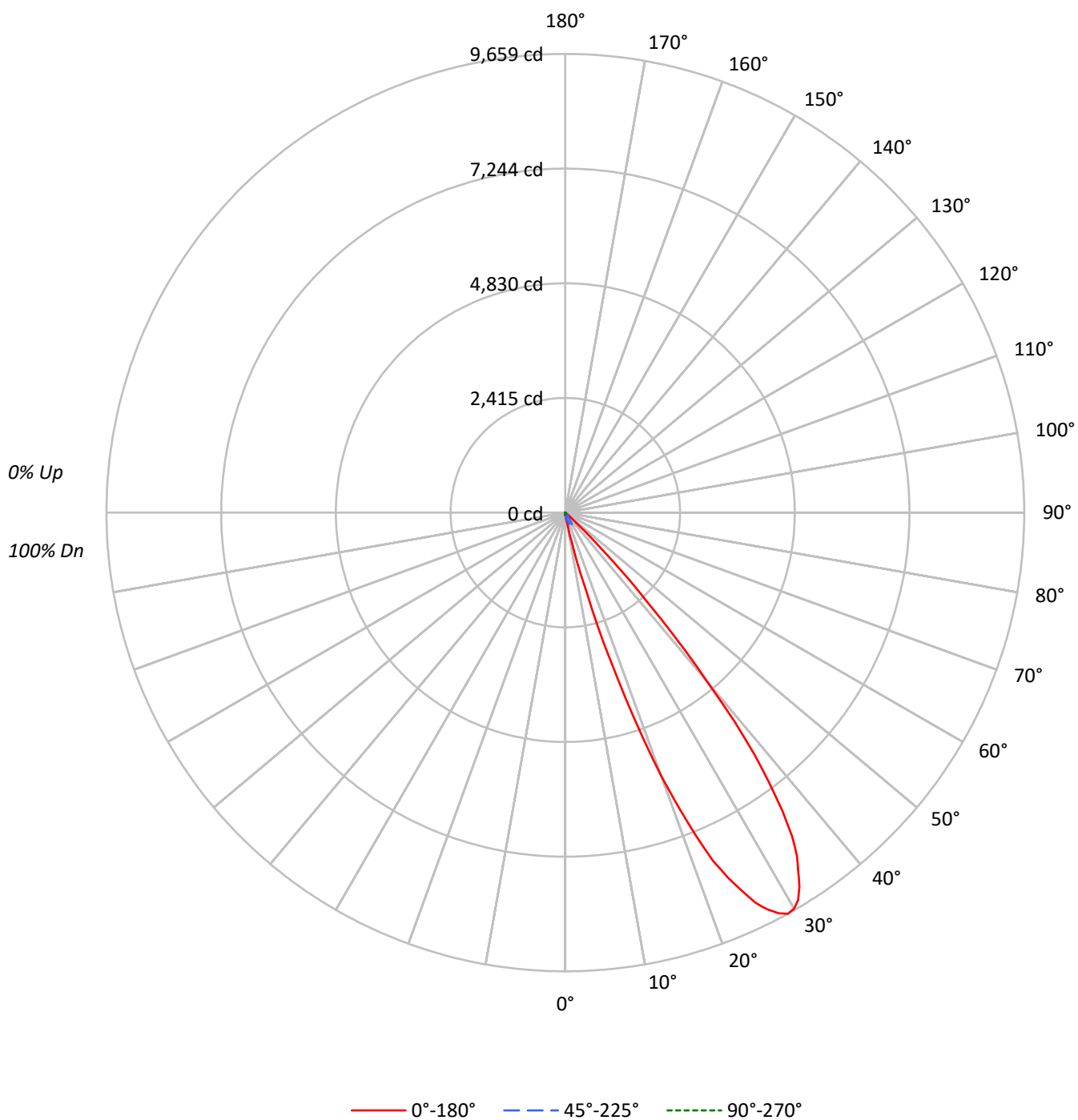
Lumens per Lamp: N/A
Luminaire Lumens: 1333.0 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8215	8215	8215	8215	8215
5°	17876	12603	7555	3440	2524
10°	44507	22262	5334	700	0
15°	313198	30489	3067	0	0
20°	1082443	51262	1210	0	0
25°	1668472	65502	513	0	0
30°	1915075	50611	0	0	0
35°	1749007	19237	0	0	0
40°	1048541	8948	0	0	0
45°	257662	4189	0	0	0
50°	28427	1072	0	0	0
55°	3993	0	390	0	0
60°	0	0	930	0	0
65°	0	0	1100	0	0
70°	0	655	2014	0	0
75°	0	865	2662	0	0
80°	0	1289	3967	0	0
85°	0	2569	7904	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 274784 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.4
10°-20°	104.1	7.8
20°-30°	526.6	39.5
30°-40°	569.7	42.7
40°-50°	120.3	9.0
50°-60°	3.6	0.3
60°-70°	0.9	0.1
70°-80°	1.2	0.1
80°-90°	1.1	0.1
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°	636.1	47.7
0°-40°	1205.8	90.5
0°-60°	1329.8	99.8
0°-90°	1333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1333.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	103	73	44	20	15	15
15°	1757	171	17	0	0	732
25°	8780	345	3	0	0	3969
35°	8319	92	0	0	0	4905
45°	1058	17	0	0	0	1164
55°	13	0	1	0	0	24
65°	0	0	3	0	0	0
75°	0	1	4	0	0	0
85°	0	1	4	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
2.5°	65.0	63.6	65.0	63.6	65.0	65.0	65.0	63.6	63.6	63.6	63.6
5°	103.4	103.4	102.1	103.4	103.4	103.4	103.4	102.1	102.1	100.8	100.8
7.5°	163.1	163.1	161.7	161.7	163.1	164.4	159.1	161.7	161.7	161.7	160.4
10°	254.5	259.8	254.5	261.2	255.9	251.9	258.5	251.9	251.9	250.6	246.6
12.5°	641.6	627.1	617.8	595.2	617.8	600.5	604.5	600.5	587.3	570.1	559.5
15°	1756.6	1756.6	1704.9	1773.8	1723.4	1742.0	1646.5	1647.9	1598.8	1545.8	1516.6
17.5°	3672.2	3705.4	3670.9	3649.7	3604.6	3539.7	3513.1	3445.5	3356.7	3253.3	3241.4
20°	5906.1	5766.9	5831.8	5772.2	5735.0	5655.5	5566.7	5511.0	5432.8	5301.5	5108.0
21°	6608.7	6603.4	6602.1	6600.7	6546.4	6416.5	6335.6	6224.2	6114.2	5979.0	5817.2
22°	7316.6	7341.8	7352.4	7275.5	7164.2	7105.8	7050.2	6897.7	6724.0	6653.8	6461.5
23°	7966.2	7942.4	7873.4	7837.6	7751.5	7734.2	7568.5	7471.7	7302.0	7225.1	6997.1
24°	8409.0	8397.1	8365.3	8312.2	8243.3	8137.2	8037.8	7885.4	7746.2	7620.2	7408.1
25°	8780.2	8790.8	8732.5	8696.7	8622.5	8503.1	8381.2	8214.1	8084.2	7937.1	7691.8
26°	9147.4	9073.2	9026.8	8973.8	8892.9	8756.4	8638.4	8488.6	8330.8	8166.4	7926.5
27°	9374.1	9307.8	9237.6	9185.9	9093.1	8963.2	8837.2	8671.5	8495.2	8329.5	8082.9
28°	9553.1	9480.2	9411.3	9348.9	9242.9	9103.7	8952.6	8784.2	8601.2	8430.2	8178.3
29°	9659.2	9573.0	9498.8	9428.5	9331.7	9180.6	9028.1	8847.8	8671.5	8492.5	8235.3
30°	9630.0	9555.8	9484.2	9412.6	9314.5	9172.6	9021.5	8849.2	8671.5	8495.2	8234.0
31°	9516.0	9424.5	9372.8	9301.2	9216.4	9071.9	8942.0	8753.7	8593.3	8402.4	8141.2
32°	9297.2	9238.9	9170.0	9114.3	9032.1	8878.3	8751.0	8597.3	8407.7	8251.3	7976.8
33°	9000.3	8945.9	8911.5	8846.5	8767.0	8660.9	8508.4	8367.9	8154.5	7994.1	7719.6
34°	8716.6	8647.6	8561.5	8542.9	8474.0	8337.4	8199.5	8056.4	7865.5	7661.3	7384.2
35°	8318.9	8247.3	8167.7	8174.4	8092.2	7933.1	7792.6	7632.1	7450.5	7210.6	6948.1
36°	7787.3	7739.5	7727.6	7695.8	7601.7	7412.1	7278.2	7076.7	6924.2	6631.2	6405.9
37°	7139.0	7156.2	7070.0	7028.9	6918.9	6786.3	6710.8	6452.3	6274.6	6054.5	5749.6
38°	6484.1	6458.9	6356.8	6382.0	6230.9	6093.0	5879.5	5725.8	5526.9	5322.7	5078.8
39°	5666.1	5603.8	5481.8	5487.1	5373.1	5218.0	5011.2	4829.6	4710.3	4514.1	4280.7
40°	4663.9	4637.4	4594.9	4524.7	4374.9	4307.2	4123.0	3926.8	3826.0	3554.2	3440.2
42.5°	2587.8	2552.0	2480.4	2455.2	2375.7	2296.1	2188.8	2057.5	1993.9	1913.0	1732.7
45°	1057.9	1128.2	1110.9	1091.1	1030.1	1034.1	957.2	966.4	896.2	848.5	815.3
47.5°	233.3	253.2	254.5	245.3	254.5	246.6	242.6	236.0	237.3	241.3	232.0
50°	106.1	104.7	107.4	106.1	104.7	103.4	102.1	98.1	100.8	98.1	95.5
52.5°	41.1	42.4	42.4	39.8	41.1	41.1	41.1	39.8	39.8	39.8	39.8
55°	13.3	13.3	13.3	11.9	11.9	13.3	13.3	13.3	13.3	13.3	11.9
57.5°	1.3	2.7	1.3	2.7	1.3	1.3	1.3	1.3	1.3	2.7	2.7
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
2.5°	61.0	55.7	51.7	47.7	39.8	33.1	30.5	30.5
5°	94.1	72.9	54.4	43.7	30.5	19.9	15.9	14.6
7.5°	141.9	98.1	57.0	37.1	19.9	10.6	6.6	5.3
10°	205.5	127.3	59.7	30.5	11.9	4.0	0.0	0.0
12.5°	359.3	152.5	59.7	23.9	5.3	0.0	0.0	0.0
15°	823.3	171.0	57.0	17.2	1.3	0.0	0.0	0.0
17.5°	1710.2	214.8	50.4	11.9	0.0	0.0	0.0	0.0
20°	2731.0	279.7	39.8	6.6	0.0	0.0	0.0	0.0
21°	3151.2	302.3	35.8	5.3	0.0	0.0	0.0	0.0
22°	3453.5	323.5	31.8	4.0	0.0	0.0	0.0	0.0
23°	3786.2	336.7	27.8	2.7	0.0	0.0	0.0	0.0
24°	4031.5	344.7	23.9	2.7	0.0	0.0	0.0	0.0
25°	4184.0	344.7	21.2	2.7	0.0	0.0	0.0	0.0
26°	4274.1	336.7	18.6	1.3	0.0	0.0	0.0	0.0
27°	4295.3	323.5	15.9	1.3	0.0	0.0	0.0	0.0
28°	4268.8	306.2	13.3	0.0	0.0	0.0	0.0	0.0
29°	4185.3	281.1	11.9	0.0	0.0	0.0	0.0	0.0
30°	4095.1	254.5	9.3	0.0	0.0	0.0	0.0	0.0
31°	3941.4	218.7	8.0	0.0	0.0	0.0	0.0	0.0
32°	3763.7	181.6	6.6	0.0	0.0	0.0	0.0	0.0
33°	3526.4	143.2	5.3	0.0	0.0	0.0	0.0	0.0
34°	3176.4	112.7	5.3	0.0	0.0	0.0	0.0	0.0
35°	2862.2	91.5	4.0	0.0	0.0	0.0	0.0	0.0
36°	2451.2	72.9	4.0	0.0	0.0	0.0	0.0	0.0
37°	2099.9	61.0	4.0	0.0	0.0	0.0	0.0	0.0
38°	1757.9	51.7	2.7	0.0	0.0	0.0	0.0	0.0
39°	1426.5	45.1	2.7	0.0	0.0	0.0	0.0	0.0
40°	1137.5	39.8	2.7	0.0	0.0	0.0	0.0	0.0
42.5°	613.8	26.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	339.4	17.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	149.8	9.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	50.4	4.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11.9	0.0	0.0	1.3	0.0	0.0	0.0	0.0
57.5°	2.7	0.0	0.0	1.3	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.3	2.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.3	2.7	1.3	0.0	0.0	0.0
65°	0.0	0.0	2.7	2.7	1.3	0.0	0.0	0.0
67.5°	0.0	1.3	2.7	4.0	1.3	0.0	0.0	0.0
70°	0.0	1.3	2.7	4.0	1.3	0.0	0.0	0.0
72.5°	0.0	1.3	2.7	4.0	1.3	0.0	0.0	0.0
75°	0.0	1.3	2.7	4.0	1.3	0.0	0.0	0.0
77.5°	0.0	1.3	2.7	4.0	1.3	0.0	0.0	0.0
80°	0.0	1.3	2.7	4.0	1.3	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.3	2.7	4.0	1.3	0.0	0.0	0.0
85°	0.0	1.3	2.7	4.0	1.3	0.0	0.0	0.0
87.5°	0.0	1.3	2.7	4.0	1.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)