

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: P1306684

Luminaire Tested: P3SQAS09R209027DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306684
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: P3SQAS09R209027DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

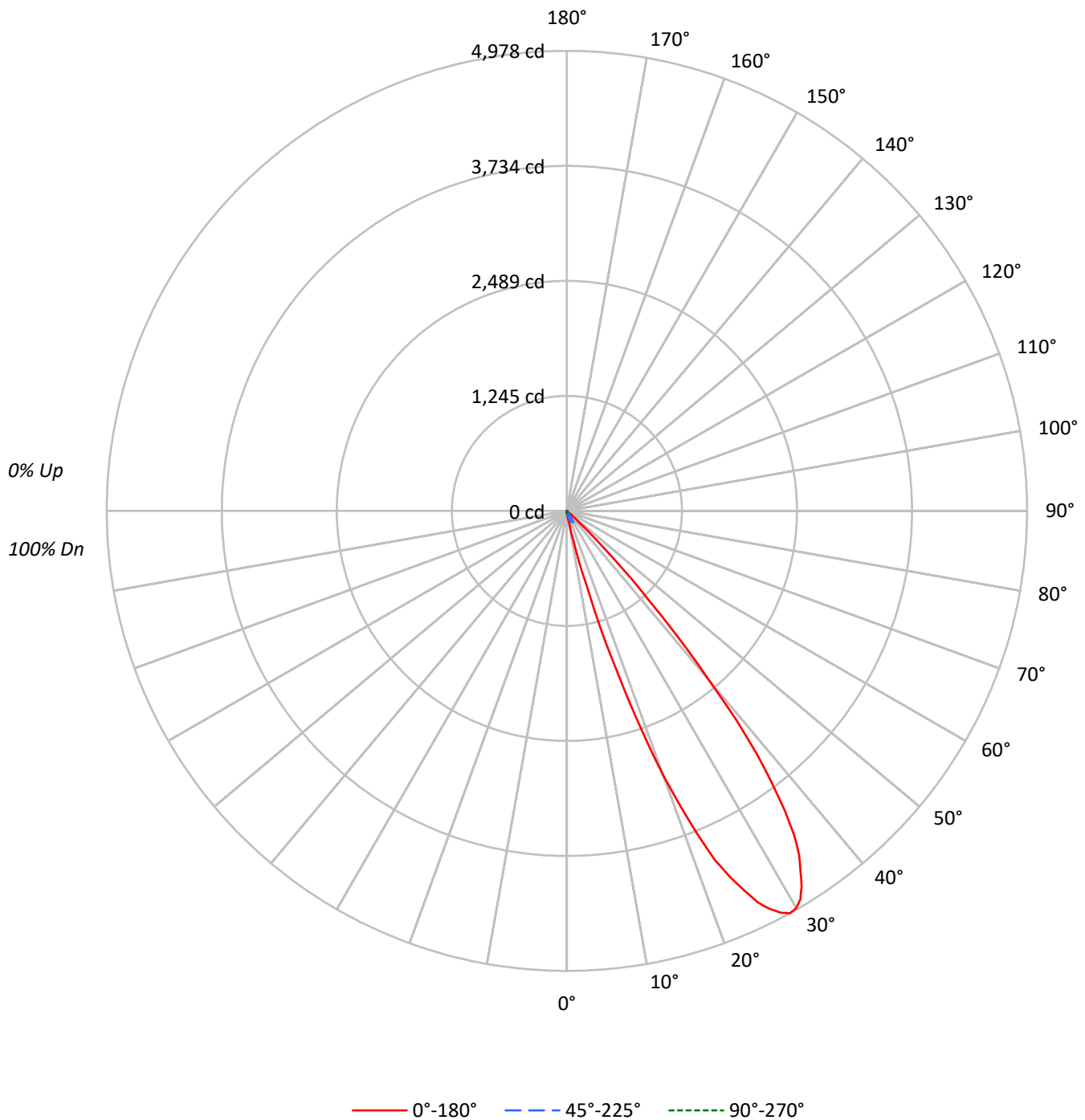
Lumens per Lamp: N/A
Luminaire Lumens: 687.0 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4237	4237	4237	4237	4237
5°	9215	6500	3890	1763	1297
10°	22944	11472	2746	350	0
15°	161413	15708	1587	0	0
20°	557872	26428	623	0	0
25°	859890	33749	266	0	0
30°	986990	26091	0	0	0
35°	901405	9903	0	0	0
40°	540401	4609	0	0	0
45°	132789	2168	0	0	0
50°	14656	536	0	0	0
55°	2042	0	210	0	0
60°	0	0	482	0	0
65°	0	0	571	0	0
70°	0	352	1007	0	0
75°	0	466	1331	0	0
80°	0	694	1984	0	0
85°	0	1383	3952	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 141606 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.4
10°-20°	53.7	7.8
20°-30°	271.4	39.5
30°-40°	293.6	42.7
40°-50°	62.0	9.0
50°-60°	1.9	0.3
60°-70°	0.5	0.1
70°-80°	0.6	0.1
80°-90°	0.6	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°	327.8	47.7
0°-40°	621.5	90.5
0°-60°	685.3	99.8
0°-90°	687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	687.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	53	38	22	10	8	7
15°	905	88	9	0	0	377
25°	4525	178	1	0	0	2045
35°	4287	47	0	0	0	2528
45°	545	9	0	0	0	600
55°	7	0	1	0	0	12
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	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°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
2.5°	33.5	32.8	33.5	32.8	33.5	33.5	33.5	32.8	32.8	32.8	32.8
5°	53.3	53.3	52.6	53.3	53.3	53.3	53.3	52.6	52.6	51.9	51.9
7.5°	84.0	84.0	83.4	83.4	84.0	84.7	82.0	83.4	83.4	83.4	82.7
10°	131.2	133.9	131.2	134.6	131.9	129.8	133.2	129.8	129.8	129.1	127.1
12.5°	330.7	323.2	318.4	306.8	318.4	309.5	311.6	309.5	302.7	293.8	288.3
15°	905.3	905.3	878.7	914.2	888.2	897.8	848.6	849.3	824.0	796.7	781.6
17.5°	1892.6	1909.7	1891.9	1881.0	1857.7	1824.3	1810.6	1775.8	1730.0	1676.7	1670.5
20°	3043.9	2972.1	3005.6	2974.9	2955.7	2914.7	2868.9	2840.3	2799.9	2732.3	2632.5
21°	3406.0	3403.2	3402.6	3401.9	3373.9	3306.9	3265.2	3207.8	3151.1	3081.4	2998.1
22°	3770.8	3783.8	3789.3	3749.7	3692.3	3662.2	3633.5	3554.9	3465.4	3429.2	3330.1
23°	4105.6	4093.3	4057.8	4039.3	3994.9	3986.1	3900.6	3850.8	3763.3	3723.7	3606.2
24°	4333.8	4327.7	4311.3	4284.0	4248.4	4193.8	4142.5	4063.9	3992.2	3927.3	3818.0
25°	4525.1	4530.6	4500.5	4482.1	4443.8	4382.3	4319.5	4233.4	4166.4	4090.6	3964.2
26°	4714.4	4676.1	4652.2	4624.9	4583.2	4512.8	4452.0	4374.8	4293.5	4208.8	4085.1
27°	4831.2	4797.1	4760.9	4734.2	4686.4	4619.4	4554.5	4469.1	4378.2	4292.8	4165.7
28°	4923.5	4885.9	4850.4	4818.2	4763.6	4691.8	4614.0	4527.2	4432.9	4344.8	4214.9
29°	4978.1	4933.7	4895.5	4859.2	4809.4	4731.5	4652.9	4560.0	4469.1	4376.9	4244.3
30°	4963.1	4924.8	4887.9	4851.0	4800.5	4727.4	4649.5	4560.7	4469.1	4378.2	4243.6
31°	4904.3	4857.2	4830.5	4793.7	4749.9	4675.5	4608.5	4511.5	4428.8	4330.4	4195.8
32°	4791.6	4761.5	4726.0	4697.3	4655.0	4575.7	4510.1	4430.8	4333.1	4252.5	4111.1
33°	4638.6	4610.5	4592.8	4559.3	4518.3	4463.6	4385.1	4312.6	4202.6	4120.0	3978.5
34°	4492.3	4456.8	4412.4	4402.8	4367.3	4296.9	4225.9	4152.1	4053.7	3948.5	3805.7
35°	4287.4	4250.5	4209.5	4212.9	4170.5	4088.5	4016.1	3933.4	3839.8	3716.2	3580.9
36°	4013.4	3988.8	3982.6	3966.2	3917.7	3820.0	3751.0	3647.2	3568.6	3417.6	3301.4
37°	3679.3	3688.2	3643.7	3622.6	3565.9	3497.5	3458.6	3325.4	3233.8	3120.4	2963.2
38°	3341.8	3328.8	3276.2	3289.1	3211.3	3140.2	3030.2	2950.9	2848.5	2743.2	2617.5
39°	2920.2	2888.1	2825.2	2828.0	2769.2	2689.3	2582.7	2489.1	2427.6	2326.5	2206.2
40°	2403.7	2390.0	2368.1	2331.9	2254.7	2219.9	2124.9	2023.8	1971.8	1831.8	1773.0
42.5°	1333.7	1315.2	1278.4	1265.4	1224.4	1183.4	1128.0	1060.4	1027.6	985.9	893.0
45°	545.2	581.4	572.6	562.3	530.9	532.9	493.3	498.1	461.9	437.3	420.2
47.5°	120.3	130.5	131.2	126.4	131.2	127.1	125.0	121.6	122.3	124.4	119.6
50°	54.7	54.0	55.3	54.7	54.0	53.3	52.6	50.6	51.9	50.6	49.2
52.5°	21.2	21.9	21.9	20.5	21.2	21.2	21.2	20.5	20.5	20.5	20.5
55°	6.8	6.8	6.8	6.1	6.1	6.8	6.8	6.8	6.8	6.8	6.1
57.5°	0.7	1.4	0.7	1.4	0.7	0.7	0.7	0.7	0.7	1.4	1.4
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°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
2.5°	31.4	28.7	26.6	24.6	20.5	17.1	15.7	15.7
5°	48.5	37.6	28.0	22.5	15.7	10.2	8.2	7.5
7.5°	73.1	50.6	29.4	19.1	10.2	5.5	3.4	2.7
10°	105.9	65.6	30.7	15.7	6.1	2.0	0.0	0.0
12.5°	185.2	78.6	30.7	12.3	2.7	0.0	0.0	0.0
15°	424.3	88.1	29.4	8.9	0.7	0.0	0.0	0.0
17.5°	881.4	110.7	26.0	6.1	0.0	0.0	0.0	0.0
20°	1407.5	144.2	20.5	3.4	0.0	0.0	0.0	0.0
21°	1624.1	155.8	18.4	2.7	0.0	0.0	0.0	0.0
22°	1779.9	166.7	16.4	2.0	0.0	0.0	0.0	0.0
23°	1951.3	173.5	14.3	1.4	0.0	0.0	0.0	0.0
24°	2077.8	177.6	12.3	1.4	0.0	0.0	0.0	0.0
25°	2156.3	177.6	10.9	1.4	0.0	0.0	0.0	0.0
26°	2202.8	173.5	9.6	0.7	0.0	0.0	0.0	0.0
27°	2213.7	166.7	8.2	0.7	0.0	0.0	0.0	0.0
28°	2200.1	157.8	6.8	0.0	0.0	0.0	0.0	0.0
29°	2157.0	144.8	6.1	0.0	0.0	0.0	0.0	0.0
30°	2110.5	131.2	4.8	0.0	0.0	0.0	0.0	0.0
31°	2031.3	112.7	4.1	0.0	0.0	0.0	0.0	0.0
32°	1939.7	93.6	3.4	0.0	0.0	0.0	0.0	0.0
33°	1817.4	73.8	2.7	0.0	0.0	0.0	0.0	0.0
34°	1637.1	58.1	2.7	0.0	0.0	0.0	0.0	0.0
35°	1475.1	47.1	2.0	0.0	0.0	0.0	0.0	0.0
36°	1263.3	37.6	2.0	0.0	0.0	0.0	0.0	0.0
37°	1082.3	31.4	2.0	0.0	0.0	0.0	0.0	0.0
38°	906.0	26.6	1.4	0.0	0.0	0.0	0.0	0.0
39°	735.2	23.2	1.4	0.0	0.0	0.0	0.0	0.0
40°	586.2	20.5	1.4	0.0	0.0	0.0	0.0	0.0
42.5°	316.3	13.7	0.0	0.0	0.0	0.0	0.0	0.0
45°	174.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	77.2	4.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	26.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.1	0.0	0.0	0.7	0.0	0.0	0.0	0.0
57.5°	1.4	0.0	0.0	0.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.7	1.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.7	1.4	0.7	0.0	0.0	0.0
65°	0.0	0.0	1.4	1.4	0.7	0.0	0.0	0.0
67.5°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
70°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
72.5°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
75°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
77.5°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
80°	0.0	0.7	1.4	2.0	0.7	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	0.7	1.4	2.0	0.7	0.0	0.0	0.0
85°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	1.4	2.0	0.7	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)