

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: P1306249

Luminaire Tested: P3SQASS20R409024D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQASS20R409024D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R40 optic, 2400K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

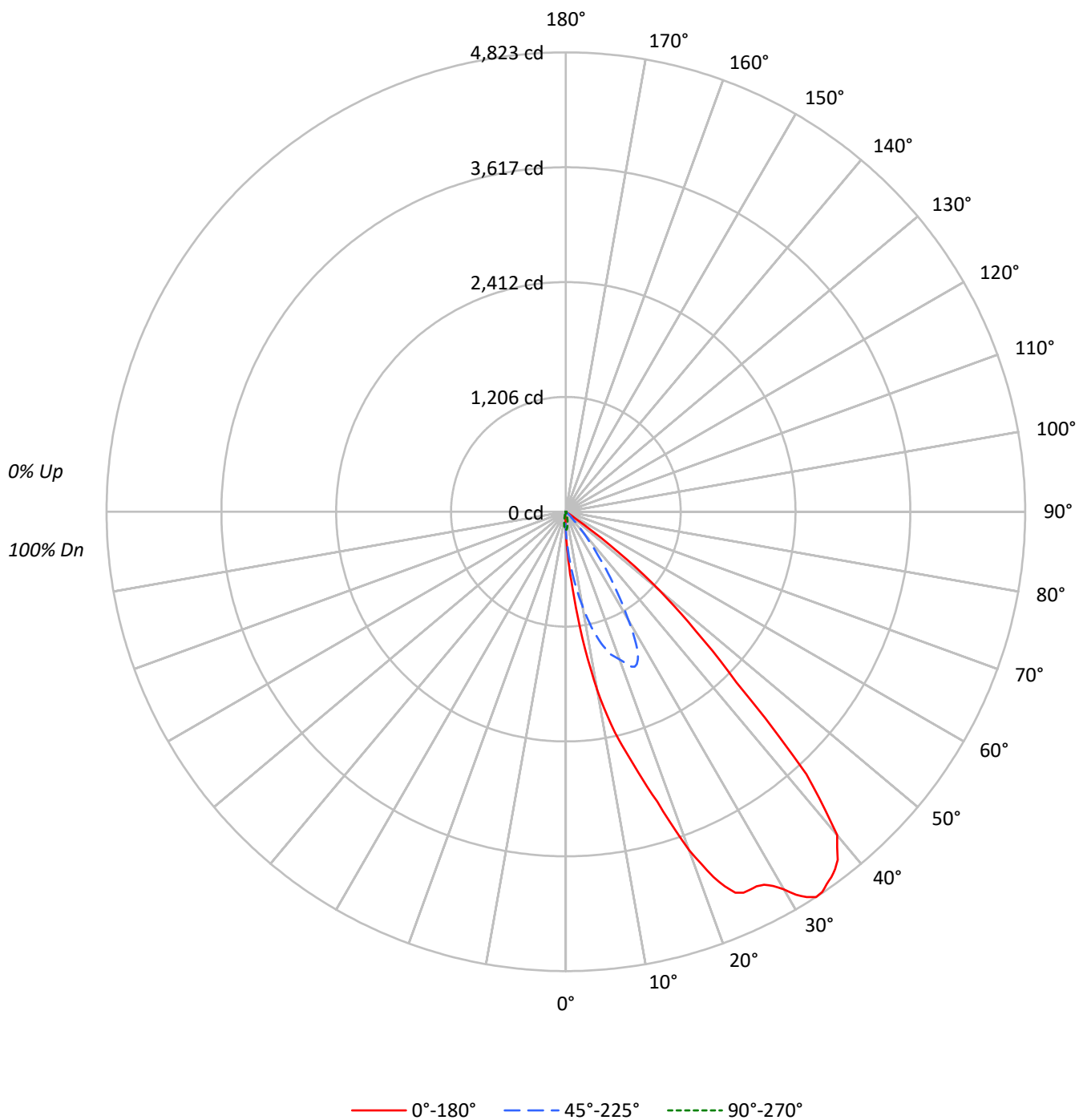
Lumens per Lamp: N/A
Luminaire Lumens: 1619.0 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99		99	98	96		96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	86	84	83
3	99	91	85	80	97	90	84	80	87	82	78		84	81	77		82	79	76	74
4	92	83	77	72	90	82	76	71	80	74	70		78	73	69		76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51		60	55	51		59	54	50	49
8	70	59	51	47	69	58	51	46	57	51	46		56	50	46		55	50	46	44
9	66	54	47	42	64	54	47	42	52	46	42		51	46	42		51	45	42	40
10	62	50	43	38	60	49	43	38	49	42	38		48	42	38		47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32619	32619	32619	32619	32619
5°	138425	94341	28612	5152	2576
10°	332708	175474	17733	525	0
15°	489678	254948	7435	0	0
20°	692177	302240	2731	0	0
25°	838379	335473	0	0	0
30°	910287	262403	0	0	0
35°	1003752	153605	0	0	0
40°	996248	62343	0	0	0
45°	616985	18170	0	0	0
50°	343568	402	0	0	0
55°	33569	0	0	0	0
60°	0	0	517	0	0
65°	0	0	611	0	0
70°	0	755	1511	0	0
75°	0	998	1996	0	0
80°	0	1488	2975	0	0
85°	0	2964	5928	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 619884 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.5	2.2
10°-20°	208.7	12.9
20°-30°	476.3	29.4
30°-40°	562.5	34.7
40°-50°	300.5	18.6
50°-60°	32.7	2.0
60°-70°	0.7	0.0
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°	720.5	44.5
0°-40°	1283.0	79.2
0°-60°	1616.1	99.8
0°-90°	1619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1619.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	189	189	189	189	189	
5°	801	546	166	30	15	113
15°	2746	1430	42	0	0	816
25°	4412	1765	0	0	0	2003
35°	4774	731	0	0	0	2949
45°	2533	75	0	0	0	2089
55°	112	0	0	0	0	314
65°	0	0	2	0	0	0
75°	0	2	3	0	0	0
85°	0	2	3	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	189.4	189.4	189.4	189.4	189.4	189.4	189.4	189.4	189.4	189.4	189.4
2.5°	441.3	432.4	438.4	426.4	426.4	399.6	401.1	378.7	345.9	263.9	187.9
5°	800.7	836.5	808.1	770.9	750.0	723.1	687.4	650.1	545.7	329.5	165.5
7.5°	1340.4	1337.4	1289.7	1249.5	1203.2	1131.7	1064.6	973.6	776.8	377.2	137.2
10°	1902.5	1892.1	1838.4	1804.1	1716.1	1613.3	1476.1	1330.0	1003.4	393.6	101.4
12.5°	2370.7	2357.3	2312.6	2254.4	2157.5	2027.8	1880.2	1687.8	1242.0	375.7	65.6
15°	2746.4	2743.5	2700.2	2621.2	2519.8	2393.1	2226.1	1995.0	1429.9	329.5	41.7
17.5°	3192.2	3210.1	3132.6	3047.6	2901.5	2724.1	2519.8	2255.9	1568.5	272.9	26.8
20°	3776.7	3751.4	3679.8	3556.1	3415.9	3202.7	2913.4	2536.2	1649.1	211.7	14.9
21°	3955.6	3945.2	3870.7	3755.8	3600.8	3384.6	3086.4	2679.3	1686.3	189.4	11.9
22°	4137.5	4119.7	4061.5	3949.7	3803.6	3559.0	3231.0	2826.9	1734.0	165.5	7.5
23°	4273.2	4265.8	4221.0	4110.7	3960.1	3723.0	3387.6	2964.1	1766.8	143.1	4.5
24°	4377.6	4368.7	4323.9	4240.4	4110.7	3863.2	3545.6	3111.7	1780.3	123.8	1.5
25°	4411.9	4416.4	4389.5	4323.9	4215.1	3967.6	3663.4	3228.0	1765.4	105.9	0.0
26°	4413.4	4426.8	4407.4	4370.1	4280.7	4051.1	3773.7	3296.6	1726.6	89.5	0.0
27°	4413.4	4426.8	4407.4	4379.1	4291.1	4098.8	3833.4	3304.1	1666.9	76.0	0.0
28°	4434.3	4441.7	4416.4	4382.1	4286.6	4113.7	3849.8	3259.3	1571.5	65.6	0.0
29°	4492.4	4485.0	4443.2	4397.0	4282.2	4113.7	3800.6	3174.4	1452.2	55.2	0.0
30°	4577.4	4577.4	4511.8	4438.7	4303.0	4112.2	3721.6	3020.8	1319.5	44.7	0.0
31°	4692.2	4681.8	4616.2	4507.3	4347.8	4112.2	3605.3	2850.8	1197.3	38.8	0.0
32°	4769.7	4763.8	4701.1	4572.9	4420.8	4112.2	3480.0	2662.9	1064.6	31.3	0.0
33°	4823.4	4811.5	4739.9	4607.2	4465.6	4091.3	3339.9	2461.7	945.3	25.3	0.0
34°	4816.0	4813.0	4738.4	4601.2	4456.6	4004.8	3177.3	2238.0	835.0	20.9	0.0
35°	4774.2	4774.2	4683.3	4541.6	4392.5	3878.1	3016.3	2047.2	730.6	14.9	0.0
36°	4742.9	4731.0	4628.1	4470.0	4285.2	3678.3	2777.7	1854.8	618.8	11.9	0.0
37°	4696.7	4674.3	4559.5	4389.5	4133.1	3462.1	2527.3	1683.3	523.3	7.5	0.0
38°	4637.0	4602.7	4462.6	4295.6	3966.1	3213.1	2272.3	1491.0	435.4	4.5	0.0
39°	4528.2	4499.9	4355.2	4174.8	3766.3	2950.7	2024.8	1310.6	351.9	1.5	0.0
40°	4431.3	4382.1	4218.1	4010.8	3532.2	2654.0	1778.8	1133.2	277.3	0.0	0.0
42.5°	3736.5	3684.3	3647.0	3441.2	2813.5	1905.5	1242.0	726.1	144.6	0.0	0.0
45°	2533.2	2545.1	2428.9	2290.2	1856.3	1242.0	776.8	404.1	74.6	0.0	0.0
47.5°	1847.4	1816.0	1658.0	1395.6	1088.4	726.1	405.6	195.3	29.8	0.0	0.0
50°	1282.3	1222.6	1079.5	882.7	591.9	345.9	178.9	91.0	1.5	0.0	0.0
52.5°	696.3	654.6	554.7	402.6	246.0	132.7	71.6	37.3	0.0	0.0	0.0
55°	111.8	77.5	80.5	68.6	53.7	38.8	22.4	4.5	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	1.5	1.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	3.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	3.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.0	3.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	3.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.0	3.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.0	3.0
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):

	112.5°	135°	157.5°	180°
0°	189.4	189.4	189.4	189.4
2.5°	126.7	86.5	65.6	56.7
5°	73.1	29.8	16.4	14.9
7.5°	35.8	10.4	6.0	6.0
10°	14.9	3.0	0.0	0.0
12.5°	4.5	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.5	0.0	0.0	0.0
67.5°	1.5	0.0	0.0	0.0
70°	1.5	0.0	0.0	0.0
72.5°	1.5	0.0	0.0	0.0
75°	1.5	0.0	0.0	0.0
77.5°	1.5	0.0	0.0	0.0
80°	1.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.5	0.0	0.0	0.0
85°	1.5	0.0	0.0	0.0
87.5°	1.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)