

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: P1310429

Luminaire Tested: P3SQAS17R409040DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310429
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: P3SQAS17R409040DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

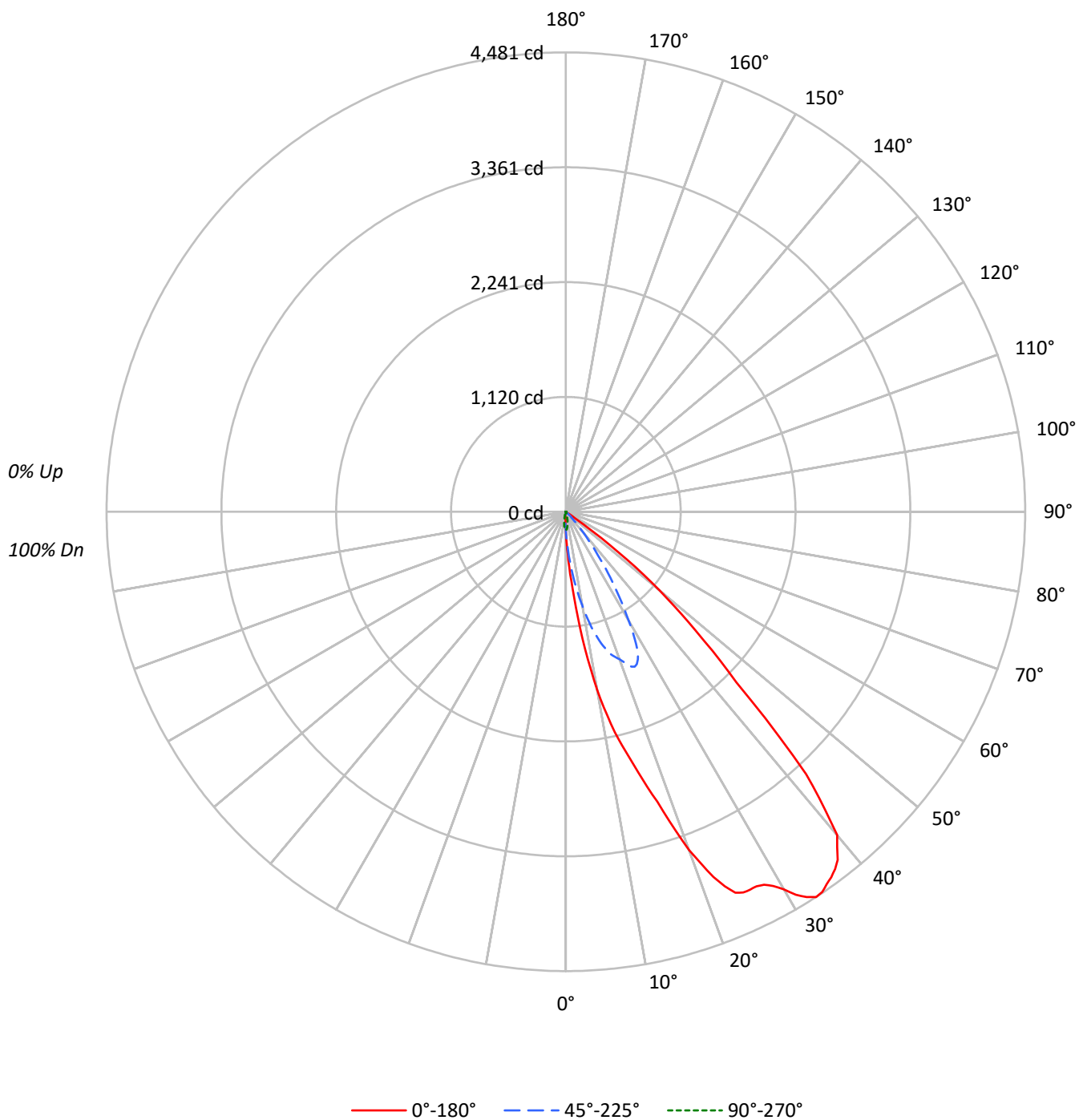
Lumens per Lamp: N/A
Luminaire Lumens: 1504.0 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	30294	30294	30294	30294	30294
5°	128589	87633	26572	4789	2403
10°	309082	163023	16474	490	0
15°	454910	236833	6918	0	0
20°	643022	280760	2548	0	0
25°	778824	311644	0	0	0
30°	845636	243769	0	0	0
35°	932458	142693	0	0	0
40°	925474	57914	0	0	0
45°	573169	16879	0	0	0
50°	319159	375	0	0	0
55°	31197	0	0	0	0
60°	0	0	482	0	0
65°	0	0	571	0	0
70°	0	705	1410	0	0
75°	0	932	1863	0	0
80°	0	1389	2777	0	0
85°	0	2766	5533	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 575872 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	2.2
10°-20°	193.9	12.9
20°-30°	442.5	29.4
30°-40°	522.5	34.7
40°-50°	279.2	18.6
50°-60°	30.3	2.0
60°-70°	0.6	0.0
70°-80°	1.1	0.1
80°-90°	1.0	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°	669.3	44.5
0°-40°	1191.8	79.2
0°-60°	1501.3	99.8
0°-90°	1504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1504.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	176	176	176	176	176	
5°	744	507	154	28	14	105
15°	2551	1328	39	0	0	758
25°	4098	1640	0	0	0	1861
35°	4435	679	0	0	0	2739
45°	2353	69	0	0	0	1940
55°	104	0	0	0	0	291
65°	0	0	1	0	0	0
75°	0	1	3	0	0	0
85°	0	1	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°	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9	175.9
2.5°	410.0	401.7	407.2	396.1	396.1	371.2	372.6	351.8	321.3	245.2	174.5
5°	743.8	777.0	750.7	716.1	696.7	671.8	638.5	603.9	506.9	306.1	153.7
7.5°	1245.2	1242.4	1198.1	1160.7	1117.8	1051.3	989.0	904.5	721.6	350.4	127.4
10°	1767.4	1757.7	1707.8	1676.0	1594.2	1498.7	1371.2	1235.5	932.2	365.7	94.2
12.5°	2202.3	2189.8	2148.3	2094.3	2004.2	1883.7	1746.6	1567.9	1153.8	349.0	60.9
15°	2551.4	2548.6	2508.4	2435.0	2340.8	2223.1	2068.0	1853.3	1328.3	306.1	38.8
17.5°	2965.5	2982.1	2910.1	2831.1	2695.4	2530.6	2340.8	2095.7	1457.1	253.5	24.9
20°	3508.5	3484.9	3418.4	3303.5	3173.3	2975.2	2706.5	2356.1	1531.9	196.7	13.9
21°	3674.7	3665.0	3595.7	3489.1	3345.0	3144.2	2867.2	2489.0	1566.5	175.9	11.1
22°	3843.6	3827.0	3773.0	3669.1	3533.4	3306.2	3001.5	2626.1	1610.9	153.7	6.9
23°	3969.7	3962.8	3921.2	3818.7	3678.8	3458.6	3146.9	2753.6	1641.3	133.0	4.2
24°	4066.7	4058.3	4016.8	3939.2	3818.7	3588.8	3293.8	2890.7	1653.8	115.0	1.4
25°	4098.5	4102.7	4077.7	4016.8	3915.7	3685.7	3403.2	2998.7	1640.0	98.3	0.0
26°	4099.9	4112.4	4094.4	4059.7	3976.6	3763.3	3505.7	3062.5	1603.9	83.1	0.0
27°	4099.9	4112.4	4094.4	4068.0	3986.3	3807.6	3561.1	3069.4	1548.5	70.6	0.0
28°	4119.3	4126.2	4102.7	4070.8	3982.2	3821.5	3576.3	3027.8	1459.9	60.9	0.0
29°	4173.3	4166.4	4127.6	4084.7	3978.0	3821.5	3530.6	2948.9	1349.1	51.2	0.0
30°	4252.3	4252.3	4191.3	4123.4	3997.4	3820.1	3457.2	2806.2	1225.8	41.6	0.0
31°	4358.9	4349.2	4288.3	4187.2	4038.9	3820.1	3349.2	2648.3	1112.2	36.0	0.0
32°	4430.9	4425.4	4367.2	4248.1	4106.8	3820.1	3232.8	2473.8	989.0	29.1	0.0
33°	4480.8	4469.7	4403.2	4280.0	4148.4	3800.7	3102.6	2286.8	878.2	23.5	0.0
34°	4473.9	4471.1	4401.8	4274.4	4140.1	3720.4	2951.6	2079.0	775.7	19.4	0.0
35°	4435.1	4435.1	4350.6	4219.0	4080.5	3602.6	2802.1	1901.7	678.7	13.9	0.0
36°	4406.0	4394.9	4299.3	4152.5	3980.8	3417.0	2580.4	1723.1	574.8	11.1	0.0
37°	4363.1	4342.3	4235.6	4077.7	3839.5	3216.2	2347.7	1563.8	486.2	6.9	0.0
38°	4307.7	4275.8	4145.6	3990.5	3684.4	2984.9	2110.9	1385.1	404.4	4.2	0.0
39°	4206.5	4180.2	4045.9	3878.3	3498.8	2741.1	1881.0	1217.5	326.9	1.4	0.0
40°	4116.5	4070.8	3918.4	3725.9	3281.3	2465.5	1652.4	1052.7	257.6	0.0	0.0
42.5°	3471.1	3422.6	3388.0	3196.8	2613.7	1770.2	1153.8	674.5	134.4	0.0	0.0
45°	2353.3	2364.4	2256.3	2127.5	1724.4	1153.8	721.6	375.4	69.3	0.0	0.0
47.5°	1716.1	1687.1	1540.2	1296.5	1011.1	674.5	376.7	181.4	27.7	0.0	0.0
50°	1191.2	1135.8	1002.8	820.0	549.9	321.3	166.2	84.5	1.4	0.0	0.0
52.5°	646.8	608.1	515.3	374.0	228.5	123.3	66.5	34.6	0.0	0.0	0.0
55°	103.9	72.0	74.8	63.7	49.9	36.0	20.8	4.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	1.4	1.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8	2.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8	2.8



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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	1.4	1.4	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8	2.8
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°	175.9	175.9	175.9	175.9
2.5°	117.7	80.3	60.9	52.6
5°	67.9	27.7	15.2	13.9
7.5°	33.2	9.7	5.5	5.5
10°	13.9	2.8	0.0	0.0
12.5°	4.2	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°	1.4	0.0	0.0	0.0
67.5°	1.4	0.0	0.0	0.0
70°	1.4	0.0	0.0	0.0
72.5°	1.4	0.0	0.0	0.0
75°	1.4	0.0	0.0	0.0
77.5°	1.4	0.0	0.0	0.0
80°	1.4	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.4	0.0	0.0	0.0
85°	1.4	0.0	0.0	0.0
87.5°	1.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)