

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: P1307221

Luminaire Tested: P3SQAS20R409027D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307221
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: P3SQAS20R409027D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

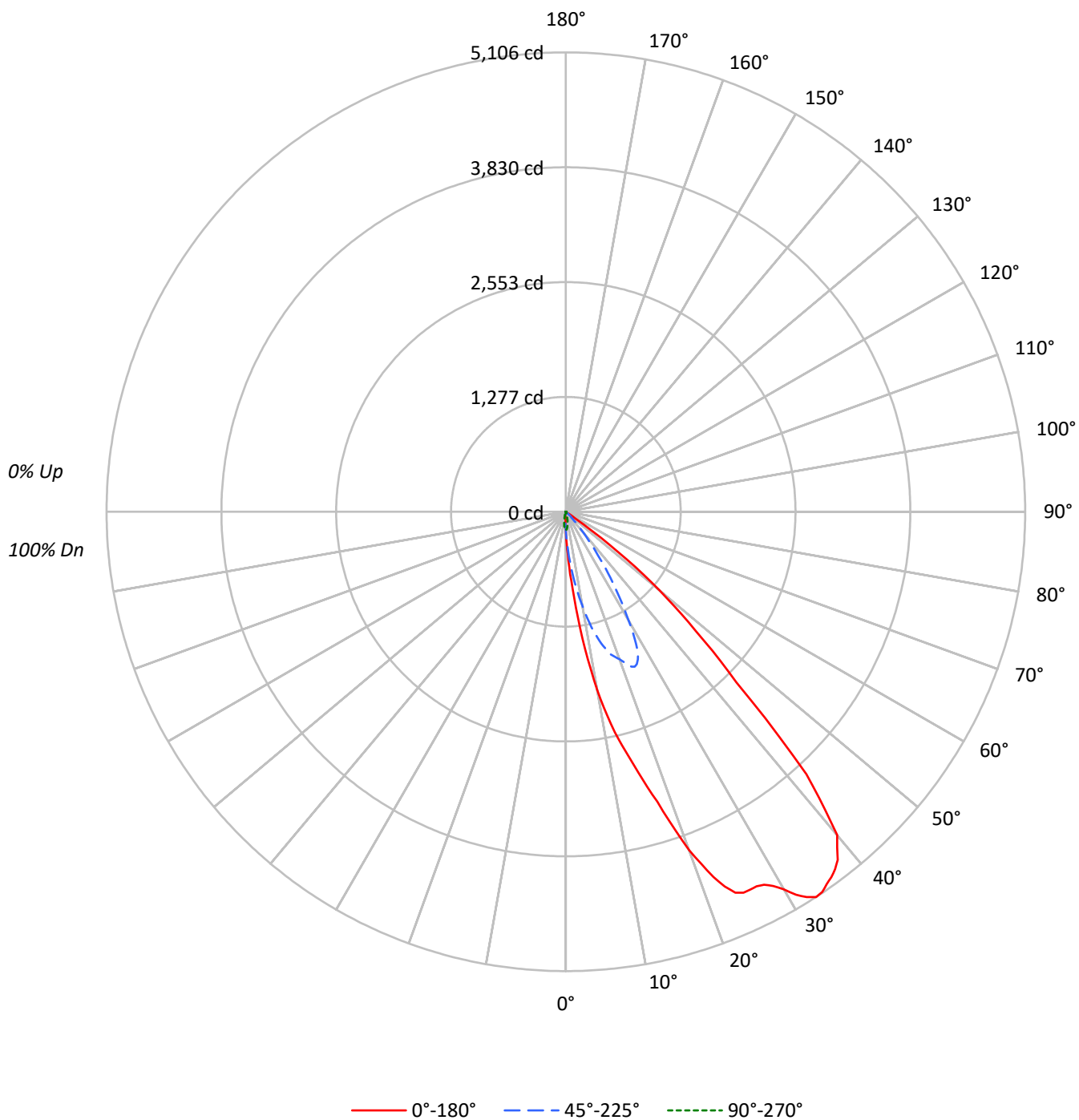
Lumens per Lamp: N/A
Luminaire Lumens: 1714.0 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	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°	34531	34531	34531	34531	34531
5°	146551	99873	30289	5463	2732
10°	352242	185774	18765	560	0
15°	518419	269908	7881	0	0
20°	732790	319962	2896	0	0
25°	887577	355141	0	0	0
30°	963703	277815	0	0	0
35°	1062641	162625	0	0	0
40°	1054701	66007	0	0	0
45°	653202	19217	0	0	0
50°	363716	429	0	0	0
55°	35551	0	0	0	0
60°	0	0	551	0	0
65°	0	0	652	0	0
70°	0	806	1611	0	0
75°	0	1065	2129	0	0
80°	0	1587	3174	0	0
85°	0	3162	6323	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 656271 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	2.2
10°-20°	220.9	12.9
20°-30°	504.3	29.4
30°-40°	595.5	34.7
40°-50°	318.1	18.6
50°-60°	34.6	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°	762.8	44.5
0°-40°	1358.3	79.2
0°-60°	1711.0	99.8
0°-90°	1714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1714.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	200	200	200	200	200	
5°	848	578	175	32	16	119
15°	2908	1514	44	0	0	864
25°	4671	1869	0	0	0	2121
35°	5054	774	0	0	0	3122
45°	2682	79	0	0	0	2211
55°	118	0	0	0	0	332
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°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5
2.5°	467.2	457.8	464.1	451.5	451.5	423.0	424.6	400.9	366.2	279.4	198.9
5°	847.7	885.5	855.5	816.1	794.0	765.6	727.7	688.2	577.7	348.8	175.2
7.5°	1419.1	1415.9	1365.4	1322.8	1273.8	1198.1	1127.0	1030.8	822.4	399.4	145.2
10°	2014.2	2003.1	1946.3	1910.0	1816.9	1707.9	1562.7	1408.0	1062.3	416.7	107.3
12.5°	2509.8	2495.6	2448.2	2386.7	2284.1	2146.8	1990.5	1786.9	1314.9	397.8	69.5
15°	2907.6	2904.4	2858.7	2775.0	2667.7	2533.5	2356.7	2112.0	1513.8	348.8	44.2
17.5°	3379.6	3398.5	3316.4	3226.4	3071.8	2883.9	2667.7	2388.3	1660.6	288.9	28.4
20°	3998.3	3971.5	3895.7	3764.7	3616.3	3390.6	3084.4	2685.0	1745.8	224.1	15.8
21°	4187.8	4176.7	4097.8	3976.2	3812.1	3583.2	3267.5	2836.6	1785.3	200.5	12.6
22°	4380.3	4361.4	4299.8	4181.4	4026.7	3767.9	3420.6	2992.8	1835.8	175.2	7.9
23°	4524.0	4516.1	4468.7	4351.9	4192.5	3941.5	3586.3	3138.1	1870.5	151.5	4.7
24°	4634.5	4625.0	4577.6	4489.2	4351.9	4089.9	3753.7	3294.3	1884.7	131.0	1.6
25°	4670.8	4675.5	4647.1	4577.6	4462.4	4200.4	3878.4	3417.4	1868.9	112.1	0.0
26°	4672.4	4686.6	4666.0	4626.6	4531.9	4288.8	3995.2	3490.1	1827.9	94.7	0.0
27°	4672.4	4686.6	4666.0	4636.0	4542.9	4339.3	4058.3	3497.9	1764.8	80.5	0.0
28°	4694.4	4702.3	4675.5	4639.2	4538.2	4355.1	4075.7	3450.6	1663.7	69.5	0.0
29°	4756.0	4748.1	4703.9	4655.0	4533.4	4355.1	4023.6	3360.6	1537.5	58.4	0.0
30°	4846.0	4846.0	4776.5	4699.2	4555.5	4353.5	3939.9	3198.0	1397.0	47.4	0.0
31°	4967.5	4956.5	4887.0	4771.8	4602.9	4353.5	3816.8	3018.1	1267.5	41.0	0.0
32°	5049.6	5043.3	4977.0	4841.3	4680.2	4353.5	3684.2	2819.2	1127.0	33.1	0.0
33°	5106.4	5093.8	5018.0	4877.6	4727.6	4331.4	3535.8	2606.1	1000.8	26.8	0.0
34°	5098.5	5095.4	5016.5	4871.2	4718.1	4239.8	3363.8	2369.3	884.0	22.1	0.0
35°	5054.3	5054.3	4958.1	4808.1	4650.3	4105.7	3193.3	2167.3	773.5	15.8	0.0
36°	5021.2	5008.6	4899.7	4732.3	4536.6	3894.2	2940.7	1963.7	655.1	12.6	0.0
37°	4972.3	4948.6	4827.0	4647.1	4375.6	3665.3	2675.6	1782.1	554.1	7.9	0.0
38°	4909.1	4872.8	4724.4	4547.6	4198.8	3401.7	2405.6	1578.5	460.9	4.7	0.0
39°	4793.9	4763.9	4610.8	4419.8	3987.3	3123.8	2143.6	1387.5	372.5	1.6	0.0
40°	4691.3	4639.2	4465.6	4246.2	3739.5	2809.7	1883.1	1199.7	293.6	0.0	0.0
42.5°	3955.7	3900.5	3861.0	3643.2	2978.6	2017.3	1314.9	768.7	153.1	0.0	0.0
45°	2681.9	2694.5	2571.4	2424.6	1965.2	1314.9	822.4	427.8	78.9	0.0	0.0
47.5°	1955.8	1922.6	1755.3	1477.5	1152.3	768.7	429.4	206.8	31.6	0.0	0.0
50°	1357.5	1294.4	1142.8	934.5	626.7	366.2	189.4	96.3	1.6	0.0	0.0
52.5°	737.2	693.0	587.2	426.2	260.5	140.5	75.8	39.5	0.0	0.0	0.0
55°	118.4	82.1	85.2	72.6	56.8	41.0	23.7	4.7	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	1.6	1.6
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	3.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	3.2



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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	1.6	1.6	3.2	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	3.2
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°	200.5	200.5	200.5	200.5
2.5°	134.2	91.6	69.5	60.0
5°	77.3	31.6	17.4	15.8
7.5°	37.9	11.0	6.3	6.3
10°	15.8	3.2	0.0	0.0
12.5°	4.7	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°	1.6	0.0	0.0	0.0
67.5°	1.6	0.0	0.0	0.0
70°	1.6	0.0	0.0	0.0
72.5°	1.6	0.0	0.0	0.0
75°	1.6	0.0	0.0	0.0
77.5°	1.6	0.0	0.0	0.0
80°	1.6	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.6	0.0	0.0	0.0
85°	1.6	0.0	0.0	0.0
87.5°	1.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)