

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: P1307044

Luminaire Tested: P3SQAS17R309027DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R309027DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

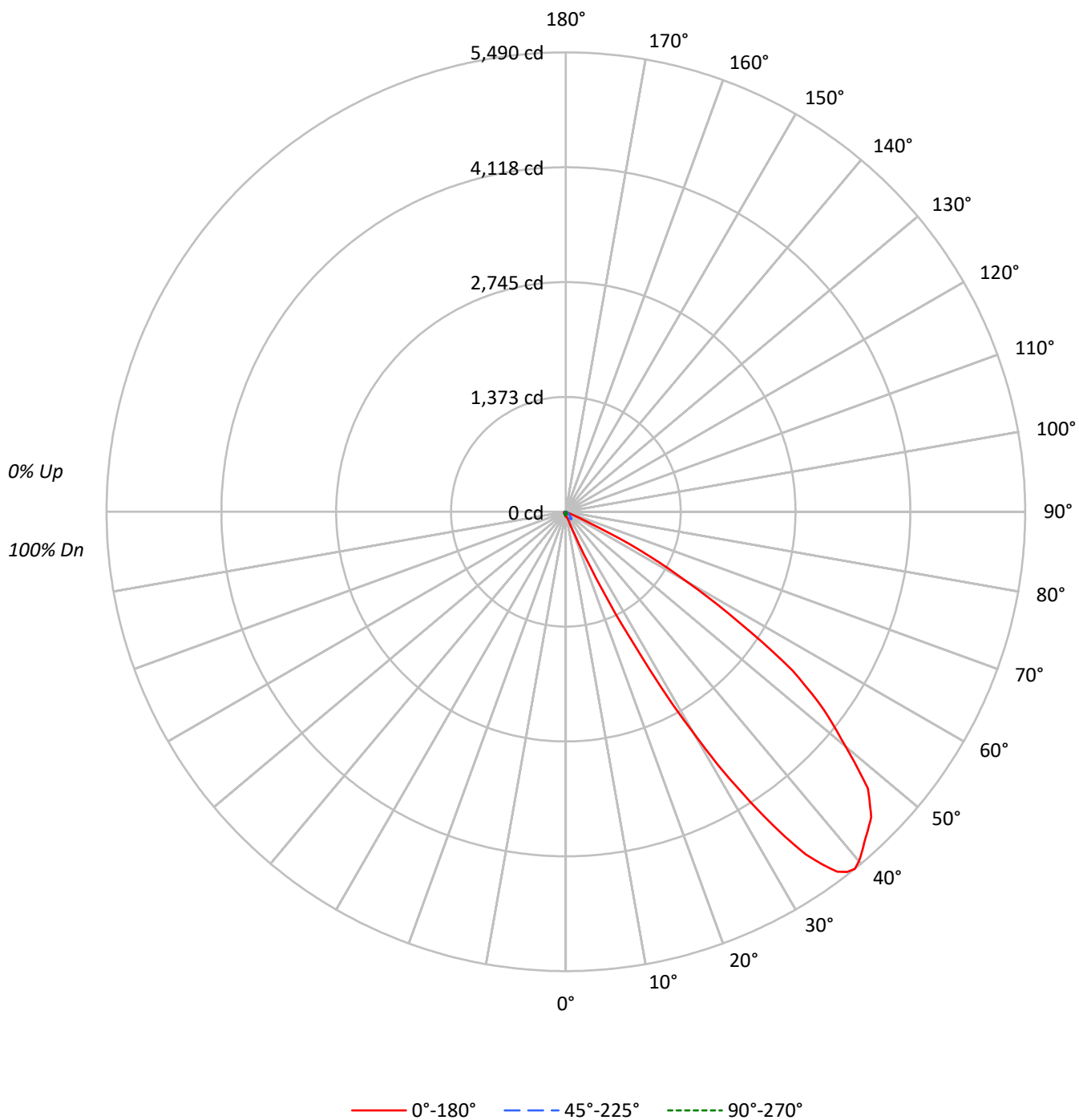
Lumens per Lamp: N/A
Luminaire Lumens: 1426.9 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24		
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9524	9524	9524	9524	9524
5°	10183	9975	9353	8523	8316
10°	11140	9881	8202	7362	7153
15°	16296	9860	6864	6223	6437
20°	40980	10795	5278	5278	5956
25°	190274	13473	4105	4789	5473
30°	605745	18654	3102	4534	5489
35°	1051078	22749	2523	4289	5550
40°	1225835	22707	1888	4317	5665
45°	1257157	16099	2046	4676	6138
50°	1169090	9029	1608	4823	7073
55°	993624	4684	1802	5405	7927
60°	573846	1240	2067	5787	8680
65°	117079	0	2445	6846	9780
70°	1813	604	3021	7855	11481
75°	1597	799	3194	7985	13575
80°	1190	1190	4761	9521	15472
85°	0	2371	9485	9485	18970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1257157 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.4
10°-20°	14.4	1.0
20°-30°	82.3	5.8
30°-40°	384.4	26.9
40°-50°	543.5	38.1
50°-60°	334.4	23.4
60°-70°	50.9	3.6
70°-80°	8.0	0.6
80°-90°	4.0	0.3
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°	101.7	7.1
0°-40°	486.0	34.1
0°-60°	1363.9	95.6
0°-90°	1426.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1426.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	59	58	54	49	48	6
15°	91	55	38	35	36	33
25°	1001	71	22	25	29	616
35°	4999	108	12	20	26	3000
45°	5162	66	8	19	25	3913
55°	3309	16	6	18	26	2816
65°	287	0	6	17	24	520
75°	2	1	5	12	20	3
85°	0	1	5	5	10	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
2.5°	56.5	56.5	57.7	57.7	56.5	57.7	57.7	57.7	55.3	54.1	51.7
5°	58.9	58.9	58.9	60.1	58.9	58.9	57.7	56.5	54.1	50.5	49.3
7.5°	61.3	61.3	60.1	61.3	60.1	60.1	57.7	55.3	51.7	48.1	45.7
10°	63.7	63.7	62.5	62.5	61.3	61.3	56.5	52.9	46.9	43.3	42.1
12.5°	70.9	70.9	69.7	68.5	66.1	64.9	55.3	49.3	42.1	38.5	37.3
15°	91.4	90.2	87.7	84.1	78.1	76.9	55.3	45.7	38.5	34.9	34.9
17.5°	125.0	123.8	120.2	110.6	99.8	96.2	55.3	40.9	33.7	31.3	31.3
20°	223.6	214.0	195.9	171.9	146.6	133.4	58.9	36.1	28.8	27.6	28.8
21°	292.1	282.5	259.6	220.0	175.5	161.1	61.3	34.9	27.6	26.4	28.8
22°	397.9	387.1	340.2	286.1	222.4	197.1	62.5	32.5	25.2	25.2	27.6
23°	555.3	537.3	458.0	371.4	277.7	241.6	64.9	31.3	24.0	25.2	26.4
24°	727.2	711.6	621.5	491.6	354.6	302.9	67.3	30.1	22.8	22.8	25.2
25°	1001.3	983.3	823.4	620.3	449.6	364.2	70.9	27.6	21.6	21.6	25.2
26°	1355.9	1273.0	1060.2	799.4	554.1	456.8	74.5	26.4	20.4	21.6	24.0
27°	1692.5	1624.0	1384.8	1025.3	685.2	561.4	79.3	25.2	19.2	20.4	24.0
28°	2134.8	2038.7	1737.0	1297.0	863.1	679.2	84.1	24.0	18.0	20.4	22.8
29°	2630.1	2495.4	2131.2	1602.3	1063.8	811.4	89.0	22.8	16.8	19.2	22.8
30°	3046.0	2919.8	2555.5	1964.1	1294.6	985.7	93.8	21.6	15.6	19.2	22.8
31°	3534.0	3342.9	2901.7	2270.7	1492.9	1160.0	98.6	19.2	14.4	18.0	21.6
32°	3929.5	3796.1	3327.3	2616.9	1753.8	1352.3	102.2	18.0	14.4	18.0	21.6
33°	4311.7	4132.6	3679.5	2948.6	1989.4	1549.4	105.8	16.8	13.2	16.8	21.6
34°	4677.2	4512.5	4012.4	3216.7	2211.8	1737.0	108.2	14.4	13.2	16.8	20.4
35°	4999.3	4808.2	4305.7	3478.7	2440.2	1907.6	108.2	13.2	12.0	15.6	20.4
36°	5208.5	5071.4	4560.6	3737.2	2646.9	2069.9	108.2	12.0	10.8	15.6	19.2
37°	5387.6	5227.7	4764.9	3935.5	2799.6	2199.7	108.2	10.8	10.8	15.6	19.2
38°	5460.9	5323.9	4905.5	4111.0	2942.6	2332.0	107.0	9.6	9.6	14.4	19.2
39°	5489.7	5367.1	5011.3	4237.2	3048.4	2420.9	104.6	8.4	9.6	14.4	19.2
40°	5452.5	5359.9	5065.4	4318.9	3132.5	2485.8	101.0	7.2	8.4	14.4	19.2
42.5°	5298.6	5237.3	5053.4	4400.7	3204.7	2533.9	87.7	4.8	8.4	13.2	19.2
45°	5161.6	5094.3	4932.0	4315.3	3110.9	2438.9	66.1	2.4	8.4	13.2	19.2
47.5°	4895.9	4853.9	4726.4	4097.8	2905.3	2225.0	46.9	1.2	7.2	12.0	18.0
50°	4363.4	4323.8	4155.5	3558.1	2499.1	1881.2	33.7	1.2	6.0	12.0	18.0
52.5°	3886.2	3844.1	3602.5	2958.2	1919.7	1378.7	21.6	1.2	6.0	12.0	18.0
55°	3309.2	3235.9	2918.6	2245.4	1360.7	924.4	15.6	1.2	6.0	10.8	18.0
57.5°	2449.8	2342.8	2059.1	1531.4	783.7	501.3	8.4	1.2	6.0	10.8	18.0
60°	1666.0	1602.3	1288.6	807.8	334.2	211.6	3.6	1.2	6.0	10.8	16.8
62.5°	1009.7	929.2	647.9	343.8	144.2	96.2	0.0	2.4	6.0	10.8	16.8
65°	287.3	254.8	169.5	78.1	40.9	31.3	0.0	2.4	6.0	10.8	16.8
67.5°	9.6	9.6	9.6	8.4	6.0	6.0	1.2	2.4	6.0	10.8	15.6
70°	3.6	3.6	3.6	2.4	2.4	1.2	1.2	2.4	6.0	9.6	15.6
72.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	2.4	4.8	8.4	14.4
75°	2.4	2.4	2.4	1.2	1.2	1.2	1.2	3.6	4.8	8.4	12.0
77.5°	2.4	2.4	2.4	1.2	1.2	1.2	1.2	3.6	4.8	7.2	12.0
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6	4.8	7.2	9.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.2	1.2	1.2	0.0	0.0	0.0	1.2	3.6	4.8	4.8	7.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.6	4.8	3.6	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.6	3.6	3.6	2.4
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):

	157.5°	180°
0°	55.3	55.3
2.5°	51.7	51.7
5°	48.1	48.1
7.5°	44.5	44.5
10°	40.9	40.9
12.5°	38.5	38.5
15°	34.9	36.1
17.5°	32.5	33.7
20°	31.3	32.5
21°	31.3	32.5
22°	30.1	31.3
23°	30.1	31.3
24°	28.8	30.1
25°	27.6	28.8
26°	27.6	28.8
27°	27.6	28.8
28°	26.4	28.8
29°	26.4	27.6
30°	26.4	27.6
31°	25.2	27.6
32°	25.2	27.6
33°	25.2	26.4
34°	24.0	26.4
35°	24.0	26.4
36°	24.0	26.4
37°	24.0	25.2
38°	24.0	26.4
39°	24.0	25.2
40°	24.0	25.2
42.5°	24.0	25.2
45°	24.0	25.2
47.5°	24.0	26.4
50°	24.0	26.4
52.5°	24.0	26.4
55°	24.0	26.4
57.5°	24.0	25.2
60°	24.0	25.2
62.5°	22.8	25.2
65°	22.8	24.0
67.5°	22.8	24.0
70°	21.6	22.8
72.5°	20.4	21.6
75°	18.0	20.4
77.5°	16.8	18.0
80°	14.4	15.6

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	12.0	12.0
85°	8.4	9.6
87.5°	4.8	4.8
90°	0.0	0.0

(END OF REPORT)