

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: P1310545

Luminaire Tested: P3SQAS20R309040D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310545
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: P3SQAS20R309040D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

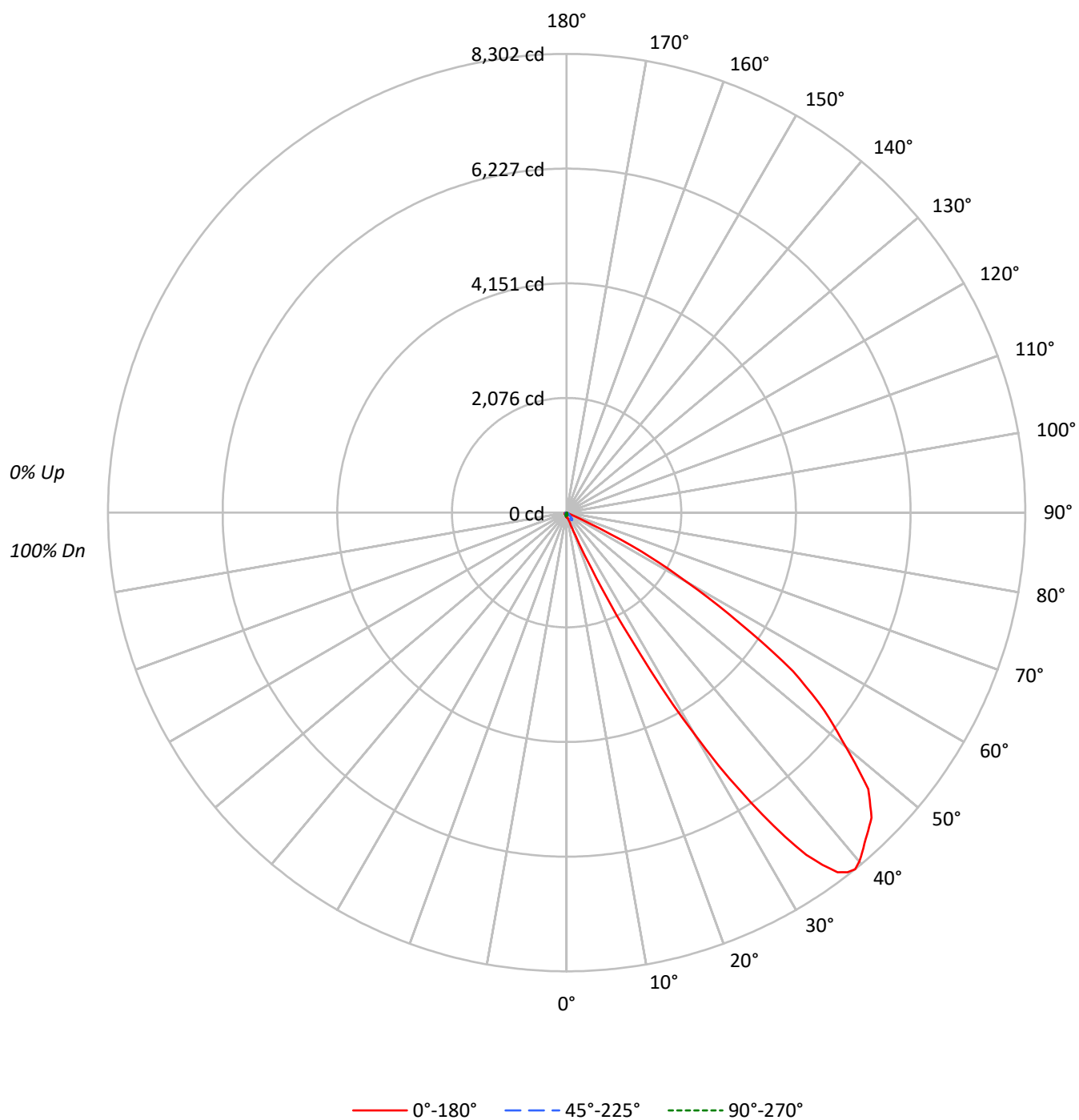
Lumens per Lamp: N/A
Luminaire Lumens: 2158.0 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14398	14398	14398	14398	14398
5°	15404	15092	14142	12880	12568
10°	16841	14935	12399	11122	10808
15°	24641	14906	10377	9396	9717
20°	61965	16330	7991	7991	8999
25°	287738	20390	6214	7259	8285
30°	916035	28199	4693	6861	8313
35°	1589515	34396	3826	6497	8410
40°	1853781	34330	2855	6542	8588
45°	1901153	24356	3093	7088	9304
50°	1767969	13638	2438	7315	10717
55°	1502626	7086	2732	8197	12010
60°	867830	1894	3134	8749	13158
65°	177065	0	3708	10351	14833
70°	2769	906	4582	11884	17372
75°	2396	1198	4858	12111	20561
80°	1785	1785	7240	14381	23406
85°	0	3557	14425	14425	28652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1901153 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.4
10°-20°	21.8	1.0
20°-30°	124.4	5.8
30°-40°	581.3	26.9
40°-50°	822.0	38.1
50°-60°	505.7	23.4
60°-70°	77.0	3.6
70°-80°	12.2	0.6
80°-90°	6.1	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°	153.8	7.1
0°-40°	735.0	34.1
0°-60°	2062.7	95.6
0°-90°	2158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2158.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	84	84	84	84	84	
5°	89	87	82	74	73	9
15°	138	84	58	53	54	49
25°	1514	107	33	38	44	932
35°	7560	164	18	31	40	4537
45°	7806	100	13	29	38	5918
55°	5004	24	9	27	40	4258
65°	434	0	9	25	36	786
75°	4	2	7	18	31	4
85°	0	2	7	7	14	1
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°	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
2.5°	85.4	85.4	87.3	87.3	85.4	87.3	87.3	87.3	83.6	81.8	78.2
5°	89.1	89.1	89.1	90.9	89.1	89.1	87.3	85.4	81.8	76.3	74.5
7.5°	92.7	92.7	90.9	92.7	90.9	90.9	87.3	83.6	78.2	72.7	69.1
10°	96.3	96.3	94.5	94.5	92.7	92.7	85.4	80.0	70.9	65.4	63.6
12.5°	107.3	107.3	105.4	103.6	100.0	98.2	83.6	74.5	63.6	58.2	56.4
15°	138.2	136.3	132.7	127.2	118.2	116.3	83.6	69.1	58.2	52.7	52.7
17.5°	189.1	187.2	181.8	167.2	150.9	145.4	83.6	61.8	50.9	47.3	47.3
20°	338.1	323.6	296.3	259.9	221.8	201.8	89.1	54.5	43.6	41.8	43.6
21°	441.7	427.2	392.6	332.7	265.4	243.6	92.7	52.7	41.8	40.0	43.6
22°	601.7	585.3	514.4	432.6	336.3	298.1	94.5	49.1	38.2	38.2	41.8
23°	839.8	812.6	692.6	561.7	419.9	365.4	98.2	47.3	36.4	38.2	40.0
24°	1099.8	1076.1	939.8	743.5	536.3	458.1	101.8	45.4	34.5	34.5	38.2
25°	1514.2	1487.0	1245.2	938.0	679.9	550.8	107.3	41.8	32.7	32.7	38.2
26°	2050.5	1925.1	1603.3	1208.8	838.0	690.8	112.7	40.0	30.9	32.7	36.4
27°	2559.5	2455.9	2094.1	1550.6	1036.2	848.9	120.0	38.2	29.1	30.9	36.4
28°	3228.4	3083.0	2626.7	1961.4	1305.2	1027.1	127.2	36.4	27.3	30.9	34.5
29°	3977.4	3773.8	3223.0	2423.1	1608.8	1227.0	134.5	34.5	25.4	29.1	34.5
30°	4606.3	4415.5	3864.7	2970.3	1957.8	1490.6	141.8	32.7	23.6	29.1	34.5
31°	5344.4	5055.3	4388.2	3433.8	2257.7	1754.2	149.1	29.1	21.8	27.3	32.7
32°	5942.4	5740.6	5031.7	3957.4	2652.2	2045.0	154.5	27.3	21.8	27.3	32.7
33°	6520.5	6249.6	5564.3	4459.1	3008.5	2343.2	160.0	25.4	20.0	25.4	32.7
34°	7073.1	6824.1	6067.8	4864.5	3344.8	2626.7	163.6	21.8	20.0	25.4	30.9
35°	7560.3	7271.2	6511.4	5260.7	3690.2	2884.9	163.6	20.0	18.2	23.6	30.9
36°	7876.6	7669.3	6896.8	5651.6	4002.8	3130.3	163.6	18.2	16.4	23.6	29.1
37°	8147.4	7905.6	7205.8	5951.5	4233.7	3326.6	163.6	16.4	16.4	23.6	29.1
38°	8258.3	8051.1	7418.5	6216.9	4450.0	3526.5	161.8	14.5	14.5	21.8	29.1
39°	8301.9	8116.5	7578.4	6407.8	4610.0	3661.1	158.1	12.7	14.5	21.8	29.1
40°	8245.6	8105.6	7660.2	6531.4	4737.2	3759.2	152.7	10.9	12.7	21.8	29.1
42.5°	8012.9	7920.2	7642.1	6655.0	4846.3	3831.9	132.7	7.3	12.7	20.0	29.1
45°	7805.7	7703.9	7458.5	6525.9	4704.5	3688.3	100.0	3.6	12.7	20.0	29.1
47.5°	7403.9	7340.3	7147.6	6196.9	4393.6	3364.8	70.9	1.8	10.9	18.2	27.3
50°	6598.6	6538.7	6284.2	5380.7	3779.2	2844.9	50.9	1.8	9.1	18.2	27.3
52.5°	5877.0	5813.4	5448.0	4473.6	2903.0	2085.0	32.7	1.8	9.1	18.2	27.3
55°	5004.4	4893.5	4413.6	3395.7	2057.8	1397.9	23.6	1.8	9.1	16.4	27.3
57.5°	3704.7	3542.9	3113.9	2315.9	1185.2	758.0	12.7	1.8	9.1	16.4	27.3
60°	2519.5	2423.1	1948.7	1221.6	505.4	319.9	5.5	1.8	9.1	16.4	25.4
62.5°	1527.0	1405.2	979.8	519.9	218.1	145.4	0.0	3.6	9.1	16.4	25.4
65°	434.5	385.4	256.3	118.2	61.8	47.3	0.0	3.6	9.1	16.4	25.4
67.5°	14.5	14.5	14.5	12.7	9.1	9.1	1.8	3.6	9.1	16.4	23.6
70°	5.5	5.5	5.5	3.6	3.6	1.8	1.8	3.6	9.1	14.5	23.6
72.5°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	3.6	7.3	12.7	21.8
75°	3.6	3.6	3.6	1.8	1.8	1.8	1.8	5.5	7.3	12.7	18.2
77.5°	3.6	3.6	3.6	1.8	1.8	1.8	1.8	5.5	7.3	10.9	18.2
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	5.5	7.3	10.9	14.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.8	1.8	1.8	0.0	0.0	0.0	1.8	5.5	7.3	7.3	10.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.5	7.3	5.5	7.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.5	5.5	5.5	3.6
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°	83.6	83.6
2.5°	78.2	78.2
5°	72.7	72.7
7.5°	67.3	67.3
10°	61.8	61.8
12.5°	58.2	58.2
15°	52.7	54.5
17.5°	49.1	50.9
20°	47.3	49.1
21°	47.3	49.1
22°	45.4	47.3
23°	45.4	47.3
24°	43.6	45.4
25°	41.8	43.6
26°	41.8	43.6
27°	41.8	43.6
28°	40.0	43.6
29°	40.0	41.8
30°	40.0	41.8
31°	38.2	41.8
32°	38.2	41.8
33°	38.2	40.0
34°	36.4	40.0
35°	36.4	40.0
36°	36.4	40.0
37°	36.4	38.2
38°	36.4	40.0
39°	36.4	38.2
40°	36.4	38.2
42.5°	36.4	38.2
45°	36.4	38.2
47.5°	36.4	40.0
50°	36.4	40.0
52.5°	36.4	40.0
55°	36.4	40.0
57.5°	36.4	38.2
60°	36.4	38.2
62.5°	34.5	38.2
65°	34.5	36.4
67.5°	34.5	36.4
70°	32.7	34.5
72.5°	30.9	32.7
75°	27.3	30.9
77.5°	25.4	27.3
80°	21.8	23.6



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	18.2	18.2
85°	12.7	14.5
87.5°	7.3	7.3
90°	0.0	0.0

(END OF REPORT)