

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: P1309411

Luminaire Tested: P3SQAS20R259035D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R259035D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

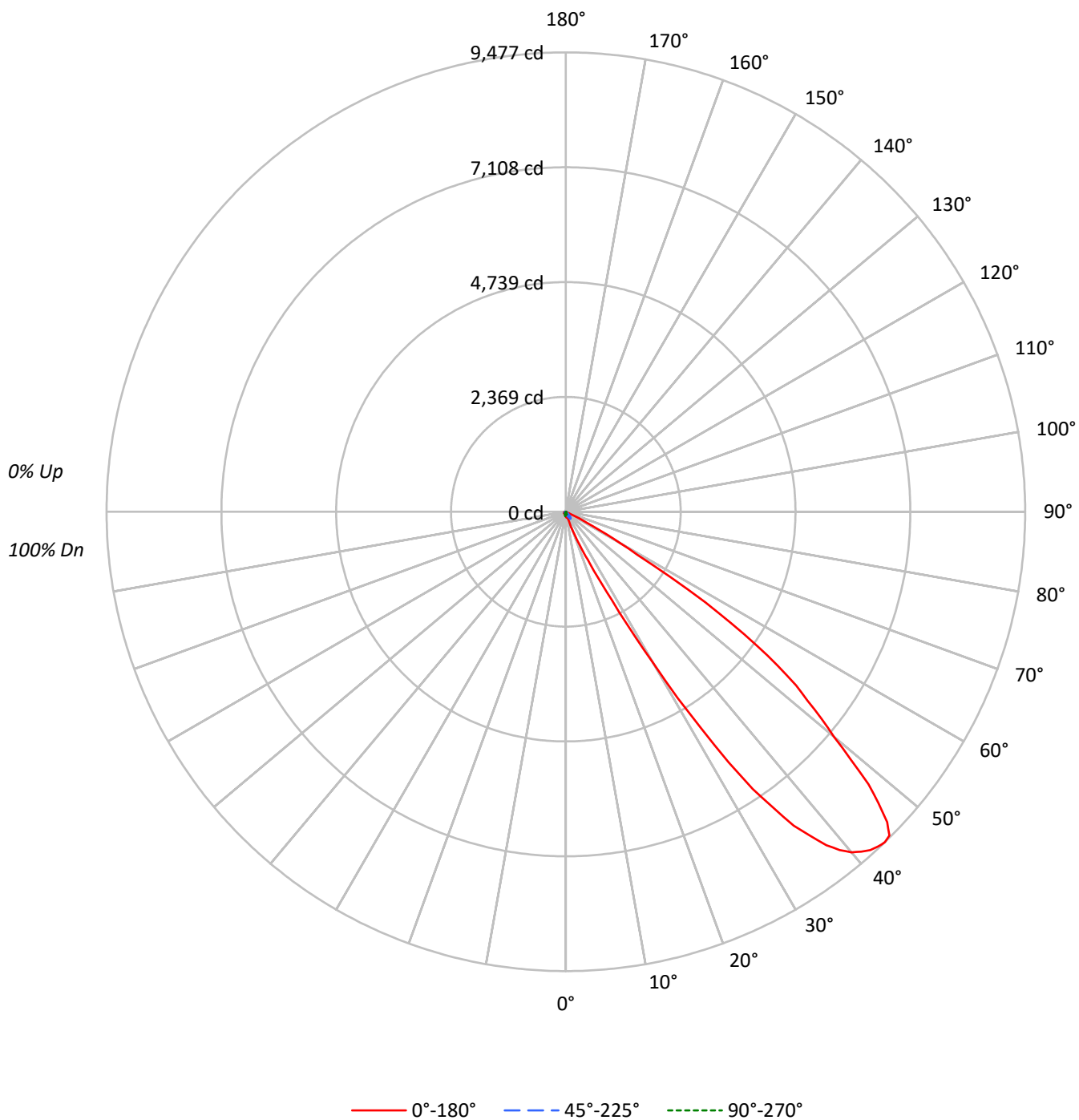
Lumens per Lamp: N/A
Luminaire Lumens: 1976.0 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17377	17377	17377	17377	17377
5°	19847	18930	16839	15023	14729
10°	19761	17943	14288	12469	12469
15°	22020	15494	11161	10537	11161
20°	77764	15304	8596	8926	9879
25°	223699	19497	6936	8266	9577
30°	713729	30088	5528	7955	9685
35°	1563235	35468	4752	7674	9860
40°	2062123	32059	3912	7824	10544
45°	2299665	22456	3800	8476	11423
50°	1935774	11655	3724	8842	12566
55°	1447258	4684	3663	9909	14082
60°	447986	1206	3582	10781	15569
65°	38266	0	4238	11329	16993
70°	2618	856	4381	13143	19286
75°	2329	1131	5789	13907	21959
80°	1686	1686	8629	15472	25886
85°	3359	3359	13832	17191	27467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2299665 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.5
10°-20°	23.3	1.2
20°-30°	109.3	5.5
30°-40°	526.3	26.6
40°-50°	825.0	41.8
50°-60°	422.9	21.4
60°-70°	39.9	2.0
70°-80°	13.4	0.7
80°-90°	6.7	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°	141.6	7.2
0°-40°	668.0	33.8
0°-60°	1915.9	97.0
0°-90°	1976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1976.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	101	101	101	101	101	
5°	115	110	97	87	85	11
15°	124	87	63	59	63	52
25°	1177	103	36	44	50	730
35°	7435	169	23	36	47	4513
45°	9442	92	16	35	47	6909
55°	4820	16	12	33	47	4013
65°	94	0	10	28	42	294
75°	4	2	9	21	33	4
85°	2	2	7	9	14	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9
2.5°	109.5	109.5	109.5	109.5	109.5	109.5	107.8	107.8	109.5	107.8	107.8
5°	114.8	114.8	114.8	114.8	114.8	114.8	114.8	113.0	113.0	113.0	109.5
7.5°	116.5	114.8	114.8	114.8	114.8	114.8	114.8	114.8	113.0	113.0	107.8
10°	113.0	113.0	113.0	113.0	111.3	111.3	111.3	109.5	109.5	109.5	102.6
12.5°	113.0	113.0	113.0	113.0	111.3	111.3	109.5	109.5	107.8	106.1	93.9
15°	123.5	123.5	123.5	121.7	120.0	118.2	116.5	114.8	113.0	109.5	86.9
17.5°	180.8	175.6	173.9	166.9	158.2	149.5	142.6	135.6	128.7	123.5	83.5
20°	424.3	422.5	413.8	393.0	370.4	344.3	318.2	288.6	246.9	219.1	83.5
22.5°	735.5	725.1	709.4	693.8	653.8	606.9	558.2	502.5	448.6	391.2	88.7
25°	1177.2	1201.5	1149.4	1107.6	1038.1	952.9	860.7	784.2	686.8	596.4	102.6
27.5°	2046.6	2062.3	1959.7	1824.0	1662.3	1483.2	1309.3	1178.9	1015.5	865.9	128.7
30°	3589.0	3604.6	3432.5	3143.8	2810.0	2516.1	2117.9	1768.4	1446.7	1198.1	151.3
31°	4479.2	4357.5	4157.6	3877.6	3455.1	3011.7	2533.5	2110.9	1704.1	1377.2	158.2
32°	5253.0	5242.6	5009.6	4585.3	4161.0	3613.3	3020.4	2469.1	1970.1	1558.0	163.5
33°	6165.9	6096.4	5767.7	5367.8	4806.1	4254.9	3489.8	2860.4	2243.1	1759.7	166.9
34°	6898.0	6710.2	6574.5	6117.2	5524.3	4821.8	4002.8	3274.2	2583.9	1954.4	168.7
35°	7435.3	7395.3	7131.0	6704.9	6101.6	5383.4	4555.7	3703.7	2869.1	2180.5	168.7
36°	8003.9	7880.4	7623.0	7237.0	6649.3	5906.8	4978.3	4075.8	3201.2	2383.9	166.9
37°	8360.3	8287.3	8031.7	7633.5	7057.9	6348.5	5451.2	4468.8	3465.5	2587.4	163.5
38°	8727.2	8579.4	8327.3	7946.5	7381.3	6715.4	5793.8	4771.4	3708.9	2766.5	158.2
39°	8981.1	8828.1	8570.7	8191.6	7638.7	6977.9	6065.1	5028.7	3921.1	2900.4	151.3
40°	9172.3	9024.5	8763.7	8374.2	7828.2	7184.9	6291.1	5256.5	4098.4	3016.9	142.6
41°	9290.6	9153.2	8894.1	8506.4	7958.6	7303.1	6438.9	5404.3	4218.4	3095.1	133.9
42°	9389.7	9248.9	8984.6	8588.1	8038.6	7404.0	6529.3	5498.2	4300.1	3135.1	126.9
43°	9445.3	9304.5	9047.2	8642.0	8087.3	7450.9	6578.0	5541.7	4328.0	3129.9	114.8
44°	9476.6	9330.6	9071.5	8666.3	8108.2	7463.1	6581.5	5533.0	4308.8	3088.2	104.3
45°	9441.9	9297.5	9047.2	8642.0	8071.7	7424.8	6546.7	5486.0	4235.8	3006.4	92.2
46°	9215.8	9104.5	8875.0	8502.9	7956.9	7327.4	6458.0	5395.6	4122.8	2905.6	78.2
47°	8817.6	8728.9	8506.4	8229.9	7736.1	7148.3	6294.6	5223.5	3964.5	2754.3	62.6
48°	8402.0	8271.6	8064.7	7781.3	7364.0	6826.7	6025.1	4971.3	3724.6	2556.1	55.6
49°	7788.2	7711.7	7529.1	7212.7	6866.7	6393.7	5644.3	4647.9	3430.7	2340.5	48.7
50°	7224.9	7172.7	6917.1	6684.1	6317.2	5875.5	5127.8	4221.9	3065.6	2072.7	43.5
51°	6784.9	6722.3	6538.0	6247.6	5856.4	5343.4	4639.2	3668.9	2646.5	1754.5	34.8
52°	6325.9	6291.1	6127.6	5828.6	5444.3	4933.1	4164.5	3199.5	2239.6	1483.2	27.8
53°	5950.3	5899.9	5699.9	5433.9	5018.3	4489.7	3649.8	2763.0	1897.1	1246.7	24.3
54°	5402.6	5381.7	5253.0	4974.8	4524.4	3948.9	3183.8	2326.6	1582.3	1057.2	20.9
55°	4820.0	4750.5	4620.1	4399.2	3985.4	3448.1	2644.8	1928.4	1279.8	890.3	15.6
56°	4110.6	4107.1	3874.1	3689.8	3322.9	2752.6	2112.7	1505.8	1039.8	742.5	13.9
57°	3432.5	3322.9	3098.6	2916.0	2521.3	2088.3	1568.4	1128.5	813.8	601.6	10.4
58°	2538.7	2481.3	2422.2	2154.4	1789.3	1479.7	1119.8	792.9	601.6	459.1	7.0
59°	1723.2	1721.4	1651.9	1448.4	1238.0	921.6	699.0	539.0	413.8	337.3	5.2
60°	1300.6	1269.3	1130.2	996.4	779.0	582.5	413.8	318.2	257.3	217.4	3.5
62.5°	455.6	473.0	415.6	344.3	262.6	215.6	165.2	133.9	109.5	88.7	0.0
65°	93.9	102.6	88.7	83.5	66.1	57.4	50.4	43.5	36.5	31.3	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	12.2	10.4	10.4	10.4	8.7	8.7	8.7	8.7	7.0	7.0	1.7
70°	5.2	5.2	5.2	5.2	5.2	5.2	3.5	3.5	3.5	3.5	1.7
72.5°	5.2	5.2	5.2	3.5	3.5	3.5	3.5	3.5	3.5	1.7	1.7
75°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	1.7	1.7	1.7	1.7
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5
85°	1.7	1.7	1.7	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	100.9	100.9	100.9	100.9	100.9	100.9
2.5°	106.1	102.6	97.4	95.6	93.9	93.9
5°	104.3	97.4	92.2	86.9	85.2	85.2
7.5°	99.1	90.4	83.5	80.0	78.2	76.5
10°	93.9	81.7	74.8	71.3	71.3	71.3
12.5°	83.5	73.0	66.1	64.3	66.1	66.1
15°	74.8	62.6	59.1	59.1	60.9	62.6
17.5°	64.3	55.6	52.2	53.9	55.6	57.4
20°	57.4	46.9	46.9	48.7	53.9	53.9
22.5°	50.4	41.7	41.7	46.9	50.4	52.2
25°	45.2	36.5	38.3	43.5	48.7	50.4
27.5°	38.3	31.3	34.8	41.7	46.9	48.7
30°	33.0	27.8	33.0	40.0	45.2	48.7
31°	31.3	26.1	33.0	38.3	45.2	48.7
32°	27.8	26.1	31.3	38.3	45.2	46.9
33°	26.1	24.3	31.3	38.3	45.2	46.9
34°	24.3	22.6	29.6	38.3	45.2	46.9
35°	20.9	22.6	29.6	36.5	43.5	46.9
36°	19.1	20.9	29.6	36.5	43.5	46.9
37°	17.4	20.9	27.8	36.5	43.5	46.9
38°	15.6	19.1	27.8	36.5	43.5	46.9
39°	13.9	19.1	26.1	36.5	43.5	46.9
40°	12.2	17.4	26.1	34.8	43.5	46.9
41°	12.2	17.4	26.1	34.8	43.5	46.9
42°	10.4	17.4	26.1	34.8	43.5	46.9
43°	8.7	15.6	26.1	34.8	43.5	46.9
44°	7.0	15.6	24.3	34.8	43.5	46.9
45°	7.0	15.6	24.3	34.8	43.5	46.9
46°	5.2	13.9	24.3	34.8	43.5	46.9
47°	3.5	13.9	24.3	33.0	43.5	46.9
48°	3.5	13.9	24.3	33.0	43.5	46.9
49°	3.5	13.9	22.6	33.0	43.5	46.9
50°	3.5	13.9	22.6	33.0	43.5	46.9
51°	1.7	12.2	22.6	33.0	43.5	46.9
52°	1.7	12.2	22.6	33.0	43.5	48.7
53°	1.7	12.2	22.6	33.0	43.5	46.9
54°	1.7	12.2	20.9	33.0	43.5	46.9
55°	1.7	12.2	20.9	33.0	43.5	46.9
56°	1.7	10.4	20.9	31.3	43.5	46.9
57°	3.5	10.4	20.9	31.3	43.5	45.2
58°	3.5	10.4	20.9	31.3	41.7	45.2
59°	3.5	10.4	20.9	31.3	41.7	45.2
60°	3.5	10.4	19.1	31.3	41.7	45.2
62.5°	3.5	10.4	19.1	29.6	40.0	43.5
65°	3.5	10.4	17.4	27.8	40.0	41.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	3.5	8.7	17.4	26.1	38.3	40.0
70°	5.2	8.7	15.6	26.1	36.5	38.3
72.5°	5.2	8.7	15.6	22.6	33.0	36.5
75°	5.2	8.7	13.9	20.9	31.3	33.0
77.5°	5.2	8.7	12.2	19.1	27.8	29.6
80°	7.0	8.7	10.4	15.6	24.3	26.1
82.5°	7.0	8.7	8.7	12.2	19.1	20.9
85°	5.2	7.0	7.0	8.7	12.2	13.9
87.5°	5.2	7.0	5.2	3.5	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)