

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: P1316369

Luminaire Tested: P3SQAS17R259827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316369
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: P3SQAS17R259827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

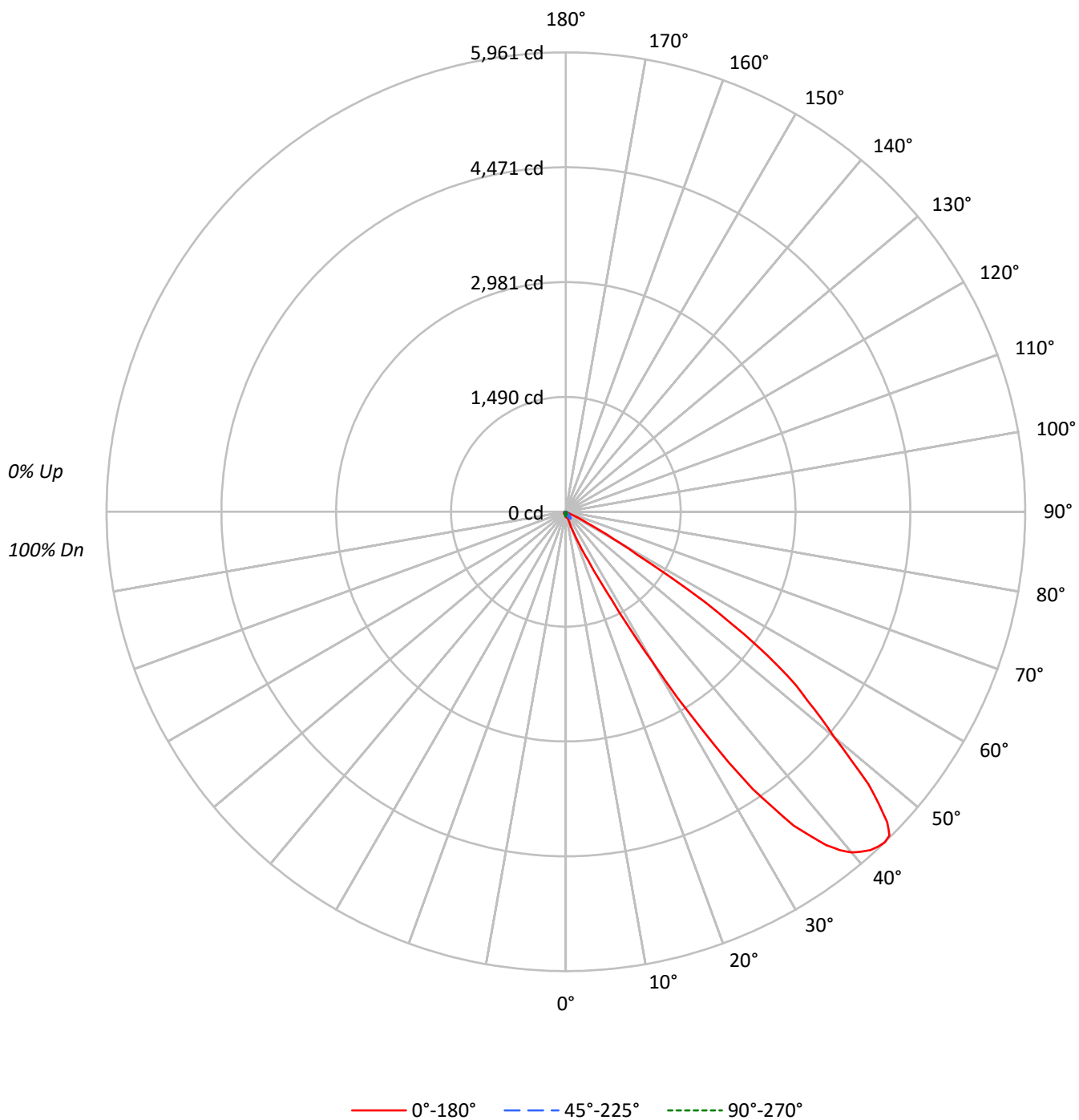
Lumens per Lamp: N/A
Luminaire Lumens: 1243.0 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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°	10919	10919	10919	10919	10919
5°	12482	11911	10598	9457	9266
10°	12434	11280	8989	7835	7835
15°	13854	9753	7025	6633	7025
20°	48916	9622	5407	5608	6213
25°	140715	12257	4371	5188	6024
30°	448959	18932	3480	5011	6085
35°	983337	22307	2985	4836	6202
40°	1297193	20166	2451	4924	6632
45°	1446598	14126	2387	5334	7185
50°	1217692	7315	2358	5573	7904
55°	910391	2943	2312	6245	8858
60°	281825	758	2273	6786	9782
65°	24084	0	2690	7131	10718
70°	1662	554	2769	8258	12135
75°	1464	732	3660	8717	13841
80°	1091	1091	5455	9720	16265
85°	2174	2174	8695	10868	17389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1446598 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.5
10°-20°	14.7	1.2
20°-30°	68.8	5.5
30°-40°	331.1	26.6
40°-50°	519.0	41.8
50°-60°	266.1	21.4
60°-70°	25.1	2.0
70°-80°	8.5	0.7
80°-90°	4.2	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°	89.1	7.2
0°-40°	420.2	33.8
0°-60°	1205.2	97.0
0°-90°	1243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1243.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	63	63	63	63	63	
5°	72	69	61	55	54	7
15°	78	55	39	37	39	33
25°	740	64	23	27	32	459
35°	4677	106	14	23	30	2839
45°	5939	58	10	22	30	4346
55°	3032	10	8	21	30	2524
65°	59	0	7	18	26	185
75°	2	1	6	13	21	3
85°	1	1	4	6	9	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°	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
2.5°	68.9	68.9	68.9	68.9	68.9	68.9	67.8	67.8	68.9	67.8	67.8
5°	72.2	72.2	72.2	72.2	72.2	72.2	72.2	71.1	71.1	71.1	68.9
7.5°	73.3	72.2	72.2	72.2	72.2	72.2	72.2	72.2	71.1	71.1	67.8
10°	71.1	71.1	71.1	71.1	70.0	70.0	70.0	68.9	68.9	68.9	64.5
12.5°	71.1	71.1	71.1	71.1	70.0	70.0	68.9	68.9	67.8	66.7	59.1
15°	77.7	77.7	77.7	76.6	75.5	74.4	73.3	72.2	71.1	68.9	54.7
17.5°	113.8	110.5	109.4	105.0	99.5	94.1	89.7	85.3	80.9	77.7	52.5
20°	266.9	265.8	260.3	247.2	233.0	216.6	200.2	181.6	155.3	137.8	52.5
22.5°	462.7	456.1	446.3	436.4	411.3	381.7	351.1	316.1	282.2	246.1	55.8
25°	740.5	755.8	723.0	696.8	653.0	599.4	541.4	493.3	432.1	375.2	64.5
27.5°	1287.4	1297.3	1232.7	1147.4	1045.7	933.0	823.6	741.6	638.8	544.7	80.9
30°	2257.6	2267.5	2159.2	1977.6	1767.6	1582.7	1332.3	1112.4	910.1	753.6	95.2
31°	2817.7	2741.1	2615.3	2439.2	2173.4	1894.5	1593.7	1327.9	1071.9	866.3	99.5
32°	3304.4	3297.8	3151.3	2884.4	2617.5	2272.9	1899.9	1553.2	1239.3	980.1	102.8
33°	3878.7	3834.9	3628.2	3376.6	3023.3	2676.6	2195.3	1799.3	1411.0	1106.9	105.0
34°	4339.1	4221.0	4135.7	3848.0	3475.0	3033.1	2518.0	2059.6	1625.4	1229.4	106.1
35°	4677.1	4652.0	4485.7	4217.7	3838.2	3386.4	2865.8	2329.8	1804.8	1371.6	106.1
36°	5034.8	4957.2	4795.3	4552.4	4182.7	3715.7	3131.6	2563.9	2013.7	1499.6	105.0
37°	5259.0	5213.1	5052.3	4801.8	4439.8	3993.5	3429.1	2811.1	2180.0	1627.6	102.8
38°	5489.8	5396.9	5238.3	4998.7	4643.2	4224.3	3644.6	3001.4	2333.1	1740.3	99.5
39°	5649.5	5553.3	5391.4	5152.9	4805.1	4389.5	3815.2	3163.3	2466.5	1824.5	95.2
40°	5769.9	5676.9	5512.8	5267.8	4924.3	4519.6	3957.4	3306.6	2578.1	1897.8	89.7
41°	5844.2	5757.8	5594.8	5350.9	5006.4	4594.0	4050.4	3399.6	2653.6	1947.0	84.2
42°	5906.6	5818.0	5651.7	5402.3	5056.7	4657.4	4107.3	3458.6	2705.0	1972.1	79.8
43°	5941.6	5853.0	5691.1	5436.2	5087.3	4687.0	4137.9	3486.0	2722.5	1968.9	72.2
44°	5961.3	5869.4	5706.4	5451.6	5100.4	4694.6	4140.1	3480.5	2710.5	1942.6	65.6
45°	5939.4	5848.6	5691.1	5436.2	5077.5	4670.6	4118.2	3451.0	2664.5	1891.2	58.0
46°	5797.2	5727.2	5582.8	5348.7	5005.3	4609.3	4062.4	3394.1	2593.4	1827.8	49.2
47°	5546.7	5490.9	5350.9	5177.0	4866.4	4496.7	3959.6	3285.8	2493.9	1732.6	39.4
48°	5285.3	5203.3	5073.1	4894.8	4632.3	4294.3	3790.1	3127.2	2342.9	1607.9	35.0
49°	4899.2	4851.1	4736.2	4537.1	4319.5	4021.9	3550.5	2923.8	2158.1	1472.3	30.6
50°	4544.8	4512.0	4351.2	4204.6	3973.8	3696.0	3225.6	2655.8	1928.4	1303.8	27.3
51°	4268.0	4228.7	4112.7	3930.1	3684.0	3361.3	2918.3	2307.9	1664.8	1103.7	21.9
52°	3979.3	3957.4	3854.6	3666.5	3424.7	3103.1	2619.7	2012.6	1408.8	933.0	17.5
53°	3743.0	3711.3	3585.5	3418.2	3156.7	2824.2	2295.9	1738.1	1193.3	784.3	15.3
54°	3398.5	3385.3	3304.4	3129.4	2846.1	2484.0	2002.8	1463.5	995.4	665.0	13.1
55°	3032.0	2988.3	2906.3	2767.3	2507.0	2169.0	1663.7	1213.0	805.0	560.0	9.8
56°	2585.8	2583.6	2437.0	2321.1	2090.3	1731.5	1329.0	947.2	654.1	467.1	8.8
57°	2159.2	2090.3	1949.2	1834.3	1586.0	1313.7	986.6	709.9	511.9	378.5	6.6
58°	1597.0	1560.9	1523.7	1355.2	1125.5	930.8	704.4	498.8	378.5	288.8	4.4
59°	1084.0	1082.9	1039.1	911.1	778.8	579.7	439.7	339.1	260.3	212.2	3.3
60°	818.2	798.5	711.0	626.8	490.0	366.4	260.3	200.2	161.9	136.7	2.2
62.5°	286.6	297.5	261.4	216.6	165.2	135.6	103.9	84.2	68.9	55.8	0.0
65°	59.1	64.5	55.8	52.5	41.6	36.1	31.7	27.3	23.0	19.7	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°	7.7	6.6	6.6	6.6	5.5	5.5	5.5	5.5	4.4	4.4	1.1
70°	3.3	3.3	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	1.1
72.5°	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	1.1	1.1
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
85°	1.1	1.1	1.1	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°	63.4	63.4	63.4	63.4	63.4	63.4
2.5°	66.7	64.5	61.3	60.2	59.1	59.1
5°	65.6	61.3	58.0	54.7	53.6	53.6
7.5°	62.3	56.9	52.5	50.3	49.2	48.1
10°	59.1	51.4	47.0	44.8	44.8	44.8
12.5°	52.5	45.9	41.6	40.5	41.6	41.6
15°	47.0	39.4	37.2	37.2	38.3	39.4
17.5°	40.5	35.0	32.8	33.9	35.0	36.1
20°	36.1	29.5	29.5	30.6	33.9	33.9
22.5°	31.7	26.3	26.3	29.5	31.7	32.8
25°	28.4	23.0	24.1	27.3	30.6	31.7
27.5°	24.1	19.7	21.9	26.3	29.5	30.6
30°	20.8	17.5	20.8	25.2	28.4	30.6
31°	19.7	16.4	20.8	24.1	28.4	30.6
32°	17.5	16.4	19.7	24.1	28.4	29.5
33°	16.4	15.3	19.7	24.1	28.4	29.5
34°	15.3	14.2	18.6	24.1	28.4	29.5
35°	13.1	14.2	18.6	23.0	27.3	29.5
36°	12.0	13.1	18.6	23.0	27.3	29.5
37°	10.9	13.1	17.5	23.0	27.3	29.5
38°	9.8	12.0	17.5	23.0	27.3	29.5
39°	8.8	12.0	16.4	23.0	27.3	29.5
40°	7.7	10.9	16.4	21.9	27.3	29.5
41°	7.7	10.9	16.4	21.9	27.3	29.5
42°	6.6	10.9	16.4	21.9	27.3	29.5
43°	5.5	9.8	16.4	21.9	27.3	29.5
44°	4.4	9.8	15.3	21.9	27.3	29.5
45°	4.4	9.8	15.3	21.9	27.3	29.5
46°	3.3	8.8	15.3	21.9	27.3	29.5
47°	2.2	8.8	15.3	20.8	27.3	29.5
48°	2.2	8.8	15.3	20.8	27.3	29.5
49°	2.2	8.8	14.2	20.8	27.3	29.5
50°	2.2	8.8	14.2	20.8	27.3	29.5
51°	1.1	7.7	14.2	20.8	27.3	29.5
52°	1.1	7.7	14.2	20.8	27.3	30.6
53°	1.1	7.7	14.2	20.8	27.3	29.5
54°	1.1	7.7	13.1	20.8	27.3	29.5
55°	1.1	7.7	13.1	20.8	27.3	29.5
56°	1.1	6.6	13.1	19.7	27.3	29.5
57°	2.2	6.6	13.1	19.7	27.3	28.4
58°	2.2	6.6	13.1	19.7	26.3	28.4
59°	2.2	6.6	13.1	19.7	26.3	28.4
60°	2.2	6.6	12.0	19.7	26.3	28.4
62.5°	2.2	6.6	12.0	18.6	25.2	27.3
65°	2.2	6.6	10.9	17.5	25.2	26.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.2	5.5	10.9	16.4	24.1	25.2
70°	3.3	5.5	9.8	16.4	23.0	24.1
72.5°	3.3	5.5	9.8	14.2	20.8	23.0
75°	3.3	5.5	8.8	13.1	19.7	20.8
77.5°	3.3	5.5	7.7	12.0	17.5	18.6
80°	4.4	5.5	6.6	9.8	15.3	16.4
82.5°	4.4	5.5	5.5	7.7	12.0	13.1
85°	3.3	4.4	4.4	5.5	7.7	8.8
87.5°	3.3	4.4	3.3	2.2	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)