

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: P1307028

Luminaire Tested: P3SQAS17R259027DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307028
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: P3SQAS17R259027DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

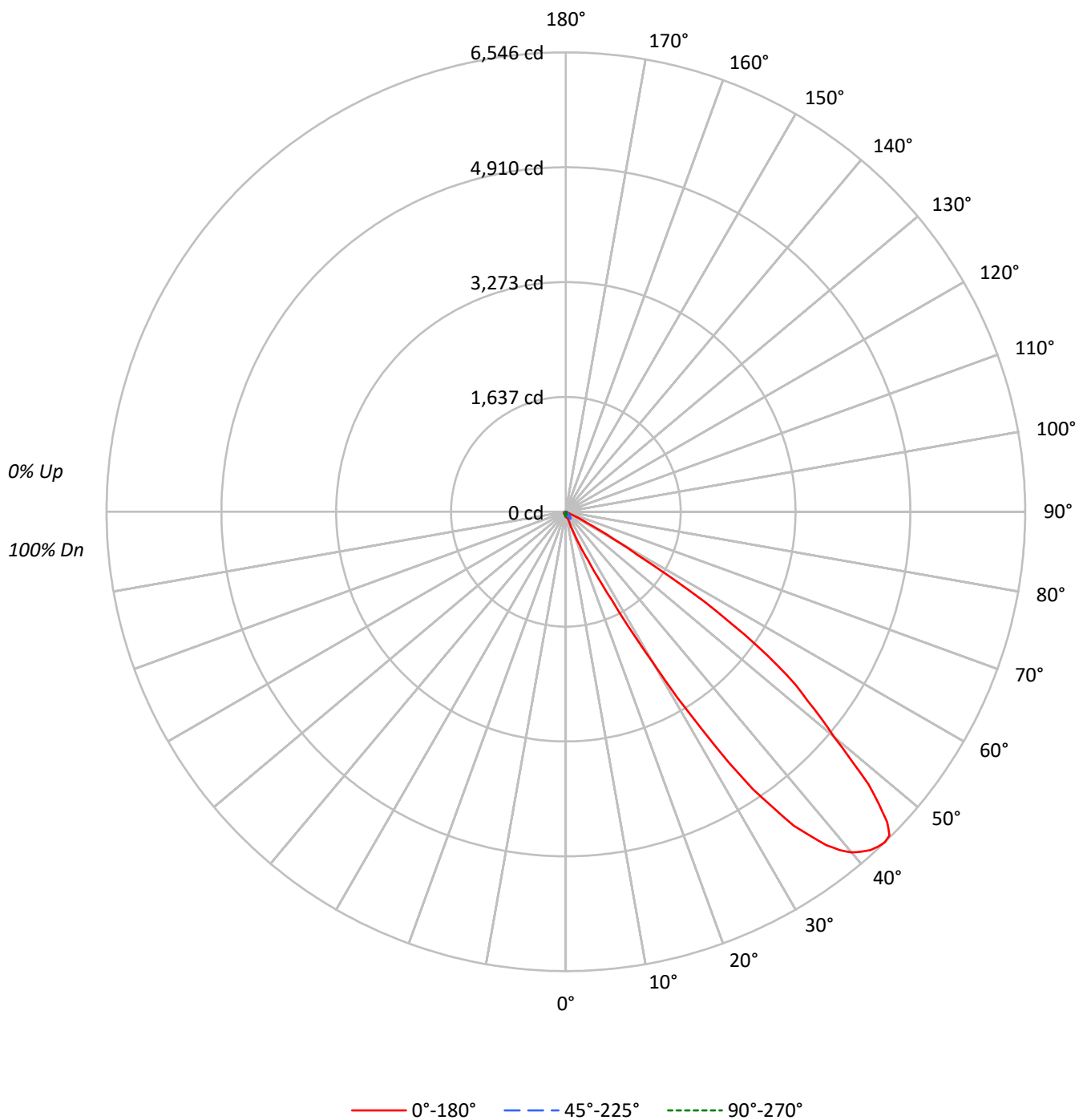
Lumens per Lamp: N/A
Luminaire Lumens: 1364.9 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	12004	12004	12004	12004	12004
5°	13709	13087	11635	10390	10183
10°	13658	12399	9881	8604	8604
15°	15209	10716	7702	7275	7702
20°	53718	10575	5938	6158	6818
25°	154530	13473	4789	5701	6613
30°	493028	20781	3818	5489	6682
35°	1079860	24494	3280	5298	6812
40°	1424509	22145	2698	5396	7284
45°	1588569	15515	2630	5845	7891
50°	1337216	8038	2572	6109	8681
55°	999749	3243	2522	6846	9728
60°	309484	827	2480	7440	10747
65°	26448	0	2934	7824	11736
70°	1813	604	3021	9064	13294
75°	1597	799	3993	9582	15172
80°	1190	1190	5951	10711	17852
85°	2371	2371	9485	11856	18970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1588569 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.5
10°-20°	16.1	1.2
20°-30°	75.5	5.5
30°-40°	363.6	26.6
40°-50°	569.9	41.8
50°-60°	292.2	21.4
60°-70°	27.5	2.0
70°-80°	9.3	0.7
80°-90°	4.6	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°	97.8	7.2
0°-40°	461.4	33.8
0°-60°	1323.5	97.0
0°-90°	1364.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1364.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	79	76	67	60	59	8
15°	85	60	43	41	43	36
25°	813	71	25	30	35	504
35°	5136	116	16	25	32	3118
45°	6522	64	11	24	32	4773
55°	3330	11	8	23	32	2772
65°	65	0	7	19	29	203
75°	2	1	6	14	23	3
85°	1	1	5	6	10	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°	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
2.5°	75.7	75.7	75.7	75.7	75.7	75.7	74.5	74.5	75.7	74.5	74.5
5°	79.3	79.3	79.3	79.3	79.3	79.3	79.3	78.1	78.1	78.1	75.7
7.5°	80.5	79.3	79.3	79.3	79.3	79.3	79.3	79.3	78.1	78.1	74.5
10°	78.1	78.1	78.1	78.1	76.9	76.9	76.9	75.7	75.7	75.7	70.9
12.5°	78.1	78.1	78.1	78.1	76.9	76.9	75.7	75.7	74.5	73.3	64.9
15°	85.3	85.3	85.3	84.1	82.9	81.7	80.5	79.3	78.1	75.7	60.1
17.5°	124.9	121.3	120.1	115.3	109.3	103.3	98.5	93.7	88.9	85.3	57.7
20°	293.1	291.9	285.9	271.5	255.8	237.8	219.8	199.4	170.6	151.3	57.7
22.5°	508.1	500.9	490.1	479.3	451.6	419.2	385.6	347.1	309.9	270.3	61.3
25°	813.2	830.0	794.0	765.1	717.1	658.2	594.6	541.7	474.5	412.0	70.9
27.5°	1413.8	1424.6	1353.7	1260.0	1148.3	1024.6	904.5	814.4	701.5	598.2	88.9
30°	2479.2	2490.0	2371.1	2171.7	1941.1	1738.1	1463.0	1221.6	999.4	827.6	104.5
31°	3094.2	3010.1	2872.0	2678.6	2386.7	2080.4	1750.1	1458.2	1177.1	951.3	109.3
32°	3628.7	3621.5	3460.6	3167.5	2874.4	2496.0	2086.4	1705.7	1360.9	1076.2	112.9
33°	4259.3	4211.3	3984.3	3708.0	3320.0	2939.3	2410.7	1975.9	1549.5	1215.6	115.3
34°	4765.0	4635.3	4541.6	4225.7	3816.1	3330.8	2765.1	2261.8	1784.9	1350.1	116.5
35°	5136.2	5108.6	4926.0	4631.7	4214.9	3718.8	3147.1	2558.5	1981.9	1506.3	116.5
36°	5529.0	5443.7	5265.9	4999.3	4593.3	4080.4	3438.9	2815.5	2211.4	1646.8	115.3
37°	5775.2	5724.8	5548.2	5273.1	4875.5	4385.5	3765.7	3087.0	2393.9	1787.3	112.9
38°	6028.7	5926.6	5752.4	5489.3	5099.0	4638.9	4002.3	3296.0	2562.1	1911.1	109.3
39°	6204.0	6098.3	5920.6	5658.7	5276.7	4820.3	4189.7	3473.8	2708.6	2003.5	104.5
40°	6336.2	6234.1	6053.9	5784.8	5407.7	4963.2	4345.8	3631.1	2831.2	2084.0	98.5
41°	6417.8	6322.9	6144.0	5876.1	5497.7	5044.9	4447.9	3733.2	2914.0	2138.1	92.5
42°	6486.3	6389.0	6206.4	5932.6	5553.0	5114.6	4510.4	3798.1	2970.5	2165.7	87.7
43°	6524.7	6427.4	6249.7	5969.8	5586.6	5147.0	4544.0	3828.1	2989.7	2162.1	79.3
44°	6546.4	6445.5	6266.5	5986.6	5601.0	5155.4	4546.4	3822.1	2976.5	2133.3	72.1
45°	6522.3	6422.6	6249.7	5969.8	5575.8	5129.0	4522.4	3789.7	2926.0	2076.8	63.7
46°	6366.2	6289.3	6130.8	5873.7	5496.5	5061.7	4461.1	3727.2	2848.0	2007.2	54.1
47°	6091.1	6029.9	5876.1	5685.1	5344.0	4938.0	4348.2	3608.3	2738.7	1902.6	43.2
48°	5804.0	5714.0	5571.0	5375.2	5086.9	4715.8	4162.0	3434.1	2572.9	1765.7	38.4
49°	5380.0	5327.2	5201.1	4982.4	4743.4	4416.7	3899.0	3210.7	2369.9	1616.8	33.6
50°	4990.9	4954.8	4778.2	4617.3	4363.8	4058.7	3542.2	2916.4	2117.7	1431.8	30.0
51°	4687.0	4643.7	4516.4	4315.8	4045.5	3691.2	3204.7	2534.5	1828.2	1212.0	24.0
52°	4369.8	4345.8	4232.9	4026.3	3760.9	3407.7	2876.8	2210.1	1547.1	1024.6	19.2
53°	4110.4	4075.6	3937.4	3753.6	3466.6	3101.4	2521.3	1908.7	1310.5	861.2	16.8
54°	3732.0	3717.6	3628.7	3436.5	3125.4	2727.9	2199.3	1607.2	1093.1	730.3	14.4
55°	3329.6	3281.6	3191.5	3039.0	2753.1	2381.9	1827.0	1332.1	884.1	615.0	10.8
56°	2839.6	2837.2	2676.2	2548.9	2295.4	1901.4	1459.4	1040.2	718.3	512.9	9.6
57°	2371.1	2295.4	2140.5	2014.4	1741.7	1442.6	1083.5	779.6	562.1	415.6	7.2
58°	1753.7	1714.1	1673.2	1488.2	1236.0	1022.2	773.6	547.7	415.6	317.1	4.8
59°	1190.4	1189.2	1141.1	1000.6	855.2	636.6	482.9	372.4	285.9	233.0	3.6
60°	898.5	876.9	780.8	688.3	538.1	402.4	285.9	219.8	177.8	150.1	2.4
62.5°	314.7	326.7	287.1	237.8	181.4	148.9	114.1	92.5	75.7	61.3	0.0
65°	64.9	70.9	61.3	57.7	45.6	39.6	34.8	30.0	25.2	21.6	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°	8.4	7.2	7.2	7.2	6.0	6.0	6.0	6.0	4.8	4.8	1.2
70°	3.6	3.6	3.6	3.6	3.6	3.6	2.4	2.4	2.4	2.4	1.2
72.5°	3.6	3.6	3.6	2.4	2.4	2.4	2.4	2.4	2.4	1.2	1.2
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4
85°	1.2	1.2	1.2	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	69.7	69.7	69.7	69.7	69.7	69.7
2.5°	73.3	70.9	67.3	66.1	64.9	64.9
5°	72.1	67.3	63.7	60.1	58.9	58.9
7.5°	68.5	62.5	57.7	55.3	54.1	52.9
10°	64.9	56.5	51.7	49.2	49.2	49.2
12.5°	57.7	50.4	45.6	44.4	45.6	45.6
15°	51.7	43.2	40.8	40.8	42.0	43.2
17.5°	44.4	38.4	36.0	37.2	38.4	39.6
20°	39.6	32.4	32.4	33.6	37.2	37.2
22.5°	34.8	28.8	28.8	32.4	34.8	36.0
25°	31.2	25.2	26.4	30.0	33.6	34.8
27.5°	26.4	21.6	24.0	28.8	32.4	33.6
30°	22.8	19.2	22.8	27.6	31.2	33.6
31°	21.6	18.0	22.8	26.4	31.2	33.6
32°	19.2	18.0	21.6	26.4	31.2	32.4
33°	18.0	16.8	21.6	26.4	31.2	32.4
34°	16.8	15.6	20.4	26.4	31.2	32.4
35°	14.4	15.6	20.4	25.2	30.0	32.4
36°	13.2	14.4	20.4	25.2	30.0	32.4
37°	12.0	14.4	19.2	25.2	30.0	32.4
38°	10.8	13.2	19.2	25.2	30.0	32.4
39°	9.6	13.2	18.0	25.2	30.0	32.4
40°	8.4	12.0	18.0	24.0	30.0	32.4
41°	8.4	12.0	18.0	24.0	30.0	32.4
42°	7.2	12.0	18.0	24.0	30.0	32.4
43°	6.0	10.8	18.0	24.0	30.0	32.4
44°	4.8	10.8	16.8	24.0	30.0	32.4
45°	4.8	10.8	16.8	24.0	30.0	32.4
46°	3.6	9.6	16.8	24.0	30.0	32.4
47°	2.4	9.6	16.8	22.8	30.0	32.4
48°	2.4	9.6	16.8	22.8	30.0	32.4
49°	2.4	9.6	15.6	22.8	30.0	32.4
50°	2.4	9.6	15.6	22.8	30.0	32.4
51°	1.2	8.4	15.6	22.8	30.0	32.4
52°	1.2	8.4	15.6	22.8	30.0	33.6
53°	1.2	8.4	15.6	22.8	30.0	32.4
54°	1.2	8.4	14.4	22.8	30.0	32.4
55°	1.2	8.4	14.4	22.8	30.0	32.4
56°	1.2	7.2	14.4	21.6	30.0	32.4
57°	2.4	7.2	14.4	21.6	30.0	31.2
58°	2.4	7.2	14.4	21.6	28.8	31.2
59°	2.4	7.2	14.4	21.6	28.8	31.2
60°	2.4	7.2	13.2	21.6	28.8	31.2
62.5°	2.4	7.2	13.2	20.4	27.6	30.0
65°	2.4	7.2	12.0	19.2	27.6	28.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.4	6.0	12.0	18.0	26.4	27.6
70°	3.6	6.0	10.8	18.0	25.2	26.4
72.5°	3.6	6.0	10.8	15.6	22.8	25.2
75°	3.6	6.0	9.6	14.4	21.6	22.8
77.5°	3.6	6.0	8.4	13.2	19.2	20.4
80°	4.8	6.0	7.2	10.8	16.8	18.0
82.5°	4.8	6.0	6.0	8.4	13.2	14.4
85°	3.6	4.8	4.8	6.0	8.4	9.6
87.5°	3.6	4.8	3.6	2.4	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)