

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: P1306090

Luminaire Tested: P3SQASS17R359024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQASS17R359024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

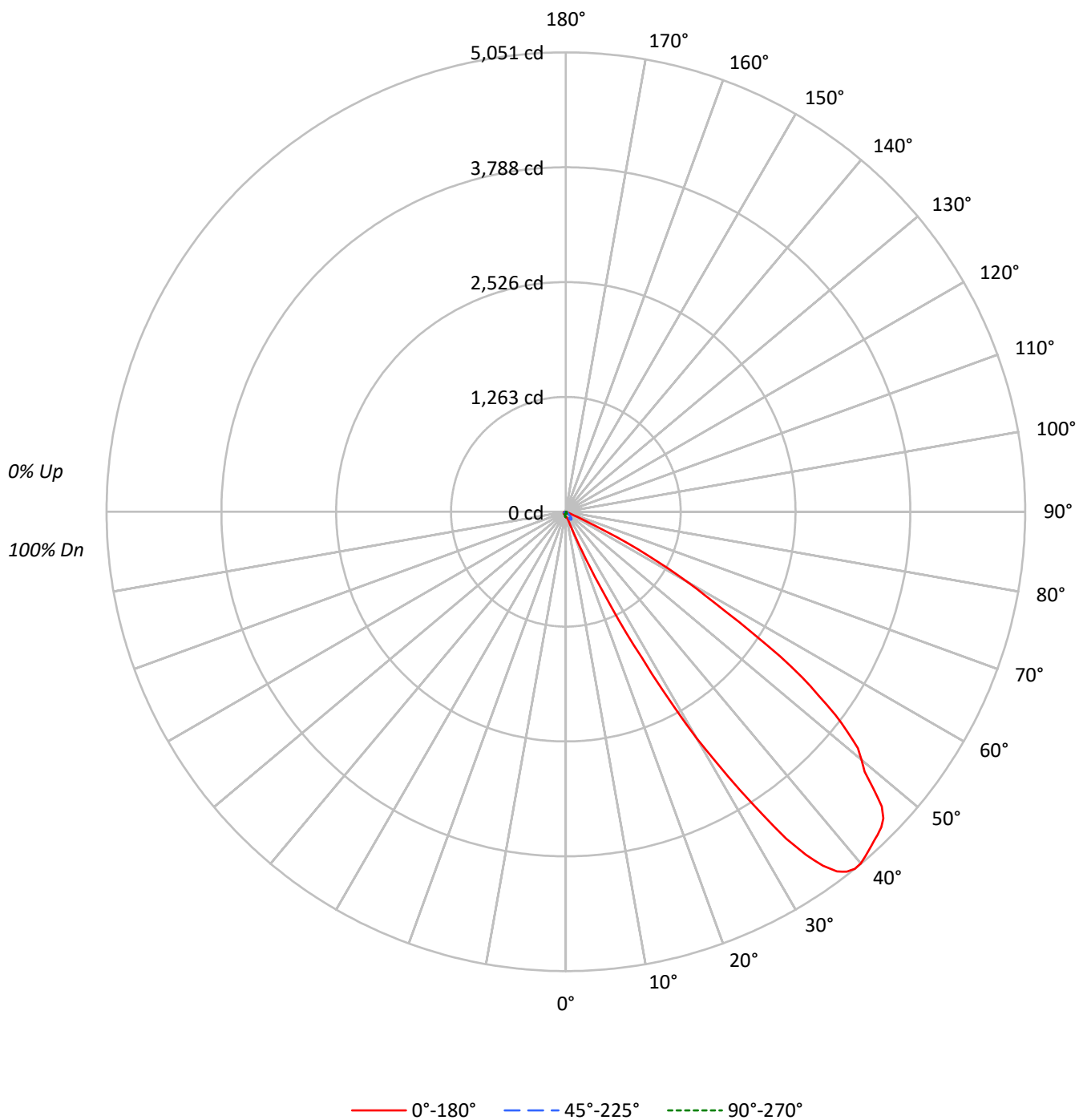
Lumens per Lamp: N/A
Luminaire Lumens: 1258.0 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	107	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	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9972	9972	9972	9972	9972
5°	10805	10598	9820	8834	8644
10°	11315	10335	8744	7555	7555
15°	16189	10127	7078	6472	6686
20°	40577	10832	5627	5627	6250
25°	188392	13815	4314	5188	5834
30°	572713	18753	3381	4733	5867
35°	967926	21718	2859	4541	5740
40°	1134603	21448	2293	4586	6138
45°	1194879	15222	1924	4969	6649
50°	1137340	9136	1822	5171	7315
55°	953028	3753	2042	5795	8527
60°	533546	792	2342	6648	9403
65°	92098	448	2323	7417	10636
70°	1712	554	2870	8006	11984
75°	1530	732	3793	9050	13575
80°	1091	1091	4463	10116	15769
85°	0	2174	8892	11263	17982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1203325 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.4
10°-20°	14.8	1.2
20°-30°	77.2	6.1
30°-40°	333.4	26.5
40°-50°	475.5	37.8
50°-60°	294.5	23.4
60°-70°	44.8	3.6
70°-80°	8.4	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°	97.2	7.7
0°-40°	430.6	34.2
0°-60°	1200.6	95.4
0°-90°	1258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1258.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	58	58	58	58	58	
5°	62	61	57	51	50	6
15°	91	57	40	36	38	33
25°	991	73	23	27	31	593
35°	4604	103	14	22	27	2764
45°	4906	62	8	20	27	3706
55°	3174	12	7	19	28	2703
65°	226	1	6	18	26	462
75°	2	1	6	14	20	2
85°	0	1	4	6	9	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
2.5°	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	57.9	56.8
5°	62.5	62.5	61.3	61.3	61.3	61.3	61.3	61.3	59.1	56.8	53.4
7.5°	63.6	63.6	62.5	62.5	62.5	62.5	61.3	60.2	57.9	53.4	50.0
10°	64.7	64.7	64.7	64.7	63.6	62.5	61.3	59.1	55.6	50.0	46.6
12.5°	72.7	72.7	71.5	69.3	67.0	64.7	62.5	57.9	51.1	45.4	42.0
15°	90.8	89.7	87.4	84.0	79.5	73.8	69.3	56.8	46.6	39.7	37.5
17.5°	127.2	124.9	121.5	110.2	99.9	89.7	80.6	56.8	42.0	35.2	32.9
20°	221.4	222.6	198.7	171.5	148.8	123.8	101.1	59.1	37.5	30.7	29.5
22.5°	462.2	444.0	387.2	321.4	245.3	189.6	143.1	64.7	32.9	26.1	26.1
25°	991.4	922.1	784.7	592.8	417.9	296.4	207.8	72.7	29.5	22.7	23.8
27.5°	1810.2	1747.7	1471.8	1108.4	735.9	447.4	281.6	82.9	26.1	19.3	21.6
30°	2879.9	2707.3	2347.3	1817.0	1229.9	684.8	378.2	94.3	21.6	17.0	20.4
31°	3213.8	3134.3	2695.9	2102.0	1441.1	813.1	419.0	97.7	20.4	17.0	19.3
32°	3610.1	3469.3	3076.4	2414.3	1655.7	927.8	467.9	101.1	19.3	14.8	19.3
33°	3964.4	3828.2	3350.1	2689.1	1872.6	1058.4	520.1	102.2	17.0	14.8	18.2
34°	4336.9	4150.7	3677.1	2976.4	2095.2	1199.2	567.8	103.3	15.9	13.6	18.2
35°	4603.8	4417.5	3958.8	3203.6	2287.1	1324.1	622.3	103.3	14.8	13.6	17.0
36°	4810.5	4646.9	4201.8	3437.5	2477.9	1436.6	665.5	103.3	12.5	12.5	17.0
37°	4952.4	4796.8	4365.3	3638.5	2623.3	1536.5	704.1	103.3	11.4	12.5	17.0
38°	5021.7	4892.2	4523.2	3785.0	2764.1	1614.8	734.7	101.1	10.2	11.4	15.9
39°	5051.2	4945.6	4619.7	3908.8	2869.7	1683.0	757.5	98.8	9.1	11.4	15.9
40°	5046.7	4954.7	4674.2	3994.0	2954.9	1729.5	769.9	95.4	7.9	10.2	15.9
41°	5020.6	4941.1	4702.6	4066.6	3006.0	1761.3	773.4	92.0	6.8	10.2	14.8
42°	4991.0	4918.3	4711.7	4105.2	3038.9	1771.6	764.3	87.4	6.8	9.1	14.8
43°	4960.4	4893.4	4711.7	4117.7	3046.9	1764.7	749.5	79.5	5.7	9.1	14.8
44°	4935.4	4871.8	4696.9	4114.3	3029.8	1738.6	722.3	70.4	4.5	9.1	14.8
45°	4905.9	4843.4	4677.6	4092.8	2996.9	1694.3	688.2	62.5	3.4	7.9	14.8
46°	4853.6	4804.8	4643.5	4048.5	2944.6	1633.0	645.0	56.8	2.3	7.9	13.6
47°	4752.5	4710.5	4577.7	3982.6	2875.4	1560.3	600.7	51.1	2.3	7.9	13.6
48°	4549.3	4548.1	4445.9	3860.0	2765.2	1469.5	554.2	45.4	2.3	7.9	13.6
49°	4352.8	4332.4	4205.2	3644.2	2607.4	1360.5	505.3	40.9	1.1	7.9	13.6
50°	4244.9	4200.6	3991.7	3389.8	2405.2	1209.4	453.1	34.1	1.1	6.8	13.6
51°	4132.5	4068.9	3822.5	3160.4	2164.5	1064.1	396.3	27.3	1.1	6.8	12.5
52°	3929.2	3869.0	3593.1	2941.2	1930.5	915.3	341.8	22.7	1.1	6.8	13.6
53°	3710.1	3623.7	3323.9	2700.5	1725.0	783.6	286.2	19.3	1.1	6.8	12.5
54°	3434.1	3395.5	3051.4	2405.2	1484.2	656.4	235.1	15.9	1.1	6.8	12.5
55°	3174.0	3117.3	2759.5	2103.2	1266.2	538.3	196.5	12.5	1.1	6.8	12.5
56°	2842.4	2757.3	2422.3	1826.1	1044.8	433.8	165.8	10.2	1.1	6.8	12.5
57°	2447.2	2356.4	2091.8	1518.3	819.9	330.5	138.5	7.9	1.1	6.8	12.5
58°	2070.2	1991.9	1708.0	1172.0	617.8	229.4	114.7	5.7	1.1	5.7	12.5
59°	1788.6	1702.3	1420.7	901.7	429.3	169.2	86.3	4.5	1.1	6.8	12.5
60°	1549.0	1437.7	1143.6	698.4	306.6	121.5	63.6	2.3	2.3	6.8	12.5
62.5°	892.6	788.1	546.2	283.9	126.1	62.5	30.7	1.1	2.3	6.8	12.5
65°	226.0	201.0	130.6	61.3	35.2	21.6	11.4	1.1	2.3	5.7	11.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	7.9	7.9	7.9	6.8	5.7	4.5	2.3	1.1	2.3	5.7	11.4
70°	3.4	3.4	3.4	2.3	2.3	1.1	1.1	1.1	2.3	5.7	10.2
72.5°	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1	3.4	5.7	9.1
75°	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1	3.4	5.7	9.1
77.5°	2.3	2.3	1.1	1.1	1.1	1.1	1.1	1.1	3.4	4.5	7.9
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.4	4.5	6.8
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.4	4.5	5.7
85°	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.1	3.4	4.5	4.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4	4.5	3.4
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):

	135°	157.5°	180°
0°	57.9	57.9	57.9
2.5°	54.5	54.5	54.5
5°	51.1	51.1	50.0
7.5°	47.7	46.6	46.6
10°	43.2	43.2	43.2
12.5°	39.7	39.7	39.7
15°	36.3	37.5	37.5
17.5°	32.9	35.2	35.2
20°	30.7	32.9	34.1
22.5°	28.4	30.7	31.8
25°	27.3	29.5	30.7
27.5°	25.0	28.4	30.7
30°	23.8	27.3	29.5
31°	23.8	27.3	28.4
32°	22.7	27.3	28.4
33°	22.7	27.3	28.4
34°	22.7	26.1	28.4
35°	21.6	26.1	27.3
36°	21.6	26.1	27.3
37°	21.6	26.1	28.4
38°	21.6	26.1	27.3
39°	20.4	26.1	27.3
40°	20.4	26.1	27.3
41°	20.4	26.1	27.3
42°	20.4	26.1	27.3
43°	20.4	26.1	27.3
44°	20.4	25.0	27.3
45°	20.4	25.0	27.3
46°	20.4	26.1	27.3
47°	20.4	26.1	28.4
48°	20.4	25.0	27.3
49°	19.3	25.0	27.3
50°	19.3	25.0	27.3
51°	19.3	26.1	28.4
52°	19.3	26.1	28.4
53°	19.3	26.1	28.4
54°	19.3	26.1	27.3
55°	19.3	26.1	28.4
56°	19.3	26.1	27.3
57°	19.3	26.1	27.3
58°	19.3	25.0	27.3
59°	19.3	25.0	27.3
60°	19.3	25.0	27.3
62.5°	18.2	25.0	27.3
65°	18.2	23.8	26.1



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	17.0	23.8	25.0
70°	15.9	22.7	23.8
72.5°	14.8	21.6	22.7
75°	13.6	19.3	20.4
77.5°	11.4	17.0	19.3
80°	10.2	14.8	15.9
82.5°	7.9	12.5	13.6
85°	5.7	9.1	9.1
87.5°	2.3	4.5	4.5
90°	0.0	0.0	0.0

(END OF REPORT)