

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: P1307855

Luminaire Tested: P3SQAS09R359030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307855
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: P3SQAS09R359030DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

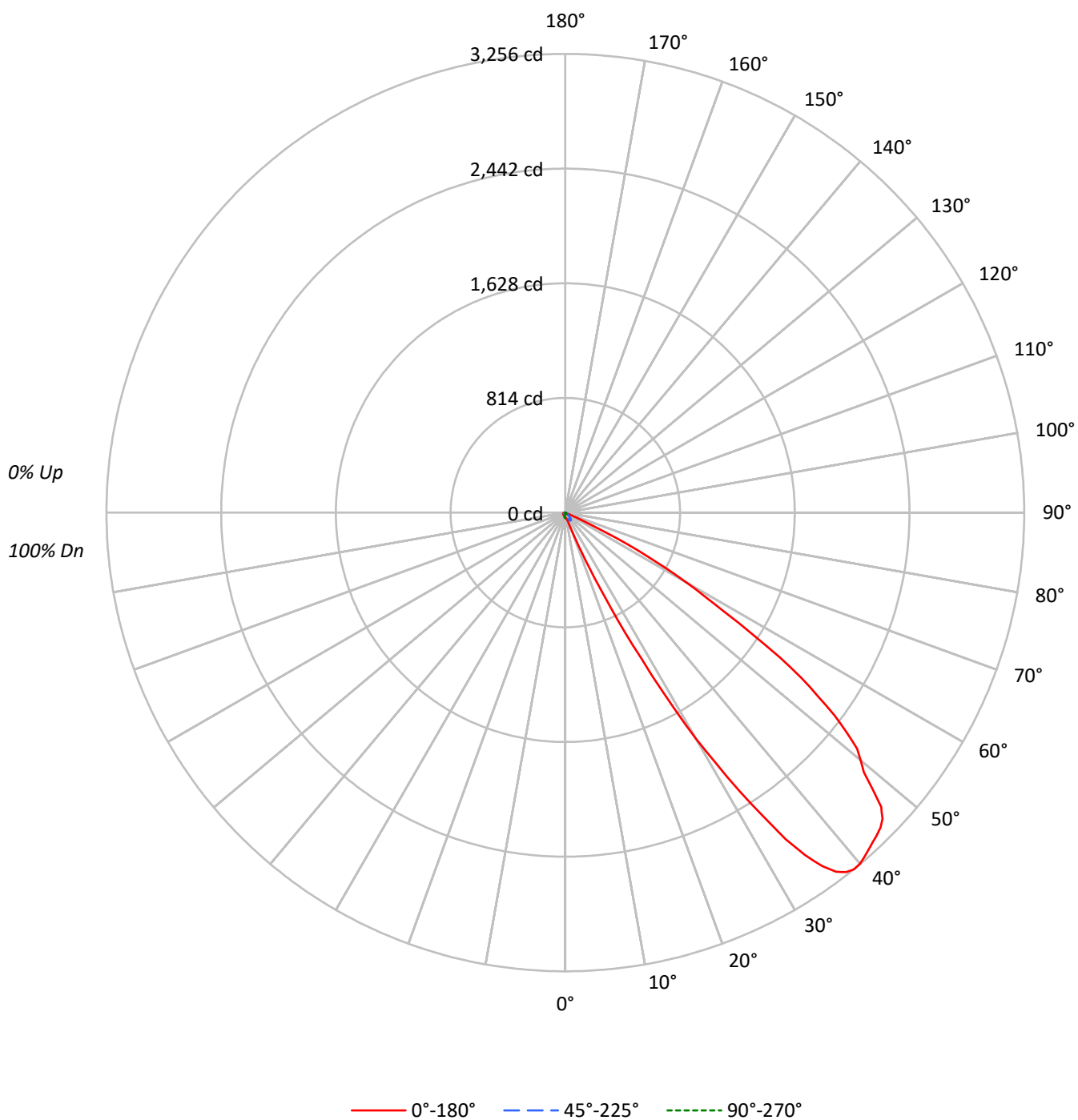
Lumens per Lamp: N/A
Luminaire Lumens: 811.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	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°	6424	6424	6424	6424	6424
5°	6967	6829	6327	5688	5567
10°	7292	6663	5631	4862	4862
15°	10448	6526	4564	4172	4315
20°	26172	6983	3629	3629	4032
25°	121446	8912	2774	3344	3763
30°	369214	12091	2188	3063	3778
35°	623986	14002	1850	2922	3700
40°	731454	13826	1484	2968	3957
45°	770306	9815	1242	3215	4287
50°	733220	5894	1179	3322	4716
55°	614394	2432	1321	3723	5495
60°	343963	517	1516	4271	6062
65°	59375	285	1508	4768	6846
70°	1108	352	1863	5136	7755
75°	998	466	2462	5856	8784
80°	694	694	2876	6546	10116
85°	0	1383	5730	7311	11659

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 775755 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.4
10°-20°	9.6	1.2
20°-30°	49.8	6.1
30°-40°	214.9	26.5
40°-50°	306.5	37.8
50°-60°	189.9	23.4
60°-70°	28.9	3.6
70°-80°	5.4	0.7
80°-90°	2.7	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°	62.7	7.7
0°-40°	277.6	34.2
0°-60°	774.0	95.4
0°-90°	811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	811.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	40	40	37	33	32	4
15°	59	37	26	23	24	21
25°	639	47	15	18	20	382
35°	2968	67	9	14	18	1782
45°	3163	40	5	13	18	2389
55°	2046	8	4	12	18	1743
65°	146	1	4	12	17	298
75°	2	1	4	9	13	2
85°	0	1	3	4	6	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°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
2.5°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	37.3	36.6
5°	40.3	40.3	39.5	39.5	39.5	39.5	39.5	39.5	38.1	36.6	34.4
7.5°	41.0	41.0	40.3	40.3	40.3	40.3	39.5	38.8	37.3	34.4	32.2
10°	41.7	41.7	41.7	41.7	41.0	40.3	39.5	38.1	35.9	32.2	30.0
12.5°	46.9	46.9	46.1	44.7	43.2	41.7	40.3	37.3	32.9	29.3	27.1
15°	58.6	57.8	56.4	54.2	51.2	47.6	44.7	36.6	30.0	25.6	24.2
17.5°	82.0	80.5	78.3	71.0	64.4	57.8	52.0	36.6	27.1	22.7	21.2
20°	142.8	143.5	128.1	110.5	95.9	79.8	65.2	38.1	24.2	19.8	19.0
22.5°	298.0	286.3	249.6	207.2	158.1	122.3	92.2	41.7	21.2	16.8	16.8
25°	639.1	594.5	505.9	382.2	269.4	191.1	134.0	46.9	19.0	14.6	15.4
27.5°	1167.0	1126.7	948.8	714.5	474.4	288.4	181.6	53.4	16.8	12.4	13.9
30°	1856.6	1745.3	1513.3	1171.4	792.9	441.5	243.8	60.8	13.9	11.0	13.2
31°	2071.8	2020.6	1738.0	1355.1	929.0	524.2	270.1	63.0	13.2	11.0	12.4
32°	2327.3	2236.6	1983.3	1556.4	1067.4	598.1	301.6	65.2	12.4	9.5	12.4
33°	2555.8	2467.9	2159.7	1733.6	1207.2	682.3	335.3	65.9	11.0	9.5	11.7
34°	2795.9	2675.8	2370.5	1918.8	1350.7	773.1	366.1	66.6	10.2	8.8	11.7
35°	2967.9	2847.9	2552.1	2065.3	1474.5	853.6	401.2	66.6	9.5	8.8	11.0
36°	3101.2	2995.8	2708.8	2216.1	1597.4	926.1	429.0	66.6	8.1	8.1	11.0
37°	3192.7	3092.4	2814.2	2345.7	1691.2	990.5	453.9	66.6	7.3	8.1	11.0
38°	3237.4	3153.9	2916.0	2440.1	1781.9	1041.0	473.7	65.2	6.6	7.3	10.2
39°	3256.4	3188.3	2978.2	2519.9	1850.0	1085.0	488.3	63.7	5.9	7.3	10.2
40°	3253.5	3194.2	3013.3	2574.8	1904.9	1115.0	496.4	61.5	5.1	6.6	10.2
41°	3236.6	3185.4	3031.6	2621.7	1937.9	1135.5	498.6	59.3	4.4	6.6	9.5
42°	3217.6	3170.7	3037.5	2646.5	1959.1	1142.1	492.7	56.4	4.4	5.9	9.5
43°	3197.8	3154.6	3037.5	2654.6	1964.2	1137.7	483.2	51.2	3.7	5.9	9.5
44°	3181.7	3140.7	3028.0	2652.4	1953.2	1120.8	465.6	45.4	2.9	5.9	9.5
45°	3162.7	3122.4	3015.5	2638.5	1932.0	1092.3	443.7	40.3	2.2	5.1	9.5
46°	3129.0	3097.5	2993.6	2609.9	1898.3	1052.8	415.8	36.6	1.5	5.1	8.8
47°	3063.8	3036.8	2951.1	2567.5	1853.7	1005.9	387.3	32.9	1.5	5.1	8.8
48°	2932.8	2932.1	2866.2	2488.4	1782.7	947.3	357.3	29.3	1.5	5.1	8.8
49°	2806.1	2793.0	2711.0	2349.3	1680.9	877.1	325.8	26.4	0.7	5.1	8.8
50°	2736.6	2708.0	2573.3	2185.3	1550.6	779.7	292.1	22.0	0.7	4.4	8.8
51°	2664.1	2623.1	2464.3	2037.4	1395.4	686.0	255.5	17.6	0.7	4.4	8.1
52°	2533.1	2494.3	2316.4	1896.1	1244.6	590.1	220.4	14.6	0.7	4.4	8.8
53°	2391.8	2336.1	2142.9	1740.9	1112.1	505.1	184.5	12.4	0.7	4.4	8.1
54°	2213.9	2189.0	1967.2	1550.6	956.9	423.2	151.5	10.2	0.7	4.4	8.1
55°	2046.2	2009.6	1779.0	1355.9	816.3	347.0	126.7	8.1	0.7	4.4	8.1
56°	1832.4	1777.5	1561.6	1177.2	673.5	279.7	106.9	6.6	0.7	4.4	8.1
57°	1577.7	1519.1	1348.5	978.8	528.6	213.0	89.3	5.1	0.7	4.4	8.1
58°	1334.6	1284.1	1101.1	755.5	398.3	147.9	73.9	3.7	0.7	3.7	8.1
59°	1153.1	1097.4	915.9	581.3	276.7	109.1	55.6	2.9	0.7	4.4	8.1
60°	998.6	926.8	737.2	450.2	197.7	78.3	41.0	1.5	1.5	4.4	8.1
62.5°	575.4	508.1	352.1	183.0	81.3	40.3	19.8	0.7	1.5	4.4	8.1
65°	145.7	129.6	84.2	39.5	22.7	13.9	7.3	0.7	1.5	3.7	7.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	5.1	5.1	5.1	4.4	3.7	2.9	1.5	0.7	1.5	3.7	7.3
70°	2.2	2.2	2.2	1.5	1.5	0.7	0.7	0.7	1.5	3.7	6.6
72.5°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	2.2	3.7	5.9
75°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	2.2	3.7	5.9
77.5°	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	2.2	2.9	5.1
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.2	2.9	4.4
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.2	2.9	3.7
85°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7	2.2	2.9	2.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.2	2.9	2.2
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):

	135°	157.5°	180°
0°	37.3	37.3	37.3
2.5°	35.1	35.1	35.1
5°	32.9	32.9	32.2
7.5°	30.7	30.0	30.0
10°	27.8	27.8	27.8
12.5°	25.6	25.6	25.6
15°	23.4	24.2	24.2
17.5°	21.2	22.7	22.7
20°	19.8	21.2	22.0
22.5°	18.3	19.8	20.5
25°	17.6	19.0	19.8
27.5°	16.1	18.3	19.8
30°	15.4	17.6	19.0
31°	15.4	17.6	18.3
32°	14.6	17.6	18.3
33°	14.6	17.6	18.3
34°	14.6	16.8	18.3
35°	13.9	16.8	17.6
36°	13.9	16.8	17.6
37°	13.9	16.8	18.3
38°	13.9	16.8	17.6
39°	13.2	16.8	17.6
40°	13.2	16.8	17.6
41°	13.2	16.8	17.6
42°	13.2	16.8	17.6
43°	13.2	16.8	17.6
44°	13.2	16.1	17.6
45°	13.2	16.1	17.6
46°	13.2	16.8	17.6
47°	13.2	16.8	18.3
48°	13.2	16.1	17.6
49°	12.4	16.1	17.6
50°	12.4	16.1	17.6
51°	12.4	16.8	18.3
52°	12.4	16.8	18.3
53°	12.4	16.8	18.3
54°	12.4	16.8	17.6
55°	12.4	16.8	18.3
56°	12.4	16.8	17.6
57°	12.4	16.8	17.6
58°	12.4	16.1	17.6
59°	12.4	16.1	17.6
60°	12.4	16.1	17.6
62.5°	11.7	16.1	17.6
65°	11.7	15.4	16.8



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	11.0	15.4	16.1
70°	10.2	14.6	15.4
72.5°	9.5	13.9	14.6
75°	8.8	12.4	13.2
77.5°	7.3	11.0	12.4
80°	6.6	9.5	10.2
82.5°	5.1	8.1	8.8
85°	3.7	5.9	5.9
87.5°	1.5	2.9	2.9
90°	0.0	0.0	0.0

(END OF REPORT)