

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: P1308472

Luminaire Tested: P3SQAS24R359030D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308472
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: P3SQAS24R359030D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

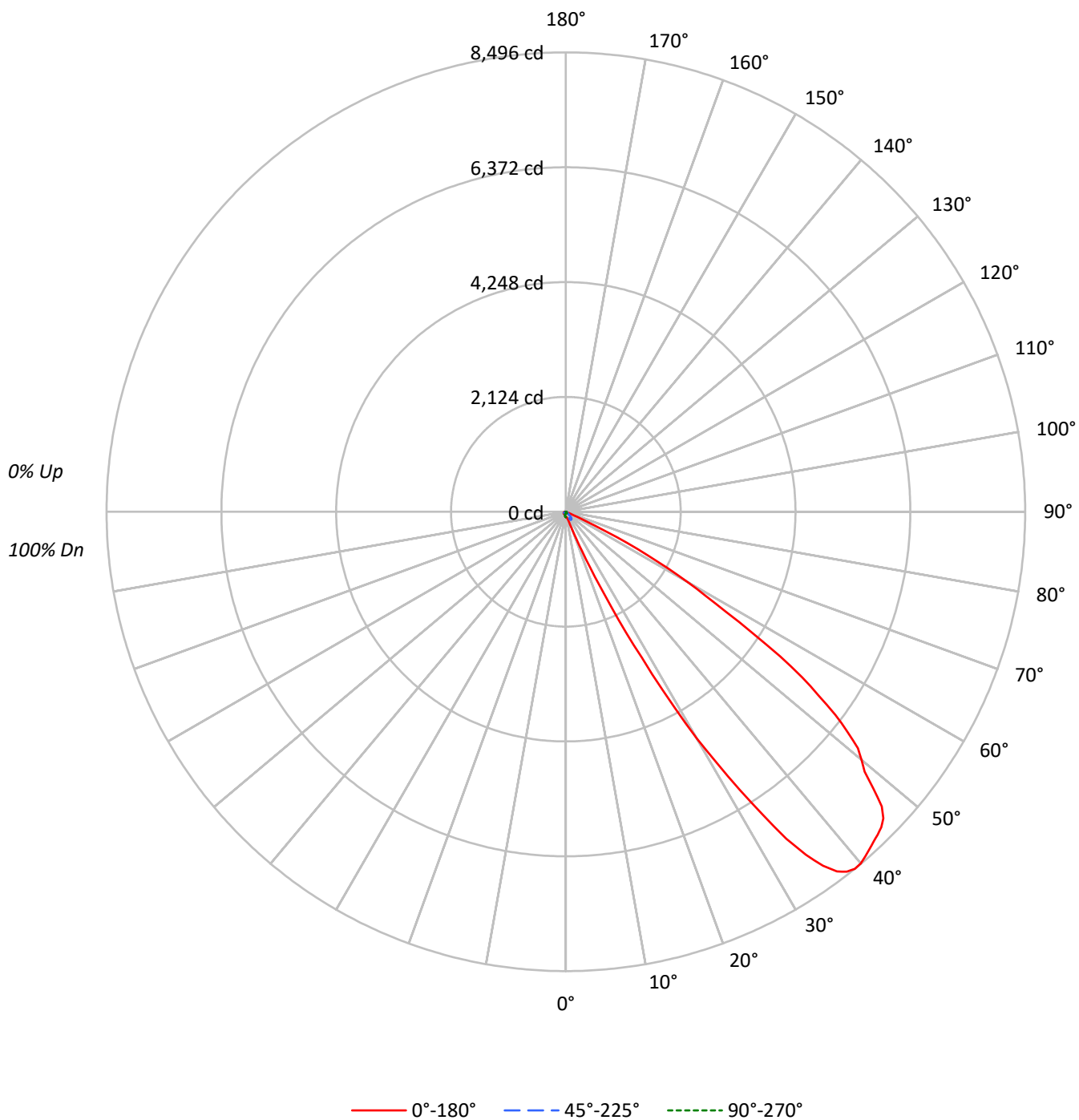
Lumens per Lamp: N/A
Luminaire Lumens: 2116.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	16774	16774	16774	16774	16774
5°	18170	17824	16510	14868	14522
10°	19044	17366	14690	12696	12696
15°	27244	17027	11928	10894	11233
20°	68270	18199	9457	9457	10502
25°	316888	23221	7259	8703	9805
30°	963325	31520	5707	7975	9884
35°	1628074	36541	4815	7632	9629
40°	1908435	36084	3867	7734	10297
45°	2009805	25598	3264	8378	11155
50°	1913053	15352	3081	8708	12271
55°	1603033	6305	3453	9758	14352
60°	897418	1309	3961	11194	15776
65°	154896	774	3912	12470	17890
70°	2870	957	4834	13445	20192
75°	2529	1264	6388	15238	22890
80°	1884	1884	7538	17059	26481
85°	0	3754	15018	18970	30233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 2024053 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.4
10°-20°	24.9	1.2
20°-30°	129.8	6.1
30°-40°	560.7	26.5
40°-50°	799.8	37.8
50°-60°	495.4	23.4
60°-70°	75.4	3.6
70°-80°	14.1	0.7
80°-90°	7.1	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°	163.6	7.7
0°-40°	724.3	34.2
0°-60°	2019.5	95.4
0°-90°	2116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2116.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	97	97	97	97	97	
5°	105	103	96	86	84	10
15°	153	96	67	61	63	55
25°	1668	122	38	46	52	998
35°	7744	174	23	36	46	4649
45°	8252	105	13	34	46	6234
55°	5339	21	12	32	48	4547
65°	380	2	10	31	44	777
75°	4	2	10	23	34	4
85°	0	2	8	10	15	1
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°	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
2.5°	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	97.4	95.5
5°	105.1	105.1	103.1	103.1	103.1	103.1	103.1	103.1	99.3	95.5	89.8
7.5°	107.0	107.0	105.1	105.1	105.1	105.1	103.1	101.2	97.4	89.8	84.0
10°	108.9	108.9	108.9	108.9	107.0	105.1	103.1	99.3	93.6	84.0	78.3
12.5°	122.2	122.2	120.3	116.5	112.7	108.9	105.1	97.4	86.0	76.4	70.7
15°	152.8	150.9	147.1	141.4	133.7	124.2	116.5	95.5	78.3	66.9	63.0
17.5°	213.9	210.1	204.4	185.3	168.1	150.9	135.6	95.5	70.7	59.2	55.4
20°	372.5	374.4	334.3	288.4	250.2	208.2	170.0	99.3	63.0	51.6	49.7
22.5°	777.4	746.9	651.4	540.6	412.6	319.0	240.7	108.9	55.4	43.9	43.9
25°	1667.6	1551.0	1319.9	997.1	702.9	498.5	349.6	122.2	49.7	38.2	40.1
27.5°	3044.8	2939.7	2475.5	1864.3	1237.8	752.6	473.7	139.4	43.9	32.5	36.3
30°	4844.1	4553.8	3948.3	3056.2	2068.7	1151.8	636.1	158.5	36.3	28.7	34.4
31°	5405.7	5272.0	4534.7	3535.7	2424.0	1367.7	704.8	164.3	34.4	28.7	32.5
32°	6072.3	5835.5	5174.6	4061.0	2785.0	1560.6	787.0	170.0	32.5	24.8	32.5
33°	6668.3	6439.1	5634.9	4523.2	3149.8	1780.3	874.8	171.9	28.7	24.8	30.6
34°	7294.8	6981.6	6185.0	5006.5	3524.2	2017.1	955.1	173.8	26.7	22.9	30.6
35°	7743.7	7430.5	6658.8	5388.5	3847.0	2227.2	1046.8	173.8	24.8	22.9	28.7
36°	8091.4	7816.3	7067.5	5782.0	4167.9	2416.3	1119.3	173.8	21.0	21.0	28.7
37°	8330.1	8068.4	7342.6	6120.1	4412.4	2584.4	1184.3	173.8	19.1	21.0	28.7
38°	8446.7	8228.9	7608.1	6366.5	4649.3	2716.2	1235.9	170.0	17.2	19.1	26.7
39°	8496.3	8318.7	7770.5	6574.7	4826.9	2830.8	1274.1	166.2	15.3	19.1	26.7
40°	8488.7	8334.0	7862.1	6718.0	4970.2	2909.1	1295.1	160.5	13.4	17.2	26.7
41°	8444.7	8311.0	7909.9	6840.2	5056.1	2962.6	1300.8	154.7	11.5	17.2	24.8
42°	8395.1	8272.8	7925.2	6905.2	5111.5	2979.8	1285.5	147.1	11.5	15.3	24.8
43°	8343.5	8230.8	7925.2	6926.2	5124.9	2968.4	1260.7	133.7	9.6	15.3	24.8
44°	8301.5	8194.5	7900.4	6920.4	5096.3	2924.4	1214.9	118.4	7.6	15.3	24.8
45°	8251.8	8146.8	7867.9	6884.2	5040.9	2849.9	1157.5	105.1	5.7	13.4	24.8
46°	8164.0	8081.8	7810.6	6809.7	4953.0	2746.8	1085.0	95.5	3.8	13.4	22.9
47°	7993.9	7923.3	7699.8	6698.9	4836.5	2624.5	1010.5	86.0	3.8	13.4	22.9
48°	7652.0	7650.1	7478.2	6492.6	4651.2	2471.7	932.1	76.4	3.8	13.4	22.9
49°	7321.6	7287.2	7073.3	6129.6	4385.7	2288.4	850.0	68.8	1.9	13.4	22.9
50°	7140.1	7065.6	6714.2	5701.8	4045.7	2034.3	762.1	57.3	1.9	11.5	22.9
51°	6951.0	6844.0	6429.5	5315.9	3640.7	1789.8	666.6	45.8	1.9	11.5	21.0
52°	6609.1	6507.9	6043.7	4947.3	3247.2	1539.6	575.0	38.2	1.9	11.5	22.9
53°	6240.4	6095.3	5591.0	4542.3	2901.5	1318.0	481.4	32.5	1.9	11.5	21.0
54°	5776.3	5711.3	5132.6	4045.7	2496.6	1104.1	395.4	26.7	1.9	11.5	21.0
55°	5338.8	5243.3	4641.6	3537.6	2129.8	905.4	330.5	21.0	1.9	11.5	21.0
56°	4781.1	4637.8	4074.3	3071.5	1757.3	729.7	278.9	17.2	1.9	11.5	21.0
57°	4116.4	3963.5	3518.5	2553.9	1379.1	555.9	233.0	13.4	1.9	11.5	21.0
58°	3482.2	3350.4	2872.9	1971.3	1039.1	385.8	192.9	9.6	1.9	9.6	21.0
59°	3008.5	2863.3	2389.6	1516.7	722.0	284.6	145.2	7.6	1.9	11.5	21.0
60°	2605.4	2418.2	1923.5	1174.7	515.7	204.4	107.0	3.8	3.8	11.5	21.0
62.5°	1501.4	1325.6	918.8	477.5	212.0	105.1	51.6	1.9	3.8	11.5	21.0
65°	380.1	338.1	219.7	103.1	59.2	36.3	19.1	1.9	3.8	9.6	19.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	13.4	13.4	13.4	11.5	9.6	7.6	3.8	1.9	3.8	9.6	19.1
70°	5.7	5.7	5.7	3.8	3.8	1.9	1.9	1.9	3.8	9.6	17.2
72.5°	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9	5.7	9.6	15.3
75°	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9	5.7	9.6	15.3
77.5°	3.8	3.8	1.9	1.9	1.9	1.9	1.9	1.9	5.7	7.6	13.4
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	5.7	7.6	11.5
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	5.7	7.6	9.6
85°	0.0	0.0	0.0	0.0	0.0	1.9	0.0	1.9	5.7	7.6	7.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.7	7.6	5.7
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):

	135°	157.5°	180°
0°	97.4	97.4	97.4
2.5°	91.7	91.7	91.7
5°	86.0	86.0	84.0
7.5°	80.2	78.3	78.3
10°	72.6	72.6	72.6
12.5°	66.9	66.9	66.9
15°	61.1	63.0	63.0
17.5°	55.4	59.2	59.2
20°	51.6	55.4	57.3
22.5°	47.8	51.6	53.5
25°	45.8	49.7	51.6
27.5°	42.0	47.8	51.6
30°	40.1	45.8	49.7
31°	40.1	45.8	47.8
32°	38.2	45.8	47.8
33°	38.2	45.8	47.8
34°	38.2	43.9	47.8
35°	36.3	43.9	45.8
36°	36.3	43.9	45.8
37°	36.3	43.9	47.8
38°	36.3	43.9	45.8
39°	34.4	43.9	45.8
40°	34.4	43.9	45.8
41°	34.4	43.9	45.8
42°	34.4	43.9	45.8
43°	34.4	43.9	45.8
44°	34.4	42.0	45.8
45°	34.4	42.0	45.8
46°	34.4	43.9	45.8
47°	34.4	43.9	47.8
48°	34.4	42.0	45.8
49°	32.5	42.0	45.8
50°	32.5	42.0	45.8
51°	32.5	43.9	47.8
52°	32.5	43.9	47.8
53°	32.5	43.9	47.8
54°	32.5	43.9	45.8
55°	32.5	43.9	47.8
56°	32.5	43.9	45.8
57°	32.5	43.9	45.8
58°	32.5	42.0	45.8
59°	32.5	42.0	45.8
60°	32.5	42.0	45.8
62.5°	30.6	42.0	45.8
65°	30.6	40.1	43.9



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	28.7	40.1	42.0
70°	26.7	38.2	40.1
72.5°	24.8	36.3	38.2
75°	22.9	32.5	34.4
77.5°	19.1	28.7	32.5
80°	17.2	24.8	26.7
82.5°	13.4	21.0	22.9
85°	9.6	15.3	15.3
87.5°	3.8	7.6	7.6
90°	0.0	0.0	0.0

(END OF REPORT)