

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: P1306202

Luminaire Tested: P3SQAS20R259024D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306202
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: P3SQAS20R259024D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

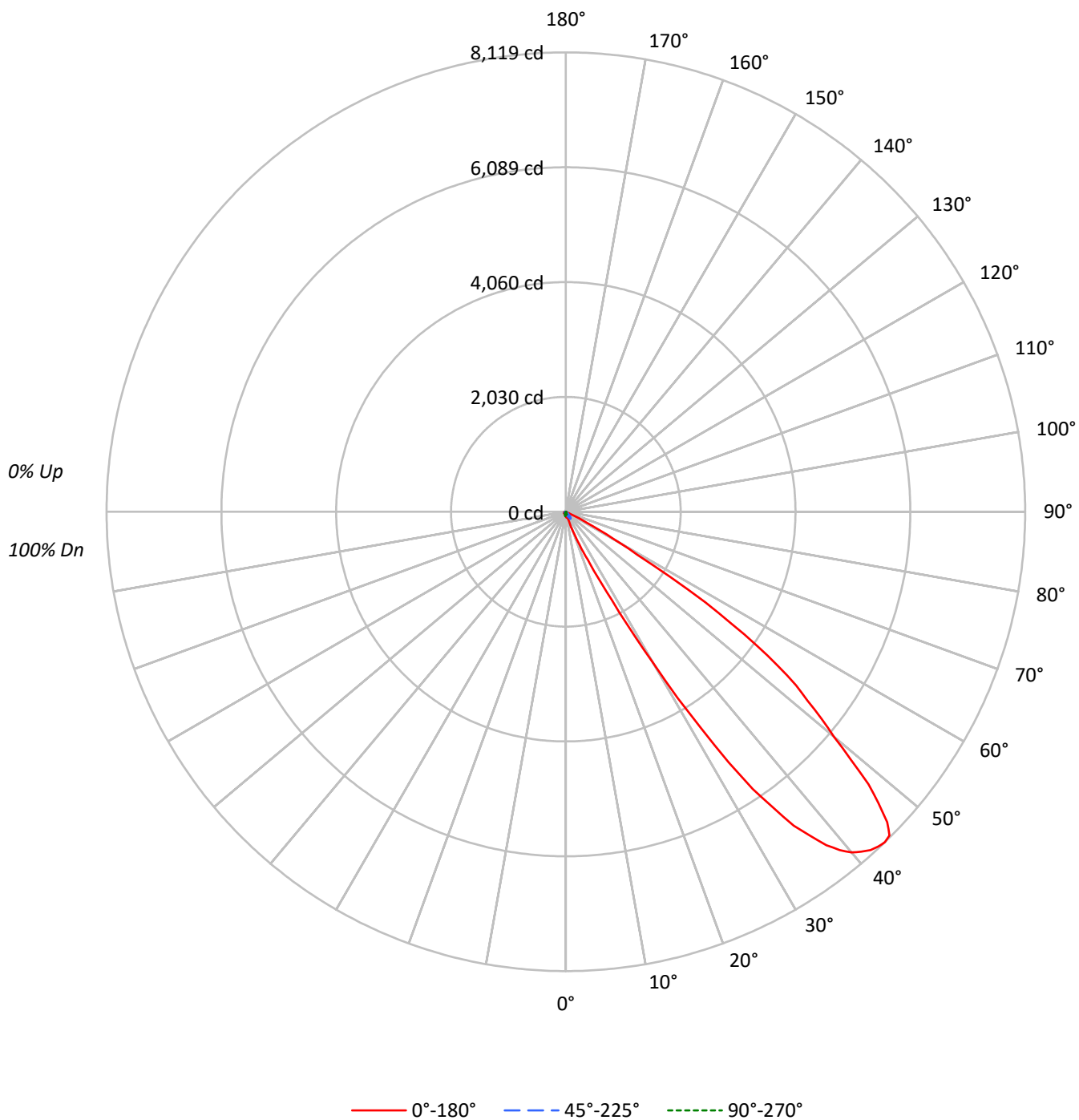
Lumens per Lamp: N/A
Luminaire Lumens: 1693.0 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	14880	14880	14880	14880	14880
5°	16994	16233	14418	12880	12620
10°	16928	15372	12242	10685	10685
15°	18864	13283	9557	9040	9557
20°	66621	13104	7368	7643	8467
25°	191661	16703	5948	7069	8209
30°	611492	25773	4733	6821	8293
35°	1339345	30380	4079	6581	8452
40°	1766798	27473	3350	6700	9038
45°	1970300	19241	3264	7258	9791
50°	1658519	9967	3188	7582	10771
55°	1239988	4023	3123	8497	12070
60°	383850	1033	3066	9231	13330
65°	32764	0	3627	9699	14589
70°	2266	755	3726	11229	16516
75°	1996	998	4924	11911	18831
80°	1488	1488	7339	13290	22117
85°	2964	2964	11856	14623	23515

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1970300 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.5
10°-20°	20.0	1.2
20°-30°	93.7	5.5
30°-40°	451.0	26.6
40°-50°	706.9	41.8
50°-60°	362.4	21.4
60°-70°	34.2	2.0
70°-80°	11.5	0.7
80°-90°	5.8	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°	121.4	7.2
0°-40°	572.3	33.8
0°-60°	1641.5	97.0
0°-90°	1693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1693.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	86	86	86	86	86	
5°	98	94	83	74	73	9
15°	106	74	54	51	54	45
25°	1009	88	31	37	43	626
35°	6370	144	19	31	40	3867
45°	8090	79	13	30	40	5919
55°	4130	13	10	28	40	3438
65°	80	0	9	24	36	252
75°	3	2	7	18	28	4
85°	2	2	6	7	12	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°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
2.5°	93.9	93.9	93.9	93.9	93.9	93.9	92.4	92.4	93.9	92.4	92.4
5°	98.3	98.3	98.3	98.3	98.3	98.3	98.3	96.8	96.8	96.8	93.9
7.5°	99.8	98.3	98.3	98.3	98.3	98.3	98.3	98.3	96.8	96.8	92.4
10°	96.8	96.8	96.8	96.8	95.3	95.3	95.3	93.9	93.9	93.9	87.9
12.5°	96.8	96.8	96.8	96.8	95.3	95.3	93.9	93.9	92.4	90.9	80.4
15°	105.8	105.8	105.8	104.3	102.8	101.3	99.8	98.3	96.8	93.9	74.5
17.5°	154.9	150.5	149.0	143.0	135.6	128.1	122.2	116.2	110.2	105.8	71.5
20°	363.5	362.0	354.6	336.7	317.3	295.0	272.6	247.3	211.6	187.7	71.5
22.5°	630.2	621.2	607.8	594.4	560.2	519.9	478.2	430.6	384.4	335.2	76.0
25°	1008.6	1029.5	984.8	949.0	889.4	816.4	737.5	671.9	588.5	511.0	87.9
27.5°	1753.5	1766.9	1679.0	1562.8	1424.2	1270.8	1121.8	1010.1	870.0	741.9	110.2
30°	3074.9	3088.4	2940.9	2693.6	2407.5	2155.7	1814.6	1515.1	1239.5	1026.5	129.6
31°	3837.7	3733.4	3562.1	3322.3	2960.2	2580.3	2170.6	1808.6	1460.0	1179.9	135.6
32°	4500.7	4491.7	4292.1	3928.6	3565.1	3095.8	2587.8	2115.5	1687.9	1334.9	140.0
33°	5282.8	5223.2	4941.7	4599.0	4117.8	3645.5	2990.0	2450.7	1921.8	1507.7	143.0
34°	5910.0	5749.1	5632.9	5241.1	4733.1	4131.2	3429.5	2805.3	2213.8	1674.5	144.5
35°	6370.4	6336.1	6109.7	5744.7	5227.7	4612.4	3903.3	3173.3	2458.2	1868.2	144.5
36°	6857.6	6751.8	6531.3	6200.5	5697.0	5060.9	4265.3	3492.1	2742.7	2042.5	143.0
37°	7163.0	7100.4	6881.4	6540.2	6047.1	5439.3	4670.5	3828.8	2969.2	2216.8	140.0
38°	7477.3	7350.7	7134.7	6808.4	6324.2	5753.6	4964.0	4088.0	3177.7	2370.3	135.6
39°	7694.8	7563.7	7343.2	7018.4	6544.7	5978.6	5196.4	4308.5	3359.5	2485.0	129.6
40°	7858.7	7732.1	7508.6	7174.9	6707.1	6155.9	5390.1	4503.7	3511.5	2584.8	122.2
41°	7960.0	7842.3	7620.3	7288.1	6818.8	6257.2	5516.7	4630.3	3614.3	2651.8	114.7
42°	8044.9	7924.2	7697.8	7358.1	6887.3	6343.6	5594.2	4710.7	3684.3	2686.1	108.8
43°	8092.6	7971.9	7751.4	7404.3	6929.1	6383.8	5635.9	4748.0	3708.1	2681.6	98.3
44°	8119.4	7994.3	7772.3	7425.2	6946.9	6394.2	5638.9	4740.5	3691.7	2645.9	89.4
45°	8089.6	7966.0	7751.4	7404.3	6915.7	6361.4	5609.1	4700.3	3629.2	2575.9	79.0
46°	7895.9	7800.6	7603.9	7285.1	6817.3	6278.0	5533.1	4622.8	3532.3	2489.5	67.0
47°	7554.8	7478.8	7288.1	7051.2	6628.1	6124.6	5393.1	4475.4	3396.7	2359.8	53.6
48°	7198.7	7087.0	6909.7	6666.9	6309.3	5849.0	5162.2	4259.3	3191.2	2190.0	47.7
49°	6672.8	6607.3	6450.8	6179.7	5883.2	5478.0	4835.9	3982.2	2939.4	2005.3	41.7
50°	6190.1	6145.4	5926.4	5726.8	5412.4	5034.0	4393.4	3617.2	2626.5	1775.8	37.2
51°	5813.2	5759.6	5601.6	5352.9	5017.6	4578.2	3974.8	3143.5	2267.5	1503.2	29.8
52°	5419.9	5390.1	5250.1	4993.8	4664.6	4226.6	3568.1	2741.2	1918.9	1270.8	23.8
53°	5098.1	5054.9	4883.6	4655.6	4299.6	3846.7	3127.1	2367.3	1625.4	1068.2	20.9
54°	4628.8	4610.9	4500.7	4262.3	3876.5	3383.3	2727.8	1993.4	1355.7	905.8	17.9
55°	4129.7	4070.1	3958.4	3769.2	3414.6	2954.3	2266.0	1652.2	1096.5	762.8	13.4
56°	3521.9	3518.9	3319.3	3161.4	2847.0	2358.4	1810.1	1290.2	890.9	636.1	11.9
57°	2940.9	2847.0	2654.8	2498.4	2160.2	1789.3	1343.8	966.9	697.2	515.5	8.9
58°	2175.1	2125.9	2075.3	1845.9	1533.0	1267.8	959.4	679.3	515.5	393.3	6.0
59°	1476.4	1474.9	1415.3	1241.0	1060.7	789.6	598.9	461.8	354.6	289.0	4.5
60°	1114.4	1087.6	968.4	853.7	667.4	499.1	354.6	272.6	220.5	186.2	3.0
62.5°	390.3	405.2	356.1	295.0	225.0	184.7	141.5	114.7	93.9	76.0	0.0
65°	80.4	87.9	76.0	71.5	56.6	49.2	43.2	37.2	31.3	26.8	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°	10.4	8.9	8.9	8.9	7.4	7.4	7.4	7.4	6.0	6.0	1.5
70°	4.5	4.5	4.5	4.5	4.5	4.5	3.0	3.0	3.0	3.0	1.5
72.5°	4.5	4.5	4.5	3.0	3.0	3.0	3.0	3.0	3.0	1.5	1.5
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0
85°	1.5	1.5	1.5	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
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°	86.4	86.4	86.4	86.4	86.4	86.4
2.5°	90.9	87.9	83.4	81.9	80.4	80.4
5°	89.4	83.4	79.0	74.5	73.0	73.0
7.5°	84.9	77.5	71.5	68.5	67.0	65.6
10°	80.4	70.0	64.1	61.1	61.1	61.1
12.5°	71.5	62.6	56.6	55.1	56.6	56.6
15°	64.1	53.6	50.7	50.7	52.1	53.6
17.5°	55.1	47.7	44.7	46.2	47.7	49.2
20°	49.2	40.2	40.2	41.7	46.2	46.2
22.5°	43.2	35.8	35.8	40.2	43.2	44.7
25°	38.7	31.3	32.8	37.2	41.7	43.2
27.5°	32.8	26.8	29.8	35.8	40.2	41.7
30°	28.3	23.8	28.3	34.3	38.7	41.7
31°	26.8	22.3	28.3	32.8	38.7	41.7
32°	23.8	22.3	26.8	32.8	38.7	40.2
33°	22.3	20.9	26.8	32.8	38.7	40.2
34°	20.9	19.4	25.3	32.8	38.7	40.2
35°	17.9	19.4	25.3	31.3	37.2	40.2
36°	16.4	17.9	25.3	31.3	37.2	40.2
37°	14.9	17.9	23.8	31.3	37.2	40.2
38°	13.4	16.4	23.8	31.3	37.2	40.2
39°	11.9	16.4	22.3	31.3	37.2	40.2
40°	10.4	14.9	22.3	29.8	37.2	40.2
41°	10.4	14.9	22.3	29.8	37.2	40.2
42°	8.9	14.9	22.3	29.8	37.2	40.2
43°	7.4	13.4	22.3	29.8	37.2	40.2
44°	6.0	13.4	20.9	29.8	37.2	40.2
45°	6.0	13.4	20.9	29.8	37.2	40.2
46°	4.5	11.9	20.9	29.8	37.2	40.2
47°	3.0	11.9	20.9	28.3	37.2	40.2
48°	3.0	11.9	20.9	28.3	37.2	40.2
49°	3.0	11.9	19.4	28.3	37.2	40.2
50°	3.0	11.9	19.4	28.3	37.2	40.2
51°	1.5	10.4	19.4	28.3	37.2	40.2
52°	1.5	10.4	19.4	28.3	37.2	41.7
53°	1.5	10.4	19.4	28.3	37.2	40.2
54°	1.5	10.4	17.9	28.3	37.2	40.2
55°	1.5	10.4	17.9	28.3	37.2	40.2
56°	1.5	8.9	17.9	26.8	37.2	40.2
57°	3.0	8.9	17.9	26.8	37.2	38.7
58°	3.0	8.9	17.9	26.8	35.8	38.7
59°	3.0	8.9	17.9	26.8	35.8	38.7
60°	3.0	8.9	16.4	26.8	35.8	38.7
62.5°	3.0	8.9	16.4	25.3	34.3	37.2
65°	3.0	8.9	14.9	23.8	34.3	35.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	3.0	7.4	14.9	22.3	32.8	34.3
70°	4.5	7.4	13.4	22.3	31.3	32.8
72.5°	4.5	7.4	13.4	19.4	28.3	31.3
75°	4.5	7.4	11.9	17.9	26.8	28.3
77.5°	4.5	7.4	10.4	16.4	23.8	25.3
80°	6.0	7.4	8.9	13.4	20.9	22.3
82.5°	6.0	7.4	7.4	10.4	16.4	17.9
85°	4.5	6.0	6.0	7.4	10.4	11.9
87.5°	4.5	6.0	4.5	3.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)