

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: P1309406

Luminaire Tested: P3SQAS20R259035D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-49)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R259035D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

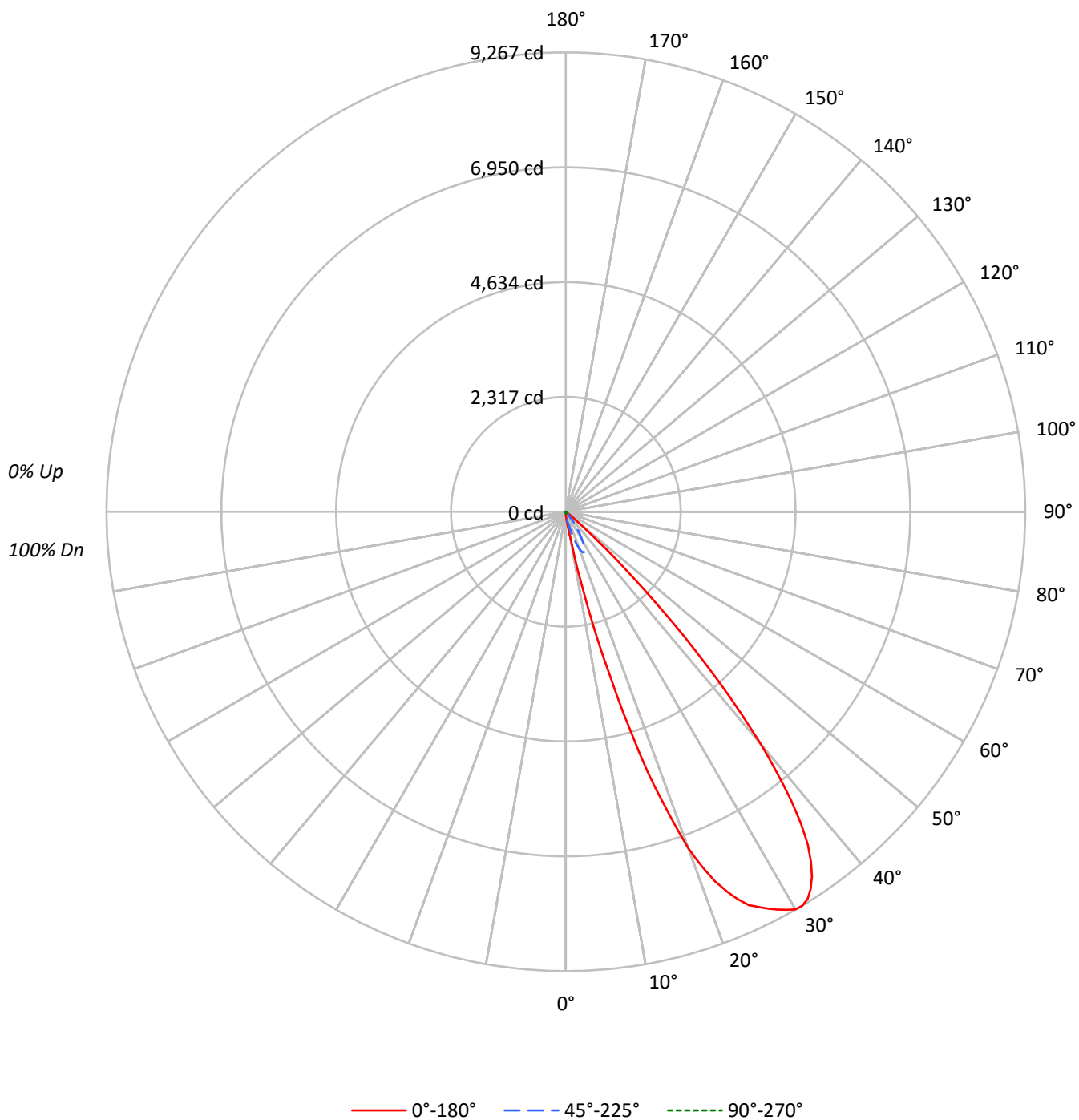
Lumens per Lamp: N/A
Luminaire Lumens: 1816.0 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	95	92	103	98	94	90	95	92	88		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	80	87	83	79		85	81	78		83	79	77	75
4	93	84	77	72	91	83	76	72	80	75	71		78	74	70		76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70	66	62	61
6	81	70	63	58	79	69	63	58	68	62	57		66	61	57		65	60	56	55
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	70	59	52	47	69	58	52	47	57	51	47		56	51	46		55	50	46	45
9	66	54	47	42	65	54	47	42	53	47	42		52	46	42		51	46	42	40
10	62	50	43	38	60	50	43	38	49	42	38		48	42	38		47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9886	9886	9886	9886	9886
5°	30980	21645	9024	4806	3613
10°	97635	39243	6698	612	0
15°	603806	74743	4030	0	0
20°	1323909	145686	1283	0	0
25°	1664196	167585	0	0	0
30°	1842271	129720	0	0	0
35°	1813468	73502	0	0	0
40°	1378443	19155	0	0	0
45°	558360	8476	0	0	0
50°	61972	938	0	0	0
55°	4714	0	510	0	0
60°	0	0	586	0	0
65°	0	0	1426	0	0
70°	0	856	1762	0	0
75°	0	1131	3460	0	0
80°	0	1686	5157	0	0
85°	0	3359	10275	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 558360 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.5
10°-20°	187.6	10.3
20°-30°	655.7	36.1
30°-40°	731.5	40.3
40°-50°	220.9	12.2
50°-60°	7.4	0.4
60°-70°	1.0	0.1
70°-80°	1.6	0.1
80°-90°	1.4	0.1
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°	852.2	46.9
0°-40°	1583.7	87.2
0°-60°	1812.0	99.8
0°-90°	1816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	57	57	57	57	57	
5°	179	125	52	28	21	28
15°	3386	419	23	0	0	1126
25°	8758	882	0	0	0	3995
35°	8626	350	0	0	0	5178
45°	2292	35	0	0	0	1980
55°	16	0	2	0	0	49
65°	0	0	4	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
2.5°	99.1	102.6	100.9	102.6	100.9	100.9	100.9	102.6	100.9	100.9	100.9
5°	179.2	180.9	180.9	179.2	179.2	182.6	179.2	180.9	175.7	179.2	177.4
7.5°	294.0	290.5	290.5	292.2	292.2	288.7	287.0	283.5	287.0	287.0	281.8
10°	558.3	554.9	546.2	542.7	546.2	546.2	528.8	532.2	534.0	518.3	513.1
12.5°	1640.2	1628.0	1652.4	1614.1	1591.5	1555.0	1575.9	1504.6	1488.9	1478.5	1454.1
15°	3386.5	3478.7	3438.7	3442.2	3449.2	3362.2	3391.8	3283.9	3193.5	3165.6	3146.5
17.5°	5522.5	5550.3	5513.8	5496.4	5489.4	5447.7	5397.3	5343.3	5273.8	5212.9	5162.4
20°	7223.6	7202.7	7140.1	7147.1	7072.3	7034.0	6990.5	6936.6	6882.7	6794.0	6708.7
21°	7672.4	7611.5	7613.2	7571.5	7569.7	7521.0	7444.5	7388.8	7340.1	7239.2	7185.3
22°	8041.1	8027.2	7995.9	7964.6	7931.5	7907.2	7821.9	7794.1	7695.0	7611.5	7534.9
23°	8328.1	8333.3	8305.5	8284.6	8239.4	8228.9	8119.4	8081.1	8013.3	7886.3	7808.0
24°	8566.4	8557.7	8526.4	8489.9	8463.8	8439.4	8355.9	8293.3	8218.5	8114.2	8037.6
25°	8757.7	8736.8	8716.0	8688.1	8646.4	8618.6	8533.3	8463.8	8399.4	8282.9	8178.5
26°	8870.8	8876.0	8842.9	8822.1	8785.5	8757.7	8669.0	8587.3	8507.2	8382.0	8288.1
27°	8985.6	8980.4	8950.8	8919.5	8881.2	8870.8	8768.2	8682.9	8601.2	8469.0	8357.7
28°	9091.7	9077.8	9053.4	9016.9	8975.1	8943.8	8844.7	8756.0	8667.3	8526.4	8404.6
29°	9180.4	9166.5	9150.8	9103.9	9049.9	9029.1	8923.0	8815.1	8726.4	8582.0	8453.3
30°	9263.9	9237.8	9201.3	9161.3	9109.1	9069.1	8957.7	8863.8	8759.5	8599.4	8475.9
31°	9267.4	9232.6	9206.5	9164.7	9105.6	9056.9	8940.4	8844.7	8722.9	8573.3	8439.4
32°	9206.5	9189.1	9147.3	9102.1	9044.7	8996.0	8867.3	8766.4	8651.6	8491.6	8357.7
33°	9069.1	9051.7	9027.3	8980.4	8905.6	8860.3	8745.5	8634.2	8521.2	8376.8	8223.7
34°	8879.5	8858.6	8827.3	8780.3	8703.8	8656.8	8564.6	8449.8	8329.8	8180.2	8037.6
35°	8625.5	8585.5	8576.8	8507.2	8435.9	8423.8	8314.2	8194.2	8072.4	7907.2	7783.7
36°	8310.7	8263.7	8232.4	8208.1	8161.1	8103.7	7995.9	7900.2	7743.7	7637.6	7463.6
37°	7881.1	7823.7	7853.2	7787.2	7714.1	7689.7	7552.3	7465.4	7333.2	7188.8	7041.0
38°	7380.1	7374.9	7368.0	7338.4	7213.2	7148.8	7091.4	6999.2	6884.4	6710.5	6510.5
39°	6747.0	6757.4	6720.9	6724.4	6661.8	6597.4	6517.4	6413.0	6273.9	6115.6	5953.9
40°	6131.3	5983.4	6009.5	5920.8	5926.0	5830.4	5726.0	5633.8	5545.1	5406.0	5185.1
42.5°	4242.3	4219.7	4141.4	4085.8	4110.1	3986.6	3849.2	3720.5	3597.0	3440.5	3247.4
45°	2292.5	2240.3	2256.0	2165.5	2165.5	2109.9	2071.6	1963.7	1848.9	1777.6	1666.3
47.5°	852.3	862.7	881.9	845.3	803.6	827.9	791.4	791.4	772.3	749.7	718.4
50°	231.3	234.8	231.3	231.3	226.1	222.6	215.7	213.9	212.2	207.0	198.3
52.5°	93.9	88.7	88.7	90.4	90.4	87.0	88.7	88.7	87.0	85.2	85.2
55°	15.7	17.4	17.4	17.4	17.4	15.7	15.7	17.4	19.1	17.4	17.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
2.5°	97.4	85.2	71.3	59.1	47.0	40.0	36.5	38.3
5°	165.2	125.2	81.8	52.2	36.5	27.8	22.6	20.9
7.5°	253.9	172.2	92.2	45.2	27.8	13.9	8.7	7.0
10°	389.6	224.4	99.1	38.3	17.4	3.5	0.0	0.0
12.5°	1000.1	274.8	100.9	31.3	7.0	0.0	0.0	0.0
15°	2055.9	419.2	97.4	22.6	1.7	0.0	0.0	0.0
17.5°	3417.9	641.8	85.2	15.7	0.0	0.0	0.0	0.0
20°	4741.5	794.9	67.8	7.0	0.0	0.0	0.0	0.0
21°	5139.8	840.1	60.9	5.2	0.0	0.0	0.0	0.0
22°	5465.1	873.2	53.9	3.5	0.0	0.0	0.0	0.0
23°	5736.4	890.6	47.0	1.7	0.0	0.0	0.0	0.0
24°	5926.0	894.0	43.5	1.7	0.0	0.0	0.0	0.0
25°	6016.5	881.9	38.3	0.0	0.0	0.0	0.0	0.0
26°	6051.3	857.5	34.8	0.0	0.0	0.0	0.0	0.0
27°	6025.2	826.2	31.3	0.0	0.0	0.0	0.0	0.0
28°	5978.2	779.2	26.1	0.0	0.0	0.0	0.0	0.0
29°	5886.0	716.6	22.6	0.0	0.0	0.0	0.0	0.0
30°	5797.3	652.3	19.1	0.0	0.0	0.0	0.0	0.0
31°	5696.4	594.9	15.7	0.0	0.0	0.0	0.0	0.0
32°	5572.9	528.8	12.2	0.0	0.0	0.0	0.0	0.0
33°	5367.7	467.9	8.7	0.0	0.0	0.0	0.0	0.0
34°	5080.7	410.5	7.0	0.0	0.0	0.0	0.0	0.0
35°	4696.3	349.6	5.2	0.0	0.0	0.0	0.0	0.0
36°	4275.4	285.3	3.5	0.0	0.0	0.0	0.0	0.0
37°	3760.5	207.0	3.5	0.0	0.0	0.0	0.0	0.0
38°	3223.0	130.5	1.7	0.0	0.0	0.0	0.0	0.0
39°	2673.4	99.1	1.7	0.0	0.0	0.0	0.0	0.0
40°	2170.7	85.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1161.9	57.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	685.3	34.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	382.7	13.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	137.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	53.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	19.1	0.0	0.0	1.7	0.0	0.0	0.0	0.0
57.5°	1.7	0.0	1.7	1.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.7	3.5	0.0	0.0	0.0	0.0
65°	0.0	0.0	3.5	3.5	1.7	0.0	0.0	0.0
67.5°	0.0	1.7	3.5	3.5	1.7	0.0	0.0	0.0
70°	0.0	1.7	3.5	3.5	1.7	0.0	0.0	0.0
72.5°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
75°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
77.5°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
80°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
85°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
87.5°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)