

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: P1318102

Luminaire Tested: P3SQAS17R209835DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R209835DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

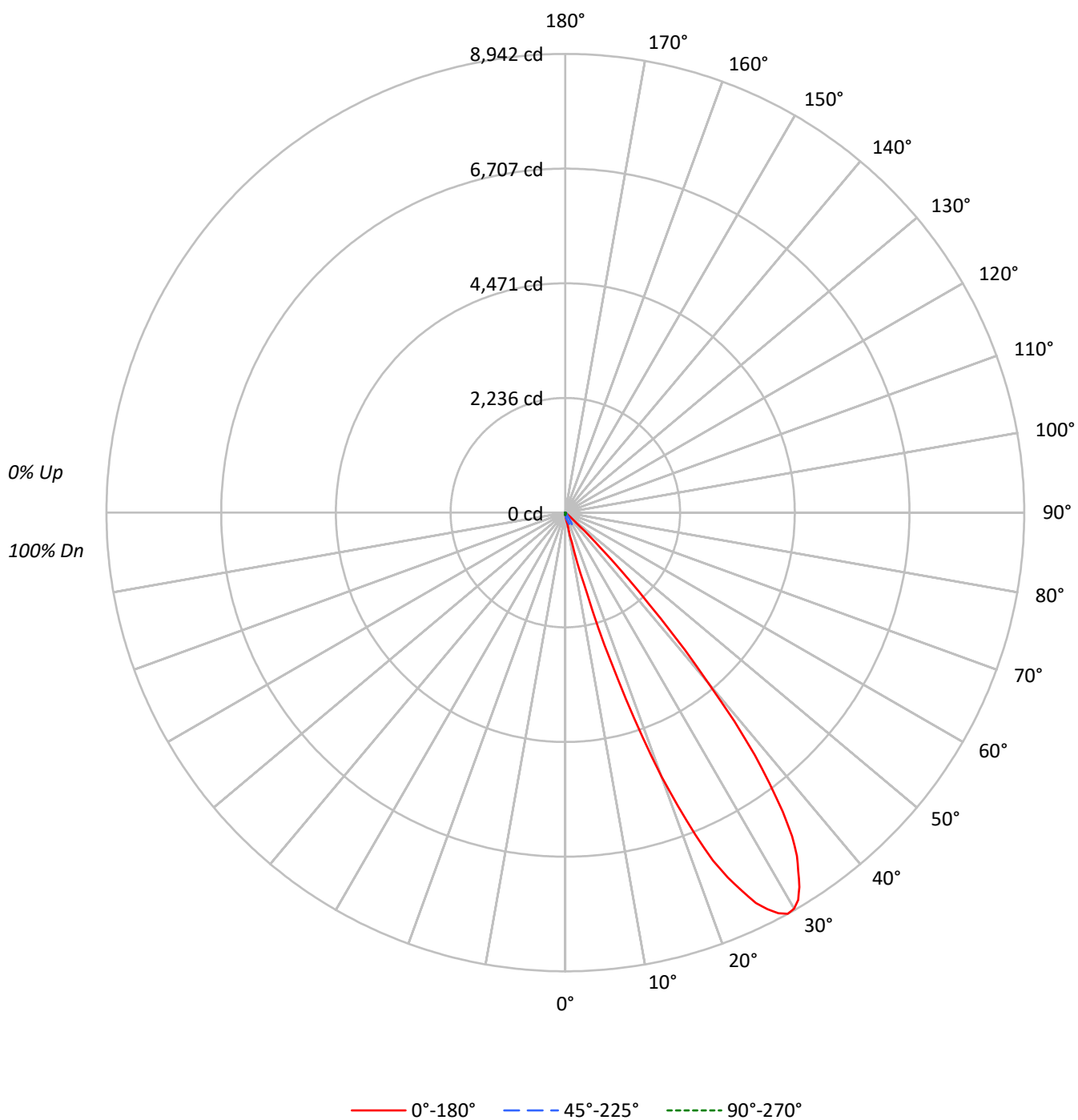
Lumens per Lamp: N/A
Luminaire Lumens: 1234.0 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7612	7612	7612	7612	7612
5°	16545	11669	7002	3181	2334
10°	41202	20601	4932	647	0
15°	289930	28225	2853	0	0
20°	1002041	47468	1118	0	0
25°	1544556	60638	475	0	0
30°	1772847	46853	0	0	0
35°	1619097	17808	0	0	0
40°	970663	8273	0	0	0
45°	238542	3897	0	0	0
50°	26311	991	0	0	0
55°	3693	0	360	0	0
60°	0	0	861	0	0
65°	0	0	1019	0	0
70°	0	604	1863	0	0
75°	0	799	2462	0	0
80°	0	1190	3670	0	0
85°	0	2371	7311	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 254374 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.4
10°-20°	96.4	7.8
20°-30°	487.5	39.5
30°-40°	527.4	42.7
40°-50°	111.4	9.0
50°-60°	3.3	0.3
60°-70°	0.8	0.1
70°-80°	1.1	0.1
80°-90°	1.0	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°	588.9	47.7
0°-40°	1116.3	90.5
0°-60°	1231.0	99.8
0°-90°	1234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1234.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	96	68	40	18	14	13
15°	1626	158	16	0	0	678
25°	8128	319	2	0	0	3674
35°	7701	85	0	0	0	4541
45°	979	16	0	0	0	1077
55°	12	0	1	0	0	22
65°	0	0	2	0	0	0
75°	0	1	4	0	0	0
85°	0	1	4	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°	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
2.5°	60.1	58.9	60.1	58.9	60.1	60.1	60.1	58.9	58.9	58.9	58.9
5°	95.7	95.7	94.5	95.7	95.7	95.7	95.7	94.5	94.5	93.3	93.3
7.5°	151.0	151.0	149.7	149.7	151.0	152.2	147.3	149.7	149.7	149.7	148.5
10°	235.6	240.5	235.6	241.8	236.9	233.2	239.3	233.2	233.2	232.0	228.3
12.5°	594.0	580.5	571.9	551.0	571.9	555.9	559.6	555.9	543.7	527.7	517.9
15°	1626.1	1626.1	1578.3	1642.1	1595.4	1612.6	1524.3	1525.5	1480.1	1431.0	1404.0
17.5°	3399.5	3430.2	3398.3	3378.6	3336.9	3276.8	3252.2	3189.6	3107.4	3011.7	3000.6
20°	5467.4	5338.6	5398.7	5343.5	5309.1	5235.5	5153.2	5101.7	5029.3	4907.8	4728.6
21°	6117.9	6113.0	6111.7	6110.5	6060.2	5939.9	5865.1	5762.0	5660.1	5534.9	5385.2
22°	6773.2	6796.5	6806.4	6735.2	6632.1	6578.1	6526.5	6385.4	6224.6	6159.6	5981.6
23°	7374.6	7352.5	7288.7	7255.5	7175.8	7159.8	7006.4	6916.8	6759.7	6688.5	6477.5
24°	7784.5	7773.4	7744.0	7694.9	7631.1	7532.9	7440.9	7299.7	7170.9	7054.3	6857.9
25°	8128.1	8137.9	8083.9	8050.8	7982.1	7871.6	7758.7	7604.1	7483.8	7347.6	7120.5
26°	8468.1	8399.3	8356.4	8307.3	8232.4	8106.0	7996.8	7858.1	7712.1	7559.9	7337.8
27°	8677.9	8616.6	8551.5	8503.7	8417.8	8297.5	8180.9	8027.5	7864.3	7710.9	7482.6
28°	8843.6	8776.1	8712.3	8654.6	8556.4	8427.6	8287.7	8131.8	7962.4	7804.1	7570.9
29°	8941.8	8862.0	8793.3	8728.2	8638.7	8498.8	8357.6	8190.7	8027.5	7861.8	7623.7
30°	8914.8	8846.1	8779.8	8713.5	8622.7	8491.4	8351.5	8191.9	8027.5	7864.3	7622.5
31°	8809.2	8724.6	8676.7	8610.4	8531.9	8398.1	8277.8	8103.6	7955.1	7778.4	7536.6
32°	8606.7	8552.7	8488.9	8437.4	8361.3	8218.9	8101.1	7958.8	7783.3	7638.4	7384.4
33°	8331.8	8281.5	8249.6	8189.5	8115.8	8017.7	7876.5	7746.4	7548.9	7400.4	7146.3
34°	8069.2	8005.4	7925.6	7908.4	7844.6	7718.2	7590.6	7458.0	7281.3	7092.3	6835.8
35°	7701.0	7634.8	7561.1	7567.3	7491.2	7343.9	7213.8	7065.3	6897.2	6675.0	6432.1
36°	7208.9	7164.7	7153.7	7124.2	7037.1	6861.6	6737.6	6551.1	6410.0	6138.7	5930.1
37°	6608.8	6624.7	6545.0	6506.9	6405.1	6282.3	6212.4	5973.1	5808.6	5604.9	5322.6
38°	6002.5	5979.2	5884.7	5908.0	5768.1	5640.5	5442.9	5300.5	5116.4	4927.4	4701.6
39°	5245.3	5187.6	5074.7	5079.6	4974.1	4830.5	4639.0	4470.9	4360.4	4178.8	3962.8
40°	4317.5	4292.9	4253.7	4188.6	4049.9	3987.4	3816.8	3635.1	3541.9	3290.3	3184.7
42.5°	2395.6	2362.5	2296.2	2272.9	2199.2	2125.6	2026.2	1904.7	1845.8	1770.9	1604.0
45°	979.4	1044.4	1028.4	1010.0	953.6	957.3	886.1	894.7	829.6	785.4	754.8
47.5°	216.0	234.4	235.6	227.0	235.6	228.3	224.6	218.5	219.7	223.4	214.8
50°	98.2	97.0	99.4	98.2	97.0	95.7	94.5	90.8	93.3	90.8	88.4
52.5°	38.0	39.3	39.3	36.8	38.0	38.0	38.0	36.8	36.8	36.8	36.8
55°	12.3	12.3	12.3	11.0	11.0	12.3	12.3	12.3	12.3	12.3	11.0
57.5°	1.2	2.5	1.2	2.5	1.2	1.2	1.2	1.2	1.2	2.5	2.5
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°	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
2.5°	56.5	51.5	47.9	44.2	36.8	30.7	28.2	28.2
5°	87.1	67.5	50.3	40.5	28.2	18.4	14.7	13.5
7.5°	131.3	90.8	52.8	34.4	18.4	9.8	6.1	4.9
10°	190.2	117.8	55.2	28.2	11.0	3.7	0.0	0.0
12.5°	332.6	141.1	55.2	22.1	4.9	0.0	0.0	0.0
15°	762.1	158.3	52.8	16.0	1.2	0.0	0.0	0.0
17.5°	1583.2	198.8	46.6	11.0	0.0	0.0	0.0	0.0
20°	2528.1	259.0	36.8	6.1	0.0	0.0	0.0	0.0
21°	2917.2	279.8	33.1	4.9	0.0	0.0	0.0	0.0
22°	3197.0	299.5	29.5	3.7	0.0	0.0	0.0	0.0
23°	3505.0	311.7	25.8	2.5	0.0	0.0	0.0	0.0
24°	3732.1	319.1	22.1	2.5	0.0	0.0	0.0	0.0
25°	3873.2	319.1	19.6	2.5	0.0	0.0	0.0	0.0
26°	3956.7	311.7	17.2	1.2	0.0	0.0	0.0	0.0
27°	3976.3	299.5	14.7	1.2	0.0	0.0	0.0	0.0
28°	3951.8	283.5	12.3	0.0	0.0	0.0	0.0	0.0
29°	3874.4	260.2	11.0	0.0	0.0	0.0	0.0	0.0
30°	3791.0	235.6	8.6	0.0	0.0	0.0	0.0	0.0
31°	3648.6	202.5	7.4	0.0	0.0	0.0	0.0	0.0
32°	3484.2	168.1	6.1	0.0	0.0	0.0	0.0	0.0
33°	3264.5	132.5	4.9	0.0	0.0	0.0	0.0	0.0
34°	2940.5	104.3	4.9	0.0	0.0	0.0	0.0	0.0
35°	2649.6	84.7	3.7	0.0	0.0	0.0	0.0	0.0
36°	2269.2	67.5	3.7	0.0	0.0	0.0	0.0	0.0
37°	1944.0	56.5	3.7	0.0	0.0	0.0	0.0	0.0
38°	1627.3	47.9	2.5	0.0	0.0	0.0	0.0	0.0
39°	1320.5	41.7	2.5	0.0	0.0	0.0	0.0	0.0
40°	1053.0	36.8	2.5	0.0	0.0	0.0	0.0	0.0
42.5°	568.2	24.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	314.2	16.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	138.7	8.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	46.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	23.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
57.5°	2.5	0.0	0.0	1.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.2	2.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.2	2.5	1.2	0.0	0.0	0.0
65°	0.0	0.0	2.5	2.5	1.2	0.0	0.0	0.0
67.5°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
70°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
72.5°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
75°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
77.5°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
80°	0.0	1.2	2.5	3.7	1.2	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	1.2	2.5	3.7	1.2	0.0	0.0	0.0
85°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
87.5°	0.0	1.2	2.5	3.7	1.2	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)