

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: P1316350

Luminaire Tested: P3SQAS17R209827DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316350
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: P3SQAS17R209827DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

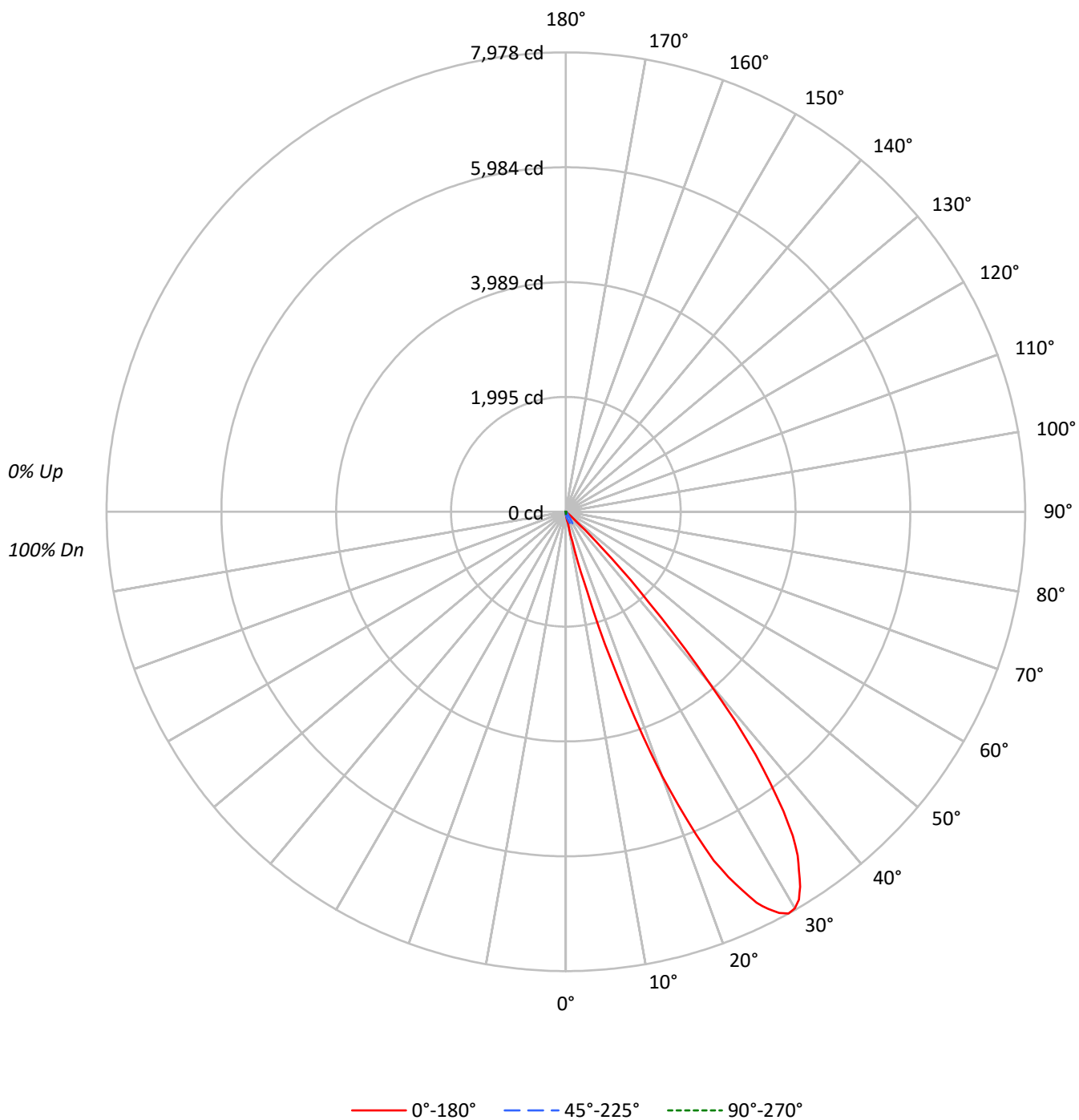
Lumens per Lamp: N/A
Luminaire Lumens: 1101.0 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	6786	6786	6786	6786	6786
5°	14764	10407	6241	2835	2075
10°	36760	18380	4407	577	0
15°	258693	25194	2532	0	0
20°	894055	42337	1008	0	0
25°	1378092	54101	418	0	0
30°	1581777	41802	0	0	0
35°	1444594	15895	0	0	0
40°	866054	7374	0	0	0
45°	212822	3459	0	0	0
50°	23471	884	0	0	0
55°	3273	0	330	0	0
60°	0	0	758	0	0
65°	0	0	897	0	0
70°	0	554	1662	0	0
75°	0	732	2196	0	0
80°	0	1091	3273	0	0
85°	0	2174	6521	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 226949 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.4
10°-20°	86.0	7.8
20°-30°	434.9	39.5
30°-40°	470.6	42.7
40°-50°	99.4	9.0
50°-60°	3.0	0.3
60°-70°	0.7	0.1
70°-80°	1.0	0.1
80°-90°	0.9	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°	525.4	47.7
0°-40°	996.0	90.5
0°-60°	1098.4	99.8
0°-90°	1101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1101.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	39	39	39	39	39	
5°	85	60	36	16	12	12
15°	1451	141	14	0	0	605
25°	7252	285	2	0	0	3278
35°	6871	76	0	0	0	4052
45°	874	14	0	0	0	961
55°	11	0	1	0	0	19
65°	0	0	2	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	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°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
2.5°	53.7	52.6	53.7	52.6	53.7	53.7	53.7	52.6	52.6	52.6	52.6
5°	85.4	85.4	84.3	85.4	85.4	85.4	85.4	84.3	84.3	83.2	83.2
7.5°	134.7	134.7	133.6	133.6	134.7	135.8	131.4	133.6	133.6	133.6	132.5
10°	210.2	214.6	210.2	215.7	211.3	208.0	213.5	208.0	208.0	207.0	203.7
12.5°	530.0	517.9	510.3	491.6	510.3	496.0	499.3	496.0	485.1	470.8	462.1
15°	1450.9	1450.9	1408.1	1465.1	1423.5	1438.8	1360.0	1361.1	1320.5	1276.8	1252.7
17.5°	3033.1	3060.5	3032.0	3014.5	2977.3	2923.6	2901.7	2845.9	2772.5	2687.1	2677.2
20°	4878.2	4763.2	4816.8	4767.6	4736.9	4671.2	4597.8	4551.8	4487.2	4378.8	4219.0
21°	5458.5	5454.1	5453.0	5451.9	5407.0	5299.7	5232.9	5140.9	5050.1	4938.4	4804.8
22°	6043.2	6064.0	6072.8	6009.3	5917.3	5869.1	5823.1	5697.2	5553.8	5495.7	5336.9
23°	6579.8	6560.0	6503.1	6473.5	6402.4	6388.1	6251.3	6171.3	6031.2	5967.7	5779.3
24°	6945.5	6935.6	6909.3	6865.5	6808.6	6721.0	6638.9	6513.0	6398.0	6294.0	6118.8
25°	7252.1	7260.8	7212.7	7183.1	7121.8	7023.2	6922.5	6784.5	6677.2	6555.7	6353.1
26°	7555.4	7494.1	7455.7	7411.9	7345.1	7232.4	7134.9	7011.2	6880.9	6745.1	6546.9
27°	7742.6	7687.9	7629.8	7587.1	7510.5	7403.2	7299.2	7162.3	7016.7	6879.8	6676.1
28°	7890.4	7830.2	7773.3	7721.8	7634.2	7519.2	7394.4	7255.4	7104.3	6963.0	6755.0
29°	7978.0	7906.9	7845.6	7787.5	7707.6	7582.8	7456.8	7307.9	7162.3	7014.5	6802.0
30°	7954.0	7892.6	7833.5	7774.4	7693.4	7576.2	7451.4	7309.0	7162.3	7016.7	6800.9
31°	7859.8	7784.2	7741.5	7682.4	7612.3	7493.0	7385.7	7230.2	7097.7	6940.0	6724.3
32°	7679.1	7630.9	7574.0	7528.0	7460.1	7333.1	7228.0	7101.0	6944.4	6815.2	6588.5
33°	7433.8	7388.9	7360.5	7306.8	7241.1	7153.5	7027.6	6911.5	6735.2	6602.7	6376.1
34°	7199.5	7142.6	7071.4	7056.1	6999.1	6886.3	6772.5	6654.2	6496.5	6327.9	6099.1
35°	6871.0	6811.9	6746.2	6751.7	6683.8	6552.4	6436.3	6303.8	6153.8	5955.6	5738.8
36°	6431.9	6392.5	6382.7	6356.4	6278.6	6122.1	6011.5	5845.0	5719.1	5477.1	5291.0
37°	5896.5	5910.7	5839.5	5805.6	5714.7	5605.2	5542.8	5329.3	5182.6	5000.8	4748.9
38°	5355.6	5334.8	5250.4	5271.2	5146.4	5032.5	4856.3	4729.2	4565.0	4396.4	4194.9
39°	4680.0	4628.5	4527.8	4532.1	4438.0	4309.9	4139.0	3989.0	3890.5	3728.4	3535.7
40°	3852.2	3830.3	3795.2	3737.2	3613.4	3557.6	3405.4	3243.3	3160.1	2935.7	2841.5
42.5°	2137.4	2107.8	2048.7	2027.9	1962.2	1896.5	1807.8	1699.4	1646.9	1580.1	1431.1
45°	873.8	931.8	917.6	901.2	850.8	854.1	790.6	798.2	740.2	700.8	673.4
47.5°	192.7	209.1	210.2	202.6	210.2	203.7	200.4	194.9	196.0	199.3	191.6
50°	87.6	86.5	88.7	87.6	86.5	85.4	84.3	81.0	83.2	81.0	78.8
52.5°	33.9	35.0	35.0	32.8	33.9	33.9	33.9	32.8	32.8	32.8	32.8
55°	10.9	10.9	10.9	9.9	9.9	10.9	10.9	10.9	10.9	10.9	9.9
57.5°	1.1	2.2	1.1	2.2	1.1	1.1	1.1	1.1	1.1	2.2	2.2
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°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
2.5°	50.4	46.0	42.7	39.4	32.8	27.4	25.2	25.2
5°	77.7	60.2	44.9	36.1	25.2	16.4	13.1	12.0
7.5°	117.2	81.0	47.1	30.7	16.4	8.8	5.5	4.4
10°	169.7	105.1	49.3	25.2	9.9	3.3	0.0	0.0
12.5°	296.7	125.9	49.3	19.7	4.4	0.0	0.0	0.0
15°	680.0	141.3	47.1	14.2	1.1	0.0	0.0	0.0
17.5°	1412.5	177.4	41.6	9.9	0.0	0.0	0.0	0.0
20°	2255.7	231.0	32.8	5.5	0.0	0.0	0.0	0.0
21°	2602.8	249.7	29.6	4.4	0.0	0.0	0.0	0.0
22°	2852.4	267.2	26.3	3.3	0.0	0.0	0.0	0.0
23°	3127.3	278.1	23.0	2.2	0.0	0.0	0.0	0.0
24°	3329.8	284.7	19.7	2.2	0.0	0.0	0.0	0.0
25°	3455.8	284.7	17.5	2.2	0.0	0.0	0.0	0.0
26°	3530.2	278.1	15.3	1.1	0.0	0.0	0.0	0.0
27°	3547.7	267.2	13.1	1.1	0.0	0.0	0.0	0.0
28°	3525.8	252.9	10.9	0.0	0.0	0.0	0.0	0.0
29°	3456.9	232.1	9.9	0.0	0.0	0.0	0.0	0.0
30°	3382.4	210.2	7.7	0.0	0.0	0.0	0.0	0.0
31°	3255.4	180.7	6.6	0.0	0.0	0.0	0.0	0.0
32°	3108.7	150.0	5.5	0.0	0.0	0.0	0.0	0.0
33°	2912.7	118.3	4.4	0.0	0.0	0.0	0.0	0.0
34°	2623.6	93.1	4.4	0.0	0.0	0.0	0.0	0.0
35°	2364.1	75.6	3.3	0.0	0.0	0.0	0.0	0.0
36°	2024.6	60.2	3.3	0.0	0.0	0.0	0.0	0.0
37°	1734.5	50.4	3.3	0.0	0.0	0.0	0.0	0.0
38°	1451.9	42.7	2.2	0.0	0.0	0.0	0.0	0.0
39°	1178.2	37.2	2.2	0.0	0.0	0.0	0.0	0.0
40°	939.5	32.8	2.2	0.0	0.0	0.0	0.0	0.0
42.5°	507.0	21.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	280.3	14.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	123.7	7.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	41.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9.9	0.0	0.0	1.1	0.0	0.0	0.0	0.0
57.5°	2.2	0.0	0.0	1.1	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.1	2.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.1	2.2	1.1	0.0	0.0	0.0
65°	0.0	0.0	2.2	2.2	1.1	0.0	0.0	0.0
67.5°	0.0	1.1	2.2	3.3	1.1	0.0	0.0	0.0
70°	0.0	1.1	2.2	3.3	1.1	0.0	0.0	0.0
72.5°	0.0	1.1	2.2	3.3	1.1	0.0	0.0	0.0
75°	0.0	1.1	2.2	3.3	1.1	0.0	0.0	0.0
77.5°	0.0	1.1	2.2	3.3	1.1	0.0	0.0	0.0
80°	0.0	1.1	2.2	3.3	1.1	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	1.1	2.2	3.3	1.1	0.0	0.0	0.0
85°	0.0	1.1	2.2	3.3	1.1	0.0	0.0	0.0
87.5°	0.0	1.1	2.2	3.3	1.1	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)