

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: P1315317

Luminaire Tested: P3SQAS13R209740DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315317
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: P3SQAS13R209740DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

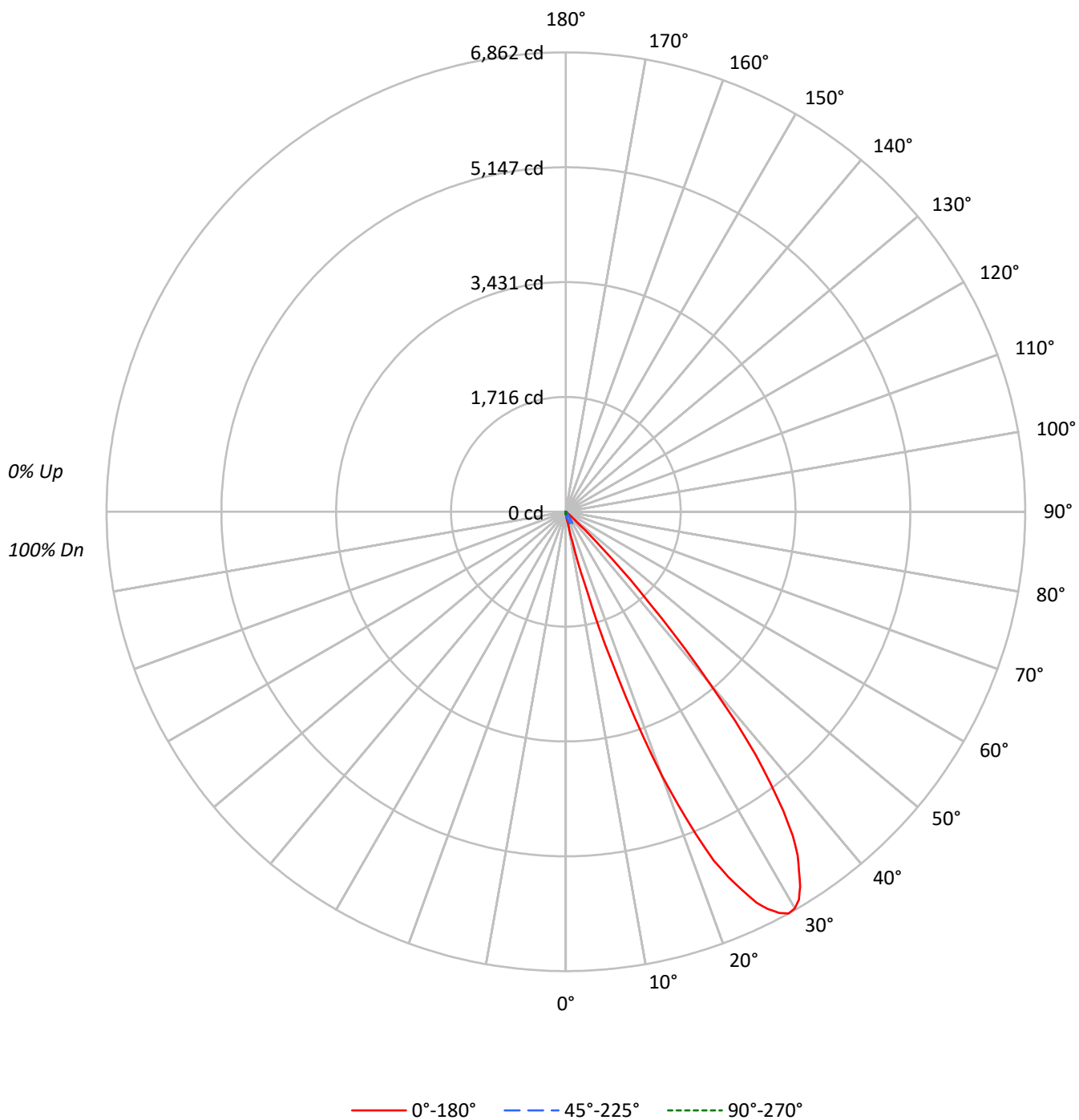
Lumens per Lamp: N/A
Luminaire Lumens: 947.0 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	50	30	10
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	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50		
8	71	59	52	47	69	59	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°	5838	5838	5838	5838	5838
5°	12707	8955	5377	2438	1798
10°	31618	15809	3795	490	0
15°	222498	21663	2175	0	0
20°	768987	36417	861	0	0
25°	1185329	46538	361	0	0
30°	1360519	35955	0	0	0
35°	1242548	13666	0	0	0
40°	744898	6362	0	0	0
45°	183059	2971	0	0	0
50°	20175	750	0	0	0
55°	2822	0	270	0	0
60°	0	0	654	0	0
65°	0	0	774	0	0
70°	0	453	1410	0	0
75°	0	599	1863	0	0
80°	0	893	2777	0	0
85°	0	1778	5533	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 195213 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.4
10°-20°	74.0	7.8
20°-30°	374.1	39.5
30°-40°	404.8	42.7
40°-50°	85.5	9.0
50°-60°	2.6	0.3
60°-70°	0.6	0.1
70°-80°	0.9	0.1
80°-90°	0.8	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°	451.9	47.7
0°-40°	856.7	90.5
0°-60°	944.7	99.8
0°-90°	947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	947.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	74	52	31	14	10	10
15°	1248	122	12	0	0	520
25°	6238	245	2	0	0	2819
35°	5910	65	0	0	0	3485
45°	752	12	0	0	0	827
55°	9	0	1	0	0	17
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°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
2.5°	46.1	45.2	46.1	45.2	46.1	46.1	46.1	45.2	45.2	45.2	45.2
5°	73.5	73.5	72.5	73.5	73.5	73.5	73.5	72.5	72.5	71.6	71.6
7.5°	115.8	115.8	114.9	114.9	115.8	116.8	113.0	114.9	114.9	114.9	114.0
10°	180.8	184.6	180.8	185.5	181.8	178.9	183.7	178.9	178.9	178.0	175.2
12.5°	455.8	445.5	438.9	422.9	438.9	426.6	429.5	426.6	417.2	405.0	397.5
15°	1247.9	1247.9	1211.2	1260.2	1224.4	1237.6	1169.7	1170.7	1135.8	1098.2	1077.4
17.5°	2608.9	2632.4	2607.9	2592.8	2560.8	2514.7	2495.8	2447.8	2384.7	2311.2	2302.8
20°	4195.8	4096.9	4143.1	4100.7	4074.3	4017.8	3954.7	3915.2	3859.6	3766.4	3628.9
21°	4695.0	4691.2	4690.3	4689.3	4650.7	4558.4	4501.0	4421.9	4343.7	4247.6	4132.7
22°	5197.9	5215.8	5223.4	5168.7	5089.6	5048.2	5008.6	4900.3	4776.9	4727.0	4590.5
23°	5659.4	5642.5	5593.5	5568.1	5506.8	5494.6	5376.9	5308.1	5187.6	5132.9	4971.0
24°	5974.0	5965.5	5942.9	5905.2	5856.3	5780.9	5710.3	5602.0	5503.1	5413.6	5262.9
25°	6237.7	6245.2	6203.8	6178.4	6125.6	6040.9	5954.2	5835.5	5743.2	5638.7	5464.5
26°	6498.6	6445.8	6412.9	6375.2	6317.8	6220.8	6136.9	6030.5	5918.4	5801.6	5631.2
27°	6659.6	6612.6	6562.6	6525.9	6460.0	6367.7	6278.2	6160.5	6035.2	5917.5	5742.3
28°	6786.8	6735.0	6686.0	6641.7	6566.4	6467.5	6360.1	6240.5	6110.6	5989.1	5810.1
29°	6862.1	6800.9	6748.2	6698.3	6629.5	6522.1	6413.8	6285.7	6160.5	6033.3	5850.6
30°	6841.4	6788.7	6737.8	6687.0	6617.3	6516.5	6409.1	6286.7	6160.5	6035.2	5849.7
31°	6760.4	6695.4	6658.7	6607.8	6547.6	6444.9	6352.6	6218.9	6104.9	5969.3	5783.7
32°	6605.0	6563.6	6514.6	6475.0	6416.7	6307.4	6217.0	6107.7	5973.1	5861.9	5667.0
33°	6394.0	6355.4	6330.9	6284.8	6228.3	6152.9	6044.6	5944.8	5793.2	5679.2	5484.2
34°	6192.5	6143.5	6082.3	6069.1	6020.1	5923.1	5825.2	5723.5	5587.8	5442.8	5246.0
35°	5910.0	5859.1	5802.6	5807.3	5748.9	5635.9	5536.0	5422.1	5293.1	5122.6	4936.1
36°	5532.3	5498.4	5489.9	5467.3	5400.4	5265.7	5170.6	5027.5	4919.2	4711.0	4550.9
37°	5071.7	5084.0	5022.8	4993.6	4915.4	4821.2	4767.5	4583.9	4457.7	4301.3	4084.7
38°	4606.5	4588.6	4516.0	4533.9	4426.6	4328.6	4177.0	4067.7	3926.5	3781.4	3608.1
39°	4025.4	3981.1	3894.4	3898.2	3817.2	3707.0	3560.1	3431.1	3346.3	3206.9	3041.2
40°	3313.3	3294.5	3264.4	3214.4	3108.0	3060.0	2929.1	2789.7	2718.1	2525.0	2444.0
42.5°	1838.4	1813.0	1762.2	1744.3	1687.8	1631.2	1555.0	1461.7	1416.5	1359.1	1231.0
45°	751.6	801.5	789.2	775.1	731.8	734.6	680.0	686.6	636.7	602.8	579.2
47.5°	165.8	179.9	180.8	174.2	180.8	175.2	172.4	167.6	168.6	171.4	164.8
50°	75.3	74.4	76.3	75.3	74.4	73.5	72.5	69.7	71.6	69.7	67.8
52.5°	29.2	30.1	30.1	28.3	29.2	29.2	29.2	28.3	28.3	28.3	28.3
55°	9.4	9.4	9.4	8.5	8.5	9.4	9.4	9.4	9.4	9.4	8.5
57.5°	0.9	1.9	0.9	1.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9
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°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
2.5°	43.3	39.6	36.7	33.9	28.3	23.5	21.7	21.7
5°	66.9	51.8	38.6	31.1	21.7	14.1	11.3	10.4
7.5°	100.8	69.7	40.5	26.4	14.1	7.5	4.7	3.8
10°	146.0	90.4	42.4	21.7	8.5	2.8	0.0	0.0
12.5°	255.2	108.3	42.4	17.0	3.8	0.0	0.0	0.0
15°	584.9	121.5	40.5	12.2	0.9	0.0	0.0	0.0
17.5°	1215.0	152.6	35.8	8.5	0.0	0.0	0.0	0.0
20°	1940.2	198.7	28.3	4.7	0.0	0.0	0.0	0.0
21°	2238.7	214.7	25.4	3.8	0.0	0.0	0.0	0.0
22°	2453.5	229.8	22.6	2.8	0.0	0.0	0.0	0.0
23°	2689.9	239.2	19.8	1.9	0.0	0.0	0.0	0.0
24°	2864.1	244.9	17.0	1.9	0.0	0.0	0.0	0.0
25°	2972.4	244.9	15.1	1.9	0.0	0.0	0.0	0.0
26°	3036.4	239.2	13.2	0.9	0.0	0.0	0.0	0.0
27°	3051.5	229.8	11.3	0.9	0.0	0.0	0.0	0.0
28°	3032.7	217.6	9.4	0.0	0.0	0.0	0.0	0.0
29°	2973.3	199.7	8.5	0.0	0.0	0.0	0.0	0.0
30°	2909.3	180.8	6.6	0.0	0.0	0.0	0.0	0.0
31°	2800.0	155.4	5.7	0.0	0.0	0.0	0.0	0.0
32°	2673.8	129.0	4.7	0.0	0.0	0.0	0.0	0.0
33°	2505.3	101.7	3.8	0.0	0.0	0.0	0.0	0.0
34°	2256.6	80.1	3.8	0.0	0.0	0.0	0.0	0.0
35°	2033.4	65.0	2.8	0.0	0.0	0.0	0.0	0.0
36°	1741.4	51.8	2.8	0.0	0.0	0.0	0.0	0.0
37°	1491.9	43.3	2.8	0.0	0.0	0.0	0.0	0.0
38°	1248.9	36.7	1.9	0.0	0.0	0.0	0.0	0.0
39°	1013.4	32.0	1.9	0.0	0.0	0.0	0.0	0.0
40°	808.1	28.3	1.9	0.0	0.0	0.0	0.0	0.0
42.5°	436.1	18.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	241.1	12.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	106.4	6.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	35.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8.5	0.0	0.0	0.9	0.0	0.0	0.0	0.0
57.5°	1.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.9	1.9	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.9	1.9	0.9	0.0	0.0	0.0
65°	0.0	0.0	1.9	1.9	0.9	0.0	0.0	0.0
67.5°	0.0	0.9	1.9	2.8	0.9	0.0	0.0	0.0
70°	0.0	0.9	1.9	2.8	0.9	0.0	0.0	0.0
72.5°	0.0	0.9	1.9	2.8	0.9	0.0	0.0	0.0
75°	0.0	0.9	1.9	2.8	0.9	0.0	0.0	0.0
77.5°	0.0	0.9	1.9	2.8	0.9	0.0	0.0	0.0
80°	0.0	0.9	1.9	2.8	0.9	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	0.9	1.9	2.8	0.9	0.0	0.0	0.0
85°	0.0	0.9	1.9	2.8	0.9	0.0	0.0	0.0
87.5°	0.0	0.9	1.9	2.8	0.9	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)