

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: P1309089

Luminaire Tested: P3SQAS13R209035DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309089
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: P3SQAS13R209035DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

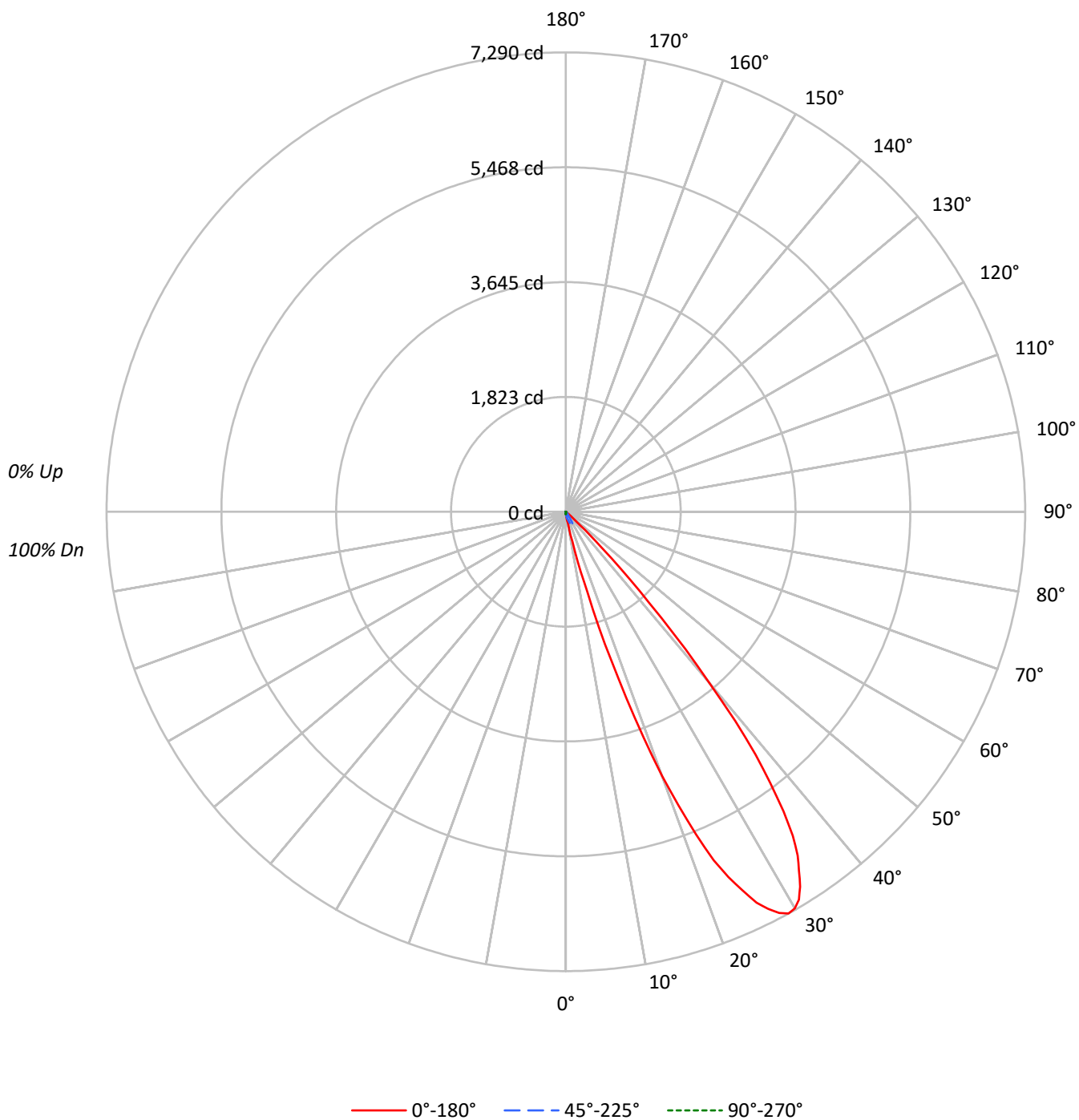
Lumens per Lamp: N/A
Luminaire Lumens: 1006.0 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	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°	6200	6200	6200	6200	6200
5°	13485	9508	5705	2593	1902
10°	33594	16788	4022	525	0
15°	236370	23018	2318	0	0
20°	816896	38689	916	0	0
25°	1259174	49426	380	0	0
30°	1445275	38202	0	0	0
35°	1319960	14507	0	0	0
40°	791324	6745	0	0	0
45°	194458	3166	0	0	0
50°	21434	804	0	0	0
55°	3003	0	300	0	0
60°	0	0	689	0	0
65°	0	0	815	0	0
70°	0	504	1511	0	0
75°	0	665	1996	0	0
80°	0	992	2975	0	0
85°	0	1976	5928	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 207367 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.4
10°-20°	78.6	7.8
20°-30°	397.4	39.5
30°-40°	430.0	42.7
40°-50°	90.8	9.0
50°-60°	2.7	0.3
60°-70°	0.7	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°	480.1	47.7
0°-40°	910.0	90.5
0°-60°	1003.6	99.8
0°-90°	1006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1006.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	78	55	33	15	11	11
15°	1326	129	13	0	0	553
25°	6626	260	2	0	0	2995
35°	6278	69	0	0	0	3702
45°	798	13	0	0	0	878
55°	10	0	1	0	0	18
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°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
2.5°	49.0	48.0	49.0	48.0	49.0	49.0	49.0	48.0	48.0	48.0	48.0
5°	78.0	78.0	77.0	78.0	78.0	78.0	78.0	77.0	77.0	76.0	76.0
7.5°	123.1	123.1	122.1	122.1	123.1	124.1	120.1	122.1	122.1	122.1	121.1
10°	192.1	196.1	192.1	197.1	193.1	190.1	195.1	190.1	190.1	189.1	186.1
12.5°	484.2	473.2	466.2	449.2	466.2	453.2	456.2	453.2	443.2	430.2	422.2
15°	1325.7	1325.7	1286.6	1338.7	1300.7	1314.7	1242.6	1243.6	1206.6	1166.6	1144.6
17.5°	2771.4	2796.4	2770.4	2754.4	2720.4	2671.3	2651.3	2600.3	2533.3	2455.2	2446.2
20°	4457.2	4352.2	4401.2	4356.2	4328.2	4268.1	4201.1	4159.1	4100.1	4001.0	3854.9
21°	4987.5	4983.5	4982.5	4981.5	4940.5	4842.4	4781.4	4697.4	4614.3	4512.3	4390.2
22°	5521.8	5540.8	5548.8	5490.8	5406.7	5362.7	5320.7	5205.6	5074.5	5021.5	4876.4
23°	6012.0	5994.0	5942.0	5915.0	5849.9	5836.9	5711.9	5638.8	5510.8	5452.7	5280.7
24°	6346.2	6337.2	6313.2	6273.1	6221.1	6141.1	6066.0	5951.0	5845.9	5750.9	5590.8
25°	6626.3	6634.3	6590.3	6563.3	6507.3	6417.2	6325.2	6199.1	6101.1	5990.0	5804.9
26°	6903.5	6847.4	6812.4	6772.4	6711.4	6608.3	6519.3	6406.2	6287.2	6163.1	5982.0
27°	7074.6	7024.5	6971.5	6932.5	6862.4	6764.4	6669.3	6544.3	6411.2	6286.2	6100.1
28°	7209.6	7154.6	7102.6	7055.5	6975.5	6870.4	6756.4	6629.3	6491.3	6362.2	6172.1
29°	7289.7	7224.6	7168.6	7115.6	7042.5	6928.5	6813.4	6677.4	6544.3	6409.2	6215.1
30°	7267.6	7211.6	7157.6	7103.6	7029.5	6922.5	6808.4	6678.4	6544.3	6411.2	6214.1
31°	7181.6	7112.6	7073.6	7019.5	6955.5	6846.4	6748.4	6606.3	6485.3	6341.2	6144.1
32°	7016.5	6972.5	6920.5	6878.5	6816.4	6700.4	6604.3	6488.3	6345.2	6227.1	6020.0
33°	6792.4	6751.4	6725.4	6676.4	6616.3	6536.3	6421.2	6315.2	6154.1	6033.0	5825.9
34°	6578.3	6526.3	6461.2	6447.2	6395.2	6292.2	6188.1	6080.1	5936.0	5781.9	5572.8
35°	6278.2	6224.1	6164.1	6169.1	6107.1	5987.0	5881.0	5759.9	5622.8	5441.7	5243.6
36°	5877.0	5840.9	5831.9	5807.9	5736.9	5593.8	5492.8	5340.7	5225.6	5004.5	4834.4
37°	5387.7	5400.7	5335.7	5304.7	5221.6	5121.6	5064.5	4869.4	4735.4	4569.3	4339.2
38°	4893.5	4874.4	4797.4	4816.4	4702.4	4598.3	4437.2	4321.2	4171.1	4017.0	3832.9
39°	4276.1	4229.1	4137.1	4141.1	4055.0	3938.0	3781.9	3644.8	3554.8	3406.7	3230.6
40°	3519.8	3499.8	3467.7	3414.7	3301.7	3250.6	3111.6	2963.5	2887.4	2682.3	2596.3
42.5°	1953.0	1926.0	1871.9	1852.9	1792.9	1732.9	1651.8	1552.8	1504.8	1443.7	1307.7
45°	798.4	851.4	838.4	823.4	777.4	780.4	722.4	729.4	676.3	640.3	615.3
47.5°	176.1	191.1	192.1	185.1	192.1	186.1	183.1	178.1	179.1	182.1	175.1
50°	80.0	79.0	81.0	80.0	79.0	78.0	77.0	74.0	76.0	74.0	72.0
52.5°	31.0	32.0	32.0	30.0	31.0	31.0	31.0	30.0	30.0	30.0	30.0
55°	10.0	10.0	10.0	9.0	9.0	10.0	10.0	10.0	10.0	10.0	9.0
57.5°	1.0	2.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
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°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
2.5°	46.0	42.0	39.0	36.0	30.0	25.0	23.0	23.0
5°	71.0	55.0	41.0	33.0	23.0	15.0	12.0	11.0
7.5°	107.1	74.0	43.0	28.0	15.0	8.0	5.0	4.0
10°	155.1	96.0	45.0	23.0	9.0	3.0	0.0	0.0
12.5°	271.1	115.1	45.0	18.0	4.0	0.0	0.0	0.0
15°	621.3	129.1	43.0	13.0	1.0	0.0	0.0	0.0
17.5°	1290.6	162.1	38.0	9.0	0.0	0.0	0.0	0.0
20°	2061.0	211.1	30.0	5.0	0.0	0.0	0.0	0.0
21°	2378.2	228.1	27.0	4.0	0.0	0.0	0.0	0.0
22°	2606.3	244.1	24.0	3.0	0.0	0.0	0.0	0.0
23°	2857.4	254.1	21.0	2.0	0.0	0.0	0.0	0.0
24°	3042.5	260.1	18.0	2.0	0.0	0.0	0.0	0.0
25°	3157.6	260.1	16.0	2.0	0.0	0.0	0.0	0.0
26°	3225.6	254.1	14.0	1.0	0.0	0.0	0.0	0.0
27°	3241.6	244.1	12.0	1.0	0.0	0.0	0.0	0.0
28°	3221.6	231.1	10.0	0.0	0.0	0.0	0.0	0.0
29°	3158.6	212.1	9.0	0.0	0.0	0.0	0.0	0.0
30°	3090.6	192.1	7.0	0.0	0.0	0.0	0.0	0.0
31°	2974.5	165.1	6.0	0.0	0.0	0.0	0.0	0.0
32°	2840.4	137.1	5.0	0.0	0.0	0.0	0.0	0.0
33°	2661.3	108.1	4.0	0.0	0.0	0.0	0.0	0.0
34°	2397.2	85.0	4.0	0.0	0.0	0.0	0.0	0.0
35°	2160.1	69.0	3.0	0.0	0.0	0.0	0.0	0.0
36°	1849.9	55.0	3.0	0.0	0.0	0.0	0.0	0.0
37°	1584.8	46.0	3.0	0.0	0.0	0.0	0.0	0.0
38°	1326.7	39.0	2.0	0.0	0.0	0.0	0.0	0.0
39°	1076.5	34.0	2.0	0.0	0.0	0.0	0.0	0.0
40°	858.4	30.0	2.0	0.0	0.0	0.0	0.0	0.0
42.5°	463.2	20.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	256.1	13.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	113.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	38.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
57.5°	2.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.0	2.0	1.0	0.0	0.0	0.0
65°	0.0	0.0	2.0	2.0	1.0	0.0	0.0	0.0
67.5°	0.0	1.0	2.0	3.0	1.0	0.0	0.0	0.0
70°	0.0	1.0	2.0	3.0	1.0	0.0	0.0	0.0
72.5°	0.0	1.0	2.0	3.0	1.0	0.0	0.0	0.0
75°	0.0	1.0	2.0	3.0	1.0	0.0	0.0	0.0
77.5°	0.0	1.0	2.0	3.0	1.0	0.0	0.0	0.0
80°	0.0	1.0	2.0	3.0	1.0	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°
82.5°	0.0	1.0	2.0	3.0	1.0	0.0	0.0	0.0
85°	0.0	1.0	2.0	3.0	1.0	0.0	0.0	0.0
87.5°	0.0	1.0	2.0	3.0	1.0	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)