

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: P1307971

Luminaire Tested: P3SQAS13R209030DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307971
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: P3SQAS13R209030DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

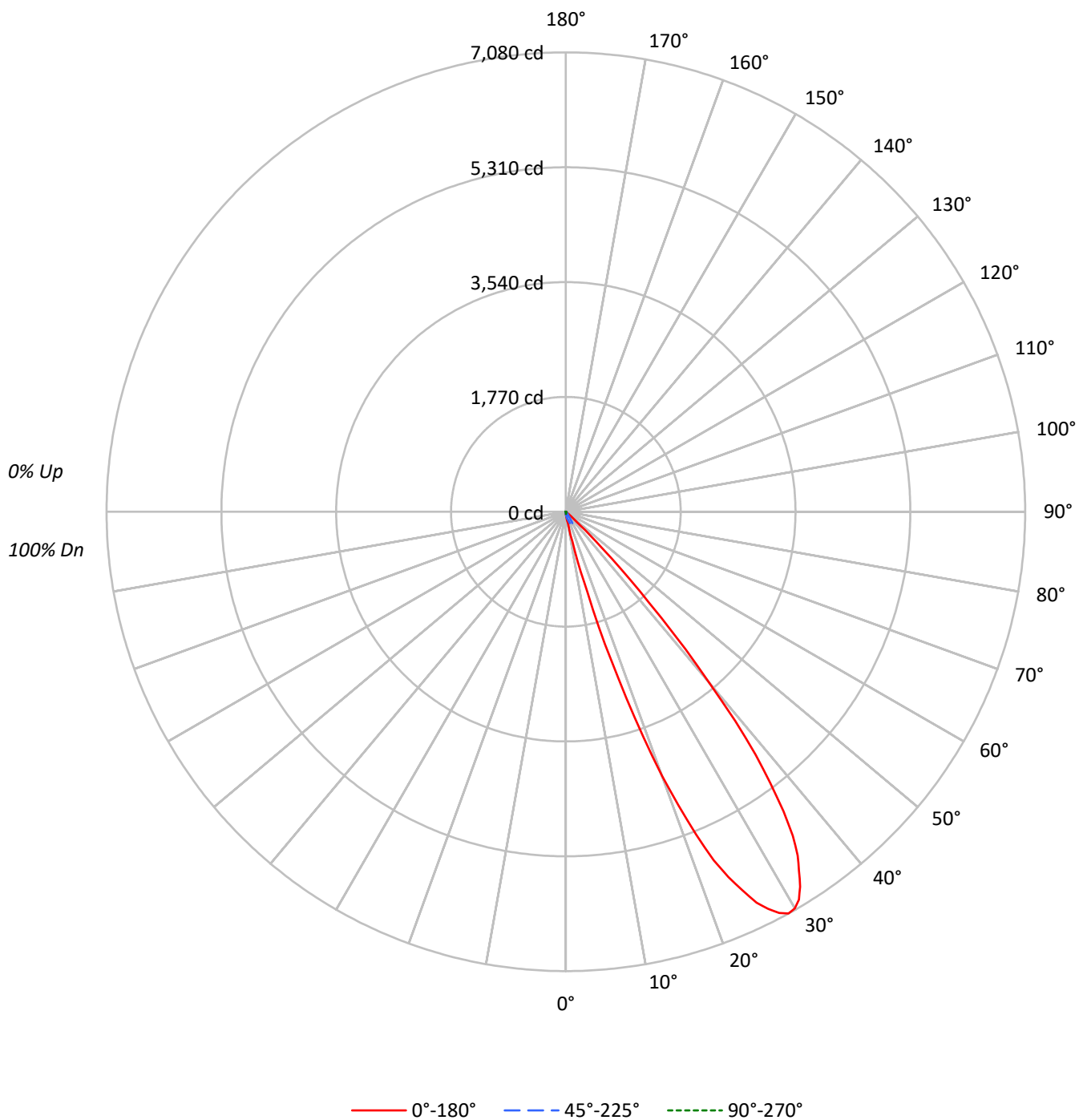
Lumens per Lamp: N/A
Luminaire Lumens: 977.0 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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°	6028	6028	6028	6028	6028
5°	13104	9232	5549	2524	1850
10°	32633	16316	3900	507	0
15°	229559	22341	2247	0	0
20°	793345	37571	898	0	0
25°	1222879	48001	361	0	0
30°	1403613	37108	0	0	0
35°	1281906	14086	0	0	0
40°	768505	6542	0	0	0
45°	188856	3069	0	0	0
50°	20818	777	0	0	0
55°	2913	0	300	0	0
60°	0	0	654	0	0
65°	0	0	774	0	0
70°	0	504	1460	0	0
75°	0	665	1930	0	0
80°	0	992	2876	0	0
85°	0	1976	5730	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 201399 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.4
10°-20°	76.3	7.8
20°-30°	386.0	39.5
30°-40°	417.6	42.7
40°-50°	88.2	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°	466.2	47.7
0°-40°	883.8	90.5
0°-60°	974.6	99.8
0°-90°	977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	977.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	76	53	32	15	11	11
15°	1288	125	13	0	0	537
25°	6435	253	2	0	0	2909
35°	6097	67	0	0	0	3595
45°	775	13	0	0	0	853
55°	10	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°	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
2.5°	47.6	46.6	47.6	46.6	47.6	47.6	47.6	46.6	46.6	46.6	46.6
5°	75.8	75.8	74.8	75.8	75.8	75.8	75.8	74.8	74.8	73.8	73.8
7.5°	119.5	119.5	118.5	118.5	119.5	120.5	116.6	118.5	118.5	118.5	117.6
10°	186.6	190.4	186.6	191.4	187.5	184.6	189.5	184.6	184.6	183.6	180.7
12.5°	470.3	459.6	452.8	436.3	452.8	440.2	443.1	440.2	430.4	417.8	410.0
15°	1287.5	1287.5	1249.6	1300.1	1263.2	1276.8	1206.8	1207.8	1171.8	1133.0	1111.6
17.5°	2691.5	2715.8	2690.5	2675.0	2641.9	2594.3	2574.9	2525.3	2460.2	2384.5	2375.7
20°	4328.7	4226.7	4274.3	4230.6	4203.4	4145.1	4080.0	4039.2	3981.9	3885.7	3743.8
21°	4843.7	4839.8	4838.9	4837.9	4798.1	4702.8	4643.6	4561.9	4481.3	4382.2	4263.6
22°	5362.6	5381.1	5388.8	5332.5	5250.9	5208.1	5167.3	5055.6	4928.3	4876.8	4735.9
23°	5838.7	5821.2	5770.7	5744.5	5681.3	5668.7	5547.2	5476.3	5351.9	5295.6	5128.4
24°	6163.2	6154.5	6131.2	6092.3	6041.8	5964.1	5891.2	5779.4	5677.4	5585.1	5429.6
25°	6435.3	6443.1	6400.3	6374.1	6319.7	6232.2	6142.8	6020.4	5925.2	5817.3	5637.6
26°	6704.5	6650.0	6616.0	6577.2	6517.9	6417.8	6331.3	6221.5	6105.9	5985.4	5809.6
27°	6870.6	6822.0	6770.5	6732.6	6664.6	6569.4	6477.1	6355.6	6226.4	6104.9	5924.2
28°	7001.8	6948.3	6897.8	6852.2	6774.4	6672.4	6561.6	6438.2	6304.1	6178.8	5994.2
29°	7079.5	7016.4	6962.0	6910.5	6839.5	6728.8	6617.0	6484.9	6355.6	6224.5	6036.0
30°	7058.1	7003.7	6951.3	6898.8	6826.9	6722.9	6612.2	6485.8	6355.6	6226.4	6035.0
31°	6974.6	6907.5	6869.6	6817.2	6755.0	6649.1	6553.9	6415.9	6298.3	6158.4	5967.0
32°	6814.3	6771.5	6721.0	6680.2	6619.9	6507.2	6413.9	6301.2	6162.3	6047.6	5846.5
33°	6596.6	6556.8	6531.5	6483.9	6425.6	6347.9	6236.1	6133.1	5976.7	5859.1	5658.0
34°	6388.7	6338.1	6275.0	6261.4	6210.9	6110.8	6009.7	5904.8	5764.9	5615.2	5412.2
35°	6097.2	6044.7	5986.4	5991.3	5931.0	5814.4	5711.4	5593.9	5460.7	5284.9	5092.5
36°	5707.5	5672.6	5663.8	5640.5	5571.5	5432.6	5334.4	5186.7	5075.0	4860.2	4695.1
37°	5232.4	5245.0	5181.9	5151.7	5071.1	4973.9	4918.5	4729.1	4598.9	4437.6	4214.1
38°	4752.4	4733.9	4659.1	4677.6	4566.8	4465.8	4309.3	4196.6	4050.9	3901.2	3722.4
39°	4152.9	4107.2	4017.8	4021.7	3938.1	3824.5	3672.9	3539.8	3452.3	3308.5	3137.5
40°	3418.3	3398.9	3367.8	3316.3	3206.5	3156.9	3021.9	2878.1	2804.2	2605.0	2521.5
42.5°	1896.7	1870.4	1818.0	1799.5	1741.2	1682.9	1604.2	1508.0	1461.4	1402.1	1270.0
45°	775.4	826.9	814.3	799.7	755.0	757.9	701.5	708.3	656.8	621.9	597.6
47.5°	171.0	185.6	186.6	179.8	186.6	180.7	177.8	173.0	173.9	176.8	170.0
50°	77.7	76.8	78.7	77.7	76.8	75.8	74.8	71.9	73.8	71.9	70.0
52.5°	30.1	31.1	31.1	29.1	30.1	30.1	30.1	29.1	29.1	29.1	29.1
55°	9.7	9.7	9.7	8.7	8.7	9.7	9.7	9.7	9.7	9.7	8.7
57.5°	1.0	1.9	1.0	1.9	1.0	1.0	1.0	1.0	1.0	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°	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
2.5°	44.7	40.8	37.9	35.0	29.1	24.3	22.3	22.3
5°	69.0	53.4	39.8	32.1	22.3	14.6	11.7	10.7
7.5°	104.0	71.9	41.8	27.2	14.6	7.8	4.9	3.9
10°	150.6	93.3	43.7	22.3	8.7	2.9	0.0	0.0
12.5°	263.3	111.7	43.7	17.5	3.9	0.0	0.0	0.0
15°	603.4	125.3	41.8	12.6	1.0	0.0	0.0	0.0
17.5°	1253.4	157.4	36.9	8.7	0.0	0.0	0.0	0.0
20°	2001.6	205.0	29.1	4.9	0.0	0.0	0.0	0.0
21°	2309.6	221.5	26.2	3.9	0.0	0.0	0.0	0.0
22°	2531.2	237.1	23.3	2.9	0.0	0.0	0.0	0.0
23°	2775.1	246.8	20.4	1.9	0.0	0.0	0.0	0.0
24°	2954.8	252.6	17.5	1.9	0.0	0.0	0.0	0.0
25°	3066.6	252.6	15.5	1.9	0.0	0.0	0.0	0.0
26°	3132.6	246.8	13.6	1.0	0.0	0.0	0.0	0.0
27°	3148.2	237.1	11.7	1.0	0.0	0.0	0.0	0.0
28°	3128.7	224.5	9.7	0.0	0.0	0.0	0.0	0.0
29°	3067.5	206.0	8.7	0.0	0.0	0.0	0.0	0.0
30°	3001.5	186.6	6.8	0.0	0.0	0.0	0.0	0.0
31°	2888.7	160.3	5.8	0.0	0.0	0.0	0.0	0.0
32°	2758.5	133.1	4.9	0.0	0.0	0.0	0.0	0.0
33°	2584.6	104.9	3.9	0.0	0.0	0.0	0.0	0.0
34°	2328.1	82.6	3.9	0.0	0.0	0.0	0.0	0.0
35°	2097.8	67.0	2.9	0.0	0.0	0.0	0.0	0.0
36°	1796.6	53.4	2.9	0.0	0.0	0.0	0.0	0.0
37°	1539.1	44.7	2.9	0.0	0.0	0.0	0.0	0.0
38°	1288.4	37.9	1.9	0.0	0.0	0.0	0.0	0.0
39°	1045.5	33.0	1.9	0.0	0.0	0.0	0.0	0.0
40°	833.7	29.1	1.9	0.0	0.0	0.0	0.0	0.0
42.5°	449.9	19.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	248.7	12.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	109.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	36.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8.7	0.0	0.0	1.0	0.0	0.0	0.0	0.0
57.5°	1.9	0.0	0.0	1.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.0	1.9	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.0	1.9	1.0	0.0	0.0	0.0
65°	0.0	0.0	1.9	1.9	1.0	0.0	0.0	0.0
67.5°	0.0	1.0	1.9	2.9	1.0	0.0	0.0	0.0
70°	0.0	1.0	1.9	2.9	1.0	0.0	0.0	0.0
72.5°	0.0	1.0	1.9	2.9	1.0	0.0	0.0	0.0
75°	0.0	1.0	1.9	2.9	1.0	0.0	0.0	0.0
77.5°	0.0	1.0	1.9	2.9	1.0	0.0	0.0	0.0
80°	0.0	1.0	1.9	2.9	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	1.9	2.9	1.0	0.0	0.0	0.0
85°	0.0	1.0	1.9	2.9	1.0	0.0	0.0	0.0
87.5°	0.0	1.0	1.9	2.9	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)