

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: P1313677

Luminaire Tested: P3SQAS20R209730D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313677
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: P3SQAS20R209730D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

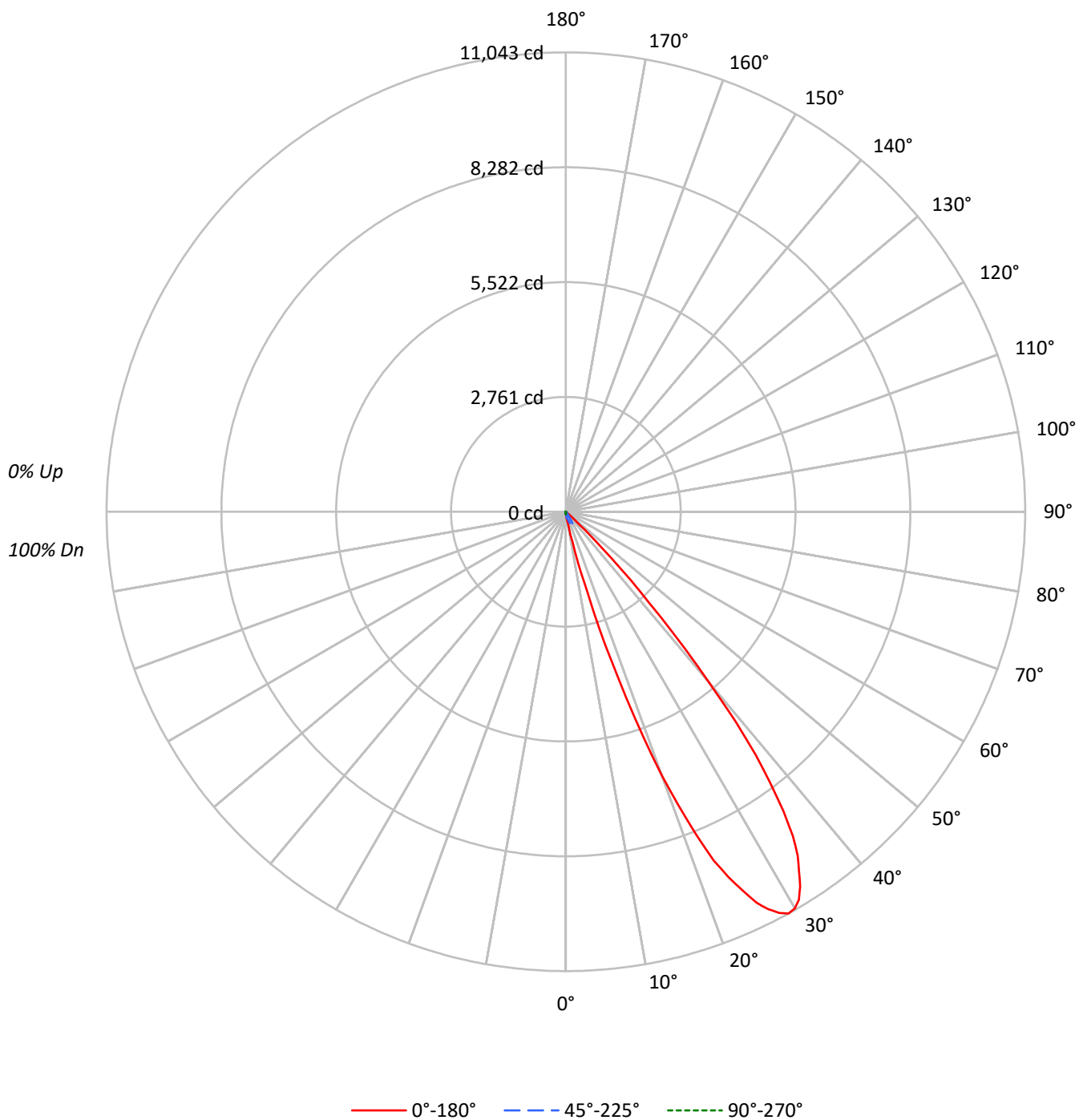
Lumens per Lamp: N/A
Luminaire Lumens: 1524.0 lumens
Efficiency: N/A
Efficacy: 52.9 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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°	9403	9403	9403	9403	9403
5°	20434	14418	8644	3924	2887
10°	50890	25445	6103	787	0
15°	358076	34857	3512	0	0
20°	1237531	58612	1393	0	0
25°	1907545	74890	570	0	0
30°	2189470	57870	0	0	0
35°	1999598	21992	0	0	0
40°	1198766	10229	0	0	0
45°	294585	4798	0	0	0
50°	32500	1206	0	0	0
55°	4564	0	450	0	0
60°	0	0	1033	0	0
65°	0	0	1223	0	0
70°	0	755	2266	0	0
75°	0	998	2994	0	0
80°	0	1488	4463	0	0
85°	0	2964	8892	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 314143 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.4
10°-20°	119.0	7.8
20°-30°	602.0	39.5
30°-40°	651.4	42.7
40°-50°	137.6	9.0
50°-60°	4.1	0.3
60°-70°	1.0	0.1
70°-80°	1.4	0.1
80°-90°	1.3	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°	727.3	47.7
0°-40°	1378.6	90.5
0°-60°	1520.3	99.8
0°-90°	1524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1524.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	118	83	50	23	17	17
15°	2008	196	20	0	0	837
25°	10038	394	3	0	0	4537
35°	9511	105	0	0	0	5608
45°	1210	20	0	0	0	1331
55°	15	0	2	0	0	27
65°	0	0	3	0	0	0
75°	0	2	4	0	0	0
85°	0	2	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°	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
2.5°	74.3	72.8	74.3	72.8	74.3	74.3	74.3	72.8	72.8	72.8	72.8
5°	118.2	118.2	116.7	118.2	118.2	118.2	118.2	116.7	116.7	115.2	115.2
7.5°	186.4	186.4	184.9	184.9	186.4	187.9	181.9	184.9	184.9	184.9	183.4
10°	291.0	297.1	291.0	298.6	292.5	288.0	295.6	288.0	288.0	286.5	281.9
12.5°	733.6	716.9	706.3	680.5	706.3	686.6	691.1	686.6	671.4	651.7	639.6
15°	2008.3	2008.3	1949.2	2028.0	1970.4	1991.6	1882.5	1884.0	1827.9	1767.3	1733.9
17.5°	4198.4	4236.3	4196.9	4172.6	4121.1	4046.8	4016.5	3939.2	3837.7	3719.5	3705.8
20°	6752.3	6593.2	6667.4	6599.2	6556.8	6465.9	6364.3	6300.6	6211.2	6061.2	5839.9
21°	7555.6	7549.6	7548.0	7546.5	7484.4	7335.9	7243.4	7116.1	6990.3	6835.7	6650.8
22°	8365.0	8393.8	8405.9	8318.0	8190.7	8124.0	8060.3	7886.0	7687.5	7607.2	7387.4
23°	9107.7	9080.4	9001.6	8960.7	8862.1	8842.4	8653.0	8542.3	8348.3	8260.4	7999.7
24°	9613.9	9600.3	9563.9	9503.3	9424.4	9303.2	9189.5	9015.2	8856.1	8712.1	8469.6
25°	10038.3	10050.4	9983.7	9942.8	9857.9	9721.5	9582.1	9391.1	9242.6	9074.3	8793.9
26°	10458.1	10373.3	10320.2	10259.6	10167.1	10011.0	9876.1	9704.8	9524.5	9336.5	9062.2
27°	10717.3	10641.5	10561.2	10502.1	10396.0	10247.5	10103.5	9914.0	9712.4	9523.0	9241.0
28°	10921.9	10838.6	10759.8	10688.5	10567.3	10408.1	10235.3	10042.8	9833.7	9638.2	9350.2
29°	11043.2	10944.7	10859.8	10779.5	10668.8	10496.0	10321.7	10115.6	9914.0	9709.4	9415.4
30°	11009.8	10925.0	10843.1	10761.3	10649.1	10486.9	10314.1	10117.1	9914.0	9712.4	9413.8
31°	10879.5	10774.9	10715.8	10634.0	10536.9	10371.7	10223.2	10008.0	9824.6	9606.3	9307.7
32°	10629.4	10562.7	10483.9	10420.2	10326.3	10150.5	10004.9	9829.1	9612.4	9433.5	9119.8
33°	10289.9	10227.8	10188.3	10114.1	10023.1	9901.9	9727.6	9566.9	9322.9	9139.5	8825.8
34°	9965.5	9886.7	9788.2	9767.0	9688.2	9532.1	9374.4	9210.7	8992.5	8759.1	8442.3
35°	9510.8	9429.0	9338.1	9345.6	9251.7	9069.8	8909.1	8725.7	8518.1	8243.7	7943.6
36°	8903.1	8848.5	8834.8	8798.5	8690.9	8474.1	8321.0	8090.7	7916.4	7581.4	7323.7
37°	8161.9	8181.6	8083.1	8036.1	7910.3	7758.7	7672.3	7376.8	7173.7	6922.1	6573.5
38°	7413.1	7384.4	7267.6	7296.4	7123.7	6966.0	6722.0	6546.2	6318.8	6085.4	5806.5
39°	6478.0	6406.7	6267.3	6273.4	6143.0	5965.7	5729.2	5521.6	5385.2	5160.9	4894.1
40°	5332.1	5301.8	5253.3	5173.0	5001.7	4924.4	4713.7	4489.4	4374.2	4063.5	3933.2
42.5°	2958.6	2917.7	2835.8	2807.0	2716.1	2625.1	2502.4	2352.3	2279.6	2187.1	1981.0
45°	1209.5	1289.8	1270.1	1247.4	1177.7	1182.2	1094.3	1104.9	1024.6	970.0	932.1
47.5°	266.8	289.5	291.0	280.4	291.0	281.9	277.4	269.8	271.3	275.9	265.2
50°	121.3	119.7	122.8	121.3	119.7	118.2	116.7	112.2	115.2	112.2	109.1
52.5°	47.0	48.5	48.5	45.5	47.0	47.0	47.0	45.5	45.5	45.5	45.5
55°	15.2	15.2	15.2	13.6	13.6	15.2	15.2	15.2	15.2	15.2	13.6
57.5°	1.5	3.0	1.5	3.0	1.5	1.5	1.5	1.5	1.5	3.0	3.0
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°	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
2.5°	69.7	63.7	59.1	54.6	45.5	37.9	34.9	34.9
5°	107.6	83.4	62.1	50.0	34.9	22.7	18.2	16.7
7.5°	162.2	112.2	65.2	42.4	22.7	12.1	7.6	6.1
10°	234.9	145.5	68.2	34.9	13.6	4.5	0.0	0.0
12.5°	410.7	174.3	68.2	27.3	6.1	0.0	0.0	0.0
15°	941.2	195.5	65.2	19.7	1.5	0.0	0.0	0.0
17.5°	1955.2	245.5	57.6	13.6	0.0	0.0	0.0	0.0
20°	3122.3	319.8	45.5	7.6	0.0	0.0	0.0	0.0
21°	3602.8	345.6	40.9	6.1	0.0	0.0	0.0	0.0
22°	3948.3	369.8	36.4	4.5	0.0	0.0	0.0	0.0
23°	4328.8	385.0	31.8	3.0	0.0	0.0	0.0	0.0
24°	4609.2	394.1	27.3	3.0	0.0	0.0	0.0	0.0
25°	4783.5	394.1	24.3	3.0	0.0	0.0	0.0	0.0
26°	4886.5	385.0	21.2	1.5	0.0	0.0	0.0	0.0
27°	4910.8	369.8	18.2	1.5	0.0	0.0	0.0	0.0
28°	4880.5	350.1	15.2	0.0	0.0	0.0	0.0	0.0
29°	4785.0	321.3	13.6	0.0	0.0	0.0	0.0	0.0
30°	4681.9	291.0	10.6	0.0	0.0	0.0	0.0	0.0
31°	4506.1	250.1	9.1	0.0	0.0	0.0	0.0	0.0
32°	4303.0	207.6	7.6	0.0	0.0	0.0	0.0	0.0
33°	4031.7	163.7	6.1	0.0	0.0	0.0	0.0	0.0
34°	3631.5	128.8	6.1	0.0	0.0	0.0	0.0	0.0
35°	3272.3	104.6	4.5	0.0	0.0	0.0	0.0	0.0
36°	2802.5	83.4	4.5	0.0	0.0	0.0	0.0	0.0
37°	2400.8	69.7	4.5	0.0	0.0	0.0	0.0	0.0
38°	2009.8	59.1	3.0	0.0	0.0	0.0	0.0	0.0
39°	1630.9	51.5	3.0	0.0	0.0	0.0	0.0	0.0
40°	1300.4	45.5	3.0	0.0	0.0	0.0	0.0	0.0
42.5°	701.8	30.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	388.0	19.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	171.3	10.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	57.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	28.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13.6	0.0	0.0	1.5	0.0	0.0	0.0	0.0
57.5°	3.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.5	3.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.5	3.0	1.5	0.0	0.0	0.0
65°	0.0	0.0	3.0	3.0	1.5	0.0	0.0	0.0
67.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
70°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
72.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
75°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
77.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
80°	0.0	1.5	3.0	4.5	1.5	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	1.5	3.0	4.5	1.5	0.0	0.0	0.0
85°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
87.5°	0.0	1.5	3.0	4.5	1.5	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)