

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: P1305881

Luminaire Tested: P3SQAS13R209024DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305881
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: P3SQAS13R209024DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

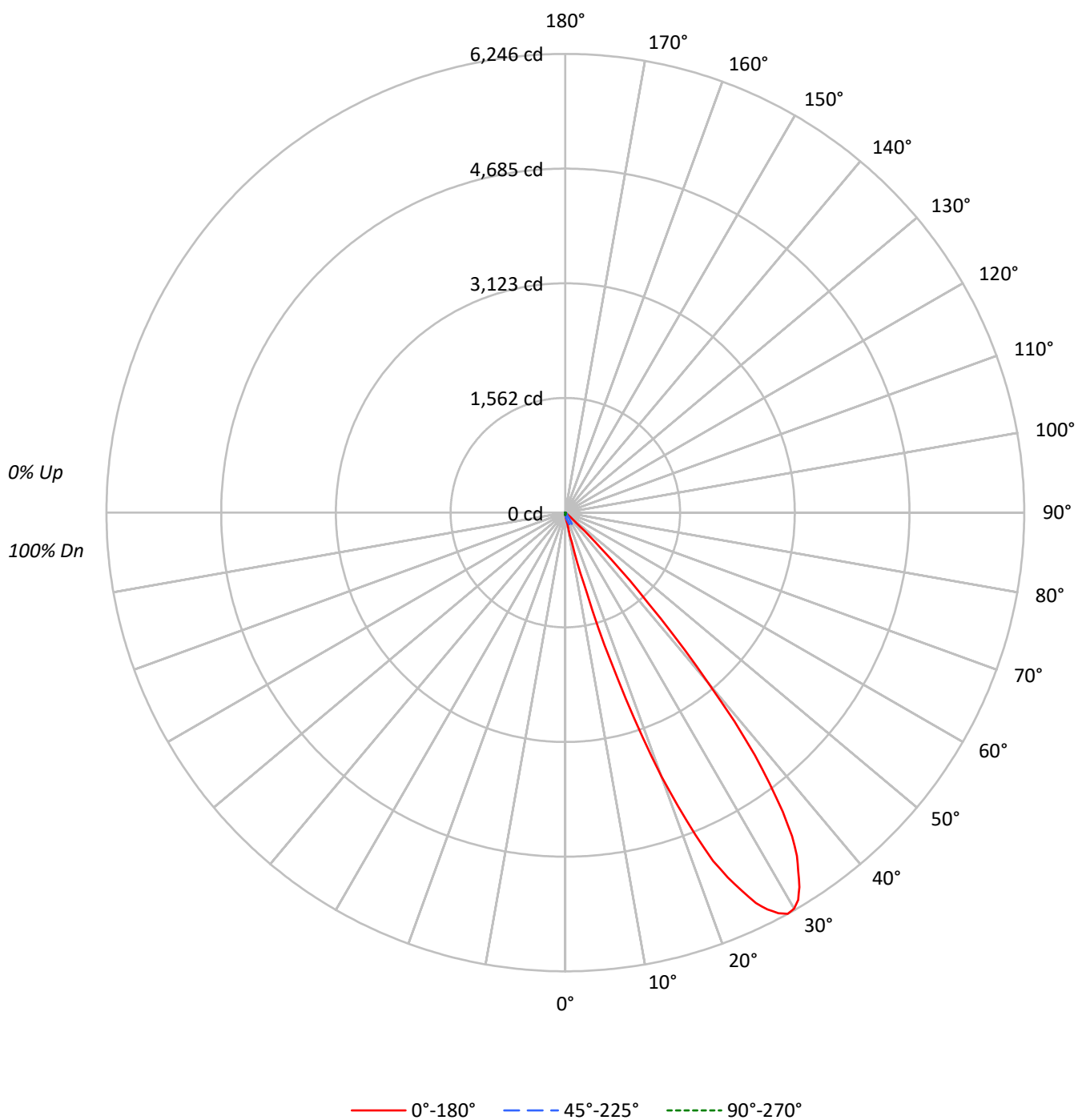
Lumens per Lamp: N/A
Luminaire Lumens: 862.0 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
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	49			
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°	5322	5322	5322	5322	5322
5°	11566	8160	4893	2230	1625
10°	28785	14393	3445	455	0
15°	202529	19720	1979	0	0
20°	699966	33155	788	0	0
25°	1078933	42357	323	0	0
30°	1238396	32733	0	0	0
35°	1131013	12447	0	0	0
40°	678037	5778	0	0	0
45°	166619	2704	0	0	0
50°	18380	697	0	0	0
55°	2582	0	270	0	0
60°	0	0	586	0	0
65°	0	0	693	0	0
70°	0	453	1309	0	0
75°	0	599	1730	0	0
80°	0	893	2579	0	0
85°	0	1778	5138	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 177701 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.4
10°-20°	67.3	7.8
20°-30°	340.5	39.5
30°-40°	368.4	42.7
40°-50°	77.8	9.0
50°-60°	2.3	0.3
60°-70°	0.6	0.1
70°-80°	0.8	0.1
80°-90°	0.7	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°	411.4	47.7
0°-40°	779.8	90.5
0°-60°	859.9	99.8
0°-90°	862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	862.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	67	47	28	13	9	9
15°	1136	111	11	0	0	474
25°	5678	223	2	0	0	2566
35°	5380	59	0	0	0	3172
45°	684	11	0	0	0	753
55°	9	0	1	0	0	15
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°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
2.5°	42.0	41.1	42.0	41.1	42.0	42.0	42.0	41.1	41.1	41.1	41.1
5°	66.9	66.9	66.0	66.9	66.9	66.9	66.9	66.0	66.0	65.2	65.2
7.5°	105.4	105.4	104.6	104.6	105.4	106.3	102.9	104.6	104.6	104.6	103.7
10°	164.6	168.0	164.6	168.9	165.5	162.9	167.2	162.9	162.9	162.0	159.5
12.5°	414.9	405.5	399.5	384.9	399.5	388.4	390.9	388.4	379.8	368.6	361.8
15°	1135.9	1135.9	1102.5	1147.1	1114.5	1126.5	1064.8	1065.6	1033.9	999.6	980.7
17.5°	2374.7	2396.1	2373.8	2360.1	2331.0	2289.0	2271.8	2228.1	2170.7	2103.8	2096.1
20°	3819.2	3729.2	3771.2	3732.6	3708.6	3657.2	3599.8	3563.8	3513.2	3428.3	3303.1
21°	4273.6	4270.2	4269.3	4268.4	4233.3	4149.3	4097.0	4025.0	3953.8	3866.4	3761.8
22°	4731.4	4747.7	4754.5	4704.8	4632.8	4595.1	4559.1	4460.5	4348.2	4302.7	4178.4
23°	5151.5	5136.0	5091.4	5068.3	5012.6	5001.4	4894.3	4831.7	4721.9	4672.2	4524.8
24°	5437.8	5430.1	5409.5	5375.2	5330.6	5262.0	5197.7	5099.2	5009.1	4927.7	4790.5
25°	5677.8	5684.7	5647.0	5623.8	5575.8	5498.7	5419.8	5311.8	5227.8	5132.6	4974.0
26°	5915.3	5867.3	5837.3	5803.0	5750.7	5662.4	5586.1	5489.2	5387.2	5280.9	5125.7
27°	6061.9	6019.0	5973.6	5940.2	5880.1	5796.1	5714.7	5607.5	5493.5	5386.3	5226.9
28°	6177.6	6130.5	6085.9	6045.6	5977.0	5887.0	5789.3	5680.4	5562.1	5451.5	5288.6
29°	6246.2	6190.5	6142.5	6097.0	6034.5	5936.7	5838.1	5721.5	5607.5	5491.8	5325.5
30°	6227.3	6179.3	6133.0	6086.8	6023.3	5931.6	5833.9	5722.4	5607.5	5493.5	5324.6
31°	6153.6	6094.5	6061.0	6014.7	5959.9	5866.4	5782.4	5660.7	5556.9	5433.5	5264.6
32°	6012.2	5974.4	5929.9	5893.9	5840.7	5741.3	5659.0	5559.5	5436.9	5335.8	5158.3
33°	5820.1	5785.0	5762.7	5720.7	5669.3	5600.7	5502.1	5411.2	5273.2	5169.5	4992.0
34°	5636.7	5592.1	5536.4	5524.4	5479.8	5391.5	5302.3	5209.7	5086.3	4954.3	4775.1
35°	5379.5	5333.2	5281.8	5286.0	5232.9	5130.0	5039.1	4935.4	4818.0	4662.8	4493.1
36°	5035.7	5004.9	4997.1	4976.6	4915.7	4793.1	4706.5	4576.2	4477.6	4288.2	4142.4
37°	4616.5	4627.6	4571.9	4545.3	4474.2	4388.5	4339.6	4172.4	4057.6	3915.2	3718.1
38°	4193.0	4176.7	4110.7	4127.0	4029.3	3940.1	3802.1	3702.6	3574.0	3442.0	3284.3
39°	3664.1	3623.8	3544.9	3548.3	3474.6	3374.3	3240.6	3123.1	3045.9	2919.1	2768.2
40°	3015.9	2998.8	2971.4	2925.9	2829.1	2785.3	2666.2	2539.3	2474.1	2298.4	2224.7
42.5°	1673.4	1650.3	1604.0	1587.7	1536.3	1484.8	1415.4	1330.5	1289.4	1237.1	1120.5
45°	684.1	729.6	718.4	705.5	666.1	668.7	619.0	625.0	579.5	548.7	527.2
47.5°	150.9	163.7	164.6	158.6	164.6	159.5	156.9	152.6	153.5	156.0	150.0
50°	68.6	67.7	69.4	68.6	67.7	66.9	66.0	63.4	65.2	63.4	61.7
52.5°	26.6	27.4	27.4	25.7	26.6	26.6	26.6	25.7	25.7	25.7	25.7
55°	8.6	8.6	8.6	7.7	7.7	8.6	8.6	8.6	8.6	8.6	7.7
57.5°	0.9	1.7	0.9	1.7	0.9	0.9	0.9	0.9	0.9	1.7	1.7
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°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
2.5°	39.4	36.0	33.4	30.9	25.7	21.4	19.7	19.7
5°	60.9	47.2	35.1	28.3	19.7	12.9	10.3	9.4
7.5°	91.7	63.4	36.9	24.0	12.9	6.9	4.3	3.4
10°	132.9	82.3	38.6	19.7	7.7	2.6	0.0	0.0
12.5°	232.3	98.6	38.6	15.4	3.4	0.0	0.0	0.0
15°	532.4	110.6	36.9	11.1	0.9	0.0	0.0	0.0
17.5°	1105.9	138.9	32.6	7.7	0.0	0.0	0.0	0.0
20°	1766.0	180.9	25.7	4.3	0.0	0.0	0.0	0.0
21°	2037.8	195.5	23.1	3.4	0.0	0.0	0.0	0.0
22°	2233.2	209.2	20.6	2.6	0.0	0.0	0.0	0.0
23°	2448.4	217.8	18.0	1.7	0.0	0.0	0.0	0.0
24°	2607.0	222.9	15.4	1.7	0.0	0.0	0.0	0.0
25°	2705.6	222.9	13.7	1.7	0.0	0.0	0.0	0.0
26°	2763.9	217.8	12.0	0.9	0.0	0.0	0.0	0.0
27°	2777.6	209.2	10.3	0.9	0.0	0.0	0.0	0.0
28°	2760.5	198.0	8.6	0.0	0.0	0.0	0.0	0.0
29°	2706.5	181.7	7.7	0.0	0.0	0.0	0.0	0.0
30°	2648.2	164.6	6.0	0.0	0.0	0.0	0.0	0.0
31°	2548.7	141.5	5.1	0.0	0.0	0.0	0.0	0.0
32°	2433.8	117.4	4.3	0.0	0.0	0.0	0.0	0.0
33°	2280.4	92.6	3.4	0.0	0.0	0.0	0.0	0.0
34°	2054.1	72.9	3.4	0.0	0.0	0.0	0.0	0.0
35°	1850.9	59.2	2.6	0.0	0.0	0.0	0.0	0.0
36°	1585.1	47.2	2.6	0.0	0.0	0.0	0.0	0.0
37°	1357.9	39.4	2.6	0.0	0.0	0.0	0.0	0.0
38°	1136.8	33.4	1.7	0.0	0.0	0.0	0.0	0.0
39°	922.4	29.1	1.7	0.0	0.0	0.0	0.0	0.0
40°	735.6	25.7	1.7	0.0	0.0	0.0	0.0	0.0
42.5°	396.9	17.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	219.5	11.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	96.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	32.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7.7	0.0	0.0	0.9	0.0	0.0	0.0	0.0
57.5°	1.7	0.0	0.0	0.9	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.9	1.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.9	1.7	0.9	0.0	0.0	0.0
65°	0.0	0.0	1.7	1.7	0.9	0.0	0.0	0.0
67.5°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
70°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
72.5°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
75°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
77.5°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
80°	0.0	0.9	1.7	2.6	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	1.7	2.6	0.9	0.0	0.0	0.0
85°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
87.5°	0.0	0.9	1.7	2.6	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)