

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: P1306038

Luminaire Tested: P3SQASS17R209024DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306038
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: P3SQASS17R209024DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

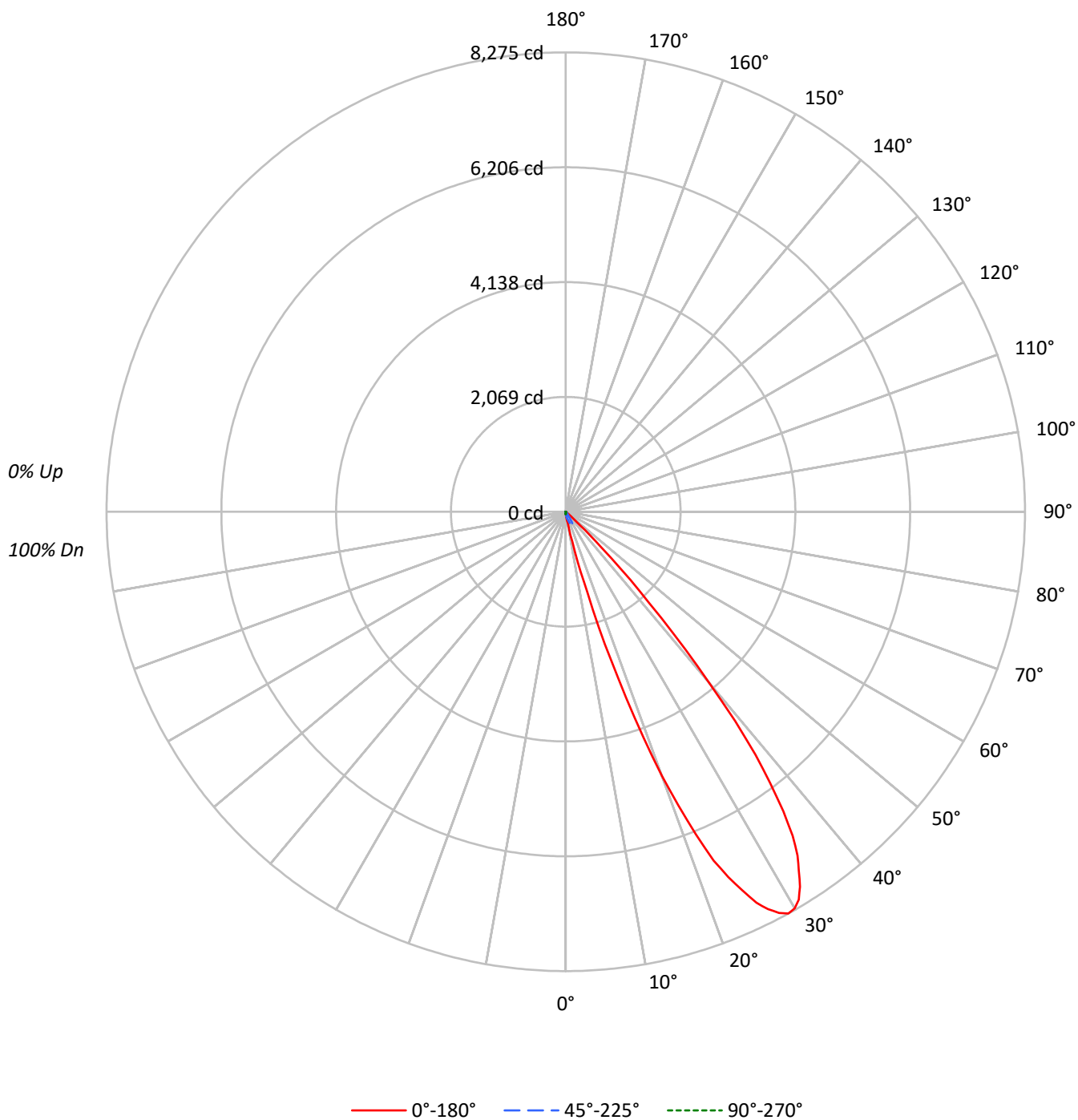
Lumens per Lamp: N/A
Luminaire Lumens: 1142.0 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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

TEST NUMBER: P1306038

CATALOG NUMBER: P3SQASS17R209024DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1306038

CATALOG NUMBER: P3SQASS17R209024DE010 E3SQCA301MMS

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°	7044	7044	7044	7044	7044
5°	15317	10805	6483	2939	2161
10°	38141	19062	4564	595	0
15°	268321	26121	2639	0	0
20°	927337	43913	1045	0	0
25°	1429400	56115	437	0	0
30°	1640681	43373	0	0	0
35°	1498395	16483	0	0	0
40°	898294	7666	0	0	0
45°	220738	3605	0	0	0
50°	24355	911	0	0	0
55°	3423	0	330	0	0
60°	0	0	792	0	0
65°	0	0	937	0	0
70°	0	554	1712	0	0
75°	0	732	2262	0	0
80°	0	1091	3372	0	0
85°	0	2174	6719	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 235400 cd/sqm

TEST NUMBER: P1306038

CATALOG NUMBER: P3SQASS17R209024DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.4
10°-20°	89.2	7.8
20°-30°	451.1	39.5
30°-40°	488.1	42.7
40°-50°	103.1	9.0
50°-60°	3.1	0.3
60°-70°	0.7	0.1
70°-80°	1.0	0.1
80°-90°	0.9	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°	545.0	47.7
0°-40°	1033.1	90.5
0°-60°	1139.3	99.8
0°-90°	1142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1142.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	41	41	41	41	41	
5°	89	62	38	17	12	12
15°	1505	146	15	0	0	627
25°	7522	295	2	0	0	3400
35°	7127	78	0	0	0	4203
45°	906	15	0	0	0	997
55°	11	0	1	0	0	20
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	

TEST NUMBER: P1306038

CATALOG NUMBER: P3SQASS17R209024DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
2.5°	55.7	54.5	55.7	54.5	55.7	55.7	55.7	54.5	54.5	54.5	54.5
5°	88.6	88.6	87.5	88.6	88.6	88.6	88.6	87.5	87.5	86.3	86.3
7.5°	139.7	139.7	138.6	138.6	139.7	140.8	136.3	138.6	138.6	138.6	137.4
10°	218.1	222.6	218.1	223.7	219.2	215.8	221.5	215.8	215.8	214.7	211.3
12.5°	549.7	537.2	529.3	510.0	529.3	514.5	517.9	514.5	503.1	488.4	479.3
15°	1504.9	1504.9	1460.6	1519.6	1476.5	1492.4	1410.6	1411.7	1369.7	1324.3	1299.3
17.5°	3146.1	3174.4	3144.9	3126.7	3088.1	3032.5	3009.8	2951.8	2875.7	2787.2	2776.9
20°	5059.8	4940.6	4996.2	4945.1	4913.3	4845.1	4769.1	4721.4	4654.3	4541.9	4376.1
21°	5661.8	5657.2	5656.1	5654.9	5608.4	5497.1	5427.8	5332.4	5238.1	5122.3	4983.7
22°	6268.3	6289.8	6298.9	6233.0	6137.6	6087.7	6040.0	5909.4	5760.6	5700.4	5535.7
23°	6824.8	6804.3	6745.3	6714.6	6640.8	6626.0	6484.0	6401.1	6255.8	6189.9	5994.5
24°	7204.1	7193.9	7166.6	7121.2	7062.2	6971.3	6886.1	6755.5	6636.2	6528.3	6346.6
25°	7522.1	7531.2	7481.2	7450.6	7387.0	7284.8	7180.3	7037.2	6925.9	6799.8	6589.7
26°	7836.7	7773.1	7733.4	7688.0	7618.7	7501.7	7400.6	7272.3	7137.1	6996.3	6790.7
27°	8031.0	7974.2	7914.0	7869.7	7790.2	7678.9	7571.0	7429.0	7277.9	7136.0	6924.7
28°	8184.3	8121.8	8062.8	8009.4	7918.5	7799.3	7669.8	7525.5	7368.8	7222.3	7006.5
29°	8275.1	8201.3	8137.7	8077.5	7994.6	7865.1	7734.5	7580.1	7429.0	7275.7	7055.3
30°	8250.2	8186.6	8125.2	8063.9	7979.8	7858.3	7728.8	7581.2	7429.0	7277.9	7054.2
31°	8152.5	8074.1	8029.8	7968.5	7895.8	7772.0	7660.7	7499.4	7362.0	7198.4	6974.7
32°	7965.1	7915.1	7856.0	7808.3	7737.9	7606.2	7497.1	7365.4	7203.0	7069.0	6833.9
33°	7710.7	7664.1	7634.6	7578.9	7510.8	7419.9	7289.3	7168.9	6986.1	6848.6	6613.5
34°	7467.6	7408.6	7334.7	7318.8	7259.8	7142.8	7024.7	6902.0	6738.5	6563.6	6326.2
35°	7126.9	7065.6	6997.4	7003.1	6932.7	6796.4	6676.0	6538.6	6383.0	6177.4	5952.5
36°	6671.4	6630.6	6620.3	6593.1	6512.4	6350.0	6235.3	6062.7	5932.1	5681.1	5488.0
37°	6116.1	6130.8	6057.0	6021.8	5927.5	5814.0	5749.2	5527.7	5375.5	5187.0	4925.8
38°	5555.0	5533.4	5446.0	5467.5	5338.1	5219.9	5037.1	4905.3	4735.0	4560.1	4351.1
39°	4854.2	4800.9	4696.4	4700.9	4603.2	4470.3	4293.2	4137.6	4035.4	3867.3	3667.4
40°	3995.6	3972.9	3936.5	3876.3	3748.0	3690.1	3532.2	3364.1	3277.8	3045.0	2947.3
42.5°	2217.0	2186.3	2125.0	2103.4	2035.3	1967.1	1875.1	1762.7	1708.2	1638.9	1484.4
45°	906.3	966.5	951.8	934.7	882.5	885.9	820.0	828.0	767.8	726.9	698.5
47.5°	199.9	216.9	218.1	210.1	218.1	211.3	207.8	202.2	203.3	206.7	198.8
50°	90.9	89.7	92.0	90.9	89.7	88.6	87.5	84.0	86.3	84.0	81.8
52.5°	35.2	36.3	36.3	34.1	35.2	35.2	35.2	34.1	34.1	34.1	34.1
55°	11.4	11.4	11.4	10.2	10.2	11.4	11.4	11.4	11.4	11.4	10.2
57.5°	1.1	2.3	1.1	2.3	1.1	1.1	1.1	1.1	1.1	2.3	2.3
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



TEST NUMBER: P1306038

CATALOG NUMBER: P3SQASS17R209024DE010 E3SQCA301MMS

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

TEST NUMBER: P1306038

CATALOG NUMBER: P3SQASS17R209024DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
2.5°	52.2	47.7	44.3	40.9	34.1	28.4	26.1	26.1
5°	80.6	62.5	46.6	37.5	26.1	17.0	13.6	12.5
7.5°	121.5	84.0	48.8	31.8	17.0	9.1	5.7	4.5
10°	176.0	109.0	51.1	26.1	10.2	3.4	0.0	0.0
12.5°	307.8	130.6	51.1	20.4	4.5	0.0	0.0	0.0
15°	705.3	146.5	48.8	14.8	1.1	0.0	0.0	0.0
17.5°	1465.1	184.0	43.2	10.2	0.0	0.0	0.0	0.0
20°	2339.7	239.6	34.1	5.7	0.0	0.0	0.0	0.0
21°	2699.7	259.0	30.7	4.5	0.0	0.0	0.0	0.0
22°	2958.7	277.1	27.3	3.4	0.0	0.0	0.0	0.0
23°	3243.7	288.5	23.9	2.3	0.0	0.0	0.0	0.0
24°	3453.8	295.3	20.4	2.3	0.0	0.0	0.0	0.0
25°	3584.5	295.3	18.2	2.3	0.0	0.0	0.0	0.0
26°	3661.7	288.5	15.9	1.1	0.0	0.0	0.0	0.0
27°	3679.9	277.1	13.6	1.1	0.0	0.0	0.0	0.0
28°	3657.1	262.4	11.4	0.0	0.0	0.0	0.0	0.0
29°	3585.6	240.8	10.2	0.0	0.0	0.0	0.0	0.0
30°	3508.4	218.1	8.0	0.0	0.0	0.0	0.0	0.0
31°	3376.6	187.4	6.8	0.0	0.0	0.0	0.0	0.0
32°	3224.4	155.6	5.7	0.0	0.0	0.0	0.0	0.0
33°	3021.1	122.7	4.5	0.0	0.0	0.0	0.0	0.0
34°	2721.3	96.5	4.5	0.0	0.0	0.0	0.0	0.0
35°	2452.1	78.4	3.4	0.0	0.0	0.0	0.0	0.0
36°	2100.0	62.5	3.4	0.0	0.0	0.0	0.0	0.0
37°	1799.0	52.2	3.4	0.0	0.0	0.0	0.0	0.0
38°	1506.0	44.3	2.3	0.0	0.0	0.0	0.0	0.0
39°	1222.1	38.6	2.3	0.0	0.0	0.0	0.0	0.0
40°	974.5	34.1	2.3	0.0	0.0	0.0	0.0	0.0
42.5°	525.9	22.7	0.0	0.0	0.0	0.0	0.0	0.0
45°	290.8	14.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	128.3	8.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	43.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10.2	0.0	0.0	1.1	0.0	0.0	0.0	0.0
57.5°	2.3	0.0	0.0	1.1	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.1	2.3	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.1	2.3	1.1	0.0	0.0	0.0
65°	0.0	0.0	2.3	2.3	1.1	0.0	0.0	0.0
67.5°	0.0	1.1	2.3	3.4	1.1	0.0	0.0	0.0
70°	0.0	1.1	2.3	3.4	1.1	0.0	0.0	0.0
72.5°	0.0	1.1	2.3	3.4	1.1	0.0	0.0	0.0
75°	0.0	1.1	2.3	3.4	1.1	0.0	0.0	0.0
77.5°	0.0	1.1	2.3	3.4	1.1	0.0	0.0	0.0
80°	0.0	1.1	2.3	3.4	1.1	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	1.1	2.3	3.4	1.1	0.0	0.0	0.0
85°	0.0	1.1	2.3	3.4	1.1	0.0	0.0	0.0
87.5°	0.0	1.1	2.3	3.4	1.1	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)