

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: P1311441

Luminaire Tested: P3SQAS17R209050DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311441
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: P3SQAS17R209050DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

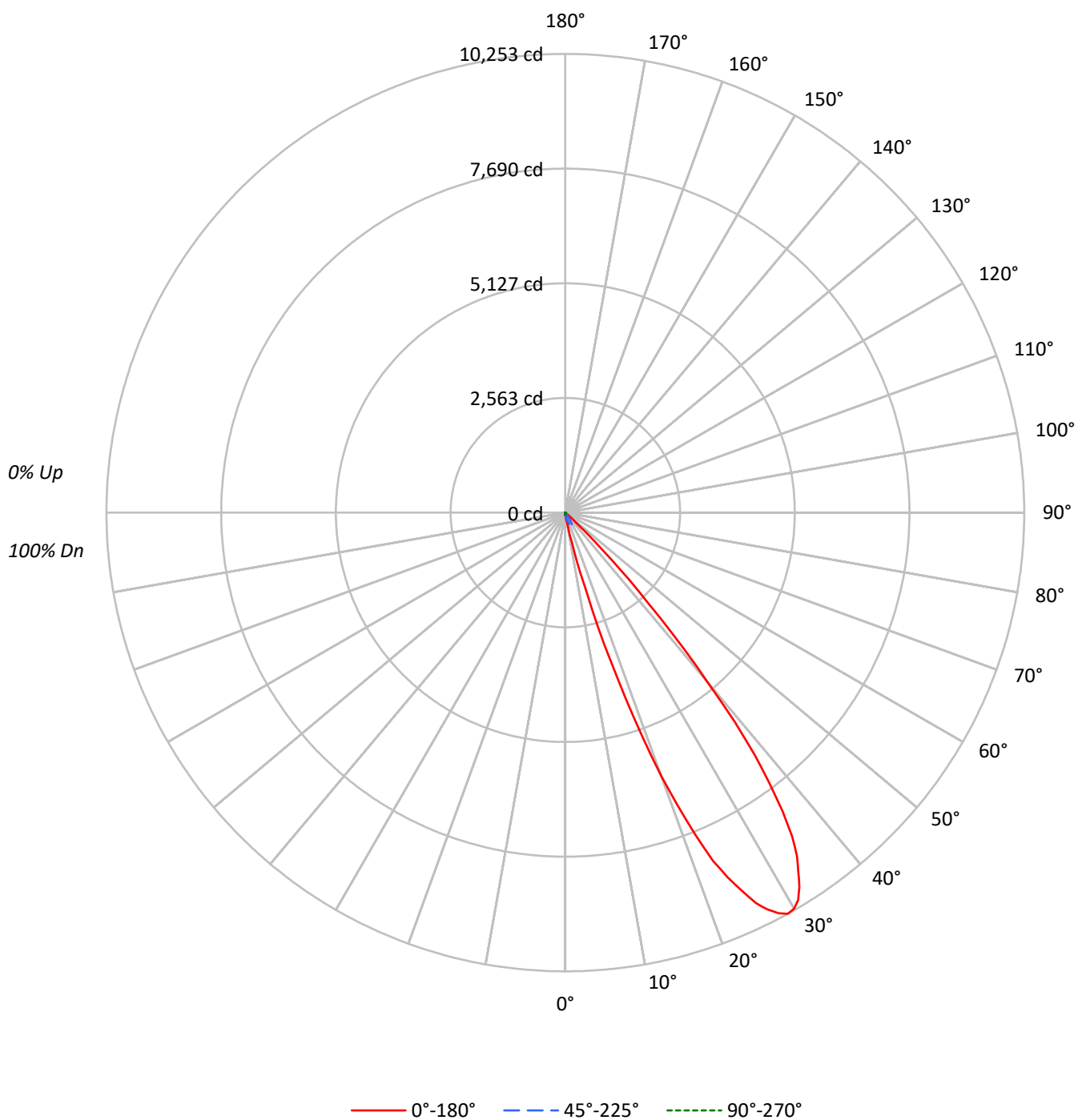
Lumens per Lamp: N/A
Luminaire Lumens: 1415.0 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1311441

CATALOG NUMBER: P3SQAS17R209050DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1311441

CATALOG NUMBER: P3SQAS17R209050DE010 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°	8732	8732	8732	8732	8732
5°	18982	13381	8022	3648	2680
10°	47252	23626	5666	734	0
15°	332454	32361	3263	0	0
20°	1149027	54414	1283	0	0
25°	1771105	69531	532	0	0
30°	2032883	53733	0	0	0
35°	1856590	20415	0	0	0
40°	1113042	9487	0	0	0
45°	273517	4457	0	0	0
50°	30169	1125	0	0	0
55°	4234	0	420	0	0
60°	0	0	964	0	0
65°	0	0	1141	0	0
70°	0	705	2115	0	0
75°	0	932	2795	0	0
80°	0	1389	4166	0	0
85°	0	2766	8299	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 291687 cd/sqm

TEST NUMBER: P1311441

CATALOG NUMBER: P3SQAS17R209050DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.4
10°-20°	110.5	7.8
20°-30°	559.0	39.5
30°-40°	604.8	42.7
40°-50°	127.7	9.0
50°-60°	3.8	0.3
60°-70°	0.9	0.1
70°-80°	1.3	0.1
80°-90°	1.2	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°	675.2	47.7
0°-40°	1280.0	90.5
0°-60°	1411.6	99.8
0°-90°	1415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1415.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	51	51	51	51	51	
5°	110	77	46	21	16	15
15°	1865	182	18	0	0	777
25°	9320	366	3	0	0	4213
35°	8831	97	0	0	0	5207
45°	1123	18	0	0	0	1235
55°	14	0	1	0	0	25
65°	0	0	3	0	0	0
75°	0	1	4	0	0	0
85°	0	1	4	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1311441

CATALOG NUMBER: P3SQAS17R209050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
2.5°	69.0	67.5	69.0	67.5	69.0	69.0	69.0	67.5	67.5	67.5	67.5
5°	109.8	109.8	108.4	109.8	109.8	109.8	109.8	108.4	108.4	107.0	107.0
7.5°	173.1	173.1	171.7	171.7	173.1	174.5	168.9	171.7	171.7	171.7	170.3
10°	270.2	275.8	270.2	277.2	271.6	267.4	274.4	267.4	267.4	266.0	261.8
12.5°	681.1	665.6	655.8	631.9	655.8	637.5	641.7	637.5	623.4	605.1	593.9
15°	1864.6	1864.6	1809.7	1882.9	1829.4	1849.1	1747.8	1749.2	1697.2	1640.9	1609.9
17.5°	3898.1	3933.3	3896.7	3874.2	3826.4	3757.4	3729.3	3657.5	3563.2	3453.4	3440.8
20°	6269.4	6121.6	6190.6	6127.2	6087.8	6003.4	5909.1	5850.0	5767.0	5627.7	5422.2
21°	7015.2	7009.6	7008.2	7006.8	6949.1	6811.2	6725.3	6607.1	6490.3	6346.8	6175.1
22°	7766.7	7793.4	7804.7	7723.1	7604.9	7543.0	7483.8	7322.0	7137.7	7063.1	6859.0
23°	8456.3	8430.9	8357.8	8319.8	8228.3	8210.0	8034.1	7931.4	7751.2	7669.6	7427.6
24°	8926.3	8913.6	8879.9	8823.6	8750.4	8637.8	8532.3	8370.4	8222.7	8089.0	7863.8
25°	9320.3	9331.6	9269.7	9231.7	9152.9	9026.2	8896.7	8719.4	8581.5	8425.3	8165.0
26°	9710.1	9631.3	9582.1	9525.8	9439.9	9295.0	9169.8	9010.7	8843.3	8668.8	8414.1
27°	9950.8	9880.4	9805.8	9751.0	9652.4	9514.5	9380.8	9204.9	9017.8	8841.9	8580.1
28°	10140.8	10063.4	9990.2	9924.0	9811.5	9663.7	9503.3	9324.6	9130.3	8948.8	8681.4
29°	10253.3	10161.9	10083.1	10008.5	9905.8	9745.3	9583.5	9392.1	9204.9	9015.0	8741.9
30°	10222.4	10143.6	10067.6	9991.6	9887.5	9736.9	9576.5	9393.5	9204.9	9017.8	8740.5
31°	10101.4	10004.3	9949.4	9873.4	9783.3	9629.9	9492.0	9292.2	9121.9	8919.3	8642.0
32°	9869.2	9807.2	9734.1	9675.0	9587.7	9424.5	9289.4	9126.1	8924.9	8758.8	8467.5
33°	9553.9	9496.2	9459.7	9390.7	9306.3	9193.7	9031.8	8882.7	8656.1	8485.8	8194.5
34°	9252.8	9179.6	9088.1	9068.4	8995.3	8850.3	8703.9	8552.0	8349.3	8132.6	7838.5
35°	8830.6	8754.6	8670.2	8677.2	8590.0	8421.1	8271.9	8101.6	7908.8	7654.1	7375.5
36°	8266.3	8215.6	8203.0	8169.2	8069.3	7868.0	7725.9	7512.0	7350.2	7039.2	6799.9
37°	7578.1	7596.4	7505.0	7461.3	7344.5	7203.8	7123.6	6849.2	6660.6	6427.0	6103.3
38°	6882.9	6856.2	6747.8	6774.6	6614.2	6467.8	6241.2	6078.0	5866.9	5650.2	5391.2
39°	6014.7	5948.5	5819.1	5824.7	5703.7	5539.0	5319.5	5126.7	5000.0	4791.7	4544.1
40°	4950.8	4922.6	4877.6	4803.0	4644.0	4572.2	4376.6	4168.3	4061.4	3772.9	3651.9
42.5°	2747.0	2709.0	2633.0	2606.3	2521.8	2437.4	2323.4	2184.1	2116.5	2030.7	1839.3
45°	1123.0	1197.6	1179.3	1158.2	1093.4	1097.7	1016.0	1025.9	951.3	900.7	865.5
47.5°	247.7	268.8	270.2	260.3	270.2	261.8	257.5	250.5	251.9	256.1	246.3
50°	112.6	111.2	114.0	112.6	111.2	109.8	108.4	104.1	107.0	104.1	101.3
52.5°	43.6	45.0	45.0	42.2	43.6	43.6	43.6	42.2	42.2	42.2	42.2
55°	14.1	14.1	14.1	12.7	12.7	14.1	14.1	14.1	14.1	14.1	12.7
57.5°	1.4	2.8	1.4	2.8	1.4	1.4	1.4	1.4	1.4	2.8	2.8
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: P1311441

CATALOG NUMBER: P3SQAS17R209050DE010 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: P1311441

CATALOG NUMBER: P3SQAS17R209050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
2.5°	64.7	59.1	54.9	50.7	42.2	35.2	32.4	32.4
5°	99.9	77.4	57.7	46.4	32.4	21.1	16.9	15.5
7.5°	150.6	104.1	60.5	39.4	21.1	11.3	7.0	5.6
10°	218.1	135.1	63.3	32.4	12.7	4.2	0.0	0.0
12.5°	381.4	161.8	63.3	25.3	5.6	0.0	0.0	0.0
15°	873.9	181.5	60.5	18.3	1.4	0.0	0.0	0.0
17.5°	1815.4	228.0	53.5	12.7	0.0	0.0	0.0	0.0
20°	2899.0	296.9	42.2	7.0	0.0	0.0	0.0	0.0
21°	3345.1	320.9	38.0	5.6	0.0	0.0	0.0	0.0
22°	3665.9	343.4	33.8	4.2	0.0	0.0	0.0	0.0
23°	4019.2	357.4	29.6	2.8	0.0	0.0	0.0	0.0
24°	4279.5	365.9	25.3	2.8	0.0	0.0	0.0	0.0
25°	4441.3	365.9	22.5	2.8	0.0	0.0	0.0	0.0
26°	4537.0	357.4	19.7	1.4	0.0	0.0	0.0	0.0
27°	4559.5	343.4	16.9	1.4	0.0	0.0	0.0	0.0
28°	4531.4	325.1	14.1	0.0	0.0	0.0	0.0	0.0
29°	4442.7	298.3	12.7	0.0	0.0	0.0	0.0	0.0
30°	4347.0	270.2	9.9	0.0	0.0	0.0	0.0	0.0
31°	4183.8	232.2	8.4	0.0	0.0	0.0	0.0	0.0
32°	3995.2	192.8	7.0	0.0	0.0	0.0	0.0	0.0
33°	3743.3	152.0	5.6	0.0	0.0	0.0	0.0	0.0
34°	3371.8	119.6	5.6	0.0	0.0	0.0	0.0	0.0
35°	3038.3	97.1	4.2	0.0	0.0	0.0	0.0	0.0
36°	2602.0	77.4	4.2	0.0	0.0	0.0	0.0	0.0
37°	2229.1	64.7	4.2	0.0	0.0	0.0	0.0	0.0
38°	1866.0	54.9	2.8	0.0	0.0	0.0	0.0	0.0
39°	1514.2	47.8	2.8	0.0	0.0	0.0	0.0	0.0
40°	1207.4	42.2	2.8	0.0	0.0	0.0	0.0	0.0
42.5°	651.6	28.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	360.3	18.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	159.0	9.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	53.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12.7	0.0	0.0	1.4	0.0	0.0	0.0	0.0
57.5°	2.8	0.0	0.0	1.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.4	2.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.4	2.8	1.4	0.0	0.0	0.0
65°	0.0	0.0	2.8	2.8	1.4	0.0	0.0	0.0
67.5°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
70°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
72.5°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
75°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
77.5°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
80°	0.0	1.4	2.8	4.2	1.4	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	1.4	2.8	4.2	1.4	0.0	0.0	0.0
85°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
87.5°	0.0	1.4	2.8	4.2	1.4	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)