

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: P1314492

Luminaire Tested: P3SQAS17R209735DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314492
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: P3SQAS17R209735DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

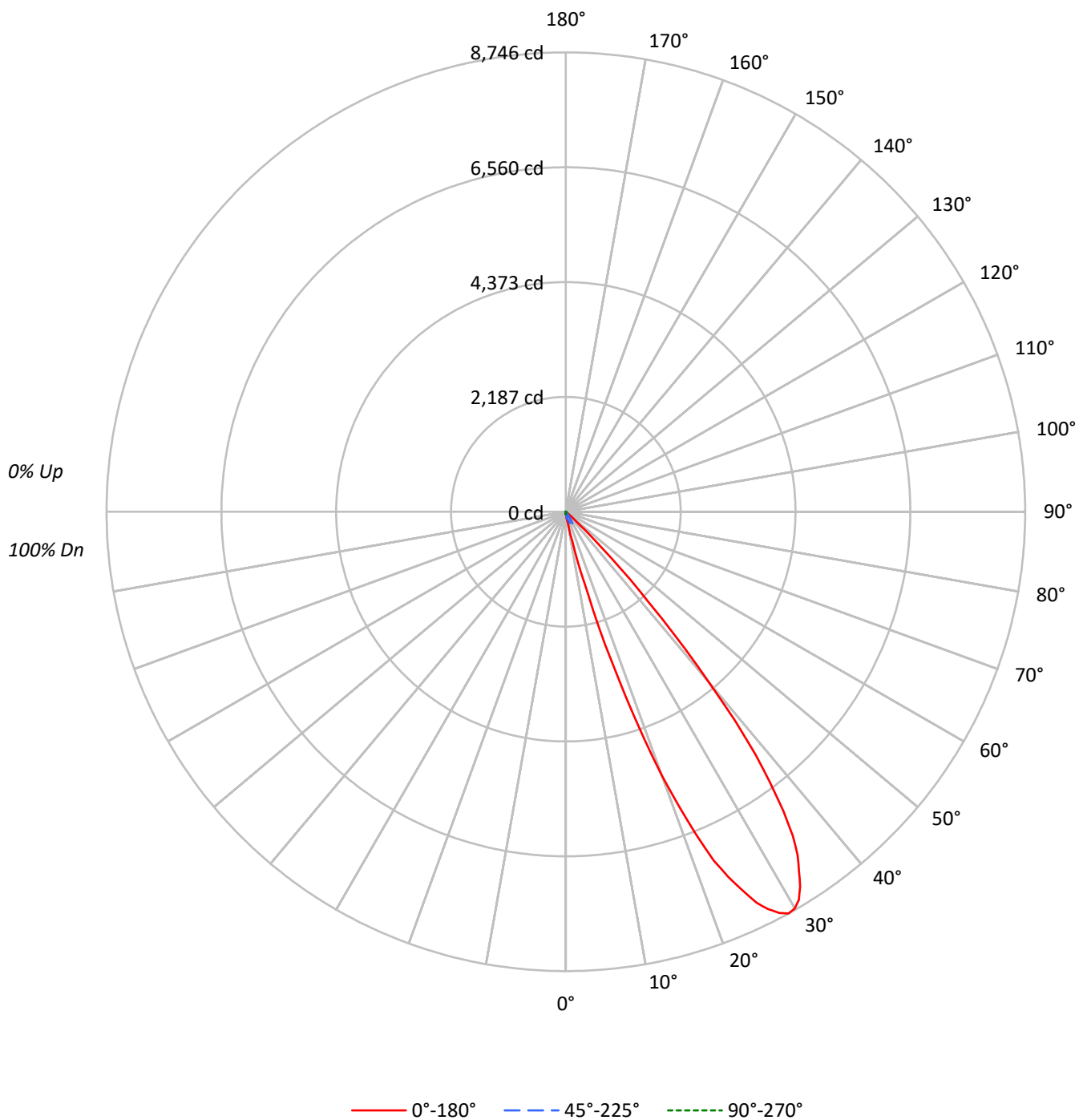
Lumens per Lamp: N/A
Luminaire Lumens: 1207.0 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314492

CATALOG NUMBER: P3SQAS17R209735DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1314492

CATALOG NUMBER: P3SQAS17R209735DE010 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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	63	63	61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	57	57	55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	51	51	50
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	46	46	45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	42	42	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	38	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7440	7440	7440	7440	7440
5°	16182	11410	6846	3112	2282
10°	40310	20146	4827	630	0
15°	283583	27618	2781	0	0
20°	980121	46424	1100	0	0
25°	1510769	59307	456	0	0
30°	1734048	45839	0	0	0
35°	1583671	17408	0	0	0
40°	949418	8094	0	0	0
45°	233306	3800	0	0	0
50°	25721	965	0	0	0
55°	3603	0	360	0	0
60°	0	0	827	0	0
65°	0	0	978	0	0
70°	0	604	1813	0	0
75°	0	799	2396	0	0
80°	0	1190	3570	0	0
85°	0	2371	7114	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 248796 cd/sqm

TEST NUMBER: P1314492

CATALOG NUMBER: P3SQAS17R209735DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.4
10°-20°	94.3	7.8
20°-30°	476.8	39.5
30°-40°	515.9	42.7
40°-50°	109.0	9.0
50°-60°	3.3	0.3
60°-70°	0.8	0.1
70°-80°	1.1	0.1
80°-90°	1.0	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°	576.0	47.7
0°-40°	1091.9	90.5
0°-60°	1204.1	99.8
0°-90°	1207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1207.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	43	43	43	43	43	
5°	94	66	40	18	13	13
15°	1590	155	16	0	0	663
25°	7950	312	2	0	0	3594
35°	7532	83	0	0	0	4442
45°	958	16	0	0	0	1054
55°	12	0	1	0	0	21
65°	0	0	2	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: P1314492

CATALOG NUMBER: P3SQAS17R209735DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2.5°	58.8	57.6	58.8	57.6	58.8	58.8	58.8	57.6	57.6	57.6	57.6
5°	93.6	93.6	92.4	93.6	93.6	93.6	93.6	92.4	92.4	91.2	91.2
7.5°	147.6	147.6	146.4	146.4	147.6	148.9	144.0	146.4	146.4	146.4	145.2
10°	230.5	235.3	230.5	236.5	231.7	228.1	234.1	228.1	228.1	226.9	223.3
12.5°	581.0	567.8	559.4	539.0	559.4	543.8	547.4	543.8	531.8	516.2	506.6
15°	1590.5	1590.5	1543.7	1606.1	1560.5	1577.3	1490.9	1492.1	1447.7	1399.7	1373.3
17.5°	3325.1	3355.1	3323.9	3304.7	3263.9	3205.1	3181.1	3119.8	3039.4	2945.8	2935.0
20°	5347.8	5221.8	5280.6	5226.6	5192.9	5120.9	5040.5	4990.1	4919.3	4800.4	4625.2
21°	5984.0	5979.2	5978.0	5976.8	5927.6	5810.0	5736.7	5635.9	5536.3	5413.8	5267.4
22°	6625.0	6647.8	6657.4	6587.8	6487.0	6434.2	6383.7	6245.7	6088.4	6024.8	5850.8
23°	7213.2	7191.6	7129.2	7096.8	7018.8	7003.2	6853.1	6765.5	6611.8	6542.2	6335.7
24°	7614.2	7603.4	7574.5	7526.5	7464.1	7368.1	7278.0	7140.0	7014.0	6899.9	6707.9
25°	7950.3	7959.9	7907.1	7874.6	7807.4	7699.4	7589.0	7437.7	7320.1	7186.8	6964.7
26°	8282.8	8215.6	8173.6	8125.5	8052.3	7928.7	7821.8	7686.2	7543.3	7394.5	7177.2
27°	8488.1	8428.0	8364.4	8317.6	8233.6	8115.9	8001.9	7851.8	7692.2	7542.1	7318.9
28°	8650.1	8584.1	8521.7	8465.2	8369.2	8243.2	8106.3	7953.9	7788.2	7633.4	7405.3
29°	8746.1	8668.1	8600.9	8537.3	8449.6	8312.8	8174.8	8011.5	7851.8	7689.8	7456.9
30°	8719.7	8652.5	8587.7	8522.9	8434.0	8305.6	8168.7	8012.7	7851.8	7692.2	7455.7
31°	8616.5	8533.7	8486.9	8422.0	8345.2	8214.4	8096.7	7926.3	7781.0	7608.2	7371.7
32°	8418.4	8365.6	8303.2	8252.8	8178.4	8039.1	7923.9	7784.6	7613.0	7471.3	7222.8
33°	8149.5	8100.3	8069.1	8010.3	7938.3	7842.2	7704.2	7576.9	7383.7	7238.4	6990.0
34°	7892.7	7830.2	7752.2	7735.4	7673.0	7549.3	7424.5	7294.9	7122.0	6937.1	6686.2
35°	7532.5	7467.7	7395.7	7401.7	7327.3	7183.2	7056.0	6910.7	6746.3	6529.0	6291.3
36°	7051.2	7008.0	6997.2	6968.3	6883.1	6711.5	6590.2	6407.8	6269.7	6004.4	5800.4
37°	6464.2	6479.8	6401.8	6364.5	6264.9	6144.9	6076.4	5842.4	5681.5	5482.2	5206.2
38°	5871.2	5848.4	5755.9	5778.7	5641.9	5517.1	5323.8	5184.5	5004.5	4819.6	4598.7
39°	5130.5	5074.1	4963.7	4968.5	4865.2	4724.8	4537.5	4373.1	4265.0	4087.4	3876.1
40°	4223.0	4199.0	4160.6	4097.0	3961.3	3900.1	3733.3	3555.6	3464.4	3218.3	3115.0
42.5°	2343.2	2310.8	2246.0	2223.1	2151.1	2079.1	1981.9	1863.0	1805.4	1732.2	1568.9
45°	957.9	1021.5	1005.9	987.9	932.7	936.3	866.7	875.1	811.5	768.3	738.2
47.5°	211.3	229.3	230.5	222.1	230.5	223.3	219.7	213.7	214.9	218.5	210.1
50°	96.0	94.8	97.2	96.0	94.8	93.6	92.4	88.8	91.2	88.8	86.4
52.5°	37.2	38.4	38.4	36.0	37.2	37.2	37.2	36.0	36.0	36.0	36.0
55°	12.0	12.0	12.0	10.8	10.8	12.0	12.0	12.0	12.0	12.0	10.8
57.5°	1.2	2.4	1.2	2.4	1.2	1.2	1.2	1.2	1.2	2.4	2.4
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: P1314492

CATALOG NUMBER: P3SQAS17R209735DE010 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: P1314492

CATALOG NUMBER: P3SQAS17R209735DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2.5°	55.2	50.4	46.8	43.2	36.0	30.0	27.6	27.6
5°	85.2	66.0	49.2	39.6	27.6	18.0	14.4	13.2
7.5°	128.4	88.8	51.6	33.6	18.0	9.6	6.0	4.8
10°	186.1	115.2	54.0	27.6	10.8	3.6	0.0	0.0
12.5°	325.3	138.0	54.0	21.6	4.8	0.0	0.0	0.0
15°	745.5	154.9	51.6	15.6	1.2	0.0	0.0	0.0
17.5°	1548.5	194.5	45.6	10.8	0.0	0.0	0.0	0.0
20°	2472.8	253.3	36.0	6.0	0.0	0.0	0.0	0.0
21°	2853.4	273.7	32.4	4.8	0.0	0.0	0.0	0.0
22°	3127.1	292.9	28.8	3.6	0.0	0.0	0.0	0.0
23°	3428.4	304.9	25.2	2.4	0.0	0.0	0.0	0.0
24°	3650.4	312.1	21.6	2.4	0.0	0.0	0.0	0.0
25°	3788.5	312.1	19.2	2.4	0.0	0.0	0.0	0.0
26°	3870.1	304.9	16.8	1.2	0.0	0.0	0.0	0.0
27°	3889.3	292.9	14.4	1.2	0.0	0.0	0.0	0.0
28°	3865.3	277.3	12.0	0.0	0.0	0.0	0.0	0.0
29°	3789.7	254.5	10.8	0.0	0.0	0.0	0.0	0.0
30°	3708.0	230.5	8.4	0.0	0.0	0.0	0.0	0.0
31°	3568.8	198.1	7.2	0.0	0.0	0.0	0.0	0.0
32°	3407.9	164.5	6.0	0.0	0.0	0.0	0.0	0.0
33°	3193.1	129.6	4.8	0.0	0.0	0.0	0.0	0.0
34°	2876.2	102.0	4.8	0.0	0.0	0.0	0.0	0.0
35°	2591.7	82.8	3.6	0.0	0.0	0.0	0.0	0.0
36°	2219.5	66.0	3.6	0.0	0.0	0.0	0.0	0.0
37°	1901.4	55.2	3.6	0.0	0.0	0.0	0.0	0.0
38°	1591.7	46.8	2.4	0.0	0.0	0.0	0.0	0.0
39°	1291.6	40.8	2.4	0.0	0.0	0.0	0.0	0.0
40°	1029.9	36.0	2.4	0.0	0.0	0.0	0.0	0.0
42.5°	555.8	24.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	307.3	15.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	135.6	8.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	45.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	22.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10.8	0.0	0.0	1.2	0.0	0.0	0.0	0.0
57.5°	2.4	0.0	0.0	1.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.2	2.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.2	2.4	1.2	0.0	0.0	0.0
65°	0.0	0.0	2.4	2.4	1.2	0.0	0.0	0.0
67.5°	0.0	1.2	2.4	3.6	1.2	0.0	0.0	0.0
70°	0.0	1.2	2.4	3.6	1.2	0.0	0.0	0.0
72.5°	0.0	1.2	2.4	3.6	1.2	0.0	0.0	0.0
75°	0.0	1.2	2.4	3.6	1.2	0.0	0.0	0.0
77.5°	0.0	1.2	2.4	3.6	1.2	0.0	0.0	0.0
80°	0.0	1.2	2.4	3.6	1.2	0.0	0.0	0.0



TEST NUMBER: P1314492

CATALOG NUMBER: P3SQAS17R209735DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.2	2.4	3.6	1.2	0.0	0.0	0.0
85°	0.0	1.2	2.4	3.6	1.2	0.0	0.0	0.0
87.5°	0.0	1.2	2.4	3.6	1.2	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)