

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: P1316496

Luminaire Tested: P3SQAS20R209827D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316496
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: P3SQAS20R209827D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

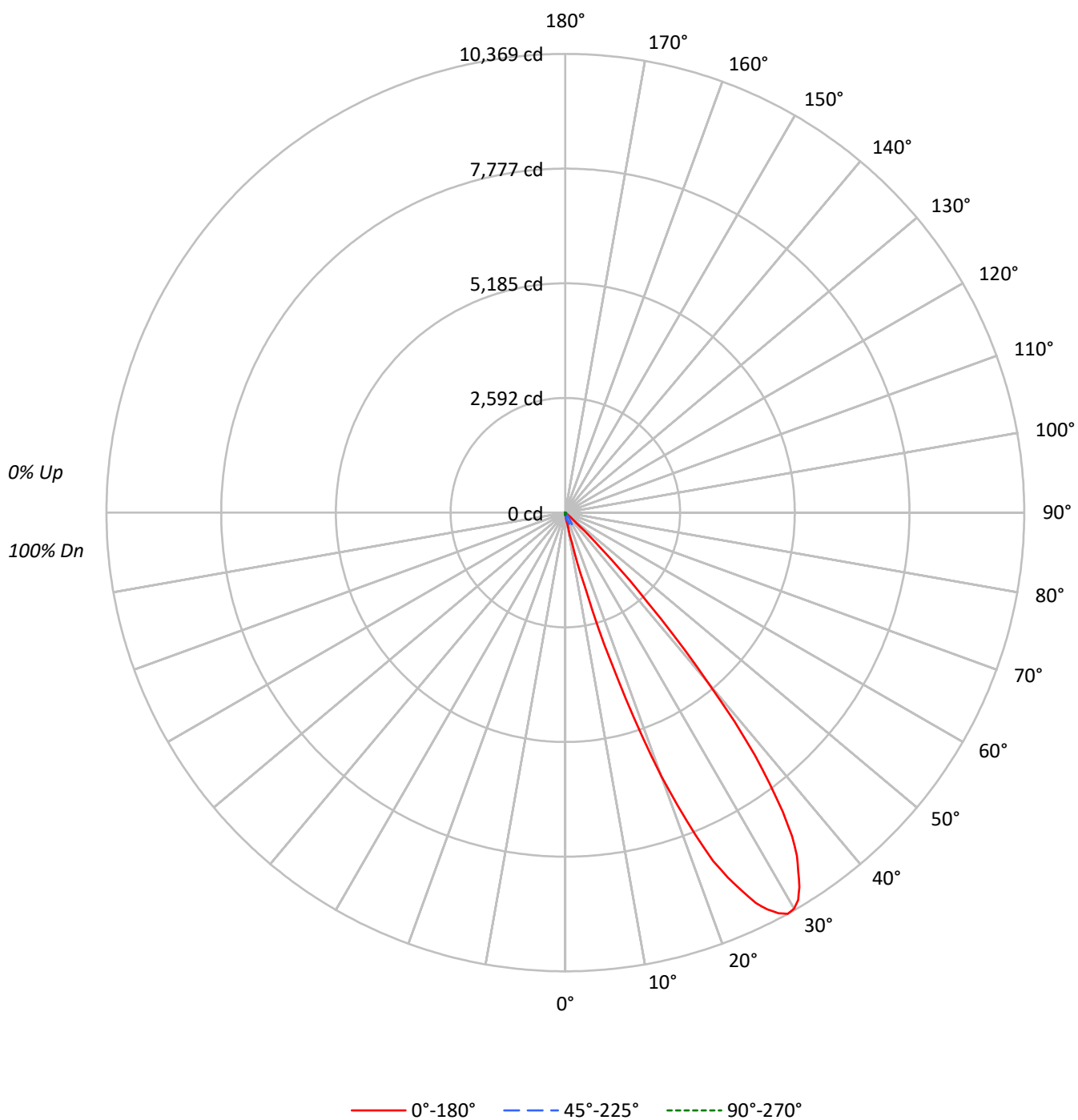
Lumens per Lamp: N/A
Luminaire Lumens: 1431.0 lumens
Efficiency: N/A
Efficacy: 52.2 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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: P1316496

CATALOG NUMBER: P3SQAS20R209827D010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1316496

CATALOG NUMBER: P3SQAS20R209827D010 E3SQCA301MB

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°	8818	8818	8818	8818	8818
5°	19190	13537	8125	3682	2714
10°	47795	23889	5719	752	0
15°	336217	32736	3299	0	0
20°	1162022	55038	1301	0	0
25°	1791134	70310	532	0	0
30°	2055872	54350	0	0	0
35°	1877593	20646	0	0	0
40°	1125610	9600	0	0	0
45°	276611	4506	0	0	0
50°	30517	1152	0	0	0
55°	4264	0	420	0	0
60°	0	0	964	0	0
65°	0	0	1141	0	0
70°	0	705	2165	0	0
75°	0	932	2861	0	0
80°	0	1389	4265	0	0
85°	0	2766	8497	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 294975 cd/sqm

TEST NUMBER: P1316496

CATALOG NUMBER: P3SQAS20R209827D010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.4
10°-20°	111.8	7.8
20°-30°	565.3	39.5
30°-40°	611.6	42.7
40°-50°	129.2	9.0
50°-60°	3.9	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°	682.9	47.7
0°-40°	1294.5	90.5
0°-60°	1427.6	99.8
0°-90°	1431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1431.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	51	51	51	51	51	
5°	111	78	47	21	16	16
15°	1886	184	18	0	0	786
25°	9426	370	3	0	0	4260
35°	8930	98	0	0	0	5266
45°	1136	18	0	0	0	1249
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: P1316496

CATALOG NUMBER: P3SQAS20R209827D010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
2.5°	69.7	68.3	69.7	68.3	69.7	69.7	69.7	68.3	68.3	68.3	68.3
5°	111.0	111.0	109.6	111.0	111.0	111.0	111.0	109.6	109.6	108.2	108.2
7.5°	175.1	175.1	173.6	173.6	175.1	176.5	170.8	173.6	173.6	173.6	172.2
10°	273.3	278.9	273.3	280.4	274.7	270.4	277.5	270.4	270.4	269.0	264.7
12.5°	688.8	673.2	663.2	639.0	663.2	644.7	649.0	644.7	630.5	612.0	600.6
15°	1885.7	1885.7	1830.2	1904.2	1850.1	1870.1	1767.6	1769.0	1716.4	1659.4	1628.1
17.5°	3942.2	3977.8	3940.8	3918.0	3869.6	3799.9	3771.4	3698.8	3603.5	3492.5	3479.7
20°	6340.3	6190.8	6260.6	6196.5	6156.7	6071.3	5975.9	5916.2	5832.2	5691.3	5483.5
21°	7094.6	7088.9	7087.4	7086.0	7027.7	6888.2	6801.4	6681.8	6563.7	6418.5	6244.9
22°	7854.5	7881.6	7893.0	7810.4	7690.9	7628.2	7568.5	7404.8	7218.4	7142.9	6936.6
23°	8551.9	8526.3	8452.3	8413.8	8321.3	8302.8	8124.9	8021.0	7838.9	7756.3	7511.5
24°	9027.2	9014.4	8980.3	8923.3	8849.3	8735.5	8628.7	8465.1	8315.6	8180.4	7952.7
25°	9425.7	9437.1	9374.5	9336.1	9256.4	9128.3	8997.3	8818.0	8678.6	8520.6	8257.3
26°	9819.9	9740.2	9690.4	9633.5	9546.7	9400.1	9273.4	9112.6	8943.3	8766.8	8509.2
27°	10063.3	9992.1	9916.7	9861.2	9761.6	9622.1	9486.9	9309.0	9119.7	8941.8	8677.1
28°	10255.4	10177.2	10103.2	10036.3	9922.4	9773.0	9610.7	9430.0	9233.6	9050.0	8779.6
29°	10369.3	10276.8	10197.1	10121.7	10017.8	9855.5	9691.9	9498.3	9309.0	9116.9	8840.8
30°	10338.0	10258.3	10181.4	10104.6	9999.3	9847.0	9684.7	9499.7	9309.0	9119.7	8839.4
31°	10215.6	10117.4	10061.9	9985.0	9893.9	9738.8	9599.3	9397.3	9225.1	9020.1	8739.7
32°	9980.8	9918.1	9844.1	9784.4	9696.1	9531.0	9394.4	9229.3	9025.8	8857.9	8563.3
33°	9662.0	9603.6	9566.6	9496.9	9411.5	9297.6	9134.0	8983.1	8754.0	8581.8	8287.2
34°	9357.4	9283.4	9190.9	9171.0	9097.0	8950.4	8802.4	8648.7	8443.7	8224.6	7927.1
35°	8930.5	8853.6	8768.2	8775.3	8687.1	8516.3	8365.5	8193.2	7998.3	7740.7	7458.9
36°	8359.8	8308.5	8295.7	8261.6	8160.5	7957.0	7813.3	7596.9	7433.3	7118.7	6876.8
37°	7663.8	7682.3	7589.8	7545.7	7427.6	7285.3	7204.1	6926.6	6735.9	6499.7	6172.3
38°	6960.8	6933.7	6824.1	6851.2	6688.9	6540.9	6311.8	6146.7	5933.2	5714.1	5452.2
39°	6082.7	6015.8	5884.8	5890.5	5768.1	5601.6	5379.6	5184.6	5056.6	4845.9	4595.4
40°	5006.7	4978.3	4932.7	4857.3	4696.5	4623.9	4426.1	4215.5	4107.3	3815.5	3693.2
42.5°	2778.0	2739.6	2662.8	2635.7	2550.3	2464.9	2349.7	2208.8	2140.5	2053.6	1860.1
45°	1135.7	1211.1	1192.6	1171.3	1105.8	1110.1	1027.5	1037.5	962.1	910.8	875.3
47.5°	250.5	271.8	273.3	263.3	273.3	264.7	260.4	253.3	254.7	259.0	249.1
50°	113.9	112.4	115.3	113.9	112.4	111.0	109.6	105.3	108.2	105.3	102.5
52.5°	44.1	45.5	45.5	42.7	44.1	44.1	44.1	42.7	42.7	42.7	42.7
55°	14.2	14.2	14.2	12.8	12.8	14.2	14.2	14.2	14.2	14.2	12.8
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: P1316496

CATALOG NUMBER: P3SQAS20R209827D010 E3SQCA301MB

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: P1316496

CATALOG NUMBER: P3SQAS20R209827D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
2.5°	65.5	59.8	55.5	51.2	42.7	35.6	32.7	32.7
5°	101.0	78.3	58.4	47.0	32.7	21.3	17.1	15.7
7.5°	152.3	105.3	61.2	39.8	21.3	11.4	7.1	5.7
10°	220.6	136.6	64.0	32.7	12.8	4.3	0.0	0.0
12.5°	385.7	163.7	64.0	25.6	5.7	0.0	0.0	0.0
15°	883.8	183.6	61.2	18.5	1.4	0.0	0.0	0.0
17.5°	1835.9	230.6	54.1	12.8	0.0	0.0	0.0	0.0
20°	2931.8	300.3	42.7	7.1	0.0	0.0	0.0	0.0
21°	3382.9	324.5	38.4	5.7	0.0	0.0	0.0	0.0
22°	3707.4	347.3	34.2	4.3	0.0	0.0	0.0	0.0
23°	4064.6	361.5	29.9	2.8	0.0	0.0	0.0	0.0
24°	4327.9	370.0	25.6	2.8	0.0	0.0	0.0	0.0
25°	4491.6	370.0	22.8	2.8	0.0	0.0	0.0	0.0
26°	4588.3	361.5	19.9	1.4	0.0	0.0	0.0	0.0
27°	4611.1	347.3	17.1	1.4	0.0	0.0	0.0	0.0
28°	4582.6	328.8	14.2	0.0	0.0	0.0	0.0	0.0
29°	4493.0	301.7	12.8	0.0	0.0	0.0	0.0	0.0
30°	4396.2	273.3	10.0	0.0	0.0	0.0	0.0	0.0
31°	4231.1	234.8	8.5	0.0	0.0	0.0	0.0	0.0
32°	4040.4	195.0	7.1	0.0	0.0	0.0	0.0	0.0
33°	3785.7	153.7	5.7	0.0	0.0	0.0	0.0	0.0
34°	3409.9	121.0	5.7	0.0	0.0	0.0	0.0	0.0
35°	3072.6	98.2	4.3	0.0	0.0	0.0	0.0	0.0
36°	2631.5	78.3	4.3	0.0	0.0	0.0	0.0	0.0
37°	2254.3	65.5	4.3	0.0	0.0	0.0	0.0	0.0
38°	1887.1	55.5	2.8	0.0	0.0	0.0	0.0	0.0
39°	1531.3	48.4	2.8	0.0	0.0	0.0	0.0	0.0
40°	1221.1	42.7	2.8	0.0	0.0	0.0	0.0	0.0
42.5°	658.9	28.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	364.3	18.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	160.8	10.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	54.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12.8	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	4.3	1.4	0.0	0.0	0.0
70°	0.0	1.4	2.8	4.3	1.4	0.0	0.0	0.0
72.5°	0.0	1.4	2.8	4.3	1.4	0.0	0.0	0.0
75°	0.0	1.4	2.8	4.3	1.4	0.0	0.0	0.0
77.5°	0.0	1.4	2.8	4.3	1.4	0.0	0.0	0.0
80°	0.0	1.4	2.8	4.3	1.4	0.0	0.0	0.0



TEST NUMBER: P1316496

CATALOG NUMBER: P3SQAS20R209827D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.4	2.8	4.3	1.4	0.0	0.0	0.0
85°	0.0	1.4	2.8	4.3	1.4	0.0	0.0	0.0
87.5°	0.0	1.4	2.8	4.3	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)