

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: P1317519

Luminaire Tested: P3SQAS02R209835DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317519
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: P3SQAS02R209835DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

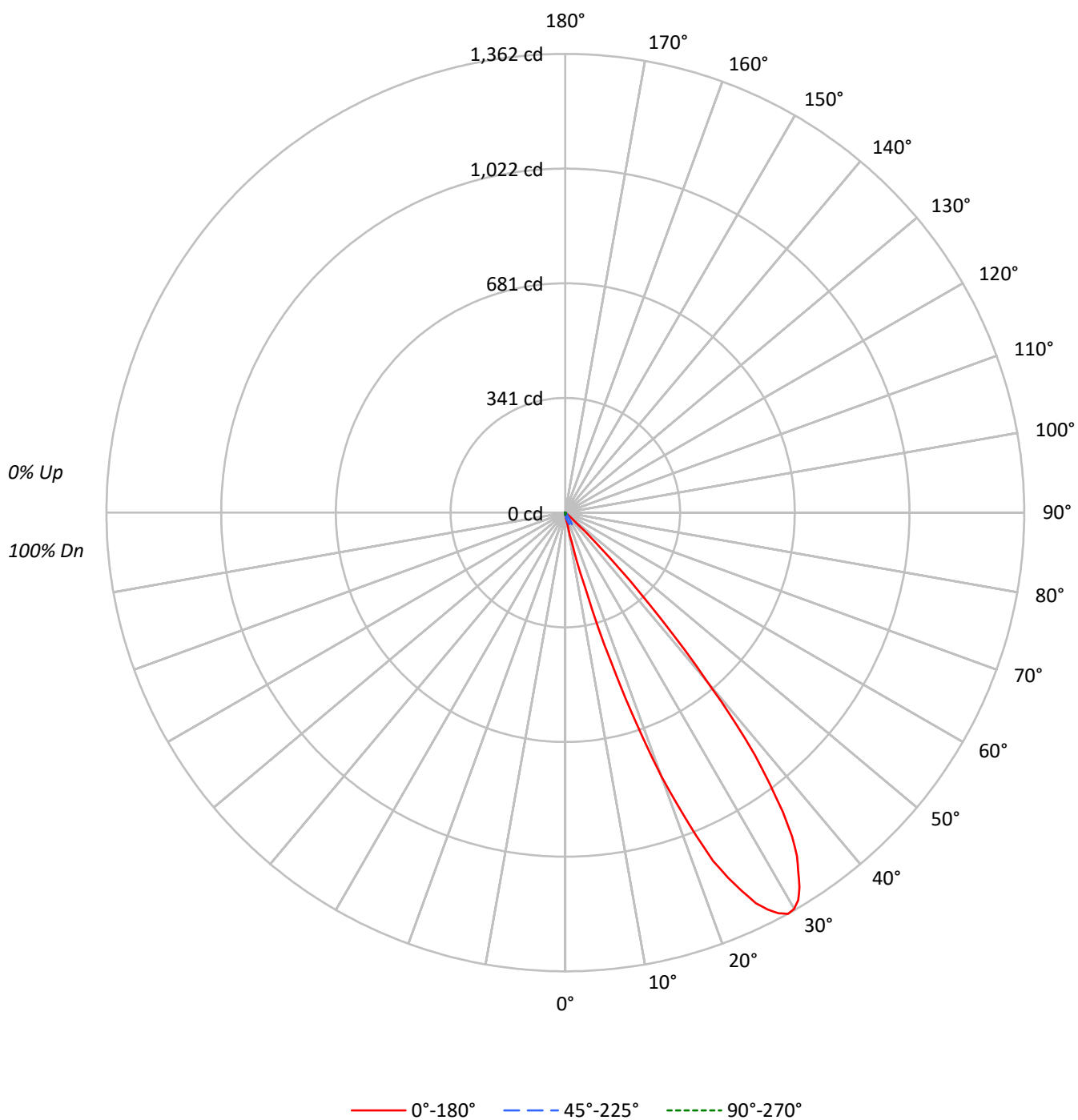
Lumens per Lamp: N/A
Luminaire Lumens: 188.0 lumens
Efficiency: N/A
Efficacy: 52.2 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.43 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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

TEST NUMBER: P1317519

CATALOG NUMBER: P3SQAS02R209835DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1317519

CATALOG NUMBER: P3SQAS02R209835DE010 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	79	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°	1154	1154	1154	1154	1154
5°	2524	1781	1072	484	363
10°	6278	3130	752	105	0
15°	44164	4297	428	0	0
20°	152668	7239	165	0	0
25°	235310	9235	76	0	0
30°	270099	7139	0	0	0
35°	246680	2712	0	0	0
40°	147887	1259	0	0	0
45°	36339	585	0	0	0
50°	4019	161	0	0	0
55°	570	0	60	0	0
60°	0	0	138	0	0
65°	0	0	163	0	0
70°	0	101	302	0	0
75°	0	133	399	0	0
80°	0	198	595	0	0
85°	0	395	1186	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 38750 cd/sqm

TEST NUMBER: P1317519

CATALOG NUMBER: P3SQAS02R209835DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.4
10°-20°	14.7	7.8
20°-30°	74.3	39.5
30°-40°	80.4	42.7
40°-50°	17.0	9.0
50°-60°	0.5	0.3
60°-70°	0.1	0.1
70°-80°	0.2	0.1
80°-90°	0.2	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°	89.7	47.7
0°-40°	170.1	90.4
0°-60°	187.6	99.7
0°-90°	188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	188.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	15	10	6	3	2	2
15°	248	24	2	0	0	103
25°	1238	49	0	0	0	560
35°	1173	13	0	0	0	692
45°	149	2	0	0	0	164
55°	2	0	0	0	0	3
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1317519

CATALOG NUMBER: P3SQAS02R209835DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
2.5°	9.2	9.0	9.2	9.0	9.2	9.2	9.2	9.0	9.0	9.0	9.0
5°	14.6	14.6	14.4	14.6	14.6	14.6	14.6	14.4	14.4	14.2	14.2
7.5°	23.0	23.0	22.8	22.8	23.0	23.2	22.4	22.8	22.8	22.8	22.6
10°	35.9	36.6	35.9	36.8	36.1	35.5	36.5	35.5	35.5	35.3	34.8
12.5°	90.5	88.4	87.1	84.0	87.1	84.7	85.3	84.7	82.8	80.4	78.9
15°	247.7	247.7	240.4	250.2	243.1	245.7	232.2	232.4	225.5	218.0	213.9
17.5°	517.9	522.6	517.7	514.7	508.4	499.2	495.5	485.9	473.4	458.8	457.1
20°	833.0	813.3	822.5	814.1	808.8	797.6	785.1	777.2	766.2	747.7	720.4
21°	932.1	931.3	931.1	930.9	923.3	904.9	893.5	877.8	862.3	843.2	820.4
22°	1031.9	1035.5	1037.0	1026.1	1010.4	1002.2	994.3	972.8	948.3	938.4	911.3
23°	1123.5	1120.2	1110.4	1105.4	1093.2	1090.8	1067.4	1053.8	1029.8	1019.0	986.8
24°	1186.0	1184.3	1179.8	1172.3	1162.6	1147.6	1133.6	1112.1	1092.5	1074.7	1044.8
25°	1238.3	1239.8	1231.6	1226.5	1216.1	1199.2	1182.0	1158.5	1140.2	1119.4	1084.8
26°	1290.1	1279.6	1273.1	1265.6	1254.2	1235.0	1218.3	1197.2	1174.9	1151.8	1117.9
27°	1322.1	1312.7	1302.8	1295.5	1282.4	1264.1	1246.4	1223.0	1198.1	1174.7	1140.0
28°	1347.3	1337.0	1327.3	1318.5	1303.6	1283.9	1262.6	1238.9	1213.1	1189.0	1153.4
29°	1362.3	1350.1	1339.7	1329.7	1316.1	1294.8	1273.3	1247.9	1223.0	1197.7	1161.5
30°	1358.2	1347.7	1337.6	1327.5	1313.7	1293.7	1272.3	1248.0	1223.0	1198.1	1161.3
31°	1342.1	1329.2	1321.9	1311.8	1299.8	1279.5	1261.1	1234.6	1212.0	1185.0	1148.2
32°	1311.2	1303.0	1293.3	1285.4	1273.8	1252.2	1234.2	1212.5	1185.8	1163.7	1125.0
33°	1269.4	1261.7	1256.8	1247.7	1236.4	1221.5	1200.0	1180.2	1150.1	1127.4	1088.7
34°	1229.3	1219.6	1207.5	1204.9	1195.1	1175.9	1156.4	1136.2	1109.3	1080.5	1041.4
35°	1173.3	1163.2	1151.9	1152.9	1141.3	1118.8	1099.0	1076.4	1050.8	1016.9	979.9
36°	1098.3	1091.5	1089.9	1085.4	1072.1	1045.4	1026.5	998.1	976.6	935.2	903.5
37°	1006.8	1009.3	997.1	991.3	975.8	957.1	946.5	910.0	884.9	853.9	810.9
38°	914.5	910.9	896.5	900.1	878.8	859.3	829.2	807.5	779.5	750.7	716.3
39°	799.1	790.3	773.1	773.9	757.8	735.9	706.8	681.1	664.3	636.6	603.7
40°	657.8	654.0	648.0	638.1	617.0	607.5	581.5	553.8	539.6	501.3	485.2
42.5°	365.0	359.9	349.8	346.3	335.1	323.8	308.7	290.2	281.2	269.8	244.4
45°	149.2	159.1	156.7	153.9	145.3	145.8	135.0	136.3	126.4	119.7	115.0
47.5°	32.9	35.7	35.9	34.6	35.9	34.8	34.2	33.3	33.5	34.0	32.7
50°	15.0	14.8	15.1	15.0	14.8	14.6	14.4	13.8	14.2	13.8	13.5
52.5°	5.8	6.0	6.0	5.6	5.8	5.8	5.8	5.6	5.6	5.6	5.6
55°	1.9	1.9	1.9	1.7	1.7	1.9	1.9	1.9	1.9	1.9	1.7
57.5°	0.2	0.4	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.4
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: P1317519

CATALOG NUMBER: P3SQAS02R209835DE010 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: P1317519

CATALOG NUMBER: P3SQAS02R209835DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
2.5°	8.6	7.9	7.3	6.7	5.6	4.7	4.3	4.3
5°	13.3	10.3	7.7	6.2	4.3	2.8	2.2	2.1
7.5°	20.0	13.8	8.0	5.2	2.8	1.5	0.9	0.7
10°	29.0	17.9	8.4	4.3	1.7	0.6	0.0	0.0
12.5°	50.7	21.5	8.4	3.4	0.7	0.0	0.0	0.0
15°	116.1	24.1	8.0	2.4	0.2	0.0	0.0	0.0
17.5°	241.2	30.3	7.1	1.7	0.0	0.0	0.0	0.0
20°	385.2	39.5	5.6	0.9	0.0	0.0	0.0	0.0
21°	444.4	42.6	5.0	0.7	0.0	0.0	0.0	0.0
22°	487.1	45.6	4.5	0.6	0.0	0.0	0.0	0.0
23°	534.0	47.5	3.9	0.4	0.0	0.0	0.0	0.0
24°	568.6	48.6	3.4	0.4	0.0	0.0	0.0	0.0
25°	590.1	48.6	3.0	0.4	0.0	0.0	0.0	0.0
26°	602.8	47.5	2.6	0.2	0.0	0.0	0.0	0.0
27°	605.8	45.6	2.2	0.2	0.0	0.0	0.0	0.0
28°	602.1	43.2	1.9	0.0	0.0	0.0	0.0	0.0
29°	590.3	39.6	1.7	0.0	0.0	0.0	0.0	0.0
30°	577.6	35.9	1.3	0.0	0.0	0.0	0.0	0.0
31°	555.9	30.9	1.1	0.0	0.0	0.0	0.0	0.0
32°	530.8	25.6	0.9	0.0	0.0	0.0	0.0	0.0
33°	497.3	20.2	0.7	0.0	0.0	0.0	0.0	0.0
34°	448.0	15.9	0.7	0.0	0.0	0.0	0.0	0.0
35°	403.7	12.9	0.6	0.0	0.0	0.0	0.0	0.0
36°	345.7	10.3	0.6	0.0	0.0	0.0	0.0	0.0
37°	296.2	8.6	0.6	0.0	0.0	0.0	0.0	0.0
38°	247.9	7.3	0.4	0.0	0.0	0.0	0.0	0.0
39°	201.2	6.4	0.4	0.0	0.0	0.0	0.0	0.0
40°	160.4	5.6	0.4	0.0	0.0	0.0	0.0	0.0
42.5°	86.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0
45°	47.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	21.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	7.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.4	0.2	0.0	0.0	0.0
65°	0.0	0.0	0.4	0.4	0.2	0.0	0.0	0.0
67.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0



TEST NUMBER: P1317519

CATALOG NUMBER: P3SQAS02R209835DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.4	0.6	0.2	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)