

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: P1311908

Luminaire Tested: P3SQAS02R209727DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311908
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: P3SQAS02R209727DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

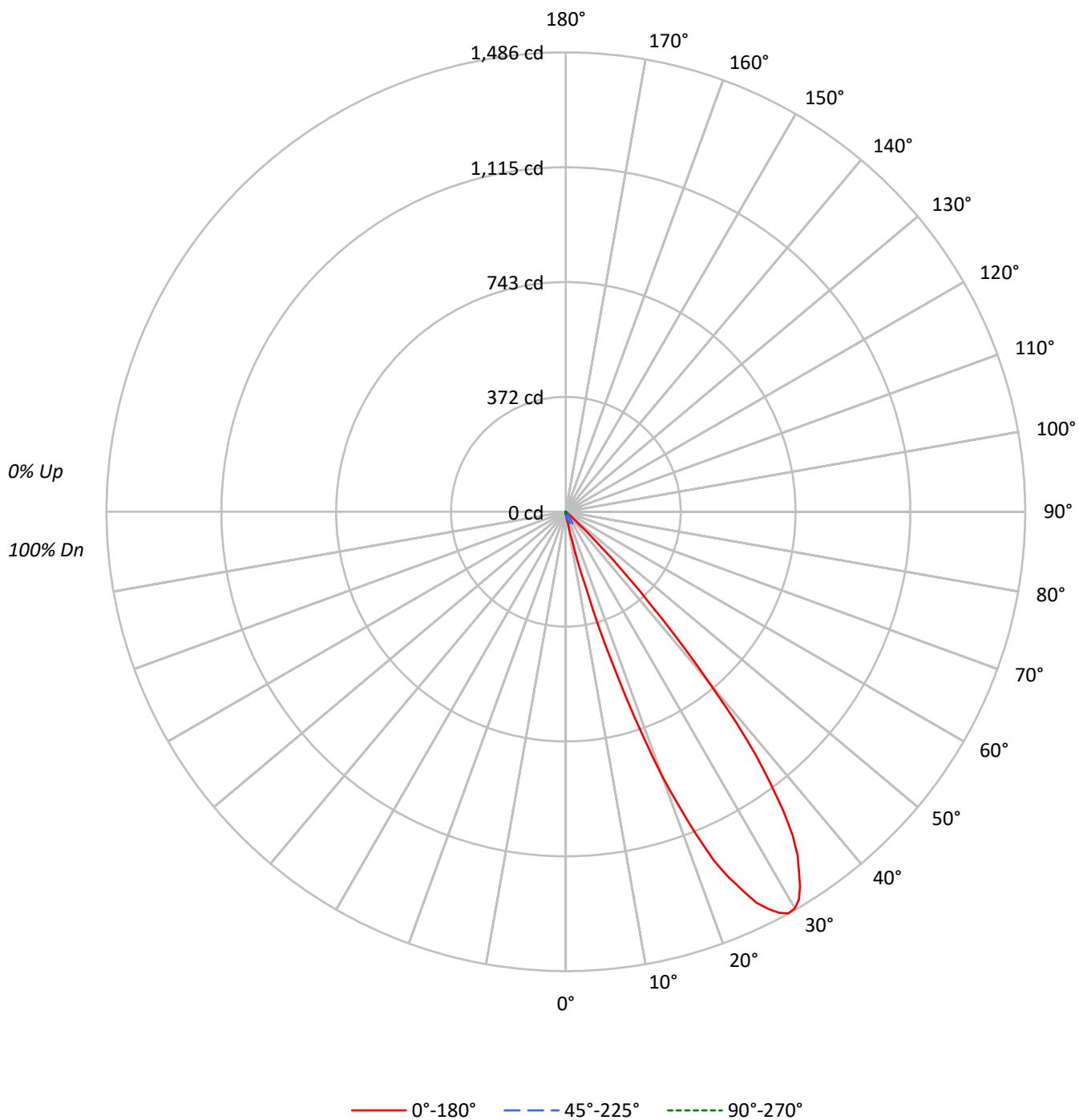
Lumens per Lamp: N/A
Luminaire Lumens: 205.0 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.43 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1311908

CATALOG NUMBER: P3SQAS02R209727DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1311908

CATALOG NUMBER: P3SQAS02R209727DE010 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°	1257	1257	1257	1257	1257
5°	2749	1936	1158	536	380
10°	6838	3428	822	105	0
15°	48158	4689	481	0	0
20°	166469	7881	183	0	0
25°	256593	10071	76	0	0
30°	294520	7776	0	0	0
35°	268966	2964	0	0	0
40°	161241	1371	0	0	0
45°	39627	658	0	0	0
50°	4367	161	0	0	0
55°	601	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: 42258 cd/sqm

TEST NUMBER: P1311908

CATALOG NUMBER: P3SQAS02R209727DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.4
10°-20°	16.0	7.8
20°-30°	81.0	39.5
30°-40°	87.6	42.7
40°-50°	18.5	9.0
50°-60°	0.6	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°	97.8	47.7
0°-40°	185.4	90.5
0°-60°	204.5	99.8
0°-90°	205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	205.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	16	11	7	3	2	2
15°	270	26	3	0	0	113
25°	1350	53	0	0	0	610
35°	1279	14	0	0	0	754
45°	163	3	0	0	0	179
55°	2	0	0	0	0	4
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: P1311908

CATALOG NUMBER: P3SQAS02R209727DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
2.5°	10.0	9.8	10.0	9.8	10.0	10.0	10.0	9.8	9.8	9.8	9.8
5°	15.9	15.9	15.7	15.9	15.9	15.9	15.9	15.7	15.7	15.5	15.5
7.5°	25.1	25.1	24.9	24.9	25.1	25.3	24.5	24.9	24.9	24.9	24.7
10°	39.1	40.0	39.1	40.2	39.3	38.7	39.8	38.7	38.7	38.5	37.9
12.5°	98.7	96.4	95.0	91.5	95.0	92.4	93.0	92.4	90.3	87.7	86.0
15°	270.1	270.1	262.2	272.8	265.0	267.9	253.2	253.4	245.9	237.7	233.2
17.5°	564.7	569.8	564.5	561.3	554.3	544.4	540.3	529.9	516.2	500.3	498.5
20°	908.3	886.9	896.9	887.7	882.0	869.8	856.1	847.5	835.5	815.3	785.5
21°	1016.3	1015.5	1015.3	1015.1	1006.8	986.8	974.3	957.2	940.3	919.5	894.6
22°	1125.2	1129.1	1130.7	1118.9	1101.8	1092.8	1084.2	1060.8	1034.1	1023.3	993.7
23°	1225.1	1221.4	1210.8	1205.3	1192.1	1189.4	1163.9	1149.1	1123.0	1111.1	1076.1
24°	1293.2	1291.4	1286.5	1278.3	1267.7	1251.4	1236.1	1212.7	1191.3	1171.9	1139.3
25°	1350.3	1351.9	1343.0	1337.5	1326.0	1307.7	1288.9	1263.2	1243.3	1220.6	1182.9
26°	1406.8	1395.4	1388.2	1380.1	1367.6	1346.6	1328.5	1305.4	1281.2	1255.9	1219.0
27°	1441.6	1431.4	1420.6	1412.7	1398.4	1378.4	1359.1	1333.6	1306.5	1281.0	1243.1
28°	1469.2	1457.9	1447.3	1437.8	1421.4	1400.0	1376.8	1350.9	1322.8	1296.5	1257.7
29°	1485.5	1472.2	1460.8	1450.0	1435.1	1411.9	1388.4	1360.7	1333.6	1306.1	1266.5
30°	1481.0	1469.6	1458.6	1447.5	1432.5	1410.6	1387.4	1360.9	1333.6	1306.5	1266.3
31°	1463.4	1449.4	1441.4	1430.4	1417.4	1395.1	1375.2	1346.2	1321.5	1292.2	1252.0
32°	1429.8	1420.8	1410.2	1401.7	1389.0	1365.4	1345.8	1322.2	1293.0	1268.9	1226.7
33°	1384.1	1375.8	1370.5	1360.5	1348.3	1331.9	1308.5	1286.9	1254.1	1229.4	1187.2
34°	1340.5	1329.9	1316.7	1313.8	1303.2	1282.2	1261.0	1239.0	1209.6	1178.2	1135.6
35°	1279.3	1268.3	1256.1	1257.1	1244.5	1220.0	1198.4	1173.7	1145.8	1108.9	1068.5
36°	1197.6	1190.2	1188.4	1183.5	1169.0	1139.9	1119.3	1088.3	1064.9	1019.8	985.1
37°	1097.9	1100.5	1087.3	1081.0	1064.0	1043.7	1032.0	992.3	965.0	931.1	884.2
38°	997.2	993.3	977.6	981.5	958.2	937.0	904.2	880.6	850.0	818.6	781.1
39°	871.4	861.8	843.0	843.9	826.3	802.5	770.7	742.7	724.4	694.2	658.3
40°	717.2	713.2	706.6	695.8	672.8	662.4	634.1	603.9	588.4	546.6	529.1
42.5°	398.0	392.5	381.5	377.6	365.4	353.1	336.6	316.4	306.6	294.2	266.5
45°	162.7	173.5	170.9	167.8	158.4	159.0	147.2	148.6	137.8	130.5	125.4
47.5°	35.9	38.9	39.1	37.7	39.1	37.9	37.3	36.3	36.5	37.1	35.7
50°	16.3	16.1	16.5	16.3	16.1	15.9	15.7	15.1	15.5	15.1	14.7
52.5°	6.3	6.5	6.5	6.1	6.3	6.3	6.3	6.1	6.1	6.1	6.1
55°	2.0	2.0	2.0	1.8	1.8	2.0	2.0	2.0	2.0	2.0	1.8
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: P1311908

CATALOG NUMBER: P3SQAS02R209727DE010 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: P1311908

CATALOG NUMBER: P3SQAS02R209727DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
2.5°	9.4	8.6	8.0	7.3	6.1	5.1	4.7	4.7
5°	14.5	11.2	8.4	6.7	4.7	3.1	2.4	2.2
7.5°	21.8	15.1	8.8	5.7	3.1	1.6	1.0	0.8
10°	31.6	19.6	9.2	4.7	1.8	0.6	0.0	0.0
12.5°	55.3	23.4	9.2	3.7	0.8	0.0	0.0	0.0
15°	126.6	26.3	8.8	2.7	0.2	0.0	0.0	0.0
17.5°	263.0	33.0	7.7	1.8	0.0	0.0	0.0	0.0
20°	420.0	43.0	6.1	1.0	0.0	0.0	0.0	0.0
21°	484.6	46.5	5.5	0.8	0.0	0.0	0.0	0.0
22°	531.1	49.7	4.9	0.6	0.0	0.0	0.0	0.0
23°	582.3	51.8	4.3	0.4	0.0	0.0	0.0	0.0
24°	620.0	53.0	3.7	0.4	0.0	0.0	0.0	0.0
25°	643.4	53.0	3.3	0.4	0.0	0.0	0.0	0.0
26°	657.3	51.8	2.9	0.2	0.0	0.0	0.0	0.0
27°	660.6	49.7	2.4	0.2	0.0	0.0	0.0	0.0
28°	656.5	47.1	2.0	0.0	0.0	0.0	0.0	0.0
29°	643.6	43.2	1.8	0.0	0.0	0.0	0.0	0.0
30°	629.8	39.1	1.4	0.0	0.0	0.0	0.0	0.0
31°	606.1	33.6	1.2	0.0	0.0	0.0	0.0	0.0
32°	578.8	27.9	1.0	0.0	0.0	0.0	0.0	0.0
33°	542.3	22.0	0.8	0.0	0.0	0.0	0.0	0.0
34°	488.5	17.3	0.8	0.0	0.0	0.0	0.0	0.0
35°	440.2	14.1	0.6	0.0	0.0	0.0	0.0	0.0
36°	377.0	11.2	0.6	0.0	0.0	0.0	0.0	0.0
37°	322.9	9.4	0.6	0.0	0.0	0.0	0.0	0.0
38°	270.3	8.0	0.4	0.0	0.0	0.0	0.0	0.0
39°	219.4	6.9	0.4	0.0	0.0	0.0	0.0	0.0
40°	174.9	6.1	0.4	0.0	0.0	0.0	0.0	0.0
42.5°	94.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	52.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	23.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	7.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.8	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: P1311908

CATALOG NUMBER: P3SQAS02R209727DE010 E3SQCA301MB

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)