

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: P1305388

Luminaire Tested: P3SQAS02R209024DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305388
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: P3SQAS02R209024DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

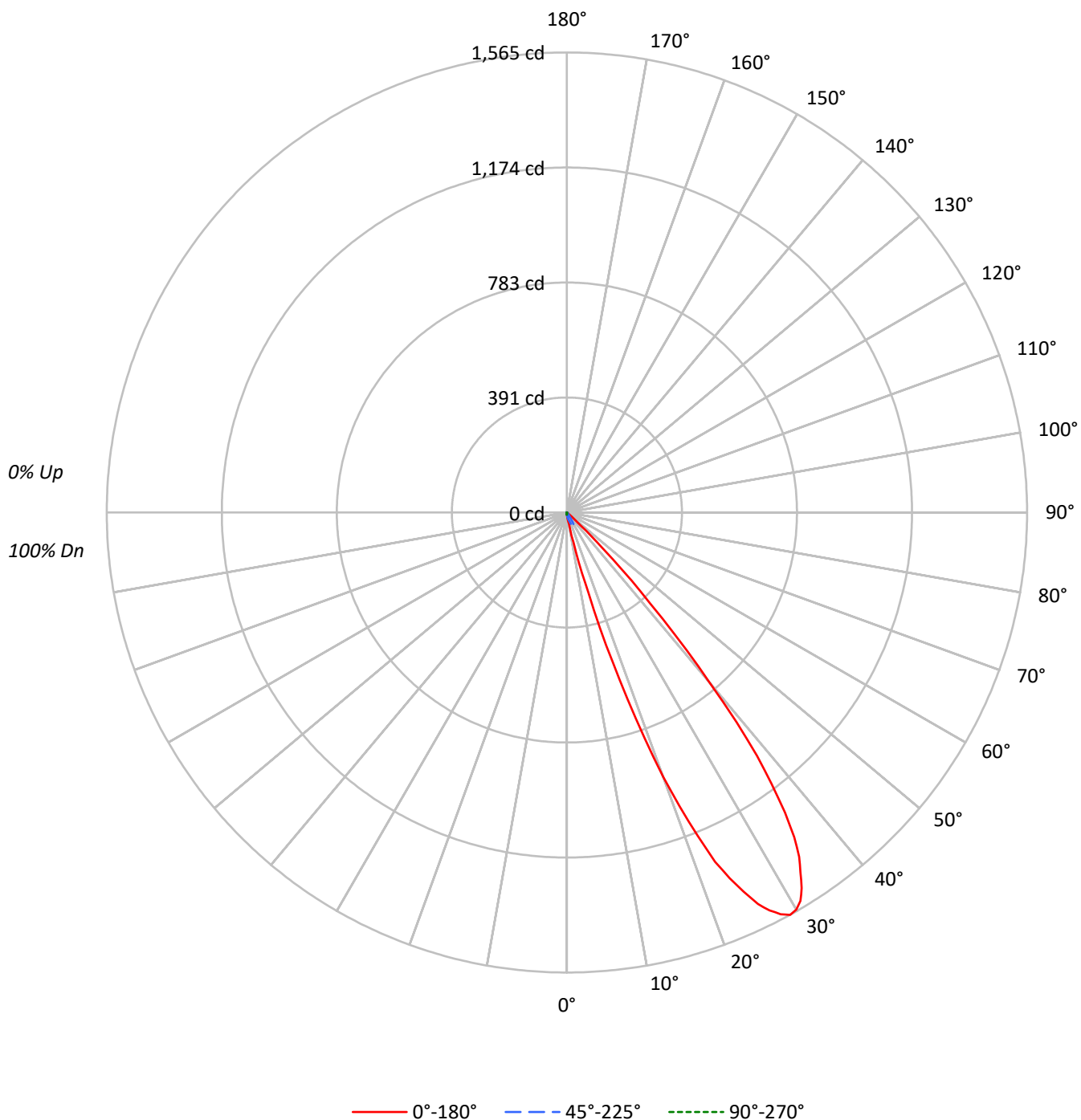
Lumens per Lamp: N/A
Luminaire Lumens: 216.0 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1305388

CATALOG NUMBER: P3SQAS02R209024DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1305388

CATALOG NUMBER: P3SQAS02R209024DE010 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°	1326	1326	1326	1326	1326
5°	2904	2040	1227	553	415
10°	7205	3603	857	105	0
15°	50744	4939	499	0	0
20°	175395	8302	202	0	0
25°	270370	10622	76	0	0
30°	310310	8193	0	0	0
35°	283410	3112	0	0	0
40°	169897	1439	0	0	0
45°	41746	682	0	0	0
50°	4608	161	0	0	0
55°	631	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: 44523 cd/sqm

TEST NUMBER: P1305388

CATALOG NUMBER: P3SQAS02R209024DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.4
10°-20°	16.9	7.8
20°-30°	85.3	39.5
30°-40°	92.3	42.7
40°-50°	19.5	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°	103.1	47.7
0°-40°	195.4	90.5
0°-60°	215.5	99.8
0°-90°	216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	216.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	17	12	7	3	2	2
15°	285	28	3	0	0	119
25°	1423	56	0	0	0	643
35°	1348	15	0	0	0	795
45°	171	3	0	0	0	189
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: P1305388

CATALOG NUMBER: P3SQAS02R209024DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
2.5°	10.5	10.3	10.5	10.3	10.5	10.5	10.5	10.3	10.3	10.3	10.3
5°	16.8	16.8	16.5	16.8	16.8	16.8	16.8	16.5	16.5	16.3	16.3
7.5°	26.4	26.4	26.2	26.2	26.4	26.6	25.8	26.2	26.2	26.2	26.0
10°	41.2	42.1	41.2	42.3	41.5	40.8	41.9	40.8	40.8	40.6	40.0
12.5°	104.0	101.6	100.1	96.5	100.1	97.3	98.0	97.3	95.2	92.4	90.7
15°	284.6	284.6	276.3	287.4	279.3	282.3	266.8	267.0	259.1	250.5	245.8
17.5°	595.1	600.4	594.8	591.4	584.1	573.6	569.3	558.3	543.9	527.2	525.2
20°	957.0	934.5	945.0	935.3	929.3	916.4	902.0	893.0	880.3	859.1	827.7
21°	1070.9	1070.0	1069.8	1069.6	1060.8	1039.7	1026.6	1008.6	990.7	968.8	942.6
22°	1185.6	1189.7	1191.4	1178.9	1160.9	1151.4	1142.4	1117.7	1089.6	1078.2	1047.0
23°	1290.9	1287.0	1275.8	1270.0	1256.1	1253.3	1226.4	1210.7	1183.2	1170.8	1133.8
24°	1362.6	1360.7	1355.5	1346.9	1335.7	1318.6	1302.5	1277.7	1255.2	1234.8	1200.4
25°	1422.8	1424.5	1415.0	1409.2	1397.2	1377.9	1358.1	1331.0	1310.0	1286.1	1246.4
26°	1482.3	1470.2	1462.7	1454.1	1441.0	1418.9	1399.8	1375.5	1349.9	1323.3	1284.4
27°	1519.0	1508.2	1496.9	1488.5	1473.4	1452.4	1432.0	1405.1	1376.6	1349.7	1309.8
28°	1548.0	1536.2	1525.0	1514.9	1497.7	1475.2	1450.7	1423.4	1393.7	1366.0	1325.2
29°	1565.2	1551.2	1539.2	1527.8	1512.1	1487.6	1462.9	1433.7	1405.1	1376.1	1334.5
30°	1560.4	1548.4	1536.8	1525.2	1509.3	1486.3	1461.8	1433.9	1405.1	1376.6	1334.2
31°	1542.0	1527.2	1518.8	1507.2	1493.4	1470.0	1449.0	1418.5	1392.5	1361.5	1319.2
32°	1506.5	1497.1	1485.9	1476.9	1463.6	1438.6	1418.0	1393.1	1362.4	1337.0	1292.6
33°	1458.4	1449.6	1444.0	1433.5	1420.6	1403.4	1378.7	1355.9	1321.4	1295.4	1250.9
34°	1412.4	1401.3	1387.3	1384.3	1373.1	1351.0	1328.7	1305.5	1274.5	1241.4	1196.5
35°	1348.0	1336.4	1323.5	1324.6	1311.3	1285.5	1262.7	1236.7	1207.3	1168.4	1125.9
36°	1261.9	1254.1	1252.2	1247.0	1231.8	1201.1	1179.4	1146.7	1122.0	1074.5	1038.0
37°	1156.8	1159.6	1145.6	1139.0	1121.1	1099.7	1087.4	1045.5	1016.7	981.1	931.7
38°	1050.7	1046.6	1030.1	1034.1	1009.7	987.3	952.7	927.8	895.6	862.5	823.0
39°	918.1	908.0	888.3	889.1	870.7	845.5	812.0	782.6	763.3	731.5	693.7
40°	755.7	751.4	744.6	733.2	708.9	697.9	668.1	636.3	620.0	575.9	557.5
42.5°	419.3	413.5	401.9	397.8	385.0	372.1	354.7	333.4	323.1	310.0	280.8
45°	171.4	182.8	180.0	176.8	166.9	167.6	155.1	156.6	145.2	137.5	132.1
47.5°	37.8	41.0	41.2	39.7	41.2	40.0	39.3	38.2	38.5	39.1	37.6
50°	17.2	17.0	17.4	17.2	17.0	16.8	16.5	15.9	16.3	15.9	15.5
52.5°	6.7	6.9	6.9	6.4	6.7	6.7	6.7	6.4	6.4	6.4	6.4
55°	2.1	2.1	2.1	1.9	1.9	2.1	2.1	2.1	2.1	2.1	1.9
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: P1305388

CATALOG NUMBER: P3SQAS02R209024DE010 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: P1305388

CATALOG NUMBER: P3SQAS02R209024DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
2.5°	9.9	9.0	8.4	7.7	6.4	5.4	4.9	4.9
5°	15.3	11.8	8.8	7.1	4.9	3.2	2.6	2.4
7.5°	23.0	15.9	9.2	6.0	3.2	1.7	1.1	0.9
10°	33.3	20.6	9.7	4.9	1.9	0.6	0.0	0.0
12.5°	58.2	24.7	9.7	3.9	0.9	0.0	0.0	0.0
15°	133.4	27.7	9.2	2.8	0.2	0.0	0.0	0.0
17.5°	277.1	34.8	8.2	1.9	0.0	0.0	0.0	0.0
20°	442.5	45.3	6.4	1.1	0.0	0.0	0.0	0.0
21°	510.6	49.0	5.8	0.9	0.0	0.0	0.0	0.0
22°	559.6	52.4	5.2	0.6	0.0	0.0	0.0	0.0
23°	613.5	54.6	4.5	0.4	0.0	0.0	0.0	0.0
24°	653.3	55.9	3.9	0.4	0.0	0.0	0.0	0.0
25°	678.0	55.9	3.4	0.4	0.0	0.0	0.0	0.0
26°	692.6	54.6	3.0	0.2	0.0	0.0	0.0	0.0
27°	696.0	52.4	2.6	0.2	0.0	0.0	0.0	0.0
28°	691.7	49.6	2.1	0.0	0.0	0.0	0.0	0.0
29°	678.2	45.5	1.9	0.0	0.0	0.0	0.0	0.0
30°	663.6	41.2	1.5	0.0	0.0	0.0	0.0	0.0
31°	638.7	35.4	1.3	0.0	0.0	0.0	0.0	0.0
32°	609.9	29.4	1.1	0.0	0.0	0.0	0.0	0.0
33°	571.4	23.2	0.9	0.0	0.0	0.0	0.0	0.0
34°	514.7	18.3	0.9	0.0	0.0	0.0	0.0	0.0
35°	463.8	14.8	0.6	0.0	0.0	0.0	0.0	0.0
36°	397.2	11.8	0.6	0.0	0.0	0.0	0.0	0.0
37°	340.3	9.9	0.6	0.0	0.0	0.0	0.0	0.0
38°	284.9	8.4	0.4	0.0	0.0	0.0	0.0	0.0
39°	231.1	7.3	0.4	0.0	0.0	0.0	0.0	0.0
40°	184.3	6.4	0.4	0.0	0.0	0.0	0.0	0.0
42.5°	99.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	55.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	24.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	8.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.9	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: P1305388

CATALOG NUMBER: P3SQAS02R209024DE010 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)