

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: P1306593

Luminaire Tested: P3SQAS05R409027DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R409027DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

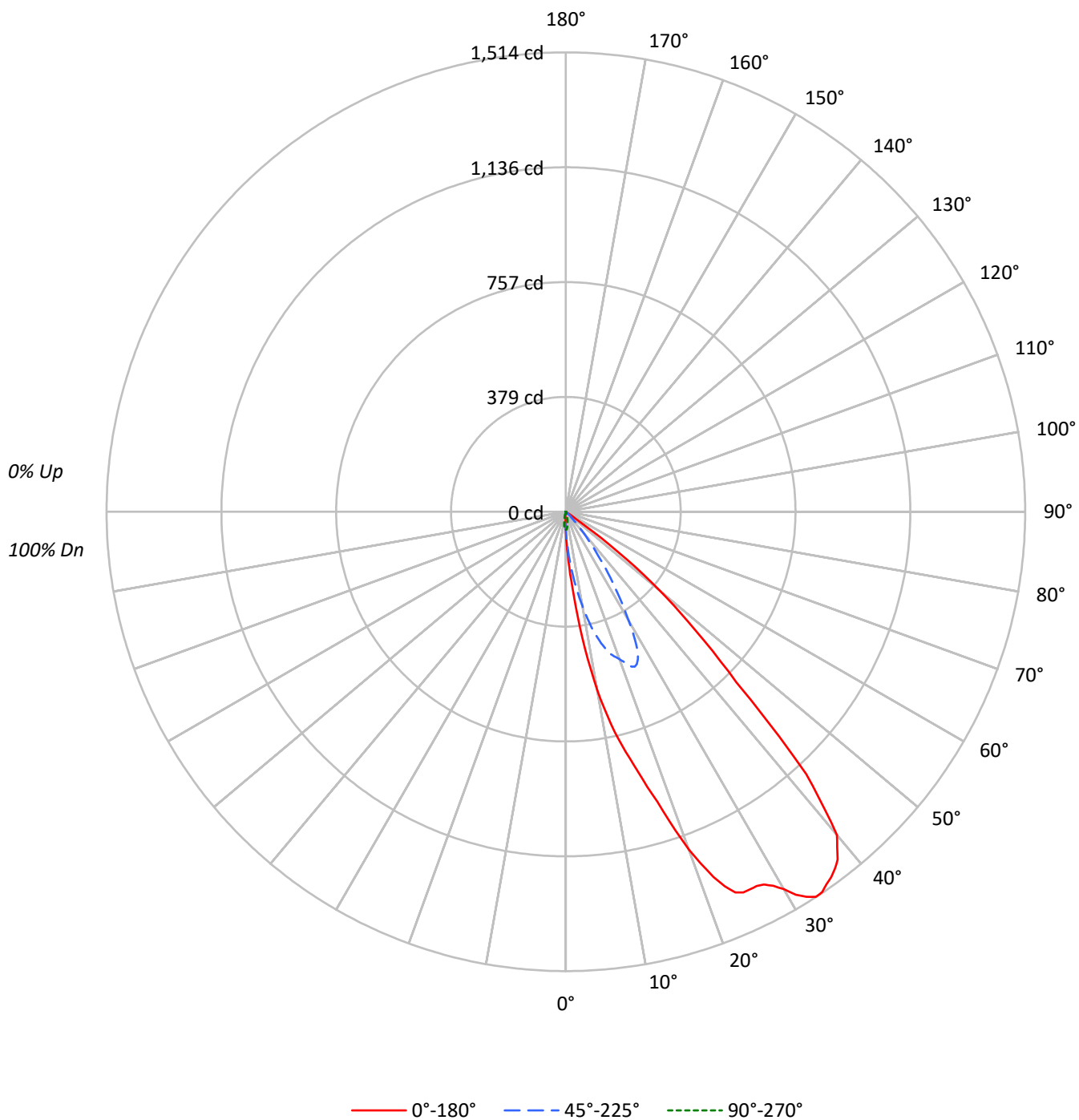
Lumens per Lamp: N/A
Luminaire Lumens: 508.0 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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

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Luminous Intensity Polar Plot



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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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10230	10230	10230	10230	10230
5°	43428	29597	8972	1625	813
10°	104403	55070	5561	157	0
15°	153657	80002	2336	0	0
20°	217181	94827	861	0	0
25°	263054	105256	0	0	0
30°	285631	82330	0	0	0
35°	314947	48188	0	0	0
40°	312591	19559	0	0	0
45°	193606	5699	0	0	0
50°	107789	134	0	0	0
55°	10539	0	0	0	0
60°	0	0	172	0	0
65°	0	0	204	0	0
70°	0	252	453	0	0
75°	0	333	599	0	0
80°	0	496	893	0	0
85°	0	988	1778	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 194507 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	2.2
10°-20°	65.5	12.9
20°-30°	149.5	29.4
30°-40°	176.5	34.7
40°-50°	94.3	18.6
50°-60°	10.2	2.0
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.3	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°	226.1	44.5
0°-40°	402.6	79.2
0°-60°	507.1	99.8
0°-90°	508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	508.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	251	171	52	9	5	35
15°	862	449	13	0	0	256
25°	1384	554	0	0	0	629
35°	1498	229	0	0	0	925
45°	795	23	0	0	0	655
55°	35	0	0	0	0	98
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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	138.5	135.7	137.5	133.8	133.8	125.4	125.8	118.8	108.5	82.8	58.9
5°	251.2	262.5	253.6	241.9	235.3	226.9	215.7	204.0	171.2	103.4	51.9
7.5°	420.6	419.7	404.7	392.0	377.5	355.1	334.0	305.5	243.7	118.4	43.0
10°	597.0	593.7	576.8	566.1	538.5	506.2	463.2	417.3	314.9	123.5	31.8
12.5°	743.9	739.7	725.6	707.4	677.0	636.3	589.9	529.6	389.7	117.9	20.6
15°	861.8	860.8	847.3	822.5	790.6	750.9	698.5	626.0	448.7	103.4	13.1
17.5°	1001.6	1007.3	982.9	956.3	910.4	854.7	790.6	707.8	492.2	85.6	8.4
20°	1185.0	1177.1	1154.6	1115.8	1071.8	1004.9	914.2	795.8	517.4	66.4	4.7
21°	1241.2	1237.9	1214.5	1178.5	1129.8	1062.0	968.4	840.7	529.1	59.4	3.7
22°	1298.3	1292.6	1274.4	1239.3	1193.5	1116.7	1013.8	887.0	544.1	51.9	2.3
23°	1340.8	1338.5	1324.5	1289.8	1242.6	1168.2	1062.9	930.1	554.4	44.9	1.4
24°	1373.6	1370.8	1356.7	1330.5	1289.8	1212.2	1112.5	976.4	558.6	38.8	0.5
25°	1384.3	1385.7	1377.3	1356.7	1322.6	1244.9	1149.5	1012.9	553.9	33.2	0.0
26°	1384.8	1389.0	1382.9	1371.2	1343.2	1271.1	1184.1	1034.4	541.8	28.1	0.0
27°	1384.8	1389.0	1382.9	1374.0	1346.4	1286.1	1202.8	1036.7	523.0	23.9	0.0
28°	1391.4	1393.7	1385.7	1375.0	1345.0	1290.8	1208.0	1022.7	493.1	20.6	0.0
29°	1409.6	1407.3	1394.2	1379.7	1343.6	1290.8	1192.5	996.0	455.7	17.3	0.0
30°	1436.3	1436.3	1415.7	1392.8	1350.2	1290.3	1167.7	947.8	414.0	14.0	0.0
31°	1472.3	1469.0	1448.4	1414.3	1364.2	1290.3	1131.2	894.5	375.7	12.2	0.0
32°	1496.6	1494.7	1475.1	1434.9	1387.1	1290.3	1091.9	835.6	334.0	9.8	0.0
33°	1513.5	1509.7	1487.3	1445.6	1401.2	1283.8	1048.0	772.4	296.6	8.0	0.0
34°	1511.1	1510.2	1486.8	1443.8	1398.4	1256.6	997.0	702.2	262.0	6.5	0.0
35°	1498.0	1498.0	1469.5	1425.0	1378.3	1216.8	946.4	642.3	229.2	4.7	0.0
36°	1488.2	1484.5	1452.2	1402.6	1344.6	1154.2	871.6	582.0	194.2	3.7	0.0
37°	1473.7	1466.7	1430.7	1377.3	1296.9	1086.3	793.0	528.2	164.2	2.3	0.0
38°	1455.0	1444.2	1400.2	1347.8	1244.5	1008.2	713.0	467.8	136.6	1.4	0.0
39°	1420.8	1411.9	1366.6	1309.9	1181.8	925.9	635.3	411.2	110.4	0.5	0.0
40°	1390.4	1375.0	1323.5	1258.5	1108.3	832.8	558.1	355.6	87.0	0.0	0.0
42.5°	1172.4	1156.0	1144.3	1079.8	882.8	597.9	389.7	227.8	45.4	0.0	0.0
45°	794.9	798.6	762.1	718.6	582.5	389.7	243.7	126.8	23.4	0.0	0.0
47.5°	579.7	569.8	520.2	437.9	341.5	227.8	127.3	61.3	9.4	0.0	0.0
50°	402.3	383.6	338.7	277.0	185.7	108.5	56.1	28.5	0.5	0.0	0.0
52.5°	218.5	205.4	174.0	126.3	77.2	41.6	22.5	11.7	0.0	0.0	0.0
55°	35.1	24.3	25.3	21.5	16.8	12.2	7.0	1.4	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	59.4	59.4	59.4	59.4
2.5°	39.8	27.1	20.6	17.8
5°	22.9	9.4	5.1	4.7
7.5°	11.2	3.3	1.9	1.9
10°	4.7	0.9	0.0	0.0
12.5°	1.4	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.5	0.0	0.0	0.0
67.5°	0.5	0.0	0.0	0.0
70°	0.5	0.0	0.0	0.0
72.5°	0.5	0.0	0.0	0.0
75°	0.5	0.0	0.0	0.0
77.5°	0.5	0.0	0.0	0.0
80°	0.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.5	0.0	0.0	0.0
85°	0.5	0.0	0.0	0.0
87.5°	0.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)