

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: P1310479

Luminaire Tested: P3SQAS17R709040DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R709040DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

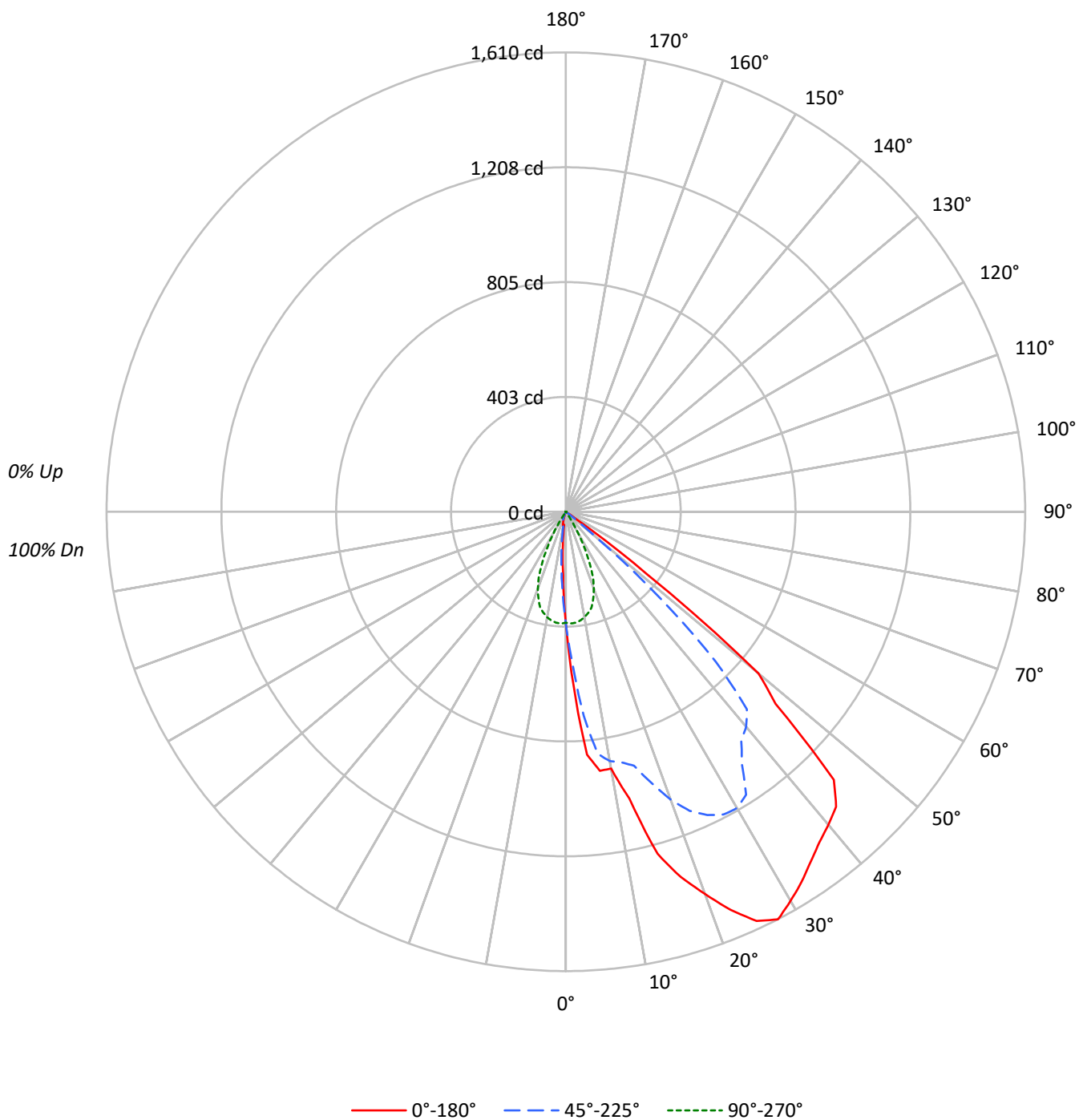
Lumens per Lamp: N/A
Luminaire Lumens: 1048.0 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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

TEST NUMBER: P1310479

CATALOG NUMBER: P3SQAS17R709040DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1310479

CATALOG NUMBER: P3SQAS17R709040DE010 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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39		
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	66977	66977	66977	66977	66977
5°	147778	124007	67493	30686	20192
10°	159840	155171	65685	8534	8796
15°	221232	164284	61959	8701	6330
20°	261296	196783	52582	5150	1906
25°	300698	222863	37093	836	0
30°	313213	238519	17063	0	0
35°	314653	226055	925	0	0
40°	321853	221111	0	0	0
45°	323447	181184	0	0	0
50°	236154	37644	0	0	0
55°	13332	0	0	0	0
60°	0	517	517	0	0
65°	0	0	611	0	0
70°	0	755	755	0	0
75°	0	998	998	0	0
80°	0	1488	1488	1488	0
85°	0	2964	2964	2964	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 329585 cd/sqm

TEST NUMBER: P1310479

CATALOG NUMBER: P3SQAS17R709040DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	4.1
10°-20°	142.1	13.6
20°-30°	255.4	24.4
30°-40°	310.5	29.6
40°-50°	239.8	22.9
50°-60°	55.8	5.3
60°-70°	0.4	0.0
70°-80°	0.8	0.1
80°-90°	0.8	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°	440.0	42.0
0°-40°	750.5	71.6
0°-60°	1046.1	99.8
0°-90°	1048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1048.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	389	389	389	389	389	
5°	855	717	390	178	117	81
15°	1241	921	348	49	36	347
25°	1582	1173	195	4	0	720
35°	1497	1075	4	0	0	940
45°	1328	744	0	0	0	939
55°	44	0	0	0	0	182
65°	0	0	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	2	2	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1310479

CATALOG NUMBER: P3SQAS17R709040DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9
2.5°	606.3	606.3	609.3	607.8	594.5	588.6	569.4	559.0	556.1	532.4	523.5
5°	854.8	856.3	848.9	847.4	832.6	822.3	806.0	780.9	755.7	717.3	683.2
7.5°	915.4	914.0	912.5	912.5	909.5	903.6	896.2	888.8	878.5	854.8	828.2
10°	914.0	914.0	912.5	912.5	911.0	912.5	911.0	906.6	902.1	887.3	872.5
12.5°	1029.3	1020.4	1008.6	990.9	961.3	939.1	914.0	906.6	903.6	899.2	890.3
15°	1240.8	1233.4	1208.3	1177.2	1147.6	1097.3	1057.4	1002.7	959.8	921.4	902.1
17.5°	1342.8	1347.3	1319.2	1299.9	1271.8	1231.9	1184.6	1128.4	1067.8	995.3	937.6
20°	1425.7	1430.1	1406.4	1387.2	1354.7	1313.3	1271.8	1211.2	1153.5	1073.7	998.3
22.5°	1510.0	1512.9	1490.7	1462.6	1425.7	1382.8	1329.5	1267.4	1205.3	1134.3	1054.5
25°	1582.4	1579.5	1542.5	1502.6	1467.1	1421.2	1369.5	1308.8	1249.7	1172.8	1097.3
27.5°	1610.5	1609.0	1567.6	1529.2	1487.8	1425.7	1379.8	1326.6	1264.5	1196.4	1119.5
30°	1575.0	1598.7	1572.1	1544.0	1493.7	1431.6	1387.2	1323.6	1265.9	1199.4	1112.1
32.5°	1538.1	1567.6	1558.8	1545.4	1486.3	1437.5	1379.8	1320.7	1252.6	1175.7	1042.6
35°	1496.6	1527.7	1529.2	1514.4	1461.1	1412.3	1359.1	1297.0	1220.1	1075.2	977.5
37.5°	1459.7	1489.2	1498.1	1467.1	1425.7	1360.6	1311.8	1246.7	1107.7	1010.1	959.8
40°	1431.6	1453.8	1467.1	1418.3	1376.9	1313.3	1257.1	1143.2	1017.5	983.5	912.5
42.5°	1402.0	1422.7	1428.6	1375.4	1311.8	1251.1	1169.8	1026.4	989.4	939.1	748.3
45°	1328.0	1353.2	1338.4	1286.6	1239.3	1175.7	1054.5	992.3	952.4	743.9	459.9
47.5°	996.8	1024.9	1064.8	1079.6	1095.9	1050.0	983.5	961.3	782.3	451.1	143.5
50°	881.4	877.0	877.0	884.4	897.7	912.5	931.7	810.4	470.3	140.5	0.0
52.5°	359.4	377.1	464.4	542.8	633.0	723.2	751.3	496.9	183.4	3.0	0.0
55°	44.4	44.4	62.1	106.5	176.0	283.9	319.4	159.7	13.3	0.0	0.0
57.5°	0.0	0.0	0.0	1.5	11.8	32.5	22.2	5.9	1.5	1.5	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
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	1.5	1.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
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: P1310479

CATALOG NUMBER: P3SQAS17R709040DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9
2.5°	508.7	491.0	465.9	391.9	328.3	272.1	239.6	223.3
5°	650.7	607.8	550.1	390.4	266.2	177.5	133.1	116.8
7.5°	786.8	738.0	640.4	384.5	204.1	103.5	57.7	45.8
10°	845.9	810.4	723.2	375.6	147.9	48.8	48.8	50.3
12.5°	869.6	843.0	772.0	362.3	97.6	47.3	50.3	47.3
15°	885.9	860.7	795.6	347.5	56.2	48.8	39.9	35.5
17.5°	894.7	865.2	803.0	319.4	37.0	41.4	25.1	20.7
20°	922.8	875.5	809.0	286.9	35.5	28.1	13.3	10.4
22.5°	970.2	896.2	810.4	247.0	28.1	16.3	4.4	0.0
25°	1013.0	924.3	814.9	195.2	8.9	4.4	0.0	0.0
27.5°	1033.7	933.2	813.4	137.5	0.0	0.0	0.0	0.0
30°	1008.6	911.0	800.1	85.8	0.0	0.0	0.0	0.0
32.5°	949.5	894.7	758.7	37.0	0.0	0.0	0.0	0.0
35°	930.2	859.2	664.0	4.4	0.0	0.0	0.0	0.0
37.5°	887.3	757.2	488.0	0.0	0.0	0.0	0.0	0.0
40°	763.1	547.2	232.2	0.0	0.0	0.0	0.0	0.0
42.5°	504.3	233.7	13.3	0.0	0.0	0.0	0.0	0.0
45°	177.5	14.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.5	1.5	1.5	1.5	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
65°	0.0	0.0	1.5	1.5	0.0	0.0	0.0	0.0
67.5°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0
70°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
72.5°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
75°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
77.5°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0
85°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	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)