

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: P1312142

Luminaire Tested: P3SQAS05R409727DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312142
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: P3SQAS05R409727DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

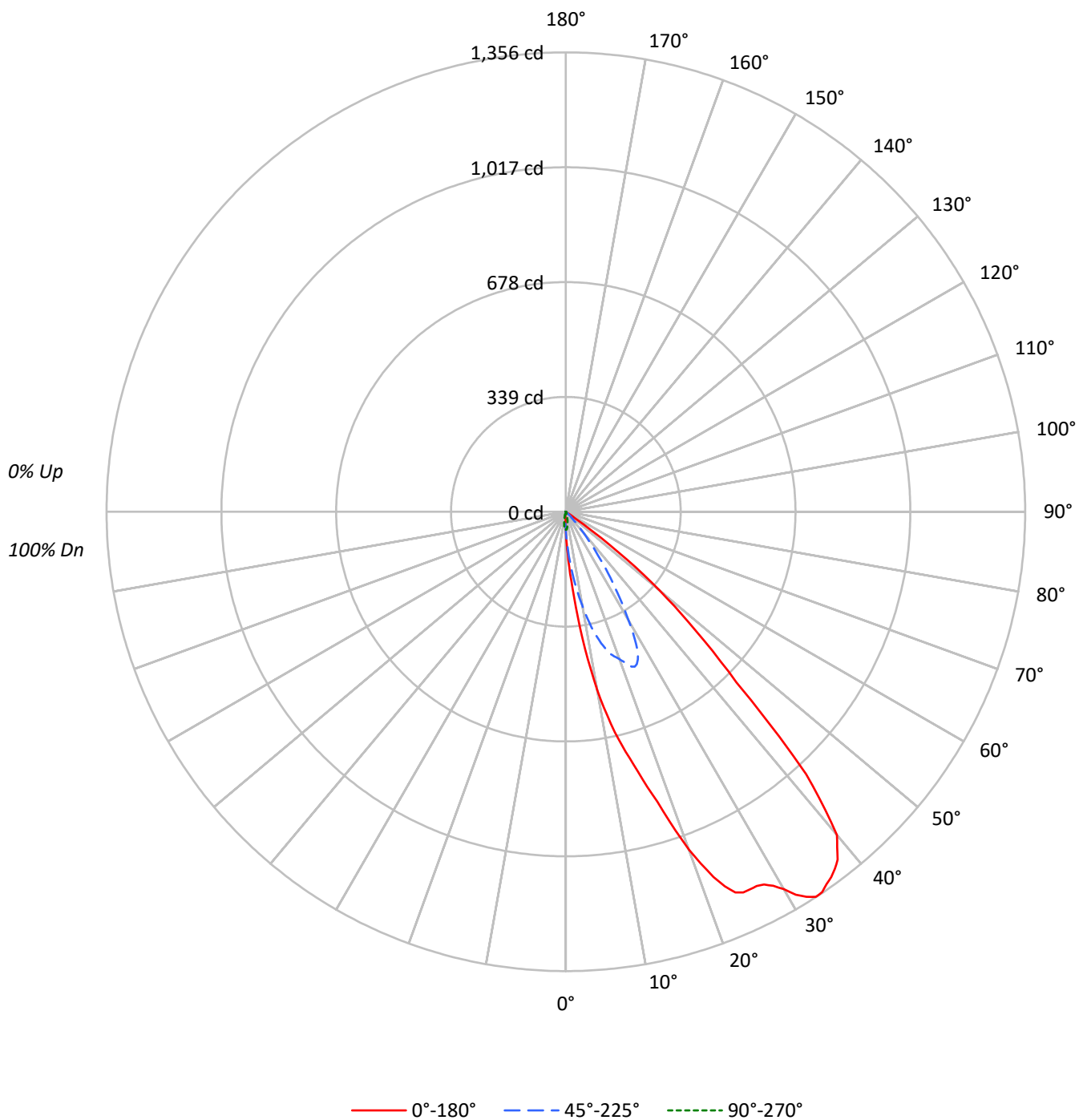
Lumens per Lamp: N/A
Luminaire Lumens: 455.0 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1312142

CATALOG NUMBER: P3SQAS05R409727DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1312142

CATALOG NUMBER: P3SQAS05R409727DE010 E3SQCA301MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	9162	9162	9162	9162	9162
5°	38898	26520	8039	1452	726
10°	93508	49316	4984	140	0
15°	137628	71640	2086	0	0
20°	194529	84930	770	0	0
25°	235614	94272	0	0	0
30°	255821	73739	0	0	0
35°	282086	43163	0	0	0
40°	279992	17514	0	0	0
45°	173390	5115	0	0	0
50°	96562	107	0	0	0
55°	9428	0	0	0	0
60°	0	0	138	0	0
65°	0	0	163	0	0
70°	0	201	403	0	0
75°	0	266	532	0	0
80°	0	397	793	0	0
85°	0	790	1581	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 174218 cd/sqm

TEST NUMBER: P1312142

CATALOG NUMBER: P3SQAS05R409727DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	2.2
10°-20°	58.6	12.9
20°-30°	133.9	29.4
30°-40°	158.1	34.7
40°-50°	84.5	18.6
50°-60°	9.2	2.0
60°-70°	0.2	0.0
70°-80°	0.3	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°	202.5	44.5
0°-40°	360.6	79.3
0°-60°	454.2	99.8
0°-90°	455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	455.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	53	53	53	53	53	
5°	225	153	46	8	4	32
15°	772	402	12	0	0	229
25°	1240	496	0	0	0	563
35°	1342	205	0	0	0	829
45°	712	21	0	0	0	587
55°	31	0	0	0	0	88
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: P1312142

CATALOG NUMBER: P3SQAS05R409727DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
2.5°	124.0	121.5	123.2	119.8	119.8	112.3	112.7	106.4	97.2	74.2	52.8
5°	225.0	235.1	227.1	216.6	210.8	203.2	193.2	182.7	153.4	92.6	46.5
7.5°	376.7	375.9	362.5	351.1	338.2	318.0	299.2	273.6	218.3	106.0	38.6
10°	534.7	531.7	516.7	507.0	482.3	453.4	414.8	373.8	282.0	110.6	28.5
12.5°	666.3	662.5	649.9	633.6	606.3	569.9	528.4	474.3	349.1	105.6	18.4
15°	771.9	771.0	758.9	736.7	708.2	672.5	625.6	560.7	401.8	92.6	11.7
17.5°	897.1	902.2	880.4	856.5	815.4	765.6	708.2	634.0	440.8	76.7	7.5
20°	1061.4	1054.3	1034.2	999.4	960.0	900.1	818.8	712.8	463.4	59.5	4.2
21°	1111.7	1108.8	1087.8	1055.5	1012.0	951.2	867.4	753.0	473.9	53.2	3.4
22°	1162.8	1157.8	1141.4	1110.0	1068.9	1000.2	908.0	794.5	487.3	46.5	2.1
23°	1200.9	1198.8	1186.3	1155.3	1112.9	1046.3	952.0	833.0	496.5	40.2	1.3
24°	1230.3	1227.8	1215.2	1191.7	1155.3	1085.7	996.5	874.5	500.3	34.8	0.4
25°	1239.9	1241.2	1233.6	1215.2	1184.6	1115.0	1029.6	907.2	496.1	29.8	0.0
26°	1240.3	1244.1	1238.7	1228.2	1203.0	1138.5	1060.6	926.5	485.2	25.1	0.0
27°	1240.3	1244.1	1238.7	1230.7	1206.0	1151.9	1077.3	928.6	468.5	21.4	0.0
28°	1246.2	1248.3	1241.2	1231.5	1204.7	1156.1	1081.9	916.0	441.7	18.4	0.0
29°	1262.5	1260.4	1248.7	1235.7	1203.5	1156.1	1068.1	892.1	408.1	15.5	0.0
30°	1286.4	1286.4	1268.0	1247.5	1209.3	1155.7	1045.9	849.0	370.8	12.6	0.0
31°	1318.7	1315.8	1297.3	1266.7	1221.9	1155.7	1013.2	801.2	336.5	10.9	0.0
32°	1340.5	1338.8	1321.2	1285.2	1242.4	1155.7	978.0	748.4	299.2	8.8	0.0
33°	1355.6	1352.2	1332.1	1294.8	1255.0	1149.8	938.6	691.8	265.7	7.1	0.0
34°	1353.5	1352.6	1331.7	1293.1	1252.5	1125.5	893.0	629.0	234.7	5.9	0.0
35°	1341.7	1341.7	1316.2	1276.4	1234.5	1089.9	847.7	575.3	205.3	4.2	0.0
36°	1332.9	1329.6	1300.7	1256.2	1204.3	1033.7	780.7	521.3	173.9	3.4	0.0
37°	1319.9	1313.7	1281.4	1233.6	1161.5	973.0	710.3	473.1	147.1	2.1	0.0
38°	1303.2	1293.5	1254.2	1207.2	1114.6	903.0	638.6	419.0	122.4	1.3	0.0
39°	1272.6	1264.6	1224.0	1173.3	1058.5	829.3	569.0	368.3	98.9	0.4	0.0
40°	1245.4	1231.5	1185.4	1127.2	992.7	745.9	499.9	318.5	77.9	0.0	0.0
42.5°	1050.1	1035.4	1024.9	967.1	790.7	535.5	349.1	204.1	40.6	0.0	0.0
45°	711.9	715.3	682.6	643.6	521.7	349.1	218.3	113.6	21.0	0.0	0.0
47.5°	519.2	510.4	466.0	392.2	305.9	204.1	114.0	54.9	8.4	0.0	0.0
50°	360.4	343.6	303.4	248.1	166.4	97.2	50.3	25.6	0.4	0.0	0.0
52.5°	195.7	184.0	155.9	113.1	69.1	37.3	20.1	10.5	0.0	0.0	0.0
55°	31.4	21.8	22.6	19.3	15.1	10.9	6.3	1.3	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8	0.8



TEST NUMBER: P1312142

CATALOG NUMBER: P3SQAS05R409727DE010 E3SQCA301MB

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	0.4	0.4	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8	0.8
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: P1312142

CATALOG NUMBER: P3SQAS05R409727DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	53.2	53.2	53.2	53.2
2.5°	35.6	24.3	18.4	15.9
5°	20.5	8.4	4.6	4.2
7.5°	10.1	2.9	1.7	1.7
10°	4.2	0.8	0.0	0.0
12.5°	1.3	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°	0.4	0.0	0.0	0.0
67.5°	0.4	0.0	0.0	0.0
70°	0.4	0.0	0.0	0.0
72.5°	0.4	0.0	0.0	0.0
75°	0.4	0.0	0.0	0.0
77.5°	0.4	0.0	0.0	0.0
80°	0.4	0.0	0.0	0.0



TEST NUMBER: P1312142

CATALOG NUMBER: P3SQAS05R409727DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.4	0.0	0.0	0.0
85°	0.4	0.0	0.0	0.0
87.5°	0.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)