

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: P1314262

Luminaire Tested: P3SQAS09R509735DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R509735DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

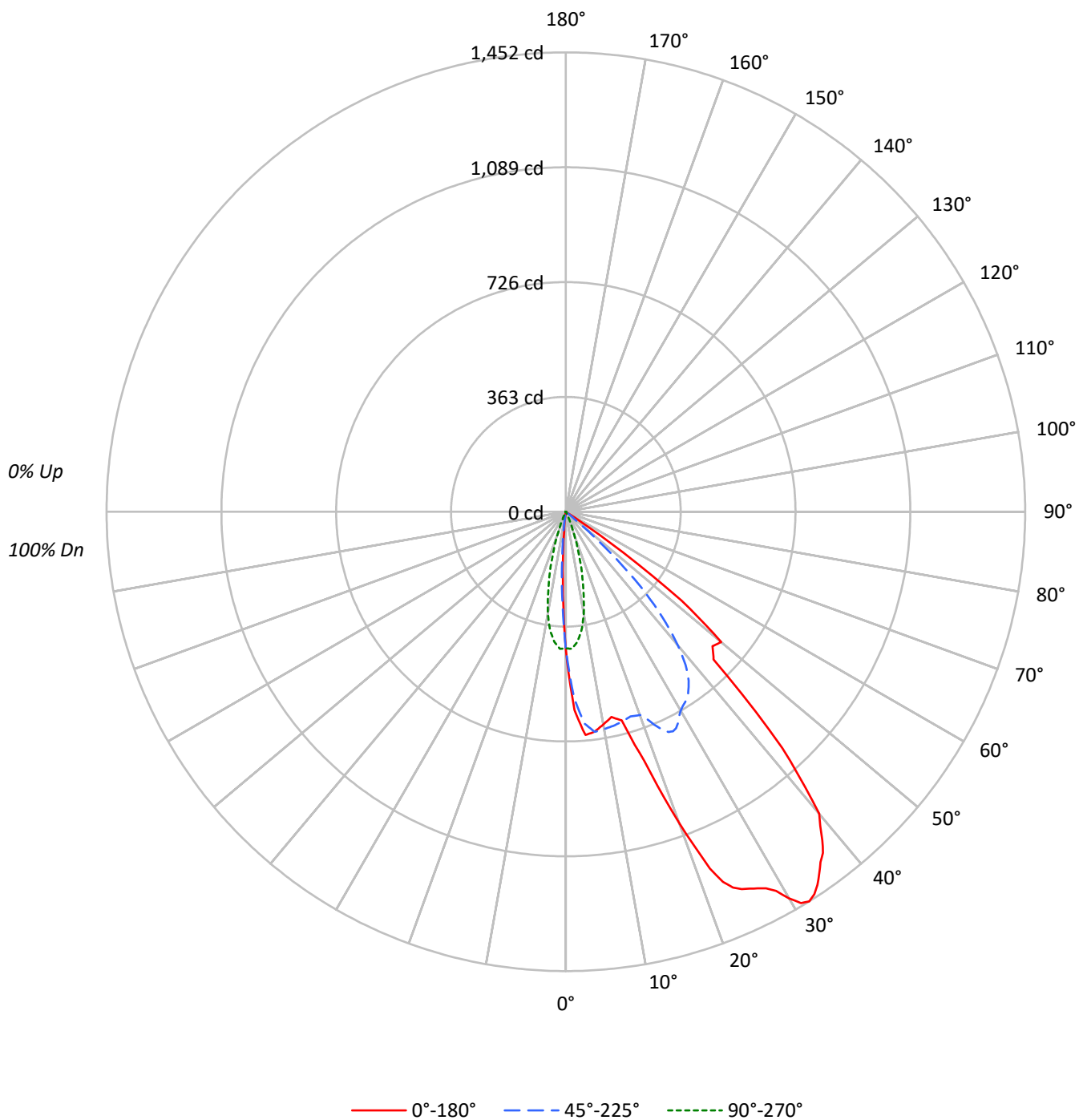
Lumens per Lamp: N/A
Luminaire Lumens: 695.0 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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: P1314262

CATALOG NUMBER: P3SQAS09R509735DE010 E3SQCA301MMS

Luminous Intensity Polar Plot





TEST NUMBER: P1314262

CATALOG NUMBER: P3SQAS09R509735DE010 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	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	97	96	96	94	93	91		
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82		
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74		
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44		
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	74314	74314	74314	74314	74314
5°	122451	116210	71417	21212	10615
10°	119338	121961	57221	1067	1434
15°	121671	122402	34269	1088	357
20°	191779	125305	14112	0	0
25°	250018	145997	3363	0	0
30°	280619	144376	139	0	0
35°	293670	142168	0	0	0
40°	280149	123516	0	0	0
45°	160895	81519	0	0	0
50°	171690	9324	0	0	0
55°	48913	0	0	0	0
60°	0	0	241	0	0
65°	0	285	285	0	0
70°	0	352	352	0	0
75°	0	466	466	0	0
80°	0	694	1389	694	0
85°	0	1383	2766	1383	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 177652 cd/sqm

TEST NUMBER: P1314262

CATALOG NUMBER: P3SQAS09R509735DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	5.2
10°-20°	91.3	13.1
20°-30°	175.4	25.2
30°-40°	204.1	29.4
40°-50°	146.1	21.0
50°-60°	40.7	5.9
60°-70°	0.3	0.0
70°-80°	0.4	0.1
80°-90°	0.5	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°	302.9	43.6
0°-40°	507.1	73.0
0°-60°	693.8	99.8
0°-90°	695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	695.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	432	432	432	432	432	
5°	708	672	413	123	61	65
15°	682	686	192	6	2	220
25°	1316	768	18	0	0	598
35°	1397	676	0	0	0	864
45°	661	335	0	0	0	621
55°	163	0	0	0	0	205
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1314262

CATALOG NUMBER: P3SQAS09R509735DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	431.5	431.5	431.5	431.5	431.5	431.5	431.5	431.5	431.5	431.5	431.5
2.5°	627.2	630.6	631.2	623.1	624.4	612.8	613.5	605.3	585.6	516.7	433.6
5°	708.3	706.2	708.3	705.6	708.3	701.5	697.4	694.0	672.2	574.7	413.1
7.5°	700.8	698.1	702.1	703.5	708.3	706.2	706.9	709.0	701.5	606.0	378.3
10°	682.4	681.7	683.7	683.7	689.2	689.9	692.6	696.7	697.4	616.9	327.2
12.5°	664.7	662.6	662.6	661.9	664.7	664.0	670.8	680.3	693.3	610.1	257.0
15°	682.4	680.3	677.6	670.1	664.7	658.5	659.2	665.3	686.5	592.4	192.2
17.5°	825.5	814.6	801.0	777.1	751.9	708.3	682.4	666.0	678.3	565.1	128.2
20°	1046.4	1041.6	1019.8	981.0	940.1	876.0	796.2	732.1	683.7	531.0	77.0
21°	1130.3	1127.5	1104.3	1068.2	1021.9	944.1	862.3	785.3	694.6	516.7	60.7
22°	1216.1	1205.9	1187.5	1147.3	1098.9	1021.2	929.8	844.6	716.5	498.3	46.4
23°	1271.4	1265.2	1245.5	1213.4	1167.1	1091.4	998.0	905.3	737.6	477.9	34.8
24°	1300.0	1297.9	1282.3	1259.8	1220.2	1143.2	1054.6	959.1	755.3	454.0	25.2
25°	1315.7	1308.9	1299.3	1283.0	1253.0	1186.1	1107.1	1006.2	768.3	430.1	17.7
26°	1325.2	1321.1	1306.1	1291.8	1263.2	1208.6	1141.2	1034.8	771.7	400.8	12.3
27°	1336.1	1326.6	1312.3	1295.2	1263.2	1215.5	1154.1	1047.1	767.6	370.8	8.2
28°	1347.7	1340.9	1321.1	1299.3	1261.1	1215.5	1149.3	1030.7	755.3	342.2	4.8
29°	1370.2	1361.3	1336.8	1304.8	1261.8	1214.1	1130.9	996.6	739.0	310.2	2.7
30°	1411.1	1392.7	1362.7	1317.7	1266.6	1211.4	1100.3	945.5	726.0	274.0	0.7
31°	1443.1	1432.9	1398.2	1341.6	1280.2	1203.9	1064.1	895.1	717.1	242.7	0.0
32°	1452.0	1444.5	1419.3	1366.1	1303.4	1197.7	1023.2	846.0	710.3	207.9	0.0
33°	1441.8	1437.0	1410.4	1362.0	1309.5	1189.6	976.2	797.6	702.8	176.6	0.0
34°	1422.7	1416.6	1393.4	1344.3	1293.9	1154.1	931.2	760.8	691.9	147.2	0.0
35°	1396.8	1392.0	1368.2	1319.8	1265.2	1098.9	886.2	736.2	676.2	117.9	0.0
36°	1368.8	1367.5	1336.8	1289.1	1228.4	1045.7	831.7	717.8	660.6	93.4	0.0
37°	1350.4	1343.6	1310.2	1263.2	1184.8	983.7	788.0	711.7	638.7	72.3	0.0
38°	1317.0	1318.4	1280.2	1237.3	1140.5	929.8	752.6	706.9	614.2	52.5	0.0
39°	1277.5	1278.2	1238.6	1201.8	1088.0	873.3	723.3	702.1	583.5	33.4	0.0
40°	1246.1	1245.5	1200.5	1160.9	1031.4	820.1	707.6	695.3	549.4	19.1	0.0
42.5°	1013.0	1017.1	1022.5	1038.9	898.5	726.7	692.6	657.2	452.6	0.0	0.0
45°	660.6	676.2	680.3	729.4	728.7	688.5	657.2	589.0	334.7	0.0	0.0
47.5°	628.5	633.3	642.2	661.2	671.5	651.7	587.6	492.2	182.7	0.0	0.0
50°	640.8	640.1	642.2	642.2	623.8	572.6	482.0	363.3	34.8	0.0	0.0
52.5°	460.1	477.2	495.6	503.8	479.9	426.1	351.8	213.4	0.0	0.0	0.0
55°	162.9	157.5	153.4	167.7	164.3	184.7	152.7	49.8	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	2.7	6.1	8.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4



TEST NUMBER: P1314262

CATALOG NUMBER: P3SQAS09R509735DE010 E3SQCA301MMS

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	0.7	0.7	0.7	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.4
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: P1314262

CATALOG NUMBER: P3SQAS09R509735DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	431.5	431.5	431.5	431.5
2.5°	345.6	265.2	214.7	218.1
5°	242.7	122.7	75.7	61.4
7.5°	145.2	37.5	7.5	6.1
10°	68.2	6.1	6.8	8.2
12.5°	20.5	5.5	7.5	6.8
15°	5.5	6.1	3.4	2.0
17.5°	2.0	2.7	0.0	0.0
20°	1.4	0.0	0.0	0.0
21°	1.4	0.0	0.0	0.0
22°	0.7	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°	0.7	0.0	0.0	0.0
67.5°	0.7	0.0	0.0	0.0
70°	0.7	0.0	0.0	0.0
72.5°	0.7	0.0	0.0	0.0
75°	0.7	0.0	0.0	0.0
77.5°	0.7	0.0	0.0	0.0
80°	0.7	0.7	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.7	0.7	0.0	0.0
85°	0.7	0.7	0.0	0.0
87.5°	0.7	0.7	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)