

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: P1315234

Luminaire Tested: P3SQAS09R509740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315234
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: P3SQAS09R509740DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

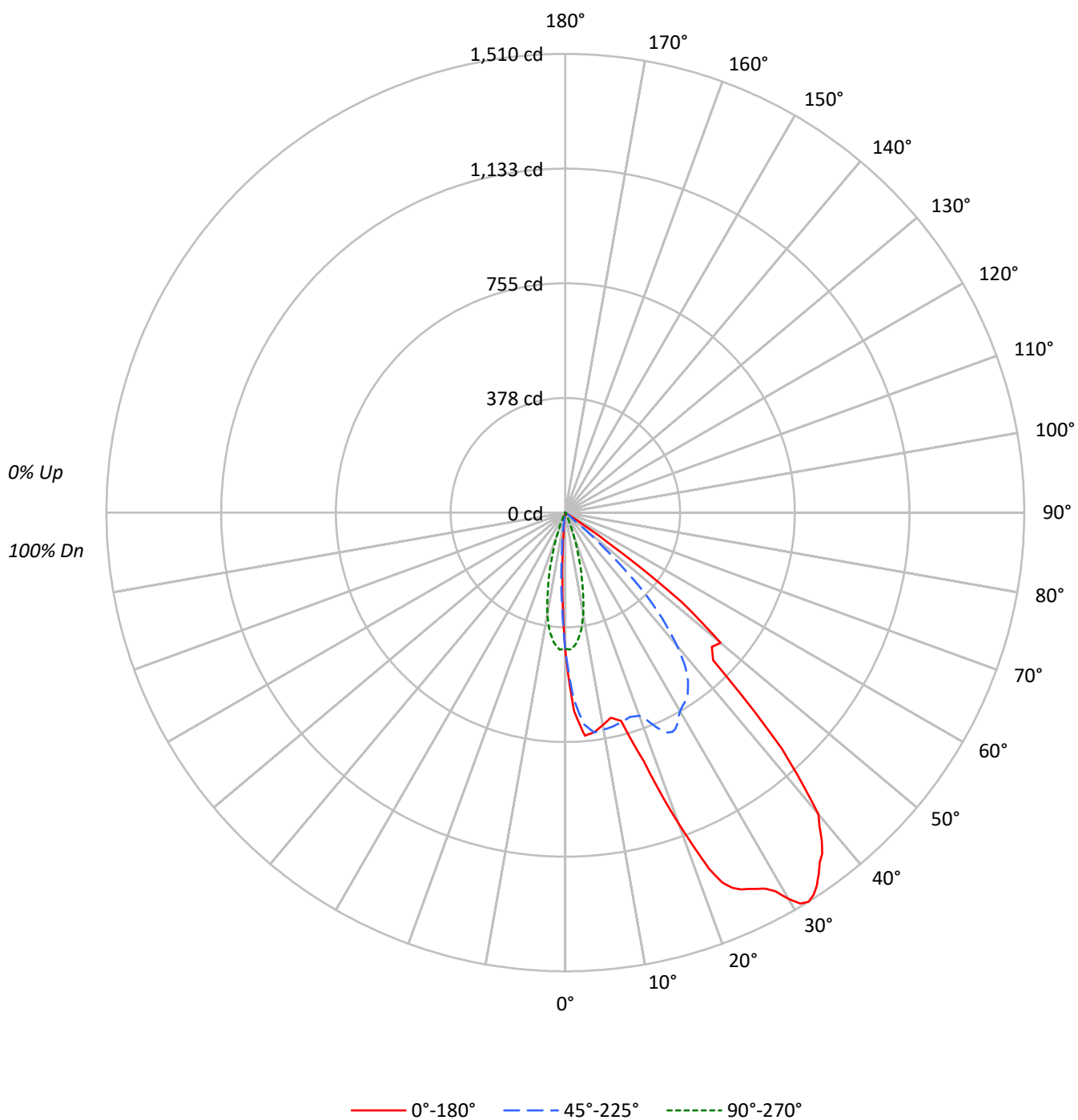
Lumens per Lamp: N/A
Luminaire Lumens: 723.0 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1315234

CATALOG NUMBER: P3SQAS09R509740DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1315234

CATALOG NUMBER: P3SQAS09R509740DE010 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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	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°	77311	77311	77311	77311	77311
5°	127378	120878	74304	22060	11030
10°	124147	126875	59529	1119	1486
15°	126574	127323	35660	1141	374
20°	199514	130364	14680	0	0
25°	260089	151869	3496	0	0
30°	291935	150203	139	0	0
35°	305507	147907	0	0	0
40°	291435	128508	0	0	0
45°	167374	84807	0	0	0
50°	178603	9699	0	0	0
55°	50894	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: 184813 cd/sqm

TEST NUMBER: P1315234

CATALOG NUMBER: P3SQAS09R509740DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	5.2
10°-20°	95.0	13.1
20°-30°	182.4	25.2
30°-40°	212.4	29.4
40°-50°	152.0	21.0
50°-60°	42.3	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°	315.1	43.6
0°-40°	527.5	73.0
0°-60°	721.8	99.8
0°-90°	723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	723.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	449	449	449	449	449	
5°	737	699	430	128	64	68
15°	710	714	200	6	2	229
25°	1369	799	18	0	0	623
35°	1453	704	0	0	0	899
45°	687	348	0	0	0	646
55°	170	0	0	0	0	213
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: P1315234

CATALOG NUMBER: P3SQAS09R509740DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	448.9	448.9	448.9	448.9	448.9	448.9	448.9	448.9	448.9	448.9	448.9
2.5°	652.4	656.0	656.7	648.2	649.6	637.5	638.2	629.7	609.2	537.5	451.0
5°	736.8	734.7	736.8	734.0	736.8	729.7	725.5	721.9	699.2	597.8	429.8
7.5°	729.0	726.2	730.4	731.9	736.8	734.7	735.4	737.5	729.7	630.4	393.6
10°	709.9	709.2	711.3	711.3	717.0	717.7	720.5	724.8	725.5	641.8	340.4
12.5°	691.4	689.3	689.3	688.6	691.4	690.7	697.8	707.7	721.2	634.7	267.4
15°	709.9	707.7	704.9	697.1	691.4	685.0	685.8	692.1	714.1	616.3	200.0
17.5°	858.8	847.4	833.3	808.4	782.2	736.8	709.9	692.8	705.6	587.9	133.3
20°	1088.6	1083.6	1060.9	1020.5	977.9	911.3	828.3	761.6	711.3	552.4	80.1
21°	1175.8	1172.9	1148.8	1111.3	1063.0	982.2	897.1	817.0	722.6	537.5	63.1
22°	1265.1	1254.5	1235.4	1193.5	1143.2	1062.3	967.3	878.6	745.3	518.4	48.2
23°	1322.6	1316.2	1295.6	1262.3	1214.1	1135.4	1038.2	941.8	767.3	497.1	36.2
24°	1352.4	1350.2	1333.9	1310.5	1269.4	1189.3	1097.1	997.8	785.7	472.3	26.2
25°	1368.7	1361.6	1351.7	1334.6	1303.4	1233.9	1151.7	1046.7	799.2	447.5	18.4
26°	1378.6	1374.4	1358.7	1343.9	1314.1	1257.3	1187.1	1076.5	802.8	417.0	12.8
27°	1390.0	1380.0	1365.1	1347.4	1314.1	1264.4	1200.6	1089.3	798.5	385.8	8.5
28°	1402.0	1394.9	1374.4	1351.7	1311.9	1264.4	1195.6	1072.2	785.7	356.0	5.0
29°	1425.4	1416.2	1390.7	1357.3	1312.7	1263.0	1176.5	1036.8	768.7	322.7	2.8
30°	1468.0	1448.8	1417.6	1370.8	1317.6	1260.2	1144.6	983.6	755.3	285.1	0.7
31°	1501.3	1490.7	1454.5	1395.6	1331.8	1252.4	1107.0	931.1	746.0	252.5	0.0
32°	1510.5	1502.7	1476.5	1421.2	1355.9	1246.0	1064.4	880.1	738.9	216.3	0.0
33°	1499.9	1494.9	1467.3	1416.9	1362.3	1237.5	1015.5	829.7	731.1	183.7	0.0
34°	1480.0	1473.6	1449.5	1398.5	1346.0	1200.6	968.7	791.4	719.8	153.2	0.0
35°	1453.1	1448.1	1423.3	1372.9	1316.2	1143.2	921.9	765.9	703.5	122.7	0.0
36°	1424.0	1422.6	1390.7	1341.0	1277.9	1087.9	865.2	746.7	687.2	97.2	0.0
37°	1404.8	1397.8	1363.0	1314.1	1232.5	1023.3	819.8	740.4	664.5	75.2	0.0
38°	1370.1	1371.5	1331.8	1287.1	1186.4	967.3	782.9	735.4	639.0	54.6	0.0
39°	1329.0	1329.7	1288.5	1250.2	1131.8	908.4	752.4	730.4	607.0	34.7	0.0
40°	1296.3	1295.6	1248.8	1207.7	1073.0	853.1	736.1	723.3	571.6	19.9	0.0
42.5°	1053.8	1058.1	1063.7	1080.8	934.7	756.0	720.5	683.6	470.9	0.0	0.0
45°	687.2	703.5	707.7	758.8	758.1	716.3	683.6	612.7	348.2	0.0	0.0
47.5°	653.8	658.8	668.0	687.9	698.5	678.0	611.3	512.0	190.1	0.0	0.0
50°	666.6	665.9	668.0	668.0	648.9	595.7	501.4	378.0	36.2	0.0	0.0
52.5°	478.7	496.4	515.6	524.1	499.2	443.2	365.9	222.0	0.0	0.0	0.0
55°	169.5	163.8	159.6	174.5	170.9	192.2	158.9	51.8	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	2.8	6.4	8.5	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: P1315234

CATALOG NUMBER: P3SQAS09R509740DE010 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: P1315234

CATALOG NUMBER: P3SQAS09R509740DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	448.9	448.9	448.9	448.9
2.5°	359.5	275.9	223.4	226.9
5°	252.5	127.6	78.7	63.8
7.5°	151.1	39.0	7.8	6.4
10°	70.9	6.4	7.1	8.5
12.5°	21.3	5.7	7.8	7.1
15°	5.7	6.4	3.5	2.1
17.5°	2.1	2.8	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



TEST NUMBER: P1315234

CATALOG NUMBER: P3SQAS09R509740DE010 E3SQCA301MMS

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)