

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: P1314429

Luminaire Tested: P3SQAS13R509735DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314429
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: P3SQAS13R509735DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

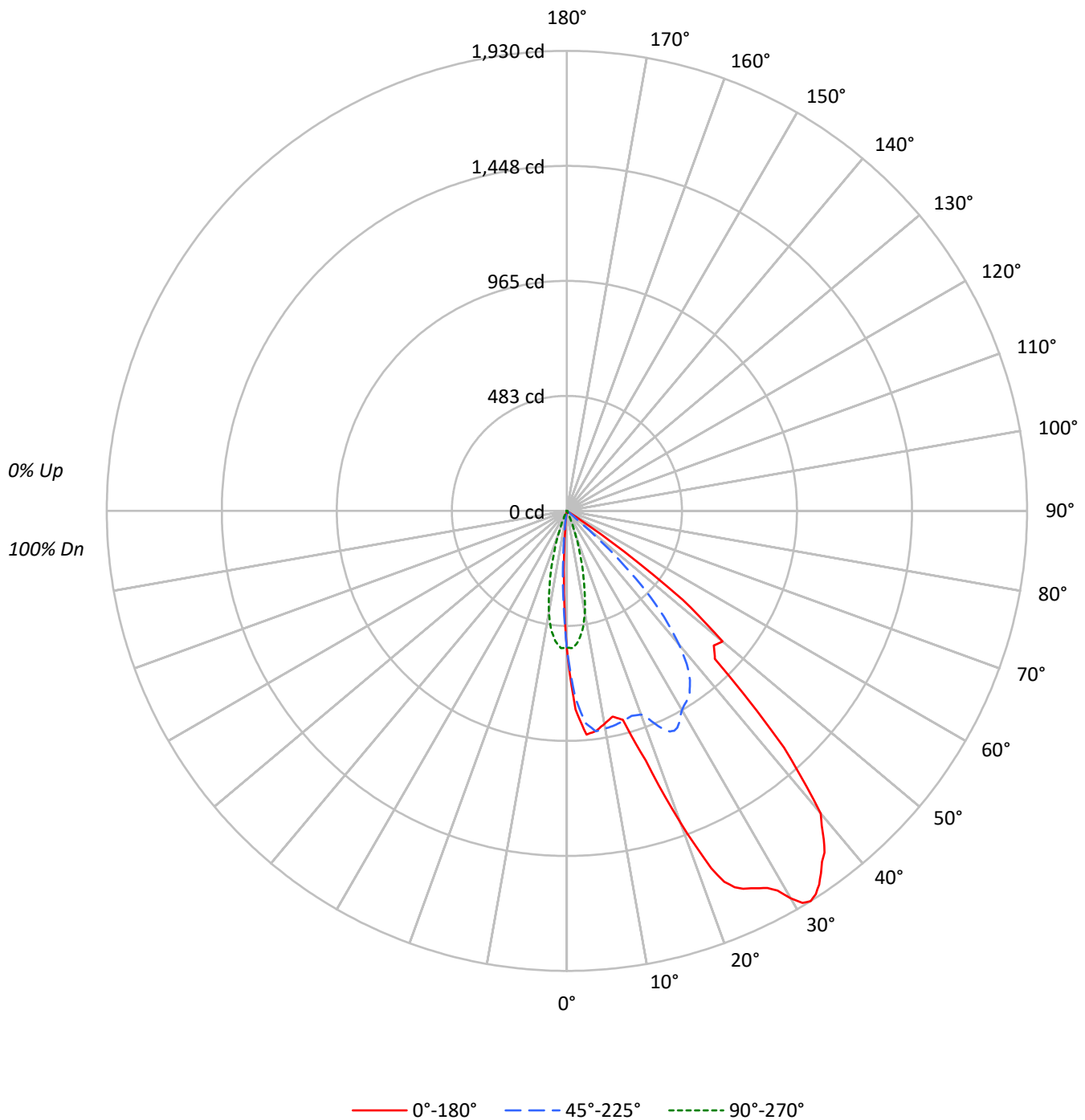
Lumens per Lamp: N/A
Luminaire Lumens: 924.0 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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: P1314429

CATALOG NUMBER: P3SQAS13R509735DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1314429

CATALOG NUMBER: P3SQAS13R509735DE010 E3SQCA301MB

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°	98804	98804	98804	98804	98804
5°	162802	154486	94946	28197	14107
10°	158651	162148	76073	1434	1906
15°	161752	162733	45573	1462	481
20°	254973	166597	18767	0	0
25°	332395	194093	4485	0	0
30°	373092	191945	179	0	0
35°	390425	189031	0	0	0
40°	372460	164232	0	0	0
45°	213894	108384	0	0	0
50°	228250	12378	0	0	0
55°	65037	0	0	0	0
60°	0	0	310	0	0
65°	0	367	367	0	0
70°	0	453	453	0	0
75°	0	599	599	0	0
80°	0	893	1785	893	0
85°	0	1778	3557	1778	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 236204 cd/sqm

TEST NUMBER: P1314429

CATALOG NUMBER: P3SQAS13R509735DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	5.2
10°-20°	121.4	13.1
20°-30°	233.2	25.2
30°-40°	271.4	29.4
40°-50°	194.2	21.0
50°-60°	54.1	5.9
60°-70°	0.4	0.0
70°-80°	0.6	0.1
80°-90°	0.7	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°	402.7	43.6
0°-40°	674.1	73.0
0°-60°	922.4	99.8
0°-90°	924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	924.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	574	574	574	574	574	
5°	942	894	549	163	82	86
15°	907	913	256	8	3	293
25°	1749	1021	24	0	0	796
35°	1857	899	0	0	0	1149
45°	878	445	0	0	0	826
55°	217	0	0	0	0	273
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	2	1	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1314429

CATALOG NUMBER: P3SQAS13R509735DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7
2.5°	833.8	838.3	839.2	828.4	830.2	814.8	815.7	804.8	778.5	687.0	576.4
5°	941.7	938.9	941.7	938.0	941.7	932.6	927.2	922.6	893.6	764.0	549.2
7.5°	931.7	928.1	933.5	935.3	941.7	938.9	939.8	942.6	932.6	805.7	503.0
10°	907.2	906.3	909.0	909.0	916.3	917.2	920.8	926.3	927.2	820.2	435.0
12.5°	883.7	880.9	880.9	880.0	883.7	882.7	891.8	904.5	921.7	811.1	341.7
15°	907.2	904.5	900.9	890.9	883.7	875.5	876.4	884.6	912.7	787.6	255.6
17.5°	1097.5	1083.0	1064.9	1033.2	999.7	941.7	907.2	885.5	901.8	751.3	170.4
20°	1391.2	1384.8	1355.8	1304.2	1249.8	1164.6	1058.6	973.4	909.0	706.0	102.4
21°	1502.7	1499.0	1468.2	1420.2	1358.6	1255.2	1146.5	1044.1	923.5	687.0	80.7
22°	1616.9	1603.3	1578.8	1525.3	1461.0	1357.7	1236.2	1122.9	952.5	662.5	61.6
23°	1690.3	1682.1	1655.8	1613.2	1551.6	1451.0	1326.8	1203.6	980.6	635.3	46.2
24°	1728.3	1725.6	1704.8	1674.9	1622.3	1519.9	1402.1	1275.2	1004.2	603.6	33.5
25°	1749.2	1740.1	1727.4	1705.7	1665.8	1577.0	1471.8	1337.7	1021.4	571.9	23.6
26°	1761.9	1756.4	1736.5	1717.5	1679.4	1606.9	1517.2	1375.8	1025.9	532.9	16.3
27°	1776.4	1763.7	1744.6	1722.0	1679.4	1616.0	1534.4	1392.1	1020.5	493.0	10.9
28°	1791.8	1782.7	1756.4	1727.4	1676.7	1616.0	1528.0	1370.3	1004.2	455.0	6.3
29°	1821.7	1809.9	1777.3	1734.7	1677.6	1614.1	1503.6	1325.0	982.4	412.4	3.6
30°	1876.1	1851.6	1811.7	1751.9	1683.9	1610.5	1462.8	1257.1	965.2	364.3	0.9
31°	1918.7	1905.1	1858.8	1783.6	1702.1	1600.5	1414.8	1190.0	953.4	322.6	0.0
32°	1930.4	1920.5	1886.9	1816.2	1732.9	1592.4	1360.4	1124.7	944.4	276.4	0.0
33°	1916.8	1910.5	1875.2	1810.8	1741.0	1581.5	1297.8	1060.4	934.4	234.7	0.0
34°	1891.5	1883.3	1852.5	1787.2	1720.2	1534.4	1238.0	1011.4	919.9	195.8	0.0
35°	1857.0	1850.7	1819.0	1754.6	1682.1	1461.0	1178.2	978.8	899.1	156.8	0.0
36°	1819.9	1818.1	1777.3	1713.8	1633.2	1390.3	1105.7	954.3	878.2	124.2	0.0
37°	1795.4	1786.3	1741.9	1679.4	1575.2	1307.8	1047.7	946.2	849.2	96.1	0.0
38°	1751.0	1752.8	1702.1	1645.0	1516.3	1236.2	1000.6	939.8	816.6	69.8	0.0
39°	1698.4	1699.3	1646.8	1597.8	1446.5	1161.0	961.6	933.5	775.8	44.4	0.0
40°	1656.7	1655.8	1596.0	1543.4	1371.2	1090.3	940.8	924.4	730.5	25.4	0.0
42.5°	1346.8	1352.2	1359.5	1381.2	1194.5	966.1	920.8	873.7	601.8	0.0	0.0
45°	878.2	899.1	904.5	969.8	968.8	915.4	873.7	783.1	445.0	0.0	0.0
47.5°	835.6	842.0	853.7	879.1	892.7	866.4	781.2	654.4	242.9	0.0	0.0
50°	851.9	851.0	853.7	853.7	829.3	761.3	640.8	483.1	46.2	0.0	0.0
52.5°	611.8	634.4	658.9	669.8	638.0	566.4	467.7	283.7	0.0	0.0	0.0
55°	216.6	209.4	203.9	223.0	218.4	245.6	203.0	66.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.9	3.6	8.2	10.9	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	0.9	0.9
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	1.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	1.8



TEST NUMBER: P1314429

CATALOG NUMBER: P3SQAS13R509735DE010 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	0.9	0.9	0.9	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.8
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: P1314429

CATALOG NUMBER: P3SQAS13R509735DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	573.7	573.7	573.7	573.7
2.5°	459.5	352.6	285.5	290.0
5°	322.6	163.1	100.6	81.6
7.5°	193.0	49.8	10.0	8.2
10°	90.6	8.2	9.1	10.9
12.5°	27.2	7.3	10.0	9.1
15°	7.3	8.2	4.5	2.7
17.5°	2.7	3.6	0.0	0.0
20°	1.8	0.0	0.0	0.0
21°	1.8	0.0	0.0	0.0
22°	0.9	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°	0.9	0.0	0.0	0.0
67.5°	0.9	0.0	0.0	0.0
70°	0.9	0.0	0.0	0.0
72.5°	0.9	0.0	0.0	0.0
75°	0.9	0.0	0.0	0.0
77.5°	0.9	0.0	0.0	0.0
80°	0.9	0.9	0.0	0.0



TEST NUMBER: P1314429

CATALOG NUMBER: P3SQAS13R509735DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.9	0.9	0.0	0.0
85°	0.9	0.9	0.0	0.0
87.5°	0.9	0.9	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)