

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: P1305964

Luminaire Tested: P3SQASS13R509024DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305964
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: P3SQASS13R509024DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

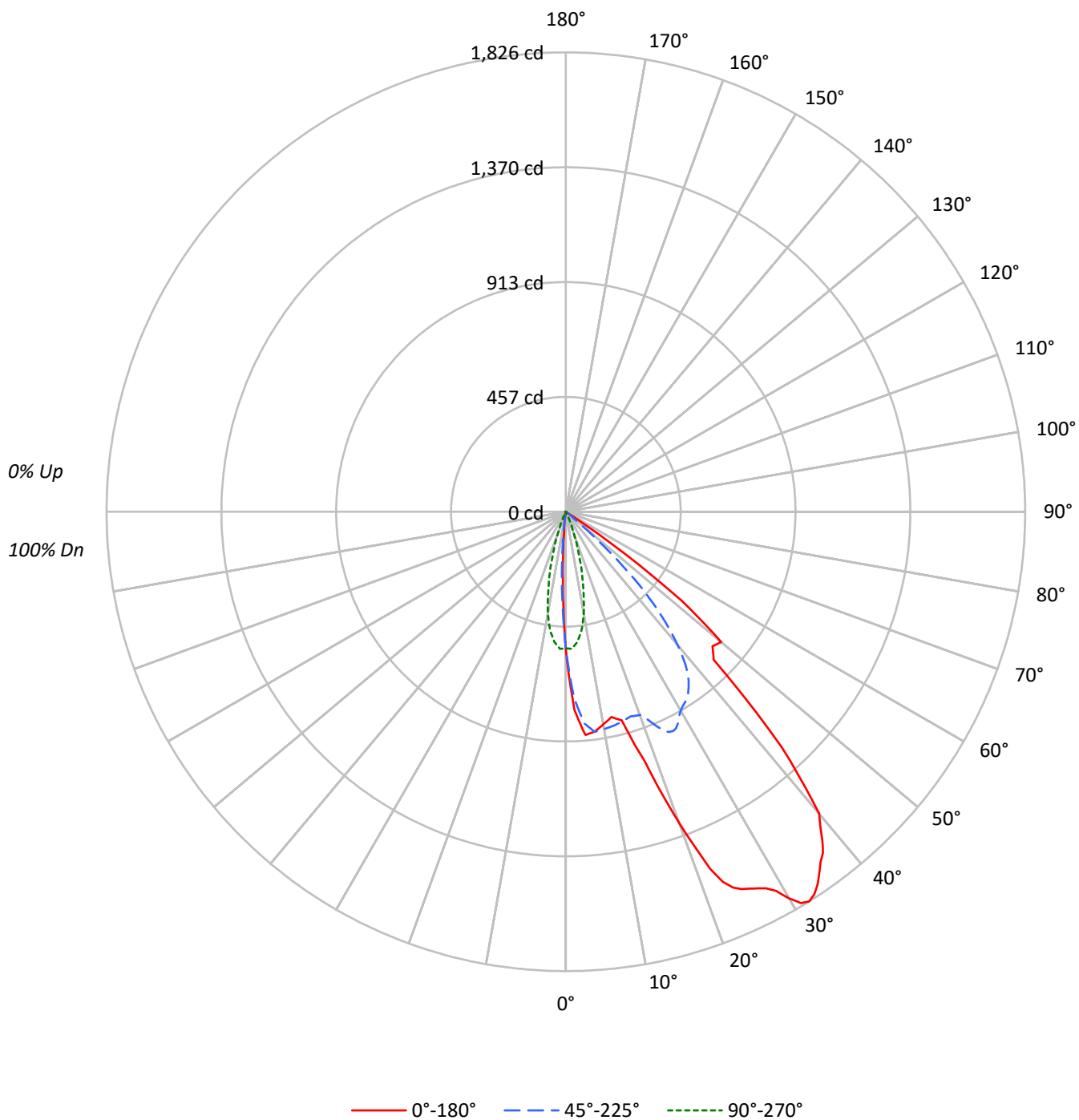
Lumens per Lamp: N/A
Luminaire Lumens: 874.1 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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	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°	93465	93465	93465	93465	93465
5°	153985	146136	89811	26675	13346
10°	150064	153369	71963	1347	1801
15°	152998	153925	43095	1373	464
20°	241172	157580	17759	0	0
25°	314399	183585	4238	0	0
30°	352887	181564	179	0	0
35°	369295	178792	0	0	0
40°	352317	155351	0	0	0
45°	202325	102514	0	0	0
50°	215899	11709	0	0	0
55°	61523	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	1686	893	0
85°	0	1778	3359	1778	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 223417 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	5.2
10°-20°	114.8	13.1
20°-30°	220.6	25.2
30°-40°	256.7	29.4
40°-50°	183.7	21.0
50°-60°	51.1	5.9
60°-70°	0.4	0.0
70°-80°	0.5	0.1
80°-90°	0.6	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°	380.9	43.6
0°-40°	637.7	73.0
0°-60°	872.5	99.8
0°-90°	874.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	874.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	543	543	543	543	543	
5°	891	845	520	154	77	82
15°	858	863	242	8	3	277
25°	1654	966	22	0	0	753
35°	1756	850	0	0	0	1087
45°	831	421	0	0	0	781
55°	205	0	0	0	0	258
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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	542.7	542.7	542.7	542.7	542.7	542.7	542.7	542.7	542.7	542.7	542.7
2.5°	788.7	793.0	793.8	783.5	785.3	770.7	771.5	761.3	736.4	649.8	545.2
5°	890.7	888.1	890.7	887.3	890.7	882.1	877.0	872.7	845.3	722.7	519.5
7.5°	881.3	877.8	883.0	884.7	890.7	888.1	889.0	891.6	882.1	762.1	475.8
10°	858.1	857.3	859.8	859.8	866.7	867.6	871.0	876.1	877.0	775.8	411.5
12.5°	835.8	833.3	833.3	832.4	835.8	835.0	843.6	855.6	871.8	767.3	323.2
15°	858.1	855.6	852.1	842.7	835.8	828.1	829.0	836.7	863.3	745.0	241.7
17.5°	1038.2	1024.4	1007.3	977.3	945.6	890.7	858.1	837.6	853.0	710.7	161.2
20°	1315.9	1309.9	1282.5	1233.6	1182.2	1101.6	1001.3	920.7	859.8	667.8	96.9
21°	1421.4	1417.9	1388.8	1343.3	1285.0	1187.3	1084.4	987.6	873.6	649.8	76.3
22°	1529.4	1516.5	1493.4	1442.8	1381.9	1284.2	1169.3	1062.2	901.0	626.7	58.3
23°	1598.8	1591.1	1566.2	1525.9	1467.6	1372.5	1255.0	1138.5	927.6	600.9	43.7
24°	1634.8	1632.2	1612.5	1584.2	1534.5	1437.6	1326.2	1206.2	949.9	570.9	31.7
25°	1654.5	1646.0	1634.0	1613.4	1575.7	1491.6	1392.2	1265.3	966.1	540.9	22.3
26°	1666.5	1661.4	1642.5	1624.5	1588.5	1519.9	1435.1	1301.3	970.4	504.1	15.4
27°	1680.2	1668.2	1650.2	1628.8	1588.5	1528.5	1451.4	1316.8	965.3	466.4	10.3
28°	1694.8	1686.2	1661.4	1634.0	1585.9	1528.5	1445.4	1296.2	949.9	430.3	6.0
29°	1723.1	1712.0	1681.1	1640.8	1586.8	1526.8	1422.2	1253.3	929.3	390.1	3.4
30°	1774.5	1751.4	1713.7	1657.1	1592.8	1523.4	1383.6	1189.0	913.0	344.6	0.9
31°	1814.8	1802.0	1758.3	1687.1	1610.0	1513.9	1338.2	1125.6	901.8	305.2	0.0
32°	1826.0	1816.6	1784.8	1718.0	1639.1	1506.2	1286.8	1063.9	893.3	261.5	0.0
33°	1813.1	1807.1	1773.7	1712.8	1646.8	1495.9	1227.6	1003.0	883.8	222.0	0.0
34°	1789.1	1781.4	1752.3	1690.5	1627.1	1451.4	1171.0	956.7	870.1	185.2	0.0
35°	1756.5	1750.5	1720.5	1659.7	1591.1	1381.9	1114.4	925.8	850.4	148.3	0.0
36°	1721.4	1719.7	1681.1	1621.1	1544.8	1315.0	1045.9	902.7	830.7	117.4	0.0
37°	1698.2	1689.7	1647.7	1588.5	1489.9	1237.0	991.0	895.0	803.3	90.9	0.0
38°	1656.2	1658.0	1610.0	1555.9	1434.2	1169.3	946.4	889.0	772.4	66.0	0.0
39°	1606.5	1607.4	1557.7	1511.4	1368.2	1098.2	909.6	883.0	733.8	42.0	0.0
40°	1567.1	1566.2	1509.6	1459.9	1297.0	1031.3	889.8	874.4	691.0	24.0	0.0
42.5°	1273.9	1279.0	1285.9	1306.5	1129.9	913.8	871.0	826.4	569.2	0.0	0.0
45°	830.7	850.4	855.6	917.3	916.4	865.8	826.4	740.7	420.9	0.0	0.0
47.5°	790.4	796.4	807.5	831.6	844.4	819.5	739.0	618.9	229.7	0.0	0.0
50°	805.8	805.0	807.5	807.5	784.4	720.1	606.1	456.9	43.7	0.0	0.0
52.5°	578.7	600.1	623.2	633.5	603.5	535.8	442.4	268.3	0.0	0.0	0.0
55°	204.9	198.0	192.9	210.9	206.6	232.3	192.0	62.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.9	3.4	7.7	10.3	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	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	1.7



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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	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	542.7	542.7	542.7	542.7
2.5°	434.6	333.5	270.0	274.3
5°	305.2	154.3	95.2	77.2
7.5°	182.6	47.1	9.4	7.7
10°	85.7	7.7	8.6	10.3
12.5°	25.7	6.9	9.4	8.6
15°	6.9	7.7	4.3	2.6
17.5°	2.6	3.4	0.0	0.0
20°	1.7	0.0	0.0	0.0
21°	1.7	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

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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)