

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: P1315401

Luminaire Tested: P3SQAS13R509740DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315401
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: P3SQAS13R509740DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

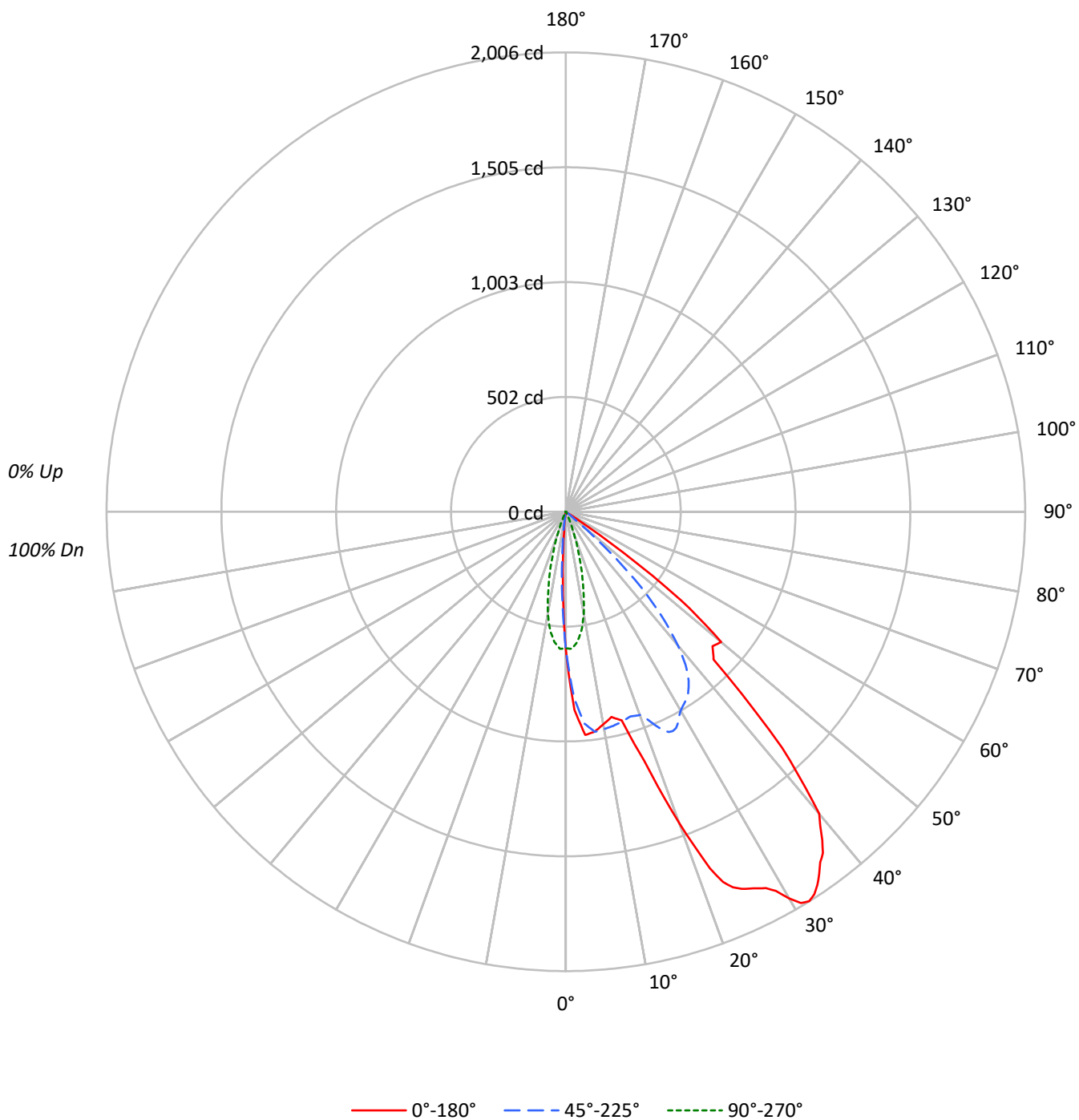
Lumens per Lamp: N/A
Luminaire Lumens: 959.9 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1315401

CATALOG NUMBER: P3SQAS13R509740DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1315401

CATALOG NUMBER: P3SQAS13R509740DE010 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°	102645	102645	102645	102645	102645
5°	169129	160502	98646	29303	14643
10°	164841	168461	79046	1486	1976
15°	168064	169062	47338	1516	499
20°	264906	173085	19501	0	0
25°	345335	201656	4656	0	0
30°	387629	199422	179	0	0
35°	405647	196390	0	0	0
40°	386984	170616	0	0	0
45°	222224	112598	0	0	0
50°	237146	12861	0	0	0
55°	67559	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	1884	893	0
85°	0	1778	3754	1778	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 245386 cd/sqm

TEST NUMBER: P1315401

CATALOG NUMBER: P3SQAS13R509740DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	5.2
10°-20°	126.1	13.1
20°-30°	242.3	25.2
30°-40°	282.0	29.4
40°-50°	201.8	21.0
50°-60°	56.2	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°	418.4	43.6
0°-40°	700.4	73.0
0°-60°	958.3	99.8
0°-90°	959.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	959.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	596	596	596	596	596	
5°	978	928	571	170	85	90
15°	943	948	266	8	3	304
25°	1817	1061	24	0	0	827
35°	1929	934	0	0	0	1194
45°	912	462	0	0	0	858
55°	225	0	0	0	0	283
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: P1315401

CATALOG NUMBER: P3SQAS13R509740DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0	596.0
2.5°	866.3	871.0	871.9	860.6	862.5	846.5	847.5	836.2	808.9	713.7	598.9
5°	978.3	975.5	978.3	974.6	978.3	968.9	963.3	958.6	928.4	793.8	570.6
7.5°	968.0	964.2	969.9	971.8	978.3	975.5	976.5	979.3	968.9	837.1	522.6
10°	942.6	941.6	944.4	944.4	952.0	952.9	956.7	962.3	963.3	852.2	452.0
12.5°	918.1	915.3	915.3	914.3	918.1	917.1	926.6	939.7	957.6	842.8	355.0
15°	942.6	939.7	936.0	925.6	918.1	909.6	910.5	919.0	948.2	818.3	265.5
17.5°	1140.3	1125.2	1106.4	1073.4	1038.6	978.3	942.6	920.0	936.9	780.6	177.0
20°	1445.4	1438.8	1408.7	1355.0	1298.5	1210.0	1099.8	1011.3	944.4	733.5	106.4
21°	1561.2	1557.4	1525.4	1475.5	1411.5	1304.1	1191.2	1084.7	959.5	713.7	83.8
22°	1679.9	1665.7	1640.3	1584.8	1517.9	1410.5	1284.4	1166.7	989.6	688.3	64.0
23°	1756.1	1747.7	1720.3	1676.1	1612.1	1507.5	1378.5	1250.5	1018.8	660.1	48.0
24°	1795.7	1792.8	1771.2	1740.1	1685.5	1579.1	1456.7	1324.9	1043.3	627.1	34.8
25°	1817.3	1807.9	1794.7	1772.1	1730.7	1638.4	1529.2	1389.8	1061.2	594.2	24.5
26°	1830.5	1824.9	1804.1	1784.4	1744.8	1669.5	1576.3	1429.4	1065.9	553.7	16.9
27°	1845.6	1832.4	1812.6	1789.1	1744.8	1678.9	1594.2	1446.3	1060.3	512.2	11.3
28°	1861.6	1852.2	1824.9	1794.7	1742.0	1678.9	1587.6	1423.7	1043.3	472.7	6.6
29°	1892.7	1880.4	1846.5	1802.3	1742.9	1677.0	1562.2	1376.7	1020.7	428.4	3.8
30°	1949.2	1923.7	1882.3	1820.2	1749.5	1673.3	1519.8	1306.0	1002.8	378.5	0.9
31°	1993.4	1979.3	1931.3	1853.1	1768.4	1662.9	1469.9	1236.3	990.6	335.2	0.0
32°	2005.7	1995.3	1960.5	1887.0	1800.4	1654.4	1413.4	1168.6	981.2	287.2	0.0
33°	1991.5	1984.9	1948.2	1881.4	1808.9	1643.1	1348.4	1101.7	970.8	243.9	0.0
34°	1965.2	1956.7	1924.7	1856.9	1787.2	1594.2	1286.3	1050.9	955.7	203.4	0.0
35°	1929.4	1922.8	1889.8	1823.0	1747.7	1517.9	1224.1	1017.0	934.1	162.9	0.0
36°	1890.8	1888.9	1846.5	1780.6	1696.8	1444.4	1148.8	991.5	912.4	129.0	0.0
37°	1865.4	1855.9	1809.8	1744.8	1636.5	1358.8	1088.5	983.1	882.3	99.8	0.0
38°	1819.2	1821.1	1768.4	1709.0	1575.3	1284.4	1039.6	976.5	848.4	72.5	0.0
39°	1764.6	1765.5	1710.9	1660.1	1502.8	1206.2	999.1	969.9	806.0	46.1	0.0
40°	1721.3	1720.3	1658.2	1603.6	1424.7	1132.8	977.4	960.5	758.9	26.4	0.0
42.5°	1399.3	1404.9	1412.4	1435.0	1241.1	1003.8	956.7	907.7	625.2	0.0	0.0
45°	912.4	934.1	939.7	1007.5	1006.6	951.0	907.7	813.6	462.3	0.0	0.0
47.5°	868.2	874.8	887.0	913.4	927.5	900.2	811.7	679.9	252.4	0.0	0.0
50°	885.1	884.2	887.0	887.0	861.6	791.0	665.7	501.9	48.0	0.0	0.0
52.5°	635.6	659.1	684.6	695.9	662.9	588.5	485.9	294.7	0.0	0.0	0.0
55°	225.0	217.5	211.9	231.6	226.9	255.2	210.9	68.7	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.9	3.8	8.5	11.3	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	1.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	1.9



TEST NUMBER: P1315401

CATALOG NUMBER: P3SQAS13R509740DE010 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	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.9
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: P1315401

CATALOG NUMBER: P3SQAS13R509740DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	596.0	596.0	596.0	596.0
2.5°	477.4	366.3	296.6	301.3
5°	335.2	169.5	104.5	84.7
7.5°	200.6	51.8	10.4	8.5
10°	94.2	8.5	9.4	11.3
12.5°	28.2	7.5	10.4	9.4
15°	7.5	8.5	4.7	2.8
17.5°	2.8	3.8	0.0	0.0
20°	1.9	0.0	0.0	0.0
21°	1.9	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: P1315401

CATALOG NUMBER: P3SQAS13R509740DE010 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)