

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: P1311368

Luminaire Tested: P3SQAS13R509050DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311368
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: P3SQAS13R509050DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

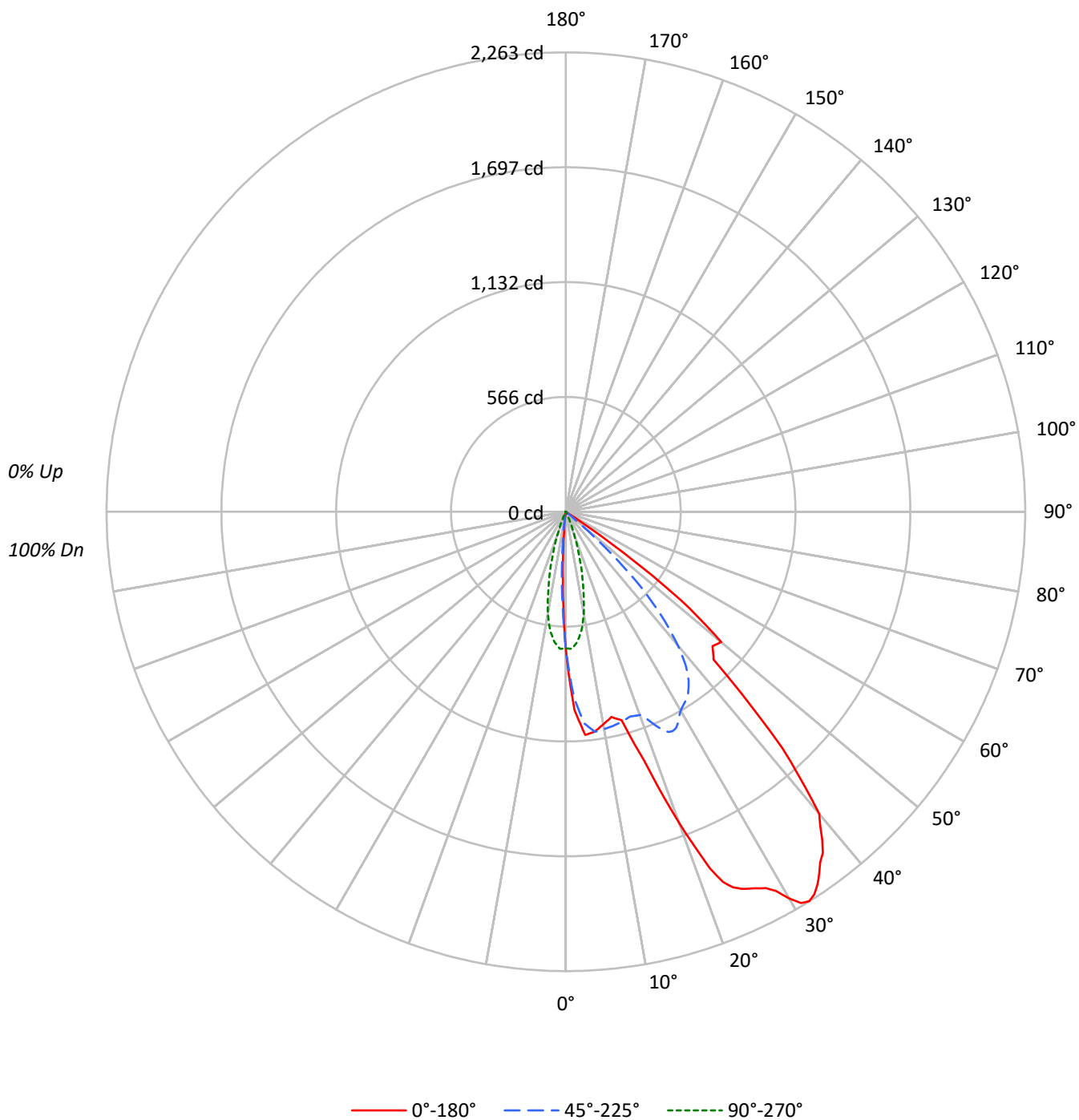
Lumens per Lamp: N/A
Luminaire Lumens: 1083.0 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1311368

CATALOG NUMBER: P3SQAS13R509050DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1311368

CATALOG NUMBER: P3SQAS13R509050DE010 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	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°	115803	115803	115803	115803	115803
5°	190808	181075	111283	33055	16527
10°	185949	190042	89171	1679	2221
15°	189584	190725	53418	1712	571
20°	298849	195280	21993	0	0
25°	389593	227500	5245	0	0
30°	437286	224977	219	0	0
35°	457619	221556	0	0	0
40°	436557	192491	0	0	0
45°	250696	127041	0	0	0
50°	267529	14522	0	0	0
55°	76236	0	0	0	0
60°	0	0	379	0	0
65°	0	448	448	0	0
70°	0	554	554	0	0
75°	0	732	732	0	0
80°	0	1091	2083	1091	0
85°	0	2174	4150	2174	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 276830 cd/sqm

TEST NUMBER: P1311368

CATALOG NUMBER: P3SQAS13R509050DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	5.2
10°-20°	142.3	13.1
20°-30°	273.3	25.2
30°-40°	318.1	29.4
40°-50°	227.7	21.0
50°-60°	63.4	5.9
60°-70°	0.4	0.0
70°-80°	0.7	0.1
80°-90°	0.8	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°	472.0	43.6
0°-40°	790.1	73.0
0°-60°	1081.1	99.8
0°-90°	1083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1083.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	672	672	672	672	672	
5°	1104	1047	644	191	96	101
15°	1063	1070	300	10	3	343
25°	2050	1197	28	0	0	933
35°	2177	1054	0	0	0	1347
45°	1029	522	0	0	0	968
55°	254	0	0	0	0	320
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: P1311368

CATALOG NUMBER: P3SQAS13R509050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4
2.5°	977.3	982.6	983.7	970.9	973.0	955.0	956.0	943.3	912.5	805.2	675.6
5°	1103.7	1100.5	1103.7	1099.4	1103.7	1093.1	1086.7	1081.4	1047.4	895.5	643.7
7.5°	1092.0	1087.8	1094.1	1096.3	1103.7	1100.5	1101.6	1104.8	1093.1	944.4	589.6
10°	1063.3	1062.3	1065.5	1065.5	1074.0	1075.0	1079.3	1085.6	1086.7	961.4	509.9
12.5°	1035.7	1032.5	1032.5	1031.5	1035.7	1034.6	1045.3	1060.1	1080.3	950.7	400.5
15°	1063.3	1060.1	1055.9	1044.2	1035.7	1026.2	1027.2	1036.8	1069.7	923.1	299.6
17.5°	1286.4	1269.4	1248.2	1211.0	1171.7	1103.7	1063.3	1037.8	1057.0	880.6	199.7
20°	1630.6	1623.1	1589.2	1528.6	1464.9	1365.0	1240.7	1140.9	1065.5	827.5	120.0
21°	1761.2	1757.0	1720.9	1664.6	1592.3	1471.2	1343.8	1223.7	1082.5	805.2	94.5
22°	1895.1	1879.2	1850.5	1787.8	1712.4	1591.3	1448.9	1316.1	1116.4	776.5	72.2
23°	1981.1	1971.6	1940.8	1890.8	1818.6	1700.7	1555.2	1410.7	1149.4	744.6	54.2
24°	2025.7	2022.6	1998.1	1963.1	1901.5	1781.4	1643.3	1494.6	1177.0	707.5	39.3
25°	2050.2	2039.6	2024.7	1999.2	1952.4	1848.3	1725.1	1567.9	1197.2	670.3	27.6
26°	2065.0	2058.7	2035.3	2013.0	1968.4	1883.4	1778.2	1612.5	1202.5	624.6	19.1
27°	2082.0	2067.2	2044.9	2018.3	1968.4	1894.0	1798.4	1631.6	1196.1	577.9	12.7
28°	2100.1	2089.5	2058.7	2024.7	1965.2	1894.0	1791.0	1606.1	1177.0	533.3	7.4
29°	2135.2	2121.3	2083.1	2033.2	1966.3	1891.9	1762.3	1553.0	1151.5	483.3	4.2
30°	2198.9	2170.2	2123.5	2053.4	1973.7	1887.6	1714.5	1473.4	1131.3	427.0	1.1
31°	2248.8	2232.9	2178.7	2090.5	1994.9	1876.0	1658.2	1394.8	1117.5	378.2	0.0
32°	2262.6	2250.9	2211.6	2128.8	2031.1	1866.4	1594.5	1318.3	1106.9	324.0	0.0
33°	2246.7	2239.3	2197.8	2122.4	2040.6	1853.7	1521.2	1242.9	1095.2	275.1	0.0
34°	2217.0	2207.4	2171.3	2094.8	2016.2	1798.4	1451.1	1185.5	1078.2	229.4	0.0
35°	2176.6	2169.2	2132.0	2056.5	1971.6	1712.4	1380.9	1147.2	1053.8	183.8	0.0
36°	2133.0	2130.9	2083.1	2008.7	1914.2	1629.5	1296.0	1118.6	1029.3	145.5	0.0
37°	2104.4	2093.7	2041.7	1968.4	1846.2	1532.9	1228.0	1109.0	995.3	112.6	0.0
38°	2052.3	2054.4	1994.9	1928.0	1777.2	1448.9	1172.7	1101.6	957.1	81.8	0.0
39°	1990.7	1991.8	1930.1	1872.8	1695.4	1360.8	1127.1	1094.1	909.3	52.1	0.0
40°	1941.8	1940.8	1870.7	1809.0	1607.2	1277.9	1102.6	1083.5	856.2	29.7	0.0
42.5°	1578.5	1584.9	1593.4	1618.9	1400.1	1132.4	1079.3	1024.0	705.3	0.0	0.0
45°	1029.3	1053.8	1060.1	1136.6	1135.6	1072.9	1024.0	917.8	521.6	0.0	0.0
47.5°	979.4	986.8	1000.7	1030.4	1046.3	1015.5	915.7	767.0	284.7	0.0	0.0
50°	998.5	997.5	1000.7	1000.7	972.0	892.3	751.0	566.2	54.2	0.0	0.0
52.5°	717.0	743.6	772.3	785.0	747.8	663.9	548.1	332.5	0.0	0.0	0.0
55°	253.9	245.4	239.0	261.3	256.0	287.9	237.9	77.5	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.1	4.2	9.6	12.7	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	1.1	1.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.1



TEST NUMBER: P1311368

CATALOG NUMBER: P3SQAS13R509050DE010 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	1.1	1.1	1.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	2.1
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: P1311368

CATALOG NUMBER: P3SQAS13R509050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	672.4	672.4	672.4	672.4
2.5°	538.6	413.2	334.6	339.9
5°	378.2	191.2	117.9	95.6
7.5°	226.3	58.4	11.7	9.6
10°	106.2	9.6	10.6	12.7
12.5°	31.9	8.5	11.7	10.6
15°	8.5	9.6	5.3	3.2
17.5°	3.2	4.2	0.0	0.0
20°	2.1	0.0	0.0	0.0
21°	2.1	0.0	0.0	0.0
22°	1.1	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°	1.1	0.0	0.0	0.0
67.5°	1.1	0.0	0.0	0.0
70°	1.1	0.0	0.0	0.0
72.5°	1.1	0.0	0.0	0.0
75°	1.1	0.0	0.0	0.0
77.5°	1.1	0.0	0.0	0.0
80°	1.1	1.1	0.0	0.0



TEST NUMBER: P1311368

CATALOG NUMBER: P3SQAS13R509050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.1	1.1	0.0	0.0
85°	1.1	1.1	0.0	0.0
87.5°	1.1	1.1	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)