

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: P1311359

Luminaire Tested: P3SQAS13R459050DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R459050DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

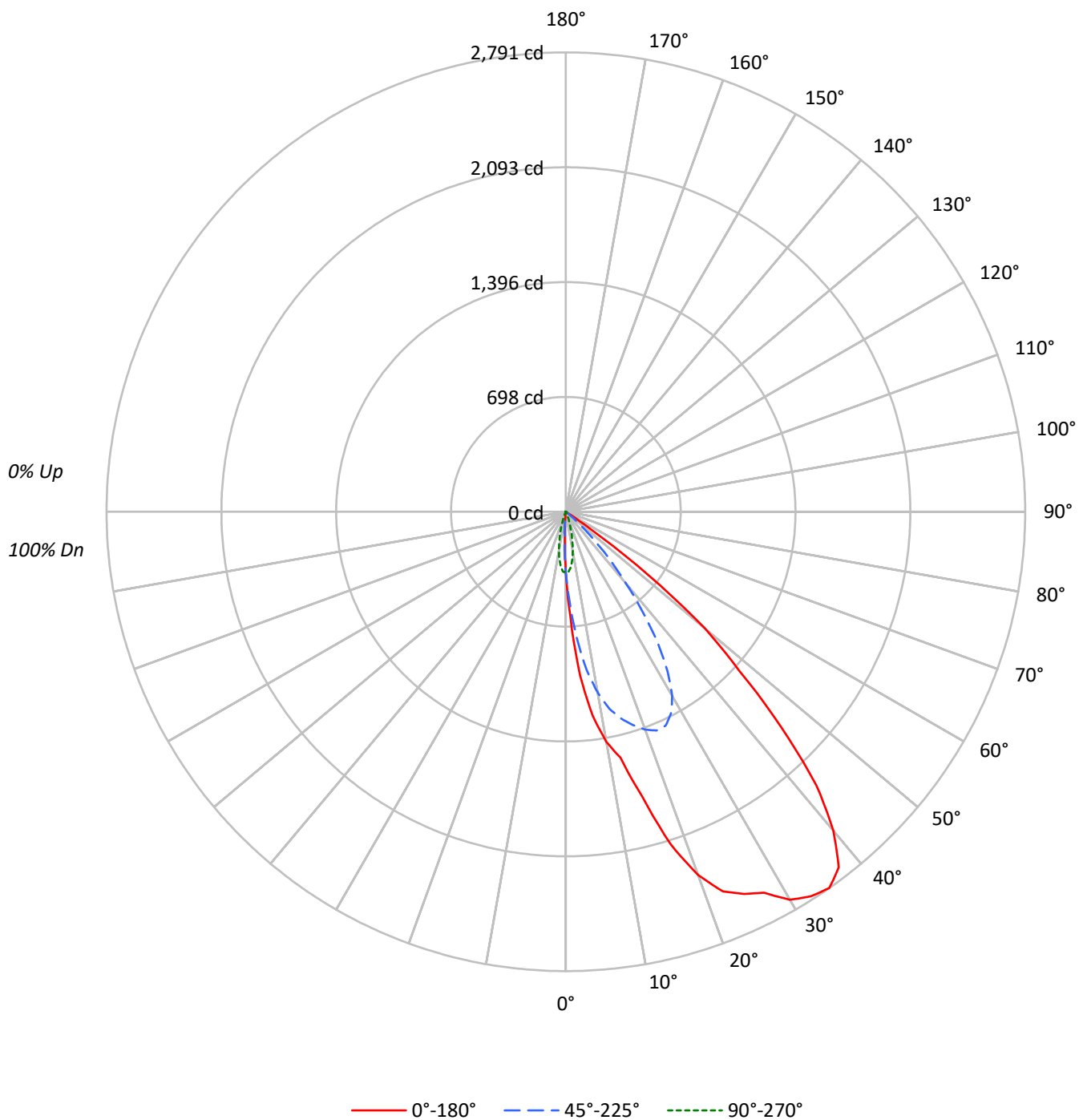
Lumens per Lamp: N/A
Luminaire Lumens: 1183.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1311359

CATALOG NUMBER: P3SQAS13R459050DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1311359

CATALOG NUMBER: P3SQAS13R459050DE010 E3SQCA301MMS

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	98	96		96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88		92	89	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70		77	73	69		76	72	68	67
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51		61	55	51		59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42		52	46	42		51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	63275	63275	63275	63275	63275
5°	172742	132911	58555	11756	4408
10°	248101	194991	42338	1119	927
15°	319403	231930	22537	374	0
20°	430496	258052	8559	0	0
25°	486905	272612	2223	0	0
30°	541233	256994	219	0	0
35°	586710	204947	0	0	0
40°	568661	128687	0	0	0
45°	450780	61304	0	0	0
50°	295045	7690	0	0	0
55°	50684	0	0	0	0
60°	0	0	379	0	0
65°	0	448	448	0	0
70°	0	554	1057	0	0
75°	0	732	1397	0	0
80°	0	1091	2083	1091	0
85°	0	2174	4150	2174	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 450780 cd/sqm

TEST NUMBER: P1311359

CATALOG NUMBER: P3SQAS13R459050DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	3.7
10°-20°	168.5	14.2
20°-30°	315.5	26.7
30°-40°	368.2	31.1
40°-50°	240.2	20.3
50°-60°	44.6	3.8
60°-70°	0.4	0.0
70°-80°	0.9	0.1
80°-90°	1.0	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°	527.8	44.6
0°-40°	896.0	75.7
0°-60°	1180.7	99.8
0°-90°	1183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1183.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	367	367	367	367	367	
5°	999	769	339	68	26	107
15°	1791	1301	126	2	0	534
25°	2562	1435	12	0	0	1185
35°	2791	975	0	0	0	1712
45°	1851	252	0	0	0	1407
55°	169	0	0	0	0	293
65°	0	1	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	1	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1311359

CATALOG NUMBER: P3SQAS13R459050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	367.4	367.4	367.4	367.4	367.4	367.4	367.4	367.4	367.4	367.4	367.4
2.5°	647.7	653.1	642.4	638.2	624.4	627.6	604.2	594.6	579.8	555.4	543.7
5°	999.2	989.7	981.2	963.1	952.5	923.8	892.0	855.9	812.3	768.8	718.9
7.5°	1249.8	1242.4	1239.2	1224.3	1203.1	1173.4	1132.0	1086.3	1030.0	971.6	896.2
10°	1418.7	1411.2	1398.5	1383.6	1366.6	1342.2	1301.9	1251.9	1190.4	1115.0	1026.8
12.5°	1529.1	1528.0	1506.8	1489.8	1468.6	1447.3	1405.9	1365.6	1305.0	1227.5	1127.7
15°	1791.4	1774.4	1746.8	1699.0	1639.5	1584.3	1517.4	1453.7	1387.9	1300.8	1189.3
17.5°	2118.4	2099.3	2052.6	1992.1	1896.5	1791.4	1676.7	1575.8	1477.1	1359.2	1227.5
20°	2348.9	2341.4	2302.1	2232.1	2130.1	1991.0	1840.2	1697.9	1558.8	1408.0	1245.6
22.5°	2496.5	2492.2	2476.3	2428.5	2324.4	2168.3	1974.0	1782.9	1615.1	1438.8	1240.3
25°	2562.3	2567.6	2569.7	2546.4	2462.5	2303.2	2072.8	1847.7	1647.0	1434.6	1199.9
27.5°	2609.0	2609.0	2617.5	2606.9	2522.0	2354.2	2111.0	1870.0	1636.3	1382.6	1115.0
30°	2721.6	2719.5	2724.8	2696.1	2578.2	2370.1	2094.0	1833.9	1575.8	1292.3	992.9
32.5°	2770.4	2772.6	2771.5	2725.8	2588.8	2359.5	2052.6	1764.8	1464.3	1151.1	831.4
35°	2790.6	2781.0	2741.8	2637.7	2464.6	2218.3	1935.8	1648.0	1308.2	974.8	656.2
37.5°	2723.7	2696.1	2609.0	2466.7	2255.4	2018.6	1742.5	1438.8	1101.2	764.5	493.8
40°	2529.4	2493.3	2383.9	2211.9	2018.6	1805.2	1514.2	1193.5	861.2	572.4	346.2
42.5°	2254.4	2212.9	2095.1	1945.4	1769.1	1545.0	1255.1	934.4	630.8	395.0	219.8
45°	1850.8	1827.5	1759.5	1633.2	1460.1	1227.5	962.1	681.7	436.4	251.7	112.6
47.5°	1431.4	1401.7	1352.8	1265.8	1121.3	900.5	673.2	463.0	280.3	124.2	23.4
50°	1101.2	1066.1	1006.7	910.0	759.2	601.0	436.4	288.8	142.3	28.7	1.1
52.5°	633.9	641.4	612.7	551.1	467.2	360.0	252.7	145.5	31.9	1.1	0.0
55°	168.8	182.6	178.4	192.2	168.8	142.3	105.1	27.6	2.1	0.0	0.0
57.5°	0.0	0.0	1.1	2.1	6.4	9.6	3.2	1.1	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	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	1.1	1.1	1.1	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
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: P1311359

CATALOG NUMBER: P3SQAS13R459050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	367.4	367.4	367.4	367.4	367.4	367.4	367.4	367.4
2.5°	517.1	494.8	467.2	365.3	275.0	197.5	154.0	142.3
5°	671.1	616.9	546.9	338.7	169.9	68.0	30.8	25.5
7.5°	816.6	736.9	610.6	296.3	86.0	17.0	8.5	7.4
10°	929.1	821.9	657.3	242.1	31.9	6.4	5.3	5.3
12.5°	1006.7	876.0	674.3	183.7	11.7	3.2	3.2	2.1
15°	1051.3	897.3	658.4	126.4	4.2	2.1	0.0	0.0
17.5°	1065.1	888.8	615.9	79.6	1.1	0.0	0.0	0.0
20°	1053.4	847.4	549.0	46.7	0.0	0.0	0.0	0.0
22.5°	1015.2	782.6	468.3	25.5	0.0	0.0	0.0	0.0
25°	944.0	691.3	373.8	11.7	0.0	0.0	0.0	0.0
27.5°	828.3	573.4	281.4	4.2	0.0	0.0	0.0	0.0
30°	696.6	447.0	199.6	1.1	0.0	0.0	0.0	0.0
32.5°	543.7	329.2	128.5	0.0	0.0	0.0	0.0	0.0
35°	408.8	230.4	76.5	0.0	0.0	0.0	0.0	0.0
37.5°	284.6	145.5	40.4	0.0	0.0	0.0	0.0	0.0
40°	177.3	78.6	13.8	0.0	0.0	0.0	0.0	0.0
42.5°	98.8	27.6	1.1	0.0	0.0	0.0	0.0	0.0
45°	23.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0
60°	0.0	1.1	1.1	1.1	0.0	0.0	0.0	0.0
62.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
65°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
67.5°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
70°	1.1	1.1	1.1	2.1	1.1	0.0	0.0	0.0
72.5°	1.1	1.1	2.1	2.1	1.1	0.0	0.0	0.0
75°	1.1	1.1	2.1	2.1	1.1	0.0	0.0	0.0
77.5°	1.1	2.1	2.1	2.1	1.1	1.1	0.0	0.0
80°	1.1	2.1	2.1	2.1	2.1	1.1	0.0	0.0
82.5°	1.1	2.1	2.1	2.1	2.1	1.1	0.0	0.0
85°	1.1	2.1	2.1	2.1	1.1	1.1	0.0	0.0
87.5°	1.1	2.1	2.1	2.1	2.1	1.1	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)