

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: P1315393

Luminaire Tested: P3SQAS13R459740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315393
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: P3SQAS13R459740DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

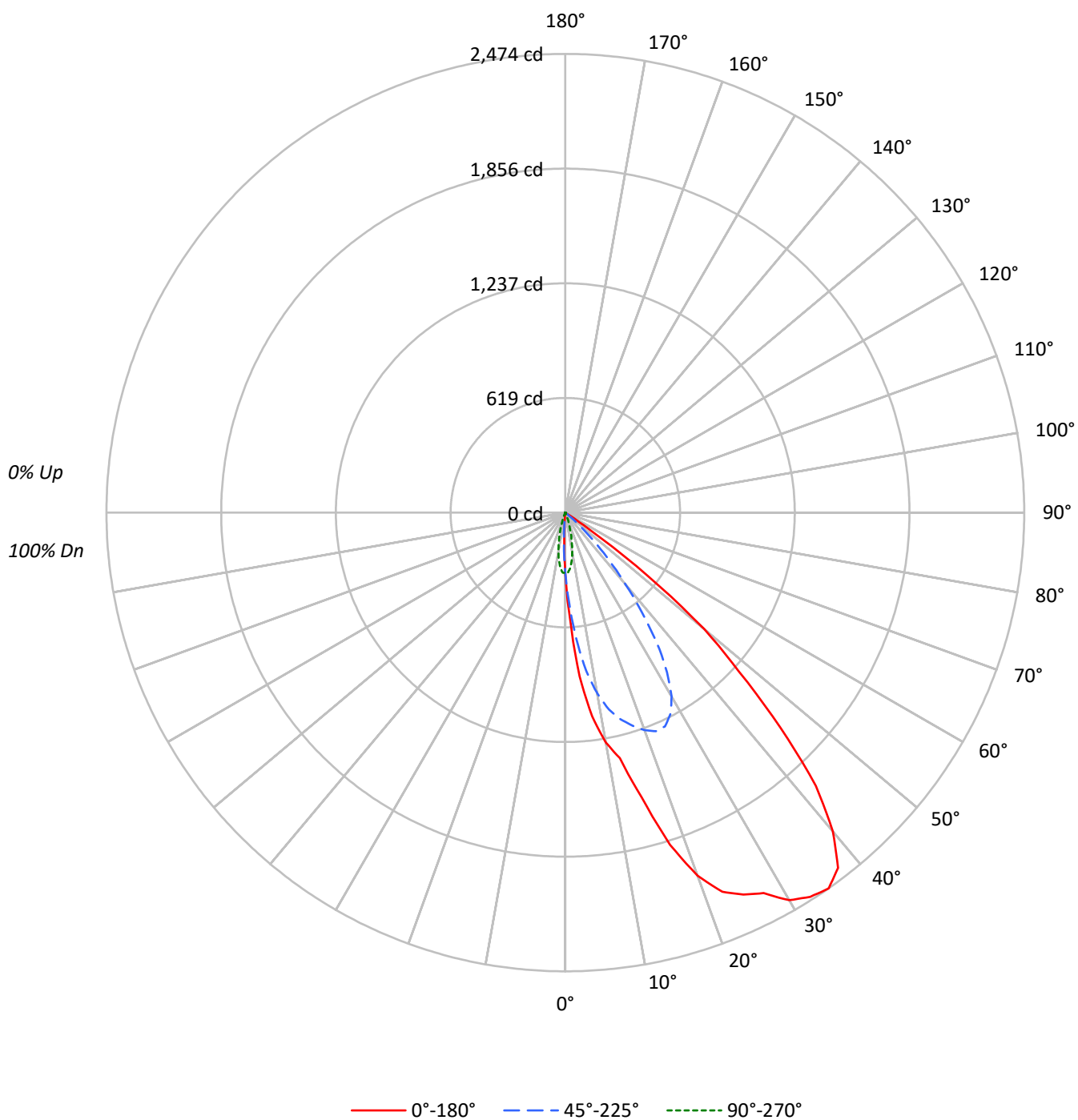
Lumens per Lamp: N/A
Luminaire Lumens: 1049.0 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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	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°	56110	56110	56110	56110	56110
5°	153172	117853	51933	10425	3907
10°	219998	172903	37547	979	822
15°	283226	205667	19969	339	0
20°	381726	228838	7588	0	0
25°	431760	241733	1976	0	0
30°	479922	227880	179	0	0
35°	520251	181736	0	0	0
40°	504250	114097	0	0	0
45°	399730	54363	0	0	0
50°	261608	6805	0	0	0
55°	44949	0	0	0	0
60°	0	0	310	0	0
65°	0	367	367	0	0
70°	0	453	957	0	0
75°	0	599	1264	0	0
80°	0	893	1884	893	0
85°	0	1778	3754	1778	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 399730 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	3.7
10°-20°	149.4	14.2
20°-30°	279.7	26.7
30°-40°	326.5	31.1
40°-50°	212.9	20.3
50°-60°	39.5	3.8
60°-70°	0.4	0.0
70°-80°	0.8	0.1
80°-90°	0.9	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°	468.0	44.6
0°-40°	794.5	75.7
0°-60°	1047.0	99.8
0°-90°	1049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1049.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	326	326	326	326	326	
5°	886	682	300	60	23	95
15°	1588	1154	112	2	0	473
25°	2272	1272	10	0	0	1051
35°	2474	864	0	0	0	1518
45°	1641	223	0	0	0	1248
55°	150	0	0	0	0	260
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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8
2.5°	574.4	579.1	569.7	565.9	553.7	556.5	535.8	527.3	514.1	492.5	482.1
5°	886.0	877.6	870.0	854.0	844.6	819.2	790.9	758.9	720.3	681.7	637.5
7.5°	1108.3	1101.7	1098.8	1085.7	1066.8	1040.5	1003.7	963.3	913.3	861.6	794.7
10°	1258.0	1251.4	1240.1	1226.9	1211.8	1190.2	1154.4	1110.1	1055.5	988.7	910.5
12.5°	1355.9	1355.0	1336.1	1321.1	1302.2	1283.4	1246.7	1210.9	1157.2	1088.5	1000.0
15°	1588.5	1573.4	1548.9	1506.6	1453.8	1404.9	1345.5	1289.0	1230.7	1153.5	1054.6
17.5°	1878.5	1861.5	1820.1	1766.4	1681.7	1588.5	1486.8	1397.3	1309.8	1205.2	1088.5
20°	2082.8	2076.2	2041.4	1979.2	1888.8	1765.5	1631.8	1505.6	1382.3	1248.6	1104.5
22.5°	2213.7	2209.9	2195.8	2153.4	2061.1	1922.7	1750.4	1580.9	1432.2	1275.9	1099.8
25°	2272.1	2276.8	2278.7	2257.9	2183.6	2042.3	1838.0	1638.4	1460.4	1272.1	1064.0
27.5°	2313.5	2313.5	2321.0	2311.6	2236.3	2087.5	1871.9	1658.1	1451.0	1226.0	988.7
30°	2413.3	2411.4	2416.1	2390.7	2286.2	2101.6	1856.8	1626.1	1397.3	1145.9	880.4
32.5°	2456.6	2458.5	2457.6	2417.1	2295.6	2092.2	1820.1	1564.9	1298.5	1020.7	737.3
35°	2474.5	2466.0	2431.2	2338.9	2185.4	1967.0	1716.5	1461.4	1160.0	864.4	581.9
37.5°	2415.2	2390.7	2313.5	2187.3	1999.9	1790.0	1545.2	1275.9	976.4	677.9	437.8
40°	2242.9	2210.9	2113.9	1961.3	1790.0	1600.7	1342.7	1058.4	763.6	507.5	307.0
42.5°	1999.0	1962.3	1857.8	1725.0	1568.7	1370.0	1113.0	828.6	559.3	350.3	194.9
45°	1641.2	1620.5	1560.2	1448.2	1294.7	1088.5	853.1	604.5	387.0	223.2	99.8
47.5°	1269.3	1242.9	1199.6	1122.4	994.3	798.5	597.0	410.5	248.6	110.2	20.7
50°	976.4	945.4	892.6	806.9	673.2	532.9	387.0	256.1	126.2	25.4	0.9
52.5°	562.1	568.7	543.3	488.7	414.3	319.2	224.1	129.0	28.2	0.9	0.0
55°	149.7	162.0	158.2	170.4	149.7	126.2	93.2	24.5	1.9	0.0	0.0
57.5°	0.0	0.0	0.9	1.9	5.6	8.5	2.8	0.9	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	0.9	0.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.9	0.9	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8
2.5°	458.6	438.8	414.3	323.9	243.9	175.1	136.5	126.2
5°	595.1	547.1	484.9	300.4	150.7	60.3	27.3	22.6
7.5°	724.1	653.5	541.4	262.7	76.3	15.1	7.5	6.6
10°	823.9	728.8	582.8	214.7	28.2	5.6	4.7	4.7
12.5°	892.6	776.8	597.9	162.9	10.4	2.8	2.8	1.9
15°	932.2	795.6	583.8	112.0	3.8	1.9	0.0	0.0
17.5°	944.4	788.1	546.1	70.6	0.9	0.0	0.0	0.0
20°	934.1	751.4	486.8	41.4	0.0	0.0	0.0	0.0
22.5°	900.2	694.0	415.2	22.6	0.0	0.0	0.0	0.0
25°	837.1	613.0	331.4	10.4	0.0	0.0	0.0	0.0
27.5°	734.4	508.5	249.5	3.8	0.0	0.0	0.0	0.0
30°	617.7	396.4	177.0	0.9	0.0	0.0	0.0	0.0
32.5°	482.1	291.9	113.9	0.0	0.0	0.0	0.0	0.0
35°	362.5	204.3	67.8	0.0	0.0	0.0	0.0	0.0
37.5°	252.3	129.0	35.8	0.0	0.0	0.0	0.0	0.0
40°	157.2	69.7	12.2	0.0	0.0	0.0	0.0	0.0
42.5°	87.6	24.5	0.9	0.0	0.0	0.0	0.0	0.0
45°	20.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.9	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	0.9	0.0	0.0	0.0	0.0
60°	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0
62.5°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
65°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
67.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
70°	0.9	0.9	0.9	1.9	0.9	0.0	0.0	0.0
72.5°	0.9	0.9	1.9	1.9	0.9	0.0	0.0	0.0
75°	0.9	0.9	1.9	1.9	0.9	0.0	0.0	0.0
77.5°	0.9	1.9	1.9	1.9	0.9	0.9	0.0	0.0
80°	0.9	1.9	1.9	1.9	1.9	0.9	0.0	0.0
82.5°	0.9	1.9	1.9	1.9	1.9	0.9	0.0	0.0
85°	0.9	1.9	1.9	1.9	0.9	0.9	0.0	0.0
87.5°	0.9	1.9	1.9	1.9	1.9	0.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)