

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: P1316091

Luminaire Tested: P3SQAS09R309827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-50)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R309827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

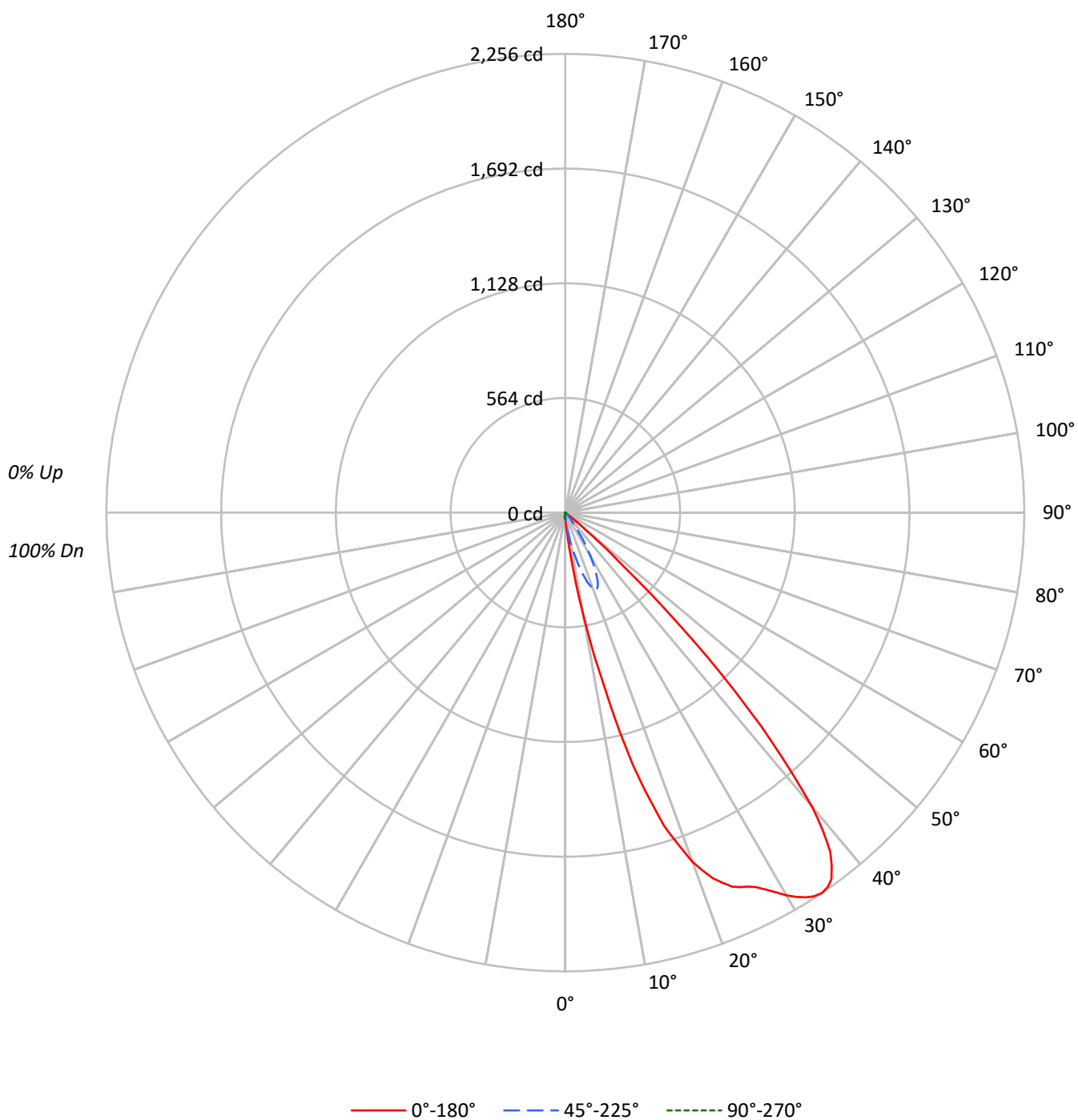
Lumens per Lamp: N/A
Luminaire Lumens: 543.0 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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
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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4994	4994	4994	4994	4994
5°	18152	11272	4581	1850	1314
10°	89836	27001	3568	350	0
15°	229149	51421	2264	0	0
20°	334808	73127	935	0	0
25°	386267	71754	190	0	0
30°	432314	49259	0	0	0
35°	472799	21214	0	0	0
40°	424349	8251	0	0	0
45°	216695	3361	0	0	0
50°	33438	402	0	0	0
55°	1982	0	150	0	0
60°	0	0	172	0	0
65°	0	0	408	0	0
70°	0	252	504	0	0
75°	0	333	998	0	0
80°	0	496	1488	0	0
85°	0	988	2964	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 216695 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	1.1
10°-20°	72.3	13.3
20°-30°	178.8	32.9
30°-40°	205.6	37.9
40°-50°	76.3	14.0
50°-60°	2.8	0.5
60°-70°	0.3	0.0
70°-80°	0.4	0.1
80°-90°	0.4	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°	257.2	47.4
0°-40°	462.8	85.2
0°-60°	541.9	99.8
0°-90°	543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	543.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	105	65	26	11	8	23
15°	1285	288	13	0	0	369
25°	2033	378	1	0	0	939
35°	2249	101	0	0	0	1363
45°	890	14	0	0	0	693
55°	7	0	0	0	0	23
65°	0	0	1	0	0	0
75°	0	0	2	0	0	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
2.5°	51.5	52.0	52.0	50.4	49.9	49.4	47.9	43.3	36.2	29.0	23.4
5°	105.0	105.5	105.5	102.4	96.3	90.2	85.1	65.2	41.8	26.5	17.3
7.5°	247.7	248.2	237.5	225.2	200.8	188.0	164.6	100.4	47.4	24.0	11.2
10°	513.7	502.4	474.4	438.7	401.0	352.1	302.7	154.4	51.5	20.4	7.1
12.5°	858.6	847.9	811.8	760.8	686.9	591.1	497.3	217.1	52.0	16.3	4.1
15°	1285.2	1255.1	1211.8	1127.2	1018.1	869.8	714.9	288.4	49.9	12.7	1.0
17.5°	1615.9	1588.3	1533.3	1434.5	1298.9	1134.3	944.2	356.2	44.3	8.2	0.0
20°	1826.8	1797.8	1746.3	1659.2	1515.0	1321.8	1104.3	399.0	36.7	5.1	0.0
21°	1887.0	1858.9	1808.5	1721.9	1578.2	1385.5	1143.5	408.2	33.1	4.1	0.0
22°	1940.0	1918.0	1871.2	1776.9	1630.6	1432.4	1183.2	409.2	30.6	3.1	0.0
23°	1977.2	1961.4	1914.5	1827.8	1682.1	1470.6	1204.6	403.1	27.5	2.0	0.0
24°	2012.8	1993.5	1953.2	1872.7	1722.9	1502.7	1224.0	391.9	24.5	1.5	0.0
25°	2032.7	2010.3	1979.2	1903.8	1756.5	1523.1	1235.7	377.6	21.4	1.0	0.0
26°	2046.5	2029.1	1995.0	1922.1	1770.8	1536.4	1237.3	356.7	19.4	0.5	0.0
27°	2067.3	2050.0	2016.9	1938.4	1776.9	1534.3	1228.1	332.8	16.8	0.0	0.0
28°	2098.9	2076.0	2042.9	1955.8	1779.4	1525.7	1207.7	306.8	14.3	0.0	0.0
29°	2135.1	2111.7	2075.5	1978.7	1779.9	1508.3	1175.6	278.2	12.7	0.0	0.0
30°	2173.9	2153.5	2116.8	2001.1	1785.6	1485.9	1138.4	247.7	10.2	0.0	0.0
31°	2204.4	2186.1	2146.8	2021.5	1790.1	1466.6	1092.5	217.1	8.7	0.0	0.0
32°	2230.9	2214.6	2166.2	2026.1	1781.0	1439.0	1043.6	187.5	7.1	0.0	0.0
33°	2249.3	2228.9	2172.3	2014.4	1754.5	1393.7	989.1	159.5	5.6	0.0	0.0
34°	2255.9	2231.4	2163.1	1983.8	1701.0	1324.9	918.3	130.5	4.6	0.0	0.0
35°	2248.8	2218.7	2130.0	1931.3	1628.6	1242.9	833.2	100.9	3.6	0.0	0.0
36°	2225.8	2187.6	2082.6	1856.4	1525.2	1146.0	748.1	78.5	2.5	0.0	0.0
37°	2176.4	2134.1	2001.6	1757.5	1422.7	1034.9	651.2	61.1	1.5	0.0	0.0
38°	2115.8	2054.6	1893.6	1632.7	1290.2	910.1	555.4	50.4	1.0	0.0	0.0
39°	2012.3	1945.1	1765.2	1489.0	1160.3	791.4	462.2	43.8	0.5	0.0	0.0
40°	1887.5	1807.5	1618.4	1335.1	1006.9	667.0	385.7	36.7	0.5	0.0	0.0
42.5°	1423.8	1356.0	1152.7	908.1	615.6	393.4	214.0	24.0	0.0	0.0	0.0
45°	889.7	818.9	681.3	497.9	333.3	203.8	102.9	13.8	0.0	0.0	0.0
47.5°	363.3	333.3	274.2	211.0	150.8	95.8	42.8	6.1	0.0	0.0	0.0
50°	124.8	111.1	93.3	68.3	48.4	33.1	22.4	1.5	0.0	0.0	0.0
52.5°	36.2	36.7	32.1	27.5	21.4	15.3	11.2	0.0	0.0	0.0	0.0
55°	6.6	5.6	6.6	6.1	6.6	5.6	4.1	0.0	0.0	0.5	0.0
57.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.0	0.5	0.5	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.0	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.0	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	0.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	0.5
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):

	135°	157.5°	180°
0°	29.0	29.0	29.0
2.5°	18.9	16.8	15.8
5°	10.7	8.2	7.6
7.5°	5.6	3.6	3.1
10°	2.0	0.5	0.0
12.5°	0.0	0.0	0.0
15°	0.0	0.0	0.0
17.5°	0.0	0.0	0.0
20°	0.0	0.0	0.0
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	0.0
39°	0.0	0.0	0.0
40°	0.0	0.0	0.0
42.5°	0.0	0.0	0.0
45°	0.0	0.0	0.0
47.5°	0.0	0.0	0.0
50°	0.0	0.0	0.0
52.5°	0.0	0.0	0.0
55°	0.0	0.0	0.0
57.5°	0.0	0.0	0.0
60°	0.0	0.0	0.0
62.5°	0.0	0.0	0.0
65°	0.0	0.0	0.0
67.5°	0.0	0.0	0.0
70°	0.0	0.0	0.0
72.5°	0.0	0.0	0.0
75°	0.0	0.0	0.0
77.5°	0.0	0.0	0.0
80°	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)