

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: P1315913

Luminaire Tested: P3SQAS05R209827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R209827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

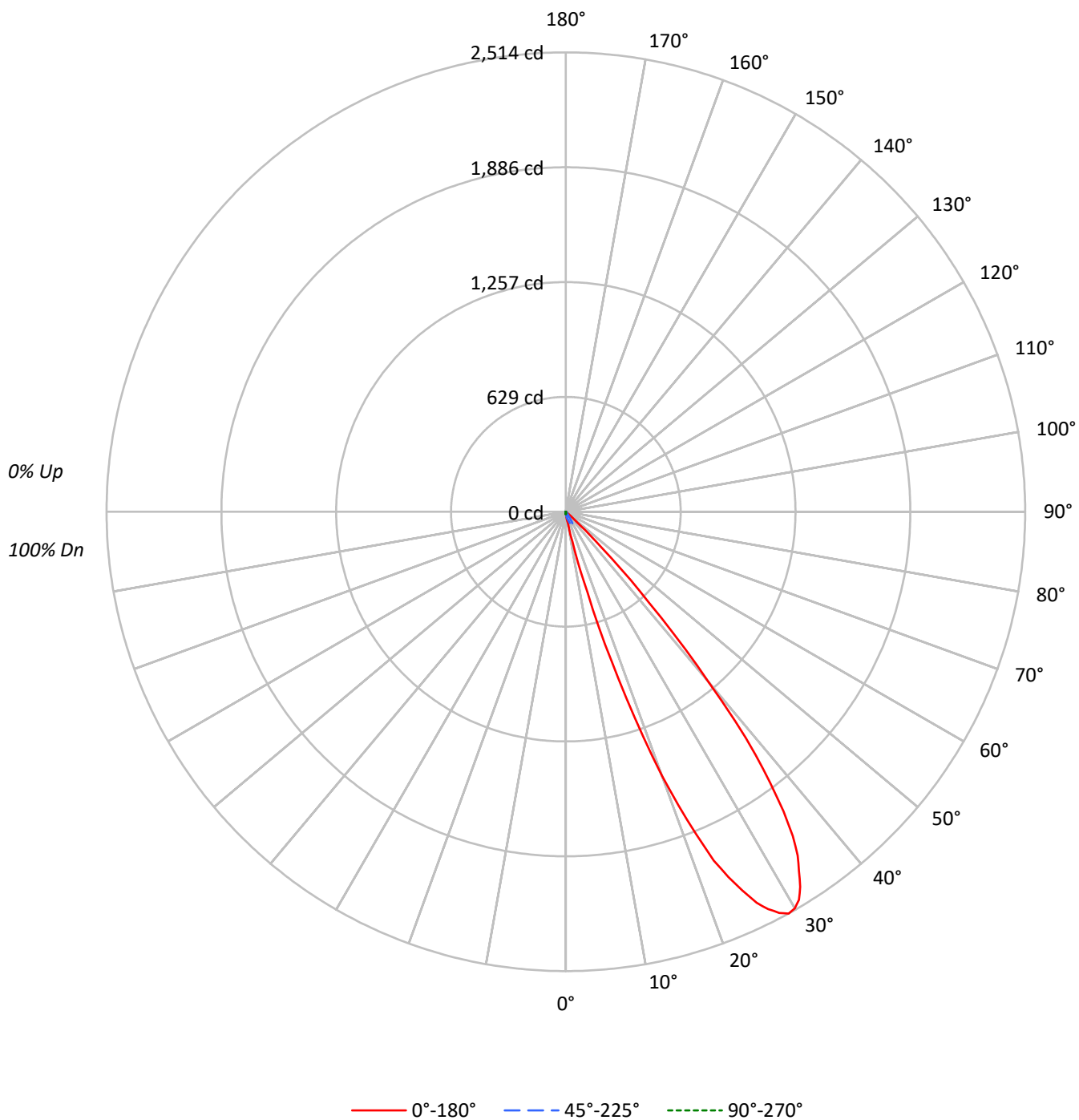
Lumens per Lamp: N/A
Luminaire Lumens: 347.0 lumens
Efficiency: N/A
Efficacy: 48.2 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	63	63	61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	57	57	55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	51	51	50
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	46	46	45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	42	42	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	38	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2136	2136	2136	2136	2136
5°	4650	3285	1971	899	657
10°	11595	5789	1382	175	0
15°	81536	7934	802	0	0
20°	281768	13342	312	0	0
25°	434325	17045	133	0	0
30°	498516	13185	0	0	0
35°	455286	5004	0	0	0
40°	272955	2338	0	0	0
45°	67076	1096	0	0	0
50°	7395	268	0	0	0
55°	1051	0	90	0	0
60°	0	0	241	0	0
65°	0	0	285	0	0
70°	0	151	504	0	0
75°	0	200	665	0	0
80°	0	298	992	0	0
85°	0	593	1976	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 71533 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.4
10°-20°	27.1	7.8
20°-30°	137.1	39.5
30°-40°	148.3	42.7
40°-50°	31.3	9.0
50°-60°	0.9	0.3
60°-70°	0.2	0.1
70°-80°	0.3	0.1
80°-90°	0.3	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°	165.6	47.7
0°-40°	313.9	90.5
0°-60°	346.2	99.8
0°-90°	347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	347.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	27	19	11	5	4	4
15°	457	44	4	0	0	191
25°	2286	90	1	0	0	1033
35°	2166	24	0	0	0	1277
45°	275	4	0	0	0	303
55°	4	0	0	0	0	6
65°	0	0	1	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
2.5°	16.9	16.6	16.9	16.6	16.9	16.9	16.9	16.6	16.6	16.6	16.6
5°	26.9	26.9	26.6	26.9	26.9	26.9	26.9	26.6	26.6	26.2	26.2
7.5°	42.4	42.4	42.1	42.1	42.4	42.8	41.4	42.1	42.1	42.1	41.8
10°	66.3	67.6	66.3	68.0	66.6	65.6	67.3	65.6	65.6	65.2	64.2
12.5°	167.0	163.2	160.8	155.0	160.8	156.3	157.4	156.3	152.9	148.4	145.6
15°	457.3	457.3	443.8	461.7	448.6	453.5	428.6	429.0	416.2	402.4	394.8
17.5°	955.9	964.6	955.6	950.1	938.3	921.4	914.5	896.9	873.8	846.9	843.8
20°	1537.4	1501.2	1518.1	1502.6	1492.9	1472.2	1449.1	1434.6	1414.2	1380.1	1329.7
21°	1720.3	1719.0	1718.6	1718.3	1704.1	1670.3	1649.3	1620.3	1591.6	1556.4	1514.3
22°	1904.6	1911.2	1913.9	1893.9	1864.9	1849.8	1835.3	1795.6	1750.4	1732.1	1682.0
23°	2073.7	2067.5	2049.6	2040.3	2017.8	2013.3	1970.2	1945.0	1900.8	1880.8	1821.5
24°	2189.0	2185.9	2177.6	2163.8	2145.9	2118.2	2092.4	2052.7	2016.4	1983.7	1928.4
25°	2285.6	2288.4	2273.2	2263.9	2244.6	2213.5	2181.7	2138.3	2104.4	2066.1	2002.3
26°	2381.2	2361.9	2349.8	2336.0	2315.0	2279.4	2248.7	2209.7	2168.6	2125.8	2063.4
27°	2440.2	2423.0	2404.7	2391.2	2367.1	2333.2	2300.5	2257.3	2211.4	2168.3	2104.1
28°	2486.8	2467.8	2449.9	2433.7	2406.1	2369.8	2330.5	2286.7	2239.0	2194.5	2128.9
29°	2514.4	2492.0	2472.7	2454.4	2429.2	2389.8	2350.2	2303.2	2257.3	2210.7	2143.8
30°	2506.8	2487.5	2468.9	2450.2	2424.7	2387.8	2348.4	2303.6	2257.3	2211.4	2143.4
31°	2477.2	2453.3	2439.9	2421.2	2399.2	2361.5	2327.7	2278.7	2237.0	2187.3	2119.3
32°	2420.2	2405.0	2387.1	2372.6	2351.2	2311.2	2278.0	2238.0	2188.6	2147.9	2076.5
33°	2342.9	2328.8	2319.8	2302.9	2282.2	2254.6	2214.9	2178.3	2122.7	2081.0	2009.5
34°	2269.1	2251.1	2228.7	2223.8	2205.9	2170.4	2134.5	2097.2	2047.5	1994.4	1922.2
35°	2165.5	2146.9	2126.2	2127.9	2106.5	2065.1	2028.5	1986.8	1939.5	1877.0	1808.7
36°	2027.1	2014.7	2011.6	2003.3	1978.8	1929.5	1894.6	1842.2	1802.5	1726.2	1667.5
37°	1858.4	1862.9	1840.4	1829.7	1801.1	1766.6	1746.9	1679.6	1633.4	1576.1	1496.7
38°	1687.9	1681.3	1654.8	1661.3	1622.0	1586.1	1530.5	1490.5	1438.7	1385.6	1322.1
39°	1475.0	1458.8	1427.0	1428.4	1398.7	1358.3	1304.5	1257.2	1226.2	1175.1	1114.3
40°	1214.1	1207.2	1196.1	1177.8	1138.8	1121.2	1073.3	1022.2	996.0	925.2	895.5
42.5°	673.6	664.3	645.7	639.1	618.4	597.7	569.8	535.6	519.0	498.0	451.1
45°	275.4	293.7	289.2	284.0	268.1	269.2	249.2	251.6	233.3	220.9	212.2
47.5°	60.7	65.9	66.3	63.8	66.3	64.2	63.2	61.4	61.8	62.8	60.4
50°	27.6	27.3	28.0	27.6	27.3	26.9	26.6	25.5	26.2	25.5	24.8
52.5°	10.7	11.0	11.0	10.4	10.7	10.7	10.7	10.4	10.4	10.4	10.4
55°	3.5	3.5	3.5	3.1	3.1	3.5	3.5	3.5	3.5	3.5	3.1
57.5°	0.3	0.7	0.3	0.7	0.3	0.3	0.3	0.3	0.3	0.7	0.7
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	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
2.5°	15.9	14.5	13.5	12.4	10.4	8.6	7.9	7.9
5°	24.5	19.0	14.1	11.4	7.9	5.2	4.1	3.8
7.5°	36.9	25.5	14.8	9.7	5.2	2.8	1.7	1.4
10°	53.5	33.1	15.5	7.9	3.1	1.0	0.0	0.0
12.5°	93.5	39.7	15.5	6.2	1.4	0.0	0.0	0.0
15°	214.3	44.5	14.8	4.5	0.3	0.0	0.0	0.0
17.5°	445.2	55.9	13.1	3.1	0.0	0.0	0.0	0.0
20°	710.9	72.8	10.4	1.7	0.0	0.0	0.0	0.0
21°	820.3	78.7	9.3	1.4	0.0	0.0	0.0	0.0
22°	899.0	84.2	8.3	1.0	0.0	0.0	0.0	0.0
23°	985.6	87.7	7.2	0.7	0.0	0.0	0.0	0.0
24°	1049.5	89.7	6.2	0.7	0.0	0.0	0.0	0.0
25°	1089.1	89.7	5.5	0.7	0.0	0.0	0.0	0.0
26°	1112.6	87.7	4.8	0.3	0.0	0.0	0.0	0.0
27°	1118.1	84.2	4.1	0.3	0.0	0.0	0.0	0.0
28°	1111.2	79.7	3.5	0.0	0.0	0.0	0.0	0.0
29°	1089.5	73.2	3.1	0.0	0.0	0.0	0.0	0.0
30°	1066.0	66.3	2.4	0.0	0.0	0.0	0.0	0.0
31°	1026.0	56.9	2.1	0.0	0.0	0.0	0.0	0.0
32°	979.7	47.3	1.7	0.0	0.0	0.0	0.0	0.0
33°	918.0	37.3	1.4	0.0	0.0	0.0	0.0	0.0
34°	826.9	29.3	1.4	0.0	0.0	0.0	0.0	0.0
35°	745.1	23.8	1.0	0.0	0.0	0.0	0.0	0.0
36°	638.1	19.0	1.0	0.0	0.0	0.0	0.0	0.0
37°	546.6	15.9	1.0	0.0	0.0	0.0	0.0	0.0
38°	457.6	13.5	0.7	0.0	0.0	0.0	0.0	0.0
39°	371.3	11.7	0.7	0.0	0.0	0.0	0.0	0.0
40°	296.1	10.4	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	159.8	6.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	88.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	39.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	13.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0
57.5°	0.7	0.0	0.0	0.3	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.3	0.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.3	0.7	0.3	0.0	0.0	0.0
65°	0.0	0.0	0.7	0.7	0.3	0.0	0.0	0.0
67.5°	0.0	0.3	0.7	1.0	0.3	0.0	0.0	0.0
70°	0.0	0.3	0.7	1.0	0.3	0.0	0.0	0.0
72.5°	0.0	0.3	0.7	1.0	0.3	0.0	0.0	0.0
75°	0.0	0.3	0.7	1.0	0.3	0.0	0.0	0.0
77.5°	0.0	0.3	0.7	1.0	0.3	0.0	0.0	0.0
80°	0.0	0.3	0.7	1.0	0.3	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.3	0.7	1.0	0.3	0.0	0.0	0.0
85°	0.0	0.3	0.7	1.0	0.3	0.0	0.0	0.0
87.5°	0.0	0.3	0.7	1.0	0.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)