

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: P1315008

Luminaire Tested: P3SQAS05R259740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-49)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R259740DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

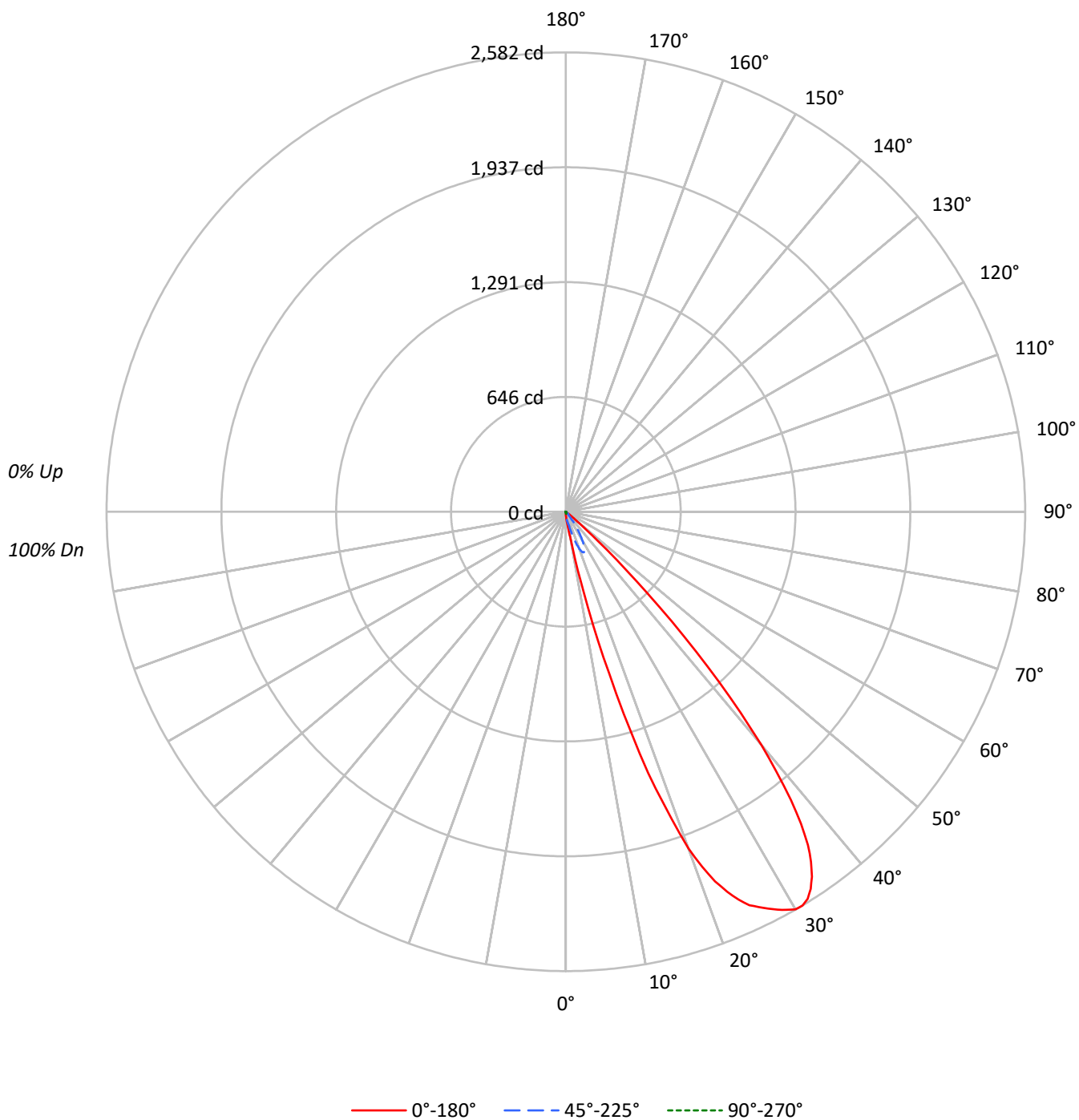
Lumens per Lamp: N/A
Luminaire Lumens: 506.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1315008

CATALOG NUMBER: P3SQAS05R259740DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1315008

CATALOG NUMBER: P3SQAS05R259740DE010 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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	70	59	52	47	69	58	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2756	2756	2756	2756	2756
5°	8627	6034	2507	1348	1003
10°	27211	10930	1871	175	0
15°	168242	20825	1123	0	0
20°	368879	40596	348	0	0
25°	463703	46690	0	0	0
30°	513312	36134	0	0	0
35°	505303	20478	0	0	0
40°	384084	5328	0	0	0
45°	155586	2363	0	0	0
50°	17282	268	0	0	0
55°	1321	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: 155586 cd/sqm

TEST NUMBER: P1315008

CATALOG NUMBER: P3SQAS05R259740DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.5
10°-20°	52.3	10.3
20°-30°	182.7	36.1
30°-40°	203.8	40.3
40°-50°	61.6	12.2
50°-60°	2.1	0.4
60°-70°	0.3	0.1
70°-80°	0.5	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°	237.5	46.9
0°-40°	441.3	87.2
0°-60°	504.9	99.8
0°-90°	506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	506.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	50	35	14	8	6	8
15°	944	117	6	0	0	314
25°	2440	246	0	0	0	1113
35°	2403	97	0	0	0	1443
45°	639	10	0	0	0	552
55°	4	0	0	0	0	14
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	

TEST NUMBER: P1315008

CATALOG NUMBER: P3SQAS05R259740DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
2.5°	27.6	28.6	28.1	28.6	28.1	28.1	28.1	28.6	28.1	28.1	28.1
5°	49.9	50.4	50.4	49.9	49.9	50.9	49.9	50.4	48.9	49.9	49.4
7.5°	81.9	80.9	80.9	81.4	81.4	80.5	80.0	79.0	80.0	80.0	78.5
10°	155.6	154.6	152.2	151.2	152.2	152.2	147.3	148.3	148.8	144.4	143.0
12.5°	457.0	453.6	460.4	449.8	443.5	433.3	439.1	419.2	414.9	412.0	405.2
15°	943.6	969.3	958.1	959.1	961.1	936.8	945.1	915.0	889.8	882.1	876.7
17.5°	1538.8	1546.5	1536.3	1531.5	1529.5	1517.9	1503.9	1488.8	1469.5	1452.5	1438.4
20°	2012.7	2006.9	1989.5	1991.4	1970.6	1959.9	1947.8	1932.8	1917.8	1893.0	1869.3
21°	2137.8	2120.8	2121.3	2109.7	2109.2	2095.6	2074.3	2058.8	2045.2	2017.1	2002.1
22°	2240.5	2236.6	2227.9	2219.2	2210.0	2203.2	2179.5	2171.7	2144.1	2120.8	2099.5
23°	2320.5	2321.9	2314.2	2308.4	2295.8	2292.9	2262.3	2251.7	2232.8	2197.4	2175.6
24°	2386.9	2384.5	2375.7	2365.6	2358.3	2351.5	2328.2	2310.8	2290.0	2260.9	2239.6
25°	2440.2	2434.4	2428.6	2420.8	2409.2	2401.4	2377.7	2358.3	2340.4	2307.9	2278.8
26°	2471.7	2473.2	2463.9	2458.1	2448.0	2440.2	2415.5	2392.7	2370.4	2335.5	2309.3
27°	2503.7	2502.2	2494.0	2485.3	2474.6	2471.7	2443.1	2419.4	2396.6	2359.7	2328.7
28°	2533.3	2529.4	2522.6	2512.4	2500.8	2492.1	2464.4	2439.7	2415.0	2375.7	2341.8
29°	2558.0	2554.1	2549.7	2536.6	2521.6	2515.8	2486.2	2456.2	2431.5	2391.3	2355.4
30°	2581.2	2574.0	2563.8	2552.6	2538.1	2527.0	2495.9	2469.8	2440.7	2396.1	2361.7
31°	2582.2	2572.5	2565.2	2553.6	2537.1	2523.6	2491.1	2464.4	2430.5	2388.8	2351.5
32°	2565.2	2560.4	2548.8	2536.2	2520.2	2506.6	2470.7	2442.6	2410.6	2366.0	2328.7
33°	2527.0	2522.1	2515.3	2502.2	2481.4	2468.8	2436.8	2405.8	2374.3	2334.1	2291.4
34°	2474.1	2468.3	2459.6	2446.5	2425.2	2412.1	2386.4	2354.4	2321.0	2279.3	2239.6
35°	2403.4	2392.2	2389.8	2370.4	2350.5	2347.1	2316.6	2283.2	2249.2	2203.2	2168.8
36°	2315.6	2302.6	2293.8	2287.1	2274.0	2258.0	2227.9	2201.3	2157.7	2128.1	2079.6
37°	2195.9	2179.9	2188.2	2169.8	2149.4	2142.6	2104.3	2080.1	2043.3	2003.0	1961.9
38°	2056.4	2054.9	2053.0	2044.7	2009.8	1991.9	1975.9	1950.2	1918.2	1869.8	1814.0
39°	1879.9	1882.9	1872.7	1873.6	1856.2	1838.3	1816.0	1786.9	1748.1	1704.0	1658.9
40°	1708.4	1667.2	1674.5	1649.7	1651.2	1624.5	1595.5	1569.8	1545.1	1506.3	1444.7
42.5°	1182.1	1175.8	1153.9	1138.4	1145.2	1110.8	1072.5	1036.7	1002.3	958.6	904.8
45°	638.8	624.2	628.6	603.4	603.4	587.9	577.2	547.2	515.2	495.3	464.3
47.5°	237.5	240.4	245.7	235.5	223.9	230.7	220.5	220.5	215.2	208.9	200.2
50°	64.5	65.4	64.5	64.5	63.0	62.0	60.1	59.6	59.1	57.7	55.2
52.5°	26.2	24.7	24.7	25.2	25.2	24.2	24.7	24.7	24.2	23.7	23.7
55°	4.4	4.8	4.8	4.8	4.8	4.4	4.4	4.8	5.3	4.8	4.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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



TEST NUMBER: P1315008

CATALOG NUMBER: P3SQAS05R259740DE010 E3SQCA301MMS

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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CATALOG NUMBER: P3SQAS05R259740DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
2.5°	27.1	23.7	19.9	16.5	13.1	11.1	10.2	10.7
5°	46.0	34.9	22.8	14.5	10.2	7.8	6.3	5.8
7.5°	70.8	48.0	25.7	12.6	7.8	3.9	2.4	1.9
10°	108.6	62.5	27.6	10.7	4.8	1.0	0.0	0.0
12.5°	278.7	76.6	28.1	8.7	1.9	0.0	0.0	0.0
15°	572.9	116.8	27.1	6.3	0.5	0.0	0.0	0.0
17.5°	952.3	178.8	23.7	4.4	0.0	0.0	0.0	0.0
20°	1321.1	221.5	18.9	1.9	0.0	0.0	0.0	0.0
21°	1432.1	234.1	17.0	1.5	0.0	0.0	0.0	0.0
22°	1522.8	243.3	15.0	1.0	0.0	0.0	0.0	0.0
23°	1598.4	248.1	13.1	0.5	0.0	0.0	0.0	0.0
24°	1651.2	249.1	12.1	0.5	0.0	0.0	0.0	0.0
25°	1676.4	245.7	10.7	0.0	0.0	0.0	0.0	0.0
26°	1686.1	238.9	9.7	0.0	0.0	0.0	0.0	0.0
27°	1678.8	230.2	8.7	0.0	0.0	0.0	0.0	0.0
28°	1665.7	217.1	7.3	0.0	0.0	0.0	0.0	0.0
29°	1640.0	199.7	6.3	0.0	0.0	0.0	0.0	0.0
30°	1615.3	181.7	5.3	0.0	0.0	0.0	0.0	0.0
31°	1587.2	165.7	4.4	0.0	0.0	0.0	0.0	0.0
32°	1552.8	147.3	3.4	0.0	0.0	0.0	0.0	0.0
33°	1495.6	130.4	2.4	0.0	0.0	0.0	0.0	0.0
34°	1415.7	114.4	1.9	0.0	0.0	0.0	0.0	0.0
35°	1308.5	97.4	1.5	0.0	0.0	0.0	0.0	0.0
36°	1191.3	79.5	1.0	0.0	0.0	0.0	0.0	0.0
37°	1047.8	57.7	1.0	0.0	0.0	0.0	0.0	0.0
38°	898.1	36.3	0.5	0.0	0.0	0.0	0.0	0.0
39°	744.9	27.6	0.5	0.0	0.0	0.0	0.0	0.0
40°	604.8	23.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	323.7	16.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	191.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	106.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	38.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5.3	0.0	0.0	0.5	0.0	0.0	0.0	0.0
57.5°	0.5	0.0	0.5	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	1.0	1.0	0.5	0.0	0.0	0.0
67.5°	0.0	0.5	1.0	1.0	0.5	0.0	0.0	0.0
70°	0.0	0.5	1.0	1.0	0.5	0.0	0.0	0.0
72.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
75°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
77.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
80°	0.0	0.5	1.0	1.5	0.5	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	0.5	1.0	1.5	0.5	0.0	0.0	0.0
85°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
87.5°	0.0	0.5	1.0	1.5	0.5	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)