

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: P1307239

Luminaire Tested: P3SQAS20R509027D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R509027D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

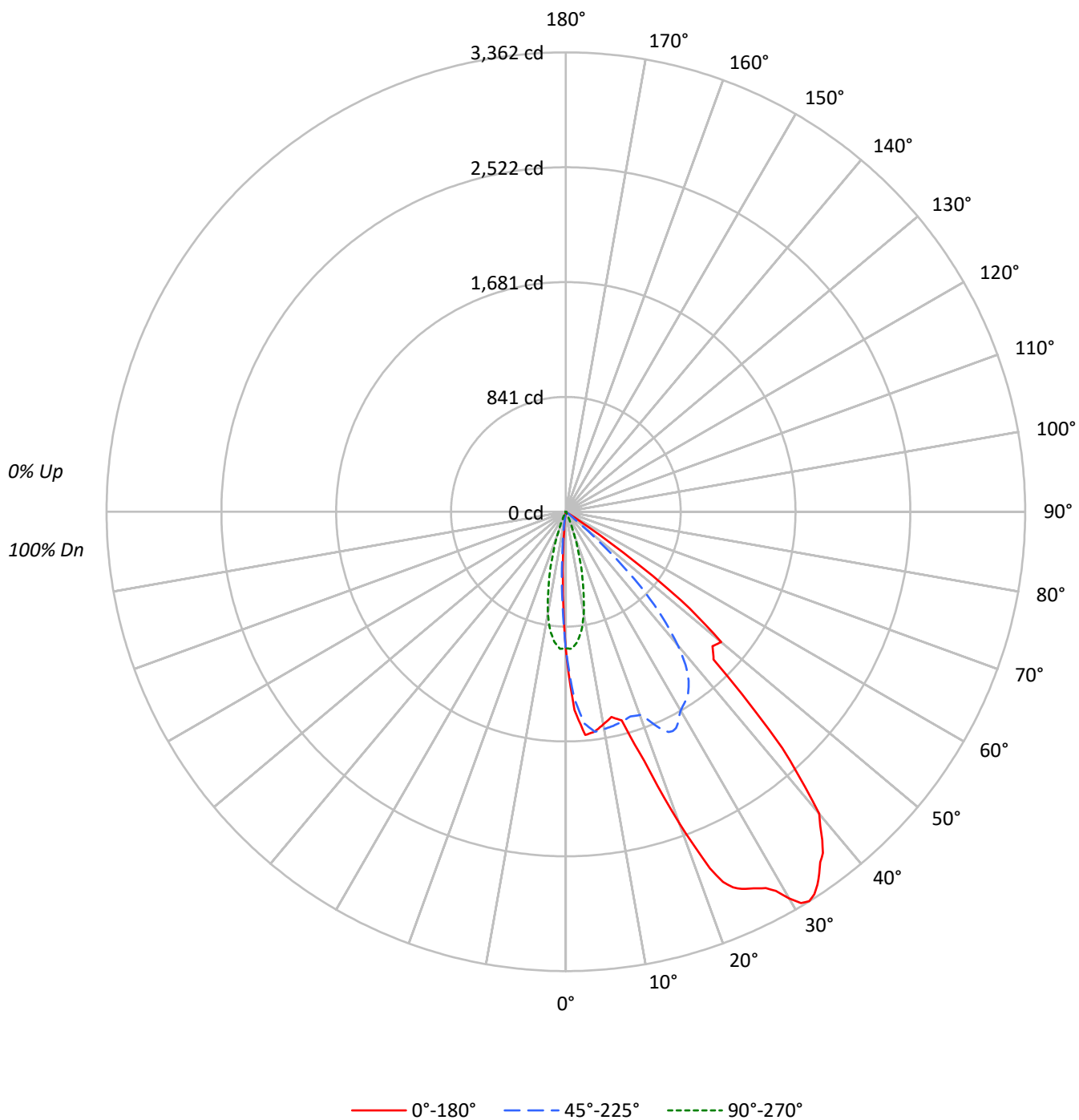
Lumens per Lamp: N/A
Luminaire Lumens: 1609.0 lumens
Efficiency: N/A
Efficacy: 55.9 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1307239

CATALOG NUMBER: P3SQAS20R509027D010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1307239

CATALOG NUMBER: P3SQAS20R509027D010 E3SQCA301MB

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	50	30	10
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	97	96	96	94	93	91		
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82		
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74		
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44		
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	172050	172050	172050	172050	172050
5°	283472	269019	165343	49115	24549
10°	276275	282343	132471	2483	3305
15°	281675	283351	79360	2532	838
20°	443985	290107	32678	0	0
25°	578802	337981	7791	0	0
30°	649674	334253	318	0	0
35°	679869	329160	0	0	0
40°	648585	285972	0	0	0
45°	372476	188734	0	0	0
50°	397475	21568	0	0	0
55°	113258	0	0	0	0
60°	0	0	551	0	0
65°	0	652	652	0	0
70°	0	806	806	0	0
75°	0	1065	1065	0	0
80°	0	1587	3174	1587	0
85°	0	3162	6323	3162	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 411299 cd/sqm

TEST NUMBER: P1307239

CATALOG NUMBER: P3SQAS20R509027D010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	5.2
10°-20°	211.4	13.1
20°-30°	406.0	25.2
30°-40°	472.6	29.4
40°-50°	338.2	21.0
50°-60°	94.1	5.9
60°-70°	0.6	0.0
70°-80°	1.0	0.1
80°-90°	1.2	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°	701.3	43.6
0°-40°	1173.9	73.0
0°-60°	1606.2	99.8
0°-90°	1609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1609.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	999	999	999	999	999	
5°	1640	1556	956	284	142	150
15°	1580	1589	445	14	5	510
25°	3046	1779	41	0	0	1385
35°	3234	1566	0	0	0	2001
45°	1529	775	0	0	0	1438
55°	377	0	0	0	0	475
65°	0	2	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	3	2	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1307239

CATALOG NUMBER: P3SQAS20R509027D010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0
2.5°	1451.9	1459.8	1461.4	1442.5	1445.6	1418.8	1420.4	1401.4	1355.7	1196.3	1003.7
5°	1639.7	1635.0	1639.7	1633.4	1639.7	1624.0	1614.5	1606.6	1556.1	1330.4	956.4
7.5°	1622.4	1616.1	1625.5	1628.7	1639.7	1635.0	1636.6	1641.3	1624.0	1403.0	875.9
10°	1579.8	1578.2	1582.9	1582.9	1595.6	1597.1	1603.4	1612.9	1614.5	1428.3	757.5
12.5°	1538.7	1534.0	1534.0	1532.4	1538.7	1537.2	1552.9	1575.0	1605.0	1412.5	595.0
15°	1579.8	1575.0	1568.7	1551.4	1538.7	1524.5	1526.1	1540.3	1589.2	1371.5	445.1
17.5°	1911.2	1885.9	1854.4	1799.1	1740.8	1639.7	1579.8	1541.9	1570.3	1308.3	296.7
20°	2422.5	2411.5	2361.0	2271.0	2176.3	2028.0	1843.3	1695.0	1582.9	1229.4	178.3
21°	2616.7	2610.3	2556.7	2473.0	2365.7	2185.8	1996.4	1818.1	1608.2	1196.3	140.5
22°	2815.5	2791.8	2749.2	2656.1	2544.1	2364.1	2152.7	1955.4	1658.7	1153.7	107.3
23°	2943.3	2929.1	2883.4	2809.2	2701.9	2526.7	2310.5	2095.8	1707.6	1106.3	80.5
24°	3009.6	3004.9	2968.6	2916.5	2825.0	2646.6	2441.5	2220.5	1748.6	1051.1	58.4
25°	3045.9	3030.1	3008.0	2970.2	2900.7	2746.1	2563.0	2329.4	1778.6	995.8	41.0
26°	3068.0	3058.5	3023.8	2990.7	2924.4	2798.1	2641.9	2395.7	1786.5	928.0	28.4
27°	3093.3	3071.2	3038.0	2998.6	2924.4	2813.9	2671.9	2424.1	1777.1	858.5	18.9
28°	3120.1	3104.3	3058.5	3008.0	2919.7	2813.9	2660.8	2386.2	1748.6	792.3	11.0
29°	3172.2	3151.7	3094.8	3020.7	2921.2	2810.8	2618.2	2307.3	1710.8	718.1	6.3
30°	3266.9	3224.3	3154.8	3050.7	2932.3	2804.5	2547.2	2189.0	1680.8	634.4	1.6
31°	3341.0	3317.4	3236.9	3105.9	2963.9	2787.1	2463.6	2072.2	1660.3	561.8	0.0
32°	3361.6	3344.2	3285.8	3162.7	3017.5	2772.9	2368.9	1958.5	1644.5	481.4	0.0
33°	3337.9	3326.8	3265.3	3153.2	3031.7	2754.0	2260.0	1846.5	1627.1	408.8	0.0
34°	3293.7	3279.5	3225.8	3112.2	2995.4	2671.9	2155.8	1761.3	1601.9	340.9	0.0
35°	3233.7	3222.7	3167.4	3055.4	2929.1	2544.1	2051.7	1704.5	1565.6	273.0	0.0
36°	3169.0	3165.9	3094.8	2984.4	2843.9	2421.0	1925.4	1661.8	1529.3	216.2	0.0
37°	3126.4	3110.6	3033.3	2924.4	2742.9	2277.3	1824.4	1647.6	1478.8	167.3	0.0
38°	3049.1	3052.2	2963.9	2864.4	2640.3	2152.7	1742.3	1636.6	1422.0	121.5	0.0
39°	2957.5	2959.1	2867.6	2782.4	2518.8	2021.7	1674.5	1625.5	1350.9	77.3	0.0
40°	2884.9	2883.4	2779.2	2687.7	2387.8	1898.6	1638.2	1609.8	1272.0	44.2	0.0
42.5°	2345.2	2354.7	2367.3	2405.2	2080.1	1682.4	1603.4	1521.4	1047.9	0.0	0.0
45°	1529.3	1565.6	1575.0	1688.7	1687.1	1594.0	1521.4	1363.6	774.9	0.0	0.0
47.5°	1455.1	1466.1	1486.7	1530.9	1554.5	1508.8	1360.4	1139.5	423.0	0.0	0.0
50°	1483.5	1481.9	1486.7	1486.7	1444.1	1325.7	1115.8	841.2	80.5	0.0	0.0
52.5°	1065.3	1104.7	1147.3	1166.3	1111.1	986.4	814.4	494.0	0.0	0.0	0.0
55°	377.2	364.6	355.1	388.2	380.3	427.7	353.5	115.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.6	6.3	14.2	18.9	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	1.6	1.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	3.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	3.2



TEST NUMBER: P1307239

CATALOG NUMBER: P3SQAS20R509027D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.2
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: P1307239

CATALOG NUMBER: P3SQAS20R509027D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	999.0	999.0	999.0	999.0
2.5°	800.1	613.9	497.1	505.0
5°	561.8	284.1	175.2	142.0
7.5°	336.2	86.8	17.4	14.2
10°	157.8	14.2	15.8	18.9
12.5°	47.3	12.6	17.4	15.8
15°	12.6	14.2	7.9	4.7
17.5°	4.7	6.3	0.0	0.0
20°	3.2	0.0	0.0	0.0
21°	3.2	0.0	0.0	0.0
22°	1.6	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.6	0.0	0.0	0.0
67.5°	1.6	0.0	0.0	0.0
70°	1.6	0.0	0.0	0.0
72.5°	1.6	0.0	0.0	0.0
75°	1.6	0.0	0.0	0.0
77.5°	1.6	0.0	0.0	0.0
80°	1.6	1.6	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.6	1.6	0.0	0.0
85°	1.6	1.6	0.0	0.0
87.5°	1.6	1.6	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)