

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: P1318332

Luminaire Tested: P3SQAS20R509835D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318332
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: P3SQAS20R509835D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

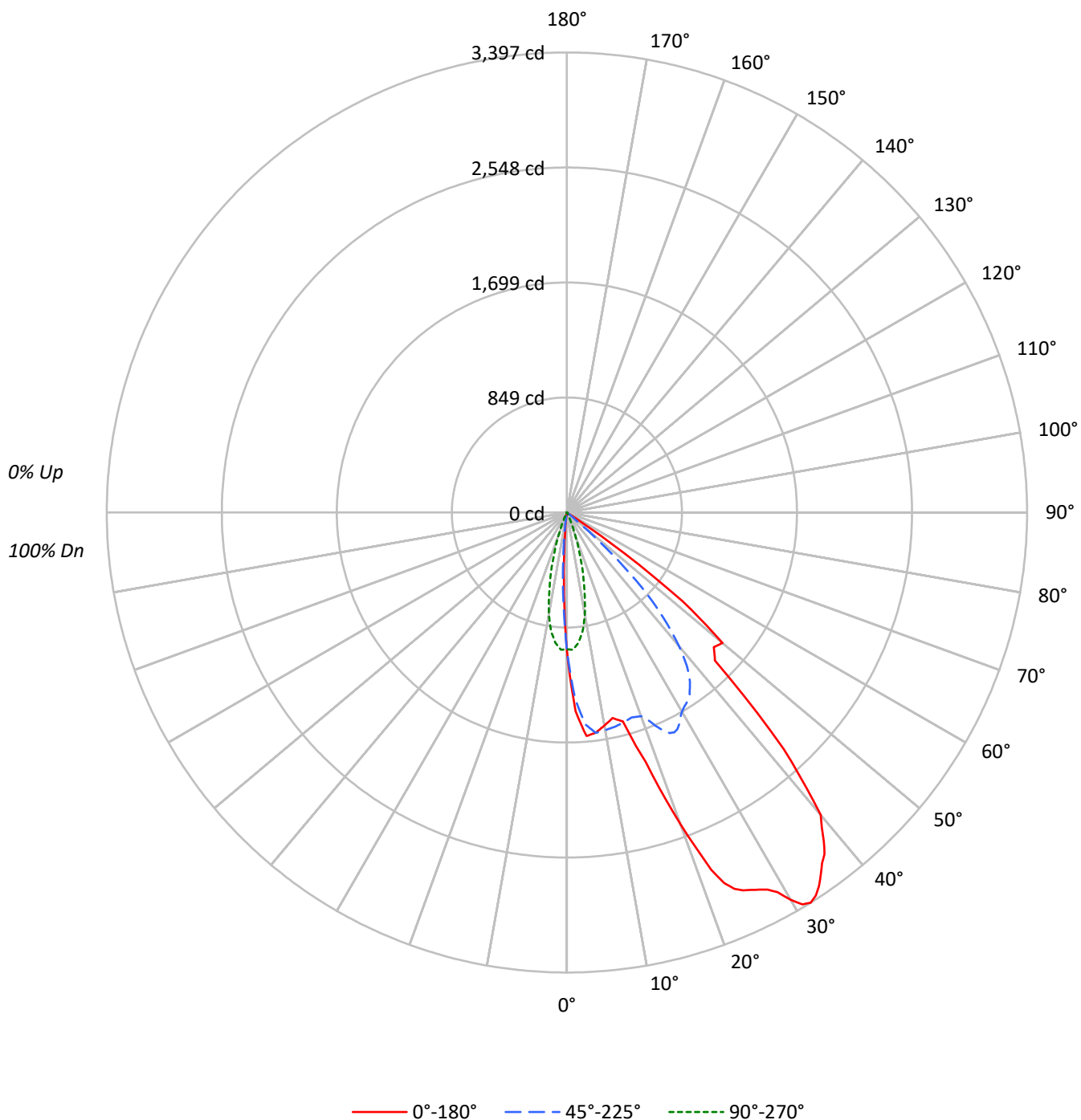
Lumens per Lamp: N/A
Luminaire Lumens: 1626.0 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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: P1318332

CATALOG NUMBER: P3SQAS20R509835D010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1318332

CATALOG NUMBER: P3SQAS20R509835D010 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	100	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°	173876	173876	173876	173876	173876
5°	286480	271855	167089	49634	24808
10°	279195	285333	133870	2518	3340
15°	284653	286347	80198	2567	856
20°	448677	293186	33026	0	0
25°	584921	341554	7886	0	0
30°	656535	337773	318	0	0
35°	687060	332629	0	0	0
40°	655442	289007	0	0	0
45°	376397	190732	0	0	0
50°	401682	21783	0	0	0
55°	114459	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: 415634 cd/sqm

TEST NUMBER: P1318332

CATALOG NUMBER: P3SQAS20R509835D010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	5.2
10°-20°	213.6	13.1
20°-30°	410.3	25.2
30°-40°	477.6	29.4
40°-50°	341.8	21.0
50°-60°	95.1	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°	708.7	43.6
0°-40°	1186.3	73.0
0°-60°	1623.2	99.8
0°-90°	1626.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1626.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1010	1010	1010	1010	1010	
5°	1657	1572	966	287	144	152
15°	1596	1606	450	14	5	515
25°	3078	1797	42	0	0	1400
35°	3268	1582	0	0	0	2022
45°	1545	783	0	0	0	1453
55°	381	0	0	0	0	480
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: P1318332

CATALOG NUMBER: P3SQAS20R509835D010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6
2.5°	1467.3	1475.3	1476.9	1457.7	1460.9	1433.8	1435.4	1416.2	1370.0	1208.9	1014.3
5°	1657.1	1652.3	1657.1	1650.7	1657.1	1641.1	1631.6	1623.6	1572.5	1344.5	966.5
7.5°	1639.5	1633.1	1642.7	1645.9	1657.1	1652.3	1653.9	1658.7	1641.1	1417.8	885.2
10°	1596.5	1594.9	1599.7	1599.7	1612.4	1614.0	1620.4	1630.0	1631.6	1443.4	765.5
12.5°	1555.0	1550.2	1550.2	1548.6	1555.0	1553.4	1569.4	1591.7	1622.0	1427.4	601.3
15°	1596.5	1591.7	1585.3	1567.8	1555.0	1540.6	1542.2	1556.6	1606.0	1385.9	449.8
17.5°	1931.4	1905.9	1874.0	1818.2	1759.1	1657.1	1596.5	1558.2	1586.9	1322.1	299.8
20°	2448.1	2437.0	2385.9	2295.0	2199.3	2049.4	1862.8	1712.9	1599.7	1242.4	180.2
21°	2644.3	2637.9	2583.7	2499.2	2390.7	2208.9	2017.5	1837.3	1625.2	1208.9	141.9
22°	2845.3	2821.3	2778.3	2684.2	2570.9	2389.1	2175.4	1976.0	1676.2	1165.9	108.5
23°	2974.4	2960.1	2913.8	2838.9	2730.4	2553.4	2334.9	2118.0	1725.7	1118.0	81.3
24°	3041.4	3036.6	3000.0	2947.3	2854.8	2674.6	2467.3	2244.0	1767.1	1062.2	59.0
25°	3078.1	3062.2	3039.8	3001.5	2931.4	2775.1	2590.1	2354.0	1797.4	1006.4	41.5
26°	3100.4	3090.9	3055.8	3022.3	2955.3	2827.7	2669.8	2421.0	1805.4	937.8	28.7
27°	3125.9	3103.6	3070.1	3030.3	2955.3	2843.7	2700.1	2449.7	1795.8	867.6	19.1
28°	3153.1	3137.1	3090.9	3039.8	2950.5	2843.7	2689.0	2411.4	1767.1	800.6	11.2
29°	3205.7	3185.0	3127.5	3052.6	2952.1	2840.5	2645.9	2331.7	1728.8	725.7	6.4
30°	3301.4	3258.3	3188.2	3082.9	2963.3	2834.1	2574.1	2212.1	1698.5	641.1	1.6
31°	3376.3	3352.4	3271.1	3138.7	2995.2	2816.5	2489.6	2094.1	1677.8	567.8	0.0
32°	3397.1	3379.5	3320.5	3196.1	3049.4	2802.2	2393.9	1979.2	1661.9	486.4	0.0
33°	3373.2	3362.0	3299.8	3186.6	3063.7	2783.1	2283.9	1866.0	1644.3	413.1	0.0
34°	3328.5	3314.1	3259.9	3145.1	3027.1	2700.1	2178.6	1779.9	1618.8	344.5	0.0
35°	3267.9	3256.7	3200.9	3087.7	2960.1	2570.9	2073.3	1722.5	1582.1	275.9	0.0
36°	3202.5	3199.3	3127.5	3015.9	2874.0	2446.5	1945.7	1679.4	1545.4	218.5	0.0
37°	3159.4	3143.5	3065.3	2955.3	2771.9	2301.4	1843.7	1665.0	1494.4	169.1	0.0
38°	3081.3	3084.5	2995.2	2894.7	2668.2	2175.4	1760.7	1653.9	1437.0	122.8	0.0
39°	2988.8	2990.4	2897.9	2811.8	2545.4	2043.0	1692.2	1642.7	1365.2	78.1	0.0
40°	2915.4	2913.8	2808.6	2716.1	2413.0	1918.6	1655.5	1626.8	1285.5	44.7	0.0
42.5°	2370.0	2379.5	2392.3	2430.6	2102.0	1700.1	1620.4	1537.5	1059.0	0.0	0.0
45°	1545.4	1582.1	1591.7	1706.5	1704.9	1610.8	1537.5	1378.0	783.1	0.0	0.0
47.5°	1470.5	1481.6	1502.4	1547.0	1570.9	1524.7	1374.8	1151.5	427.4	0.0	0.0
50°	1499.2	1497.6	1502.4	1502.4	1459.3	1339.7	1127.6	850.1	81.3	0.0	0.0
52.5°	1076.5	1116.4	1159.5	1178.6	1122.8	996.8	823.0	499.2	0.0	0.0	0.0
55°	381.2	368.4	358.8	392.3	384.4	432.2	357.3	116.4	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.6	6.4	14.4	19.1	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: P1318332

CATALOG NUMBER: P3SQAS20R509835D010 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: P1318332

CATALOG NUMBER: P3SQAS20R509835D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	1009.6	1009.6	1009.6	1009.6
2.5°	808.6	620.4	502.4	510.4
5°	567.8	287.1	177.0	143.5
7.5°	339.7	87.7	17.5	14.4
10°	159.5	14.4	15.9	19.1
12.5°	47.8	12.8	17.5	15.9
15°	12.8	14.4	8.0	4.8
17.5°	4.8	6.4	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



TEST NUMBER: P1318332

CATALOG NUMBER: P3SQAS20R509835D010 E3SQCA301MB

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)