

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: P1306269

Luminaire Tested: P3SQASS20R509024D010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

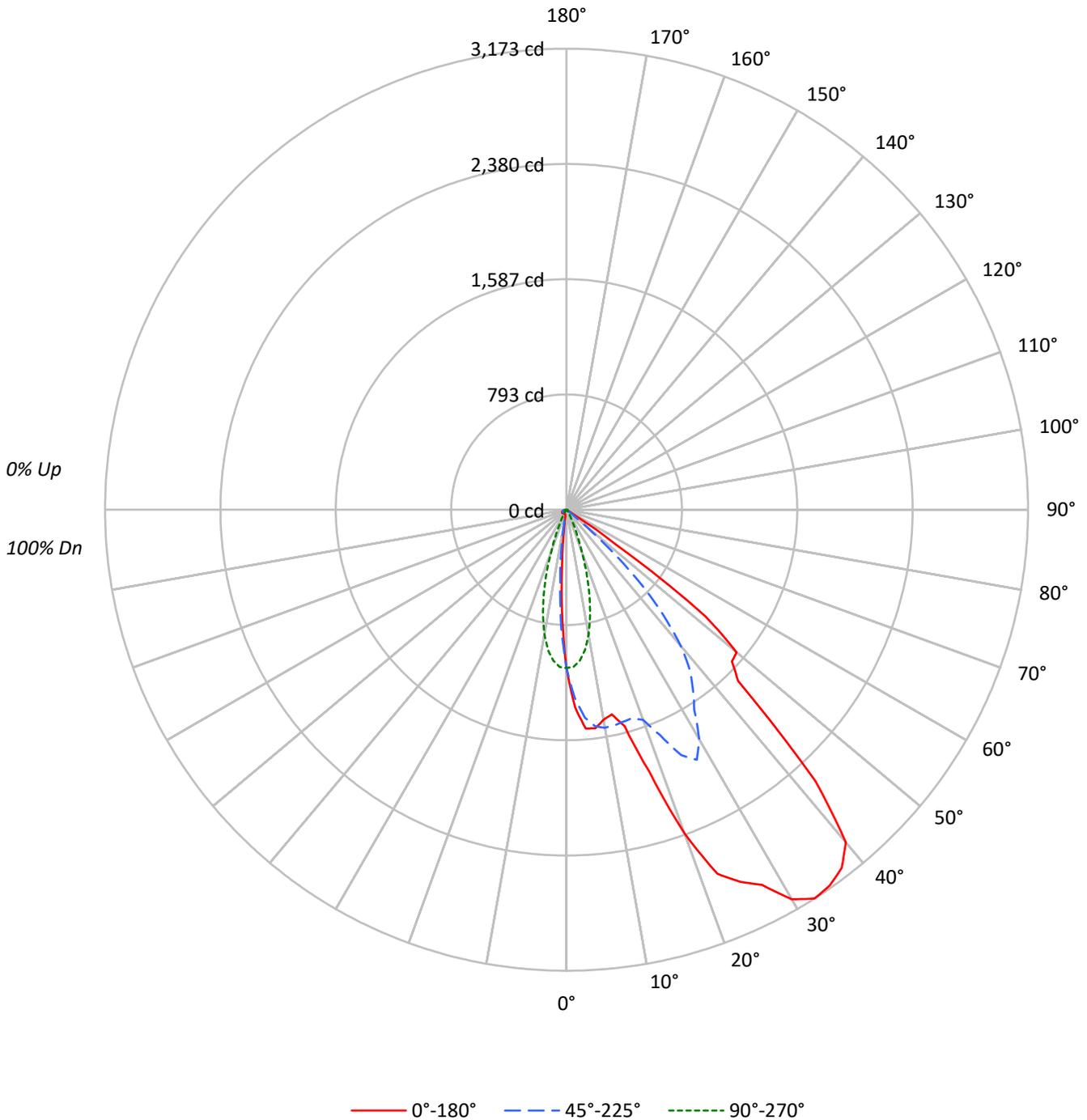
Test Method: LM-79-2019  
Report Number: P1306269  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQASS20R509024D010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1693.0 lumens  
Efficiency: N/A  
Efficacy: 58.8 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
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

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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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	95	94	92	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	187464	187464	187464	187464	187464
5°	261378	247980	180176	86613	56186
10°	256583	266481	152285	18257	7817
15°	275149	269301	107674	6383	6116
20°	434491	282006	56834	5462	5737
25°	536920	354172	22670	5093	5663
30°	615569	363228	9188	5031	5926
35°	663638	318816	4079	5319	6581
40°	671764	274551	3013	6025	7374
45°	406014	177945	2898	6527	8354
50°	409077	30758	3188	7582	9592
55°	120885	1802	3573	8497	10749
60°	2067	2067	3582	9231	11814
65°	1834	1834	3627	9740	12755
70°	2266	2266	3777	10524	14250
75°	1996	1996	3993	10913	14905
80°	1488	2975	4463	10315	16265
85°	2964	5928	5928	11856	14820

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 463762 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.0	5.2
10°-20°	218.5	12.9
20°-30°	409.4	24.2
30°-40°	489.5	28.9
40°-50°	350.8	20.7
50°-60°	108.1	6.4
60°-70°	14.1	0.8
70°-80°	10.3	0.6
80°-90°	4.2	0.2
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°	716.0	42.3
0°-40°	1205.5	71.2
0°-60°	1664.4	98.3
0°-90°	1693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1693.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1088	1088	1088	1088	1088	
5°	1512	1434	1042	501	325	140
15°	1543	1510	604	36	34	494
25°	2826	1864	119	27	30	1302
35°	3156	1516	19	25	31	1958
45°	1667	731	12	27	34	1531
55°	403	6	12	28	36	518
65°	4	4	9	24	31	5
75°	3	3	6	16	22	3
85°	2	3	3	6	8	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5
2.5°	1361.3	1364.3	1368.8	1356.8	1349.4	1343.4	1333.0	1330.0	1304.7	1294.2	1283.8
5°	1511.9	1508.9	1511.9	1507.4	1504.5	1495.5	1486.6	1471.7	1455.2	1434.4	1410.5
7.5°	1516.4	1513.4	1519.4	1519.4	1525.3	1525.3	1525.3	1526.8	1517.9	1503.0	1482.1
10°	1467.2	1467.2	1473.1	1470.2	1480.6	1485.1	1495.5	1513.4	1522.3	1523.8	1517.9
12.5°	1441.8	1441.8	1443.3	1437.4	1440.3	1444.8	1456.7	1477.6	1498.5	1519.4	1531.3
15°	1543.2	1546.2	1525.3	1495.5	1473.1	1449.3	1441.8	1455.2	1477.6	1510.4	1537.3
17.5°	1887.6	1892.1	1869.8	1798.2	1729.6	1631.2	1543.2	1500.0	1476.1	1503.0	1538.7
20°	2370.7	2354.3	2315.6	2239.5	2139.6	1987.5	1850.4	1711.7	1579.0	1538.7	1550.7
22.5°	2712.2	2706.2	2674.9	2589.9	2503.4	2361.8	2187.3	1993.5	1801.2	1678.9	1614.8
25°	2825.5	2821.0	2792.7	2742.0	2694.3	2586.9	2430.4	2235.1	2033.8	1863.8	1702.8
27.5°	2910.5	2904.5	2859.8	2803.1	2753.9	2645.1	2502.0	2354.3	2169.5	1939.8	1692.3
30°	3095.4	3079.0	3016.4	2915.0	2821.0	2670.4	2512.4	2329.0	2078.5	1826.5	1585.0
32.5°	3172.9	3164.0	3110.3	3028.3	2925.4	2728.6	2488.5	2181.4	1851.9	1634.2	1458.2
35°	3156.5	3143.1	3087.9	2994.0	2868.7	2679.4	2358.8	1936.9	1668.5	1516.4	1318.1
37.5°	3107.3	3087.9	3022.3	2912.0	2759.9	2512.4	2093.4	1738.5	1565.6	1394.1	1127.2
40°	2988.0	2956.7	2880.7	2765.9	2613.8	2288.7	1851.9	1619.3	1458.2	1221.2	914.0
42.5°	2531.8	2515.4	2552.7	2533.3	2399.1	2015.9	1680.4	1510.4	1288.3	987.1	662.0
45°	1667.0	1695.3	1762.4	1877.2	1904.1	1734.1	1540.2	1331.5	1060.1	730.6	381.7
47.5°	1543.2	1537.3	1553.7	1576.0	1580.5	1508.9	1333.0	1100.4	787.3	417.5	105.9
50°	1526.8	1517.9	1504.5	1477.6	1421.0	1282.3	1082.5	802.2	454.8	114.8	7.5
52.5°	1206.2	1197.3	1197.3	1158.5	1085.5	951.3	747.0	441.3	126.7	7.5	6.0
55°	402.6	429.4	424.9	423.5	456.3	420.5	322.1	113.3	10.4	6.0	6.0
57.5°	7.5	7.5	7.5	13.4	20.9	29.8	17.9	8.9	6.0	6.0	6.0
60°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
62.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.0
67.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
70°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	4.5
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5
77.5°	1.5	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	3.0
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5
2.5°	1259.9	1239.0	1198.8	1084.0	957.2	812.6	714.2	702.3
5°	1373.2	1341.9	1276.3	1042.2	753.0	501.0	372.8	325.0
7.5°	1447.8	1406.0	1325.5	973.6	548.7	263.9	141.6	113.3
10°	1492.5	1453.8	1350.9	870.8	348.9	104.4	47.7	44.7
12.5°	1516.4	1479.1	1359.8	747.0	196.8	47.7	37.3	37.3
15°	1532.8	1492.5	1346.4	603.9	98.4	35.8	34.3	34.3
17.5°	1540.2	1491.0	1307.6	454.8	52.2	32.8	32.8	32.8
20°	1544.7	1474.6	1236.1	310.1	35.8	29.8	31.3	31.3
22.5°	1549.2	1434.4	1142.1	196.8	28.3	28.3	29.8	29.8
25°	1540.2	1364.3	1009.4	119.3	25.3	26.8	28.3	29.8
27.5°	1476.1	1258.4	848.4	73.1	22.4	25.3	28.3	29.8
30°	1365.8	1103.4	662.0	46.2	20.9	25.3	28.3	29.8
32.5°	1222.6	925.9	472.7	28.3	20.9	25.3	28.3	29.8
35°	1030.3	708.2	307.2	19.4	20.9	25.3	29.8	31.3
37.5°	814.1	495.0	165.5	14.9	20.9	25.3	29.8	31.3
40°	586.0	296.7	59.6	13.4	19.4	26.8	31.3	32.8
42.5°	342.9	110.3	10.4	11.9	19.4	26.8	31.3	32.8
45°	98.4	11.9	6.0	11.9	19.4	26.8	32.8	34.3
47.5°	7.5	4.5	6.0	11.9	19.4	26.8	32.8	35.8
50°	4.5	4.5	4.5	11.9	19.4	28.3	34.3	35.8
52.5°	6.0	6.0	6.0	11.9	19.4	28.3	34.3	35.8
55°	6.0	6.0	6.0	11.9	19.4	28.3	34.3	35.8
57.5°	6.0	6.0	6.0	11.9	19.4	26.8	34.3	35.8
60°	6.0	6.0	6.0	10.4	17.9	26.8	32.8	34.3
62.5°	6.0	6.0	6.0	10.4	17.9	25.3	32.8	32.8
65°	6.0	6.0	6.0	8.9	16.4	23.9	29.8	31.3
67.5°	6.0	6.0	6.0	8.9	14.9	22.4	28.3	29.8
70°	4.5	6.0	6.0	7.5	13.4	20.9	26.8	28.3
72.5°	4.5	4.5	6.0	7.5	11.9	17.9	23.9	25.3
75°	4.5	4.5	4.5	6.0	10.4	16.4	20.9	22.4
77.5°	4.5	4.5	4.5	6.0	8.9	13.4	19.4	19.4
80°	3.0	4.5	4.5	4.5	7.5	10.4	14.9	16.4
82.5°	3.0	3.0	3.0	4.5	6.0	8.9	11.9	11.9
85°	3.0	3.0	3.0	3.0	4.5	6.0	7.5	7.5
87.5°	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)