

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: P1309477

Luminaire Tested: P3SQAS20R509035D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309477
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: P3SQAS20R509035D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

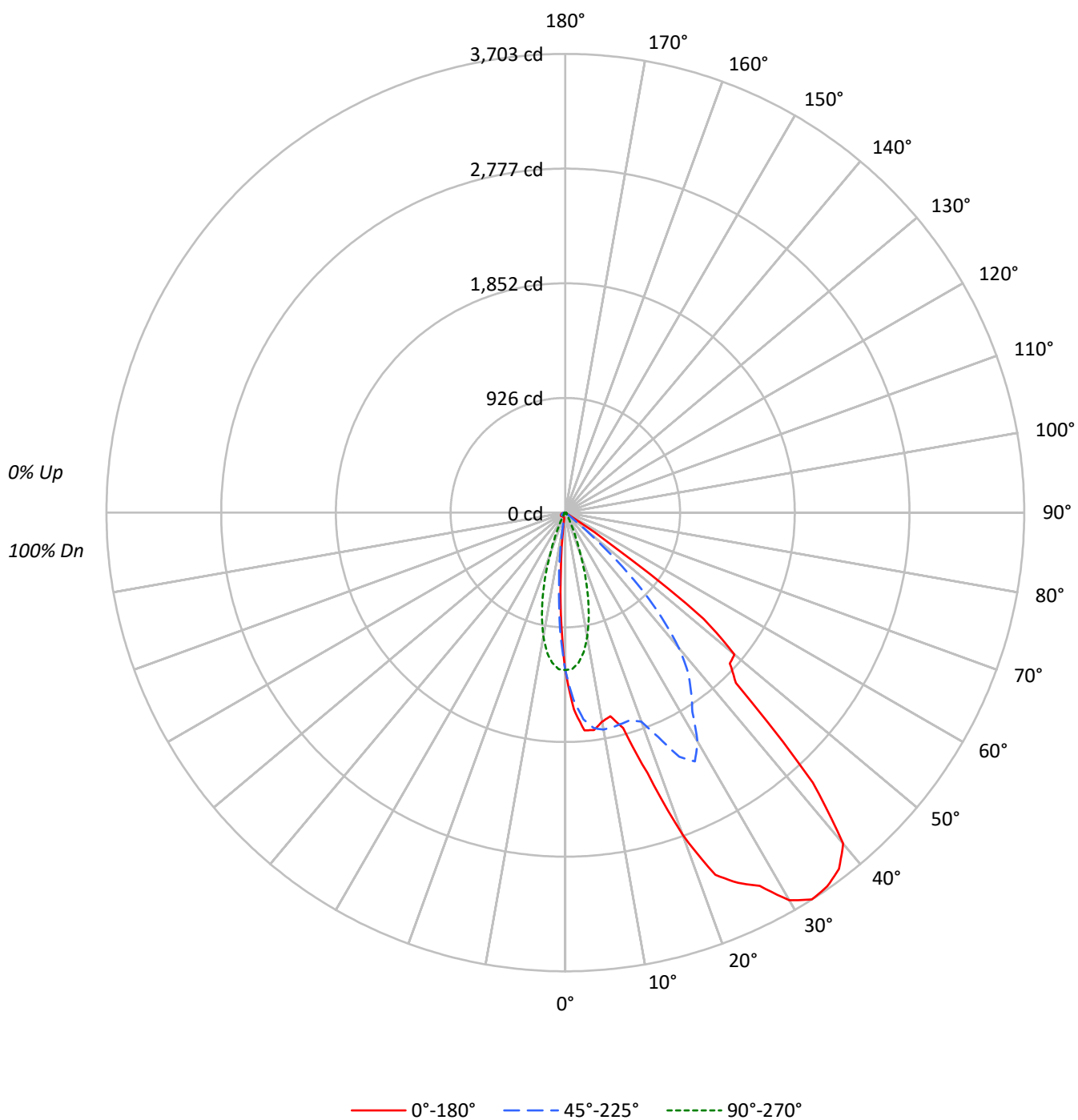
Lumens per Lamp: N/A
Luminaire Lumens: 1976.0 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	218792	218792	218792	218792	218792
5°	305065	289419	210309	101083	65591
10°	299464	311041	177730	21300	9129
15°	321150	314322	125664	7453	7132
20°	507123	329163	66346	6378	6690
25°	626670	413365	26452	5948	6613
30°	718462	423942	10719	5886	6921
35°	774585	372113	4752	6223	7674
40°	784062	320437	3530	7037	8611
45°	473870	207683	3385	7623	9742
50°	477453	35903	3724	8869	11200
55°	141093	2102	4174	9939	12551
60°	2411	2411	4202	10781	13778
65°	2119	2119	4238	11329	14874
70°	2618	2618	4381	12287	16667
75°	2329	2329	4658	12709	17367
80°	1686	3471	5157	12100	18943
85°	3359	6916	6916	13832	17191

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 541262 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	5.2
10°-20°	255.1	12.9
20°-30°	477.9	24.2
30°-40°	571.3	28.9
40°-50°	409.4	20.7
50°-60°	126.2	6.4
60°-70°	16.5	0.8
70°-80°	12.0	0.6
80°-90°	4.9	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°	835.7	42.3
0°-40°	1407.0	71.2
0°-60°	1942.6	98.3
0°-90°	1976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1976.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1270	1270	1270	1270	1270	
5°	1765	1674	1216	585	379	164
15°	1801	1763	705	42	40	577
25°	3298	2175	139	31	35	1520
35°	3684	1770	23	30	36	2286
45°	1946	853	14	31	40	1787
55°	470	7	14	33	42	605
65°	5	5	10	28	36	6
75°	4	4	7	19	26	3
85°	2	4	4	7	9	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°	1270.4	1270.4	1270.4	1270.4	1270.4	1270.4	1270.4	1270.4	1270.4	1270.4	1270.4
2.5°	1588.9	1592.4	1597.6	1583.6	1574.9	1568.0	1555.8	1552.3	1522.7	1510.6	1498.4
5°	1764.6	1761.2	1764.6	1759.4	1755.9	1745.5	1735.1	1717.7	1698.5	1674.1	1646.3
7.5°	1769.9	1766.4	1773.3	1773.3	1780.3	1780.3	1780.3	1782.0	1771.6	1754.2	1729.8
10°	1712.4	1712.4	1719.4	1715.9	1728.1	1733.3	1745.5	1766.4	1776.8	1778.6	1771.6
12.5°	1682.8	1682.8	1684.6	1677.6	1681.1	1686.3	1700.2	1724.6	1749.0	1773.3	1787.3
15°	1801.2	1804.7	1780.3	1745.5	1719.4	1691.5	1682.8	1698.5	1724.6	1762.9	1794.2
17.5°	2203.2	2208.4	2182.3	2098.8	2018.7	1903.9	1801.2	1750.7	1722.9	1754.2	1796.0
20°	2767.0	2747.9	2702.6	2613.9	2497.3	2319.8	2159.7	1997.8	1842.9	1796.0	1809.9
22.5°	3165.6	3158.6	3122.1	3022.9	2921.9	2756.6	2553.0	2326.7	2102.3	1959.5	1884.7
25°	3297.8	3292.6	3259.5	3200.4	3144.7	3019.4	2836.6	2608.7	2373.7	2175.3	1987.4
27.5°	3397.0	3390.1	3337.8	3271.7	3214.3	3087.2	2920.2	2747.9	2532.1	2264.1	1975.2
30°	3612.8	3593.7	3520.6	3402.2	3292.6	3116.8	2932.4	2718.3	2425.9	2131.8	1849.9
32.5°	3703.3	3692.9	3630.2	3534.5	3414.4	3184.7	2904.5	2546.0	2161.4	1907.3	1702.0
35°	3684.2	3668.5	3604.1	3494.5	3348.3	3127.3	2753.1	2260.6	1947.4	1769.9	1538.4
37.5°	3626.7	3604.1	3527.5	3398.8	3221.2	2932.4	2443.3	2029.2	1827.3	1627.2	1315.6
40°	3487.5	3451.0	3362.2	3228.2	3050.7	2671.3	2161.4	1889.9	1702.0	1425.3	1066.8
42.5°	2955.0	2935.8	2979.3	2956.7	2800.1	2352.8	1961.3	1762.9	1503.6	1152.1	772.7
45°	1945.6	1978.7	2057.0	2191.0	2222.3	2023.9	1797.7	1554.1	1237.3	852.7	445.5
47.5°	1801.2	1794.2	1813.4	1839.5	1844.7	1761.2	1555.8	1284.3	918.9	487.3	123.6
50°	1782.0	1771.6	1755.9	1724.6	1658.5	1496.6	1263.4	936.3	530.8	134.0	8.7
52.5°	1407.9	1397.4	1397.4	1352.2	1266.9	1110.3	871.9	515.1	147.9	8.7	7.0
55°	469.9	501.2	496.0	494.2	532.5	490.8	375.9	132.3	12.2	7.0	7.0
57.5°	8.7	8.7	8.7	15.7	24.4	34.8	20.9	10.4	7.0	7.0	7.0
60°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
62.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
65°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.0
67.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
70°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	5.2	5.2	5.2
75°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	5.2
77.5°	1.7	1.7	1.7	1.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	3.5	3.5
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	3.5
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7
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°	1270.4	1270.4	1270.4	1270.4	1270.4	1270.4	1270.4	1270.4
2.5°	1470.5	1446.2	1399.2	1265.2	1117.3	948.4	833.6	819.7
5°	1602.8	1566.2	1489.7	1216.5	878.8	584.7	435.1	379.4
7.5°	1689.8	1641.1	1547.1	1136.4	640.4	308.0	165.3	132.3
10°	1742.0	1696.8	1576.7	1016.3	407.2	121.8	55.7	52.2
12.5°	1769.9	1726.4	1587.1	871.9	229.7	55.7	43.5	43.5
15°	1789.0	1742.0	1571.5	704.8	114.9	41.8	40.0	40.0
17.5°	1797.7	1740.3	1526.2	530.8	60.9	38.3	38.3	38.3
20°	1802.9	1721.1	1442.7	362.0	41.8	34.8	36.5	36.5
22.5°	1808.1	1674.1	1333.0	229.7	33.1	33.1	34.8	34.8
25°	1797.7	1592.4	1178.2	139.2	29.6	31.3	33.1	34.8
27.5°	1722.9	1468.8	990.2	85.3	26.1	29.6	33.1	34.8
30°	1594.1	1287.8	772.7	53.9	24.4	29.6	33.1	34.8
32.5°	1427.0	1080.7	551.7	33.1	24.4	29.6	33.1	34.8
35°	1202.5	826.6	358.5	22.6	24.4	29.6	34.8	36.5
37.5°	950.2	577.8	193.2	17.4	24.4	29.6	34.8	36.5
40°	683.9	346.3	69.6	15.7	22.6	31.3	36.5	38.3
42.5°	400.3	128.8	12.2	13.9	22.6	31.3	36.5	38.3
45°	114.9	13.9	7.0	13.9	22.6	31.3	38.3	40.0
47.5°	8.7	5.2	7.0	13.9	22.6	31.3	38.3	41.8
50°	5.2	5.2	5.2	13.9	22.6	33.1	40.0	41.8
52.5°	7.0	7.0	7.0	13.9	22.6	33.1	40.0	41.8
55°	7.0	7.0	7.0	13.9	22.6	33.1	40.0	41.8
57.5°	7.0	7.0	7.0	13.9	22.6	31.3	40.0	41.8
60°	7.0	7.0	7.0	12.2	20.9	31.3	38.3	40.0
62.5°	7.0	7.0	7.0	12.2	20.9	29.6	38.3	38.3
65°	7.0	7.0	7.0	10.4	19.1	27.8	34.8	36.5
67.5°	7.0	7.0	7.0	10.4	17.4	26.1	33.1	34.8
70°	5.2	7.0	7.0	8.7	15.7	24.4	31.3	33.1
72.5°	5.2	5.2	7.0	8.7	13.9	20.9	27.8	29.6
75°	5.2	5.2	5.2	7.0	12.2	19.1	24.4	26.1
77.5°	5.2	5.2	5.2	7.0	10.4	15.7	22.6	22.6
80°	3.5	5.2	5.2	5.2	8.7	12.2	17.4	19.1
82.5°	3.5	3.5	3.5	5.2	7.0	10.4	13.9	13.9
85°	3.5	3.5	3.5	3.5	5.2	7.0	8.7	8.7
87.5°	1.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)