

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: P1308359

Luminaire Tested: P3SQAS20R509030D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308359
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: P3SQAS20R509030D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

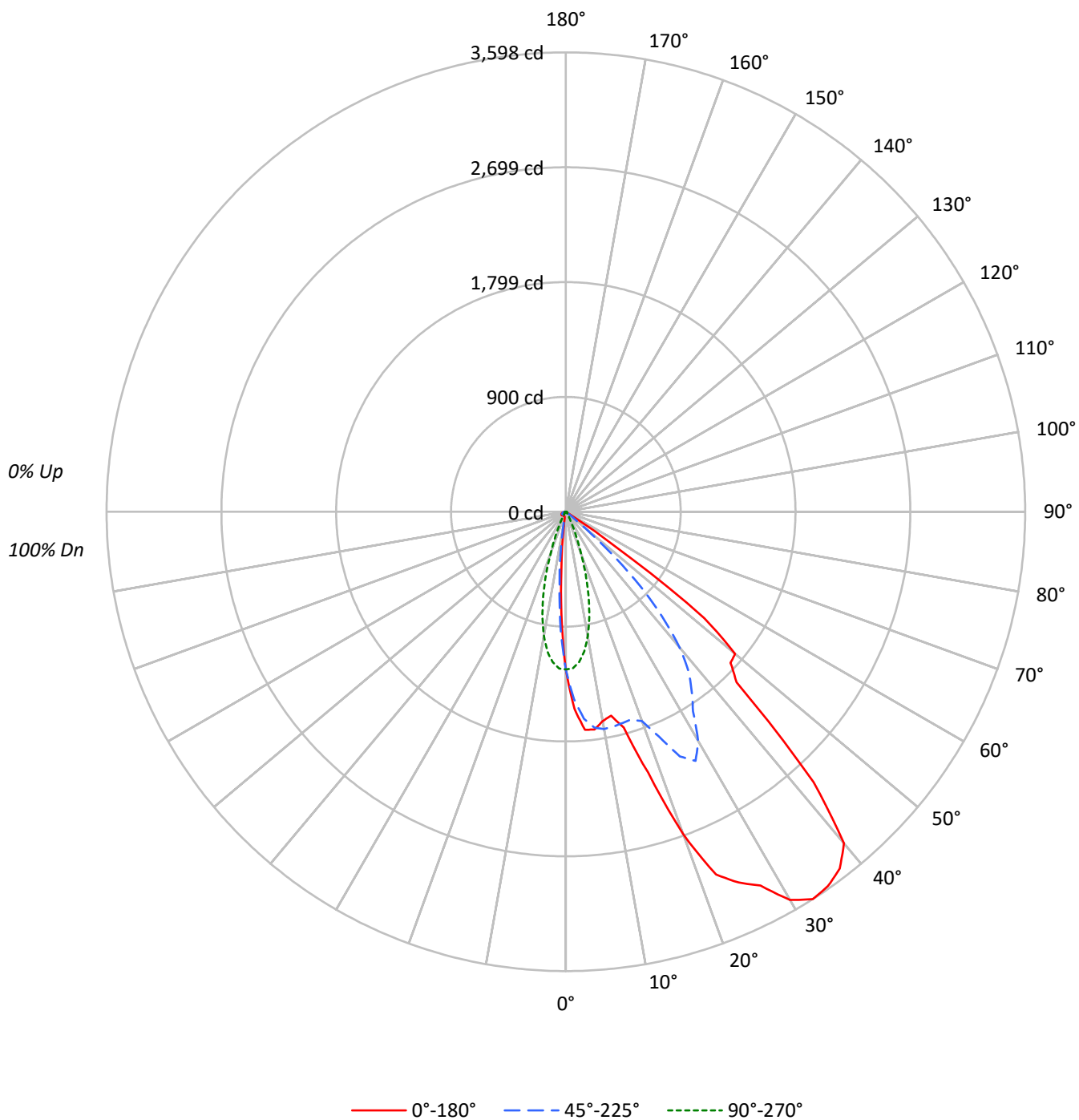
Lumens per Lamp: N/A
Luminaire Lumens: 1920.0 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	50	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	42	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°	212592	212592	212592	212592	212592
5°	296421	281225	204345	98231	63724
10°	290982	302227	172693	20706	8866
15°	312039	305407	122098	7239	6936
20°	492755	319834	64458	6195	6506
25°	608921	401659	25711	5777	6423
30°	698098	411930	10421	5707	6722
35°	752614	361558	4625	6034	7464
40°	761850	311354	3417	6835	8363
45°	460449	201813	3288	7404	9474
50°	463922	34885	3617	8601	10878
55°	137099	2042	4054	9638	12191
60°	2342	2342	4064	10471	13399
65°	2078	2078	4116	11044	14467
70°	2568	2568	4280	11934	16164
75°	2262	2262	4525	12377	16902
80°	1686	3372	5058	11703	18447
85°	3359	6719	6719	13437	16796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 525918 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	5.2
10°-20°	247.8	12.9
20°-30°	464.3	24.2
30°-40°	555.1	28.9
40°-50°	397.8	20.7
50°-60°	122.6	6.4
60°-70°	16.0	0.8
70°-80°	11.7	0.6
80°-90°	4.8	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°	812.0	42.3
0°-40°	1367.1	71.2
0°-60°	1887.6	98.3
0°-90°	1920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1920.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1234	1234	1234	1234	1234	
5°	1715	1627	1182	568	369	159
15°	1750	1713	685	41	39	561
25°	3204	2114	135	30	34	1476
35°	3580	1720	22	29	36	2221
45°	1890	829	14	30	39	1736
55°	457	7	14	32	41	588
65°	5	5	10	27	36	6
75°	3	3	7	19	25	3
85°	2	3	3	7	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°	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4
2.5°	1543.8	1547.2	1552.3	1538.8	1530.3	1523.5	1511.7	1508.3	1479.6	1467.7	1455.9
5°	1714.6	1711.2	1714.6	1709.6	1706.2	1696.0	1685.9	1669.0	1650.4	1626.7	1599.6
7.5°	1719.7	1716.3	1723.1	1723.1	1729.8	1729.8	1729.8	1731.5	1721.4	1704.5	1680.8
10°	1663.9	1663.9	1670.7	1667.3	1679.1	1684.2	1696.0	1716.3	1726.5	1728.2	1721.4
12.5°	1635.2	1635.2	1636.8	1630.1	1633.5	1638.5	1652.1	1675.7	1699.4	1723.1	1736.6
15°	1750.1	1753.5	1729.8	1696.0	1670.7	1643.6	1635.2	1650.4	1675.7	1712.9	1743.4
17.5°	2140.7	2145.8	2120.5	2039.3	1961.5	1849.9	1750.1	1701.1	1674.0	1704.5	1745.1
20°	2688.6	2670.0	2626.1	2539.8	2426.5	2254.0	2098.5	1941.2	1790.7	1745.1	1758.6
22.5°	3075.8	3069.1	3033.6	2937.2	2839.1	2678.5	2480.6	2260.8	2042.7	1904.0	1831.3
25°	3204.4	3199.3	3167.2	3109.7	3055.6	2933.8	2756.3	2534.7	2306.5	2113.7	1931.1
27.5°	3300.7	3294.0	3243.3	3179.0	3123.2	2999.8	2837.4	2670.0	2460.3	2199.9	1919.2
30°	3510.4	3491.8	3420.8	3305.8	3199.3	3028.5	2849.3	2641.3	2357.2	2071.4	1797.5
32.5°	3598.4	3588.2	3527.3	3434.3	3317.7	3094.4	2822.2	2473.9	2100.2	1853.3	1653.8
35°	3579.7	3564.5	3502.0	3395.4	3253.4	3038.6	2675.1	2196.5	1892.2	1719.7	1494.8
37.5°	3523.9	3502.0	3427.6	3302.4	3130.0	2849.3	2374.1	1971.7	1775.5	1581.0	1278.4
40°	3388.7	3353.2	3266.9	3136.7	2964.2	2595.6	2100.2	1836.4	1653.8	1384.9	1036.6
42.5°	2871.2	2852.6	2894.9	2872.9	2720.7	2286.2	1905.7	1712.9	1461.0	1119.4	750.8
45°	1890.5	1922.6	1998.7	2128.9	2159.3	1966.6	1746.8	1510.0	1202.3	828.6	432.9
47.5°	1750.1	1743.4	1762.0	1787.3	1792.4	1711.2	1511.7	1247.9	892.8	473.5	120.1
50°	1731.5	1721.4	1706.2	1675.7	1611.5	1454.2	1227.6	909.7	515.7	130.2	8.5
52.5°	1368.0	1357.8	1357.8	1313.9	1231.0	1078.8	847.2	500.5	143.7	8.5	6.8
55°	456.6	487.0	481.9	480.2	517.4	476.8	365.2	128.5	11.8	6.8	6.8
57.5°	8.5	8.5	8.5	15.2	23.7	33.8	20.3	10.1	6.8	6.8	6.8
60°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
62.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
65°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.8
67.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
70°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.1	5.1	5.1
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.1
77.5°	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4
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°	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4
2.5°	1428.9	1405.2	1359.5	1229.3	1085.6	921.6	810.0	796.4
5°	1557.4	1521.9	1447.5	1182.0	853.9	568.2	422.7	368.6
7.5°	1641.9	1594.6	1503.3	1104.2	622.3	299.3	160.6	128.5
10°	1692.6	1648.7	1532.0	987.5	395.7	118.4	54.1	50.7
12.5°	1719.7	1677.4	1542.2	847.2	223.2	54.1	42.3	42.3
15°	1738.3	1692.6	1526.9	684.8	111.6	40.6	38.9	38.9
17.5°	1746.8	1691.0	1483.0	515.7	59.2	37.2	37.2	37.2
20°	1751.8	1672.4	1401.8	351.7	40.6	33.8	35.5	35.5
22.5°	1756.9	1626.7	1295.3	223.2	32.1	32.1	33.8	33.8
25°	1746.8	1547.2	1144.8	135.3	28.7	30.4	32.1	33.8
27.5°	1674.0	1427.2	962.2	82.9	25.4	28.7	32.1	33.8
30°	1548.9	1251.3	750.8	52.4	23.7	28.7	32.1	33.8
32.5°	1386.6	1050.1	536.0	32.1	23.7	28.7	32.1	33.8
35°	1168.4	803.2	348.3	22.0	23.7	28.7	33.8	35.5
37.5°	923.3	561.4	187.7	16.9	23.7	28.7	33.8	35.5
40°	664.5	336.5	67.6	15.2	22.0	30.4	35.5	37.2
42.5°	388.9	125.1	11.8	13.5	22.0	30.4	35.5	37.2
45°	111.6	13.5	6.8	13.5	22.0	30.4	37.2	38.9
47.5°	8.5	5.1	6.8	13.5	22.0	30.4	37.2	40.6
50°	5.1	5.1	5.1	13.5	22.0	32.1	38.9	40.6
52.5°	6.8	6.8	6.8	13.5	22.0	32.1	38.9	40.6
55°	6.8	6.8	6.8	13.5	22.0	32.1	38.9	40.6
57.5°	6.8	6.8	6.8	13.5	22.0	30.4	38.9	40.6
60°	6.8	6.8	6.8	11.8	20.3	30.4	37.2	38.9
62.5°	6.8	6.8	6.8	11.8	20.3	28.7	37.2	37.2
65°	6.8	6.8	6.8	10.1	18.6	27.1	33.8	35.5
67.5°	6.8	6.8	6.8	10.1	16.9	25.4	32.1	33.8
70°	5.1	6.8	6.8	8.5	15.2	23.7	30.4	32.1
72.5°	5.1	5.1	6.8	8.5	13.5	20.3	27.1	28.7
75°	5.1	5.1	5.1	6.8	11.8	18.6	23.7	25.4
77.5°	5.1	5.1	5.1	6.8	10.1	15.2	22.0	22.0
80°	3.4	5.1	5.1	5.1	8.5	11.8	16.9	18.6
82.5°	3.4	3.4	3.4	5.1	6.8	10.1	13.5	13.5
85°	3.4	3.4	3.4	3.4	5.1	6.8	8.5	8.5
87.5°	1.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)