

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: P1307386

Luminaire Tested: P3SQAS24R509027D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307386
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: P3SQAS24R509027D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

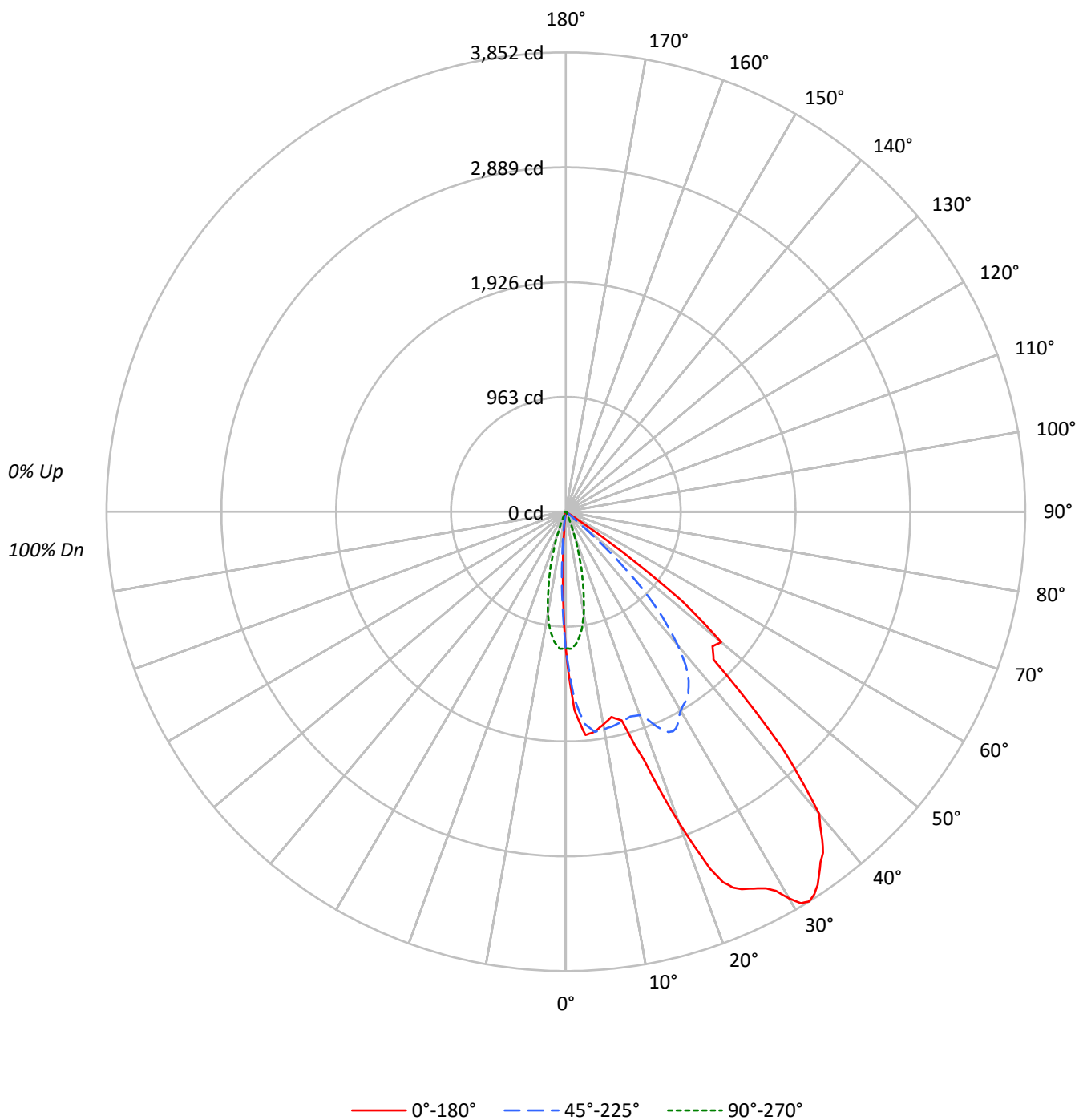
Lumens per Lamp: N/A
Luminaire Lumens: 1844.0 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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	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°	197178	197178	197178	197178	197178
5°	324877	308315	189494	56290	28145
10°	316619	323579	151830	2851	3795
15°	322809	324752	90950	2906	963
20°	508846	332480	37462	0	0
25°	663345	387350	8931	0	0
30°	744553	383075	358	0	0
35°	779168	377222	0	0	0
40°	743325	327744	0	0	0
45°	426863	216305	0	0	0
50°	455536	24703	0	0	0
55°	129803	0	0	0	0
60°	0	0	620	0	0
65°	0	734	734	0	0
70°	0	906	906	0	0
75°	0	1198	1198	0	0
80°	0	1785	3570	1785	0
85°	0	3557	7114	3557	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 471361 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	5.2
10°-20°	242.2	13.1
20°-30°	465.3	25.2
30°-40°	541.6	29.4
40°-50°	387.6	21.0
50°-60°	107.9	5.9
60°-70°	0.7	0.0
70°-80°	1.1	0.1
80°-90°	1.3	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°	803.7	43.6
0°-40°	1345.3	73.0
0°-60°	1840.8	99.8
0°-90°	1844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1844.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1145	1145	1145	1145	1145	
5°	1879	1783	1096	326	163	172
15°	1810	1821	510	16	5	584
25°	3491	2038	47	0	0	1588
35°	3706	1794	0	0	0	2293
45°	1753	888	0	0	0	1648
55°	432	0	0	0	0	544
65°	0	2	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	4	2	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1664.0	1673.0	1674.9	1653.2	1656.8	1626.0	1627.8	1606.1	1553.7	1371.0	1150.3
5°	1879.2	1873.8	1879.2	1872.0	1879.2	1861.2	1850.3	1841.3	1783.4	1524.7	1096.1
7.5°	1859.3	1852.1	1863.0	1866.6	1879.2	1873.8	1875.6	1881.0	1861.2	1607.9	1003.8
10°	1810.5	1808.7	1814.1	1814.1	1828.6	1830.4	1837.6	1848.5	1850.3	1636.9	868.2
12.5°	1763.5	1758.1	1758.1	1756.2	1763.5	1761.7	1779.8	1805.1	1839.4	1618.8	681.9
15°	1810.5	1805.1	1797.8	1778.0	1763.5	1747.2	1749.0	1765.3	1821.4	1571.8	510.1
17.5°	2190.3	2161.4	2125.2	2061.9	1995.0	1879.2	1810.5	1767.1	1799.7	1499.4	340.0
20°	2776.4	2763.7	2705.8	2602.7	2494.2	2324.2	2112.6	1942.5	1814.1	1409.0	204.4
21°	2998.8	2991.6	2930.1	2834.2	2711.2	2505.0	2288.0	2083.6	1843.1	1371.0	161.0
22°	3226.7	3199.6	3150.8	3044.0	2915.6	2709.4	2467.1	2241.0	1900.9	1322.2	123.0
23°	3373.2	3356.9	3304.5	3219.5	3096.5	2895.7	2647.9	2402.0	1957.0	1267.9	92.2
24°	3449.2	3443.8	3402.2	3342.5	3237.6	3033.2	2798.1	2544.8	2004.0	1204.6	66.9
25°	3490.8	3472.7	3447.4	3404.0	3324.4	3147.1	2937.3	2669.6	2038.4	1141.3	47.0
26°	3516.1	3505.3	3465.5	3427.5	3351.5	3206.8	3027.8	2745.6	2047.4	1063.5	32.6
27°	3545.1	3519.7	3481.7	3436.5	3351.5	3224.9	3062.1	2778.2	2036.6	983.9	21.7
28°	3575.8	3557.7	3505.3	3447.4	3346.1	3224.9	3049.5	2734.8	2004.0	908.0	12.7
29°	3635.5	3612.0	3546.9	3461.9	3347.9	3221.3	3000.6	2644.3	1960.6	823.0	7.2
30°	3744.0	3695.2	3615.6	3496.2	3360.6	3214.1	2919.2	2508.7	1926.3	727.1	1.8
31°	3829.0	3801.9	3709.6	3559.5	3396.7	3194.2	2823.4	2374.8	1902.8	643.9	0.0
32°	3852.5	3832.6	3765.7	3624.6	3458.2	3177.9	2714.9	2244.6	1884.7	551.7	0.0
33°	3825.4	3812.7	3742.2	3613.8	3474.5	3156.2	2590.1	2116.2	1864.8	468.5	0.0
34°	3774.8	3758.5	3697.0	3566.8	3432.9	3062.1	2470.7	2018.5	1835.8	390.7	0.0
35°	3706.0	3693.4	3630.1	3501.6	3356.9	2915.6	2351.3	1953.4	1794.2	312.9	0.0
36°	3631.9	3628.3	3546.9	3420.3	3259.3	2774.5	2206.6	1904.6	1752.6	247.8	0.0
37°	3583.0	3564.9	3476.3	3351.5	3143.5	2610.0	2090.9	1888.3	1694.8	191.7	0.0
38°	3494.4	3498.0	3396.7	3282.8	3026.0	2467.1	1996.8	1875.6	1629.6	139.3	0.0
39°	3389.5	3391.3	3286.4	3188.7	2886.7	2316.9	1919.0	1863.0	1548.2	88.6	0.0
40°	3306.3	3304.5	3185.1	3080.2	2736.6	2175.9	1877.4	1844.9	1457.8	50.6	0.0
42.5°	2687.7	2698.6	2713.0	2756.5	2383.9	1928.1	1837.6	1743.6	1201.0	0.0	0.0
45°	1752.6	1794.2	1805.1	1935.3	1933.5	1826.8	1743.6	1562.7	888.1	0.0	0.0
47.5°	1667.6	1680.3	1703.8	1754.4	1781.6	1729.1	1559.1	1305.9	484.7	0.0	0.0
50°	1700.2	1698.4	1703.8	1703.8	1655.0	1519.3	1278.8	964.0	92.2	0.0	0.0
52.5°	1220.9	1266.1	1314.9	1336.6	1273.3	1130.4	933.3	566.1	0.0	0.0	0.0
55°	432.3	417.8	407.0	444.9	435.9	490.2	405.1	132.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.8	7.2	16.3	21.7	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	1.8	1.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	3.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	3.6



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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	1.8	1.8	1.8	3.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	3.6
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):

	112.5°	135°	157.5°	180°
0°	1144.9	1144.9	1144.9	1144.9
2.5°	917.0	703.6	569.7	578.8
5°	643.9	325.6	200.8	162.8
7.5°	385.3	99.5	19.9	16.3
10°	180.9	16.3	18.1	21.7
12.5°	54.3	14.5	19.9	18.1
15°	14.5	16.3	9.0	5.4
17.5°	5.4	7.2	0.0	0.0
20°	3.6	0.0	0.0	0.0
21°	3.6	0.0	0.0	0.0
22°	1.8	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°	1.8	0.0	0.0	0.0
67.5°	1.8	0.0	0.0	0.0
70°	1.8	0.0	0.0	0.0
72.5°	1.8	0.0	0.0	0.0
75°	1.8	0.0	0.0	0.0
77.5°	1.8	0.0	0.0	0.0
80°	1.8	1.8	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.8	1.8	0.0	0.0
85°	1.8	1.8	0.0	0.0
87.5°	1.8	1.8	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)