

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: P1311671

Luminaire Tested: P3SQAS20R509050D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311671
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: P3SQAS20R509050D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

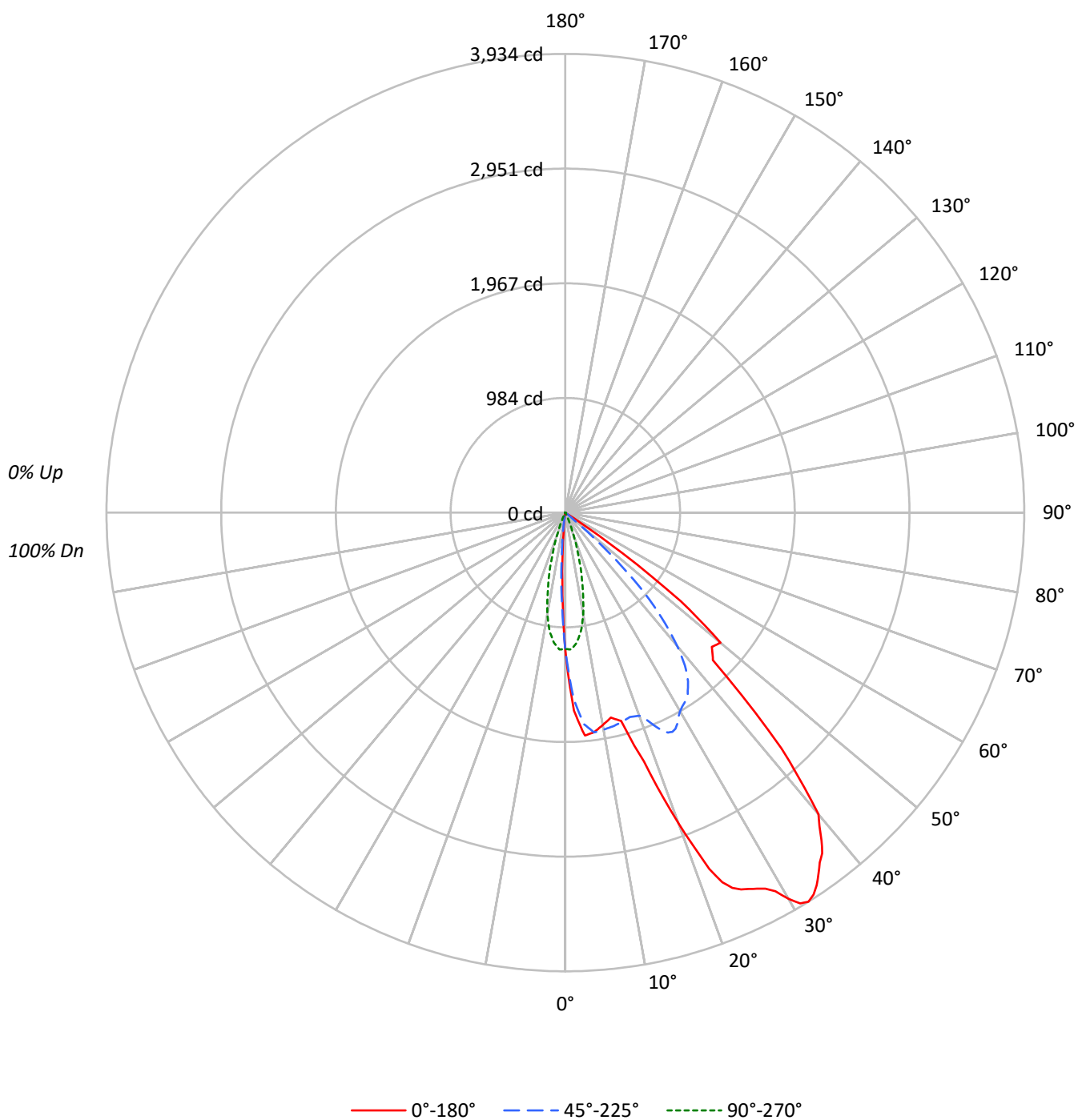
Lumens per Lamp: N/A
Luminaire Lumens: 1882.9 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	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	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°	201345	201345	201345	201345	201345
5°	331758	314833	193505	57483	28733
10°	323317	330417	155031	2903	3882
15°	329637	331616	92858	2960	981
20°	519604	339518	38250	0	0
25°	677369	395540	9121	0	0
30°	760303	391169	358	0	0
35°	795651	385211	0	0	0
40°	759040	334668	0	0	0
45°	435899	220884	0	0	0
50°	465155	25239	0	0	0
55°	132535	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	3670	1785	0
85°	0	3557	7311	3557	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 481322 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	5.2
10°-20°	247.4	13.1
20°-30°	475.2	25.2
30°-40°	553.1	29.4
40°-50°	395.8	21.0
50°-60°	110.2	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°	820.7	43.6
0°-40°	1373.8	73.0
0°-60°	1879.8	99.8
0°-90°	1882.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1882.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1169	1169	1169	1169	1169	
5°	1919	1821	1119	332	166	176
15°	1849	1860	521	17	6	597
25°	3565	2082	48	0	0	1621
35°	3784	1832	0	0	0	2342
45°	1790	907	0	0	0	1683
55°	441	0	0	0	0	556
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°	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1	1169.1
2.5°	1699.2	1708.4	1710.3	1688.1	1691.8	1660.4	1662.3	1640.1	1586.5	1400.0	1174.7
5°	1919.0	1913.4	1919.0	1911.6	1919.0	1900.5	1889.4	1880.2	1821.1	1557.0	1119.3
7.5°	1898.7	1891.3	1902.4	1906.1	1919.0	1913.4	1915.3	1920.8	1900.5	1641.9	1025.1
10°	1848.8	1847.0	1852.5	1852.5	1867.3	1869.1	1876.5	1887.6	1889.4	1671.5	886.5
12.5°	1800.8	1795.2	1795.2	1793.4	1800.8	1798.9	1817.4	1843.3	1878.4	1653.0	696.3
15°	1848.8	1843.3	1835.9	1815.6	1800.8	1784.2	1786.0	1802.6	1859.9	1605.0	520.8
17.5°	2236.7	2207.1	2170.2	2105.5	2037.2	1919.0	1848.8	1804.5	1837.7	1531.1	347.2
20°	2835.1	2822.1	2763.0	2657.8	2546.9	2373.3	2157.2	1983.6	1852.5	1438.8	208.7
21°	3062.2	3054.9	2992.1	2894.2	2768.6	2558.0	2336.4	2127.7	1882.0	1400.0	164.4
22°	3295.0	3267.3	3217.4	3108.4	2977.3	2766.7	2519.2	2288.4	1941.1	1350.1	125.6
23°	3444.6	3427.9	3374.4	3287.6	3162.0	2957.0	2703.9	2452.8	1998.4	1294.7	94.2
24°	3522.1	3516.6	3474.1	3413.2	3306.0	3097.3	2857.2	2598.7	2046.4	1230.1	68.3
25°	3564.6	3546.1	3520.3	3476.0	3394.7	3213.7	2999.5	2726.1	2081.5	1165.4	48.0
26°	3590.5	3579.4	3538.8	3500.0	3422.4	3274.6	3091.8	2803.7	2090.8	1086.0	33.2
27°	3620.0	3594.2	3555.4	3509.2	3422.4	3293.1	3126.9	2836.9	2079.7	1004.7	22.2
28°	3651.4	3633.0	3579.4	3520.3	3416.9	3293.1	3114.0	2792.6	2046.4	927.2	12.9
29°	3712.4	3688.4	3621.9	3535.1	3418.7	3289.4	3064.1	2700.2	2002.1	840.4	7.4
30°	3823.2	3773.3	3692.1	3570.2	3431.6	3282.0	2981.0	2561.7	1967.0	742.5	1.8
31°	3910.0	3882.3	3788.1	3634.8	3468.6	3261.7	2883.1	2425.0	1943.0	657.5	0.0
32°	3934.0	3913.7	3845.4	3701.3	3531.4	3245.1	2772.3	2292.1	1924.5	563.3	0.0
33°	3906.3	3893.4	3821.3	3690.2	3548.0	3222.9	2644.8	2160.9	1904.2	478.4	0.0
34°	3854.6	3838.0	3775.2	3642.2	3505.5	3126.9	2522.9	2061.2	1874.7	398.9	0.0
35°	3784.4	3771.5	3706.8	3575.7	3427.9	2977.3	2401.0	1994.7	1832.2	319.5	0.0
36°	3708.7	3705.0	3621.9	3492.6	3328.2	2833.2	2253.3	1944.8	1789.7	253.0	0.0
37°	3658.8	3640.3	3549.8	3422.4	3210.0	2665.2	2135.1	1928.2	1730.6	195.8	0.0
38°	3568.3	3572.0	3468.6	3352.2	3090.0	2519.2	2039.0	1915.3	1664.1	142.2	0.0
39°	3461.2	3463.0	3355.9	3256.2	2947.7	2365.9	1959.6	1902.4	1581.0	90.5	0.0
40°	3376.2	3374.4	3252.5	3145.4	2794.4	2221.9	1917.1	1883.9	1488.6	51.7	0.0
42.5°	2744.6	2755.7	2770.4	2814.8	2434.3	1968.9	1876.5	1780.5	1226.4	0.0	0.0
45°	1789.7	1832.2	1843.3	1976.2	1974.4	1865.4	1780.5	1595.8	906.9	0.0	0.0
47.5°	1702.9	1715.8	1739.8	1791.5	1819.2	1765.7	1592.1	1333.5	495.0	0.0	0.0
50°	1736.1	1734.3	1739.8	1739.8	1690.0	1551.4	1305.8	984.4	94.2	0.0	0.0
52.5°	1246.7	1292.9	1342.7	1364.9	1300.3	1154.3	953.0	578.1	0.0	0.0	0.0
55°	441.4	426.6	415.6	454.4	445.1	500.5	413.7	134.8	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.8	7.4	16.6	22.2	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	3.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	3.7



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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	3.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	3.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	3.7
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):

	112.5°	135°	157.5°	180°
0°	1169.1	1169.1	1169.1	1169.1
2.5°	936.4	718.5	581.8	591.0
5°	657.5	332.5	205.0	166.2
7.5°	393.4	101.6	20.3	16.6
10°	184.7	16.6	18.5	22.2
12.5°	55.4	14.8	20.3	18.5
15°	14.8	16.6	9.2	5.5
17.5°	5.5	7.4	0.0	0.0
20°	3.7	0.0	0.0	0.0
21°	3.7	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)