

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: P1314993

Luminaire Tested: P3SQAS05R209740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R209740DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

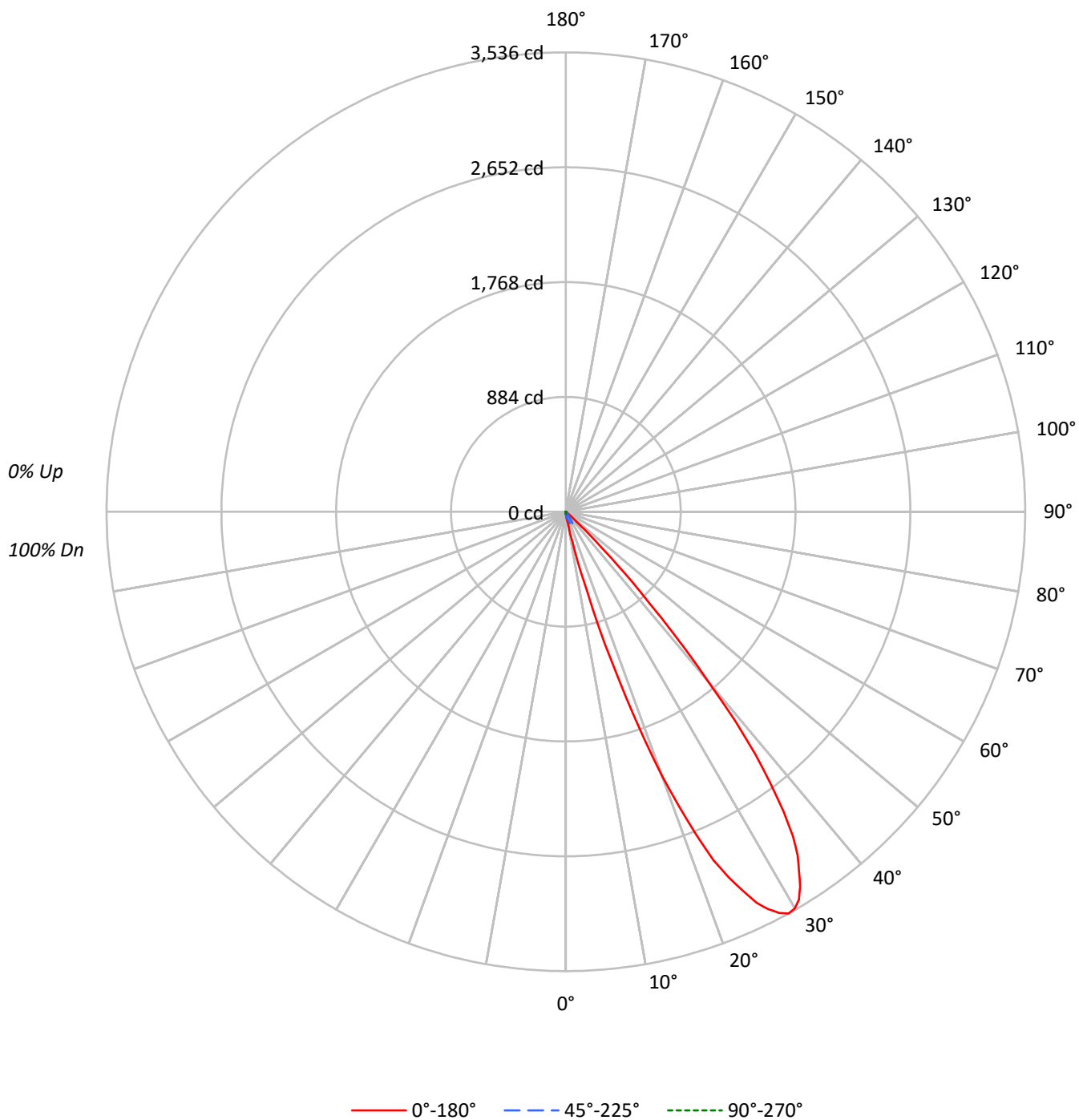
Lumens per Lamp: N/A
Luminaire Lumens: 488.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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				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	100			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3014	3014	3014	3014	3014
5°	6552	4616	2766	1262	916
10°	16299	8149	1959	262	0
15°	114663	11161	1123	0	0
20°	396278	18767	440	0	0
25°	610822	23981	190	0	0
30°	701101	18534	0	0	0
35°	640301	7043	0	0	0
40°	383859	3282	0	0	0
45°	94331	1534	0	0	0
50°	10396	402	0	0	0
55°	1471	0	150	0	0
60°	0	0	344	0	0
65°	0	0	408	0	0
70°	0	252	755	0	0
75°	0	333	998	0	0
80°	0	496	1488	0	0
85°	0	988	2964	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 100590 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.4
10°-20°	38.1	7.8
20°-30°	192.8	39.5
30°-40°	208.6	42.7
40°-50°	44.1	9.0
50°-60°	1.3	0.3
60°-70°	0.3	0.1
70°-80°	0.5	0.1
80°-90°	0.4	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°	232.9	47.7
0°-40°	441.5	90.5
0°-60°	486.8	99.8
0°-90°	488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	488.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	38	27	16	7	5	5
15°	643	63	6	0	0	268
25°	3214	126	1	0	0	1453
35°	3046	34	0	0	0	1796
45°	387	6	0	0	0	426
55°	5	0	0	0	0	9
65°	0	0	1	0	0	0
75°	0	0	2	0	0	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
2.5°	23.8	23.3	23.8	23.3	23.8	23.8	23.8	23.3	23.3	23.3	23.3
5°	37.9	37.9	37.4	37.9	37.9	37.9	37.9	37.4	37.4	36.9	36.9
7.5°	59.7	59.7	59.2	59.2	59.7	60.2	58.2	59.2	59.2	59.2	58.7
10°	93.2	95.1	93.2	95.6	93.7	92.2	94.6	92.2	92.2	91.7	90.3
12.5°	234.9	229.6	226.2	217.9	226.2	219.9	221.3	219.9	215.0	208.7	204.8
15°	643.1	643.1	624.1	649.4	630.9	637.7	602.8	603.3	585.3	565.9	555.2
17.5°	1344.4	1356.5	1343.9	1336.1	1319.6	1295.8	1286.1	1261.4	1228.9	1191.0	1186.6
20°	2162.2	2111.2	2135.0	2113.1	2099.6	2070.4	2037.9	2017.5	1988.9	1940.8	1870.0
21°	2419.4	2417.4	2417.0	2416.5	2396.6	2349.0	2319.4	2278.6	2238.4	2188.9	2129.6
22°	2678.6	2687.8	2691.7	2663.5	2622.7	2601.4	2581.0	2525.2	2461.6	2435.9	2365.5
23°	2916.4	2907.6	2882.4	2869.3	2837.7	2831.4	2770.8	2735.3	2673.2	2645.1	2561.6
24°	3078.5	3074.1	3062.5	3043.0	3017.8	2979.0	2942.6	2886.8	2835.8	2789.7	2712.0
25°	3214.4	3218.2	3196.9	3183.8	3156.6	3112.9	3068.3	3007.1	2959.6	2905.7	2815.9
26°	3348.8	3321.6	3304.6	3285.2	3255.6	3205.6	3162.4	3107.6	3049.8	2989.7	2901.8
27°	3431.8	3407.5	3381.8	3362.9	3328.9	3281.3	3235.2	3174.6	3110.0	3049.3	2959.1
28°	3497.3	3470.6	3445.4	3422.6	3383.7	3332.8	3277.5	3215.8	3148.8	3086.2	2994.0
29°	3536.1	3504.6	3477.4	3451.7	3416.3	3360.9	3305.1	3239.1	3174.6	3109.0	3014.9
30°	3525.5	3498.3	3472.1	3445.9	3410.0	3358.0	3302.7	3239.6	3174.6	3110.0	3014.4
31°	3483.7	3450.2	3431.3	3405.1	3374.0	3321.1	3273.6	3204.7	3145.9	3076.0	2980.4
32°	3403.6	3382.3	3357.0	3336.7	3306.6	3250.3	3203.7	3147.4	3078.0	3020.7	2920.2
33°	3294.9	3275.0	3262.4	3238.6	3209.5	3170.7	3114.9	3063.4	2985.3	2926.6	2826.1
34°	3191.1	3165.8	3134.3	3127.5	3102.2	3052.3	3001.8	2949.4	2879.5	2804.7	2703.3
35°	3045.5	3019.3	2990.1	2992.6	2962.5	2904.2	2852.8	2794.1	2727.6	2639.7	2543.6
36°	2850.8	2833.4	2829.0	2817.4	2782.9	2713.5	2664.5	2590.7	2534.9	2427.6	2345.1
37°	2613.5	2619.8	2588.3	2573.2	2533.0	2484.4	2456.8	2362.1	2297.1	2216.5	2104.9
38°	2373.8	2364.5	2327.2	2336.4	2281.1	2230.6	2152.5	2096.2	2023.4	1948.6	1859.3
39°	2074.3	2051.5	2006.9	2008.8	1967.1	1910.3	1834.6	1768.1	1724.4	1652.6	1567.1
40°	1707.4	1697.7	1682.2	1656.4	1601.6	1576.8	1509.4	1437.6	1400.7	1301.2	1259.4
42.5°	947.4	934.3	908.1	898.8	869.7	840.6	801.3	753.2	729.9	700.3	634.3
45°	387.3	413.0	406.7	399.4	377.1	378.6	350.4	353.8	328.1	310.6	298.5
47.5°	85.4	92.7	93.2	89.8	93.2	90.3	88.8	86.4	86.9	88.3	84.9
50°	38.8	38.3	39.3	38.8	38.3	37.9	37.4	35.9	36.9	35.9	34.9
52.5°	15.0	15.5	15.5	14.6	15.0	15.0	15.0	14.6	14.6	14.6	14.6
55°	4.9	4.9	4.9	4.4	4.4	4.9	4.9	4.9	4.9	4.9	4.4
57.5°	0.5	1.0	0.5	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
2.5°	22.3	20.4	18.9	17.5	14.6	12.1	11.2	11.2
5°	34.5	26.7	19.9	16.0	11.2	7.3	5.8	5.3
7.5°	51.9	35.9	20.9	13.6	7.3	3.9	2.4	1.9
10°	75.2	46.6	21.8	11.2	4.4	1.5	0.0	0.0
12.5°	131.5	55.8	21.8	8.7	1.9	0.0	0.0	0.0
15°	301.4	62.6	20.9	6.3	0.5	0.0	0.0	0.0
17.5°	626.1	78.6	18.4	4.4	0.0	0.0	0.0	0.0
20°	999.8	102.4	14.6	2.4	0.0	0.0	0.0	0.0
21°	1153.6	110.7	13.1	1.9	0.0	0.0	0.0	0.0
22°	1264.3	118.4	11.6	1.5	0.0	0.0	0.0	0.0
23°	1386.1	123.3	10.2	1.0	0.0	0.0	0.0	0.0
24°	1475.9	126.2	8.7	1.0	0.0	0.0	0.0	0.0
25°	1531.7	126.2	7.8	1.0	0.0	0.0	0.0	0.0
26°	1564.7	123.3	6.8	0.5	0.0	0.0	0.0	0.0
27°	1572.5	118.4	5.8	0.5	0.0	0.0	0.0	0.0
28°	1562.8	112.1	4.9	0.0	0.0	0.0	0.0	0.0
29°	1532.2	102.9	4.4	0.0	0.0	0.0	0.0	0.0
30°	1499.2	93.2	3.4	0.0	0.0	0.0	0.0	0.0
31°	1442.9	80.1	2.9	0.0	0.0	0.0	0.0	0.0
32°	1377.9	66.5	2.4	0.0	0.0	0.0	0.0	0.0
33°	1291.0	52.4	1.9	0.0	0.0	0.0	0.0	0.0
34°	1162.9	41.3	1.9	0.0	0.0	0.0	0.0	0.0
35°	1047.8	33.5	1.5	0.0	0.0	0.0	0.0	0.0
36°	897.4	26.7	1.5	0.0	0.0	0.0	0.0	0.0
37°	768.8	22.3	1.5	0.0	0.0	0.0	0.0	0.0
38°	643.6	18.9	1.0	0.0	0.0	0.0	0.0	0.0
39°	522.2	16.5	1.0	0.0	0.0	0.0	0.0	0.0
40°	416.4	14.6	1.0	0.0	0.0	0.0	0.0	0.0
42.5°	224.7	9.7	0.0	0.0	0.0	0.0	0.0	0.0
45°	124.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	54.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	18.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.4	0.0	0.0	0.5	0.0	0.0	0.0	0.0
57.5°	1.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.5	1.0	0.5	0.0	0.0	0.0
65°	0.0	0.0	1.0	1.0	0.5	0.0	0.0	0.0
67.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
70°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
72.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
75°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
77.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
80°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
85°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
87.5°	0.0	0.5	1.0	1.5	0.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)