

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: P1308764

Luminaire Tested: P3SQAS05R209035DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308764
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: P3SQAS05R209035DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

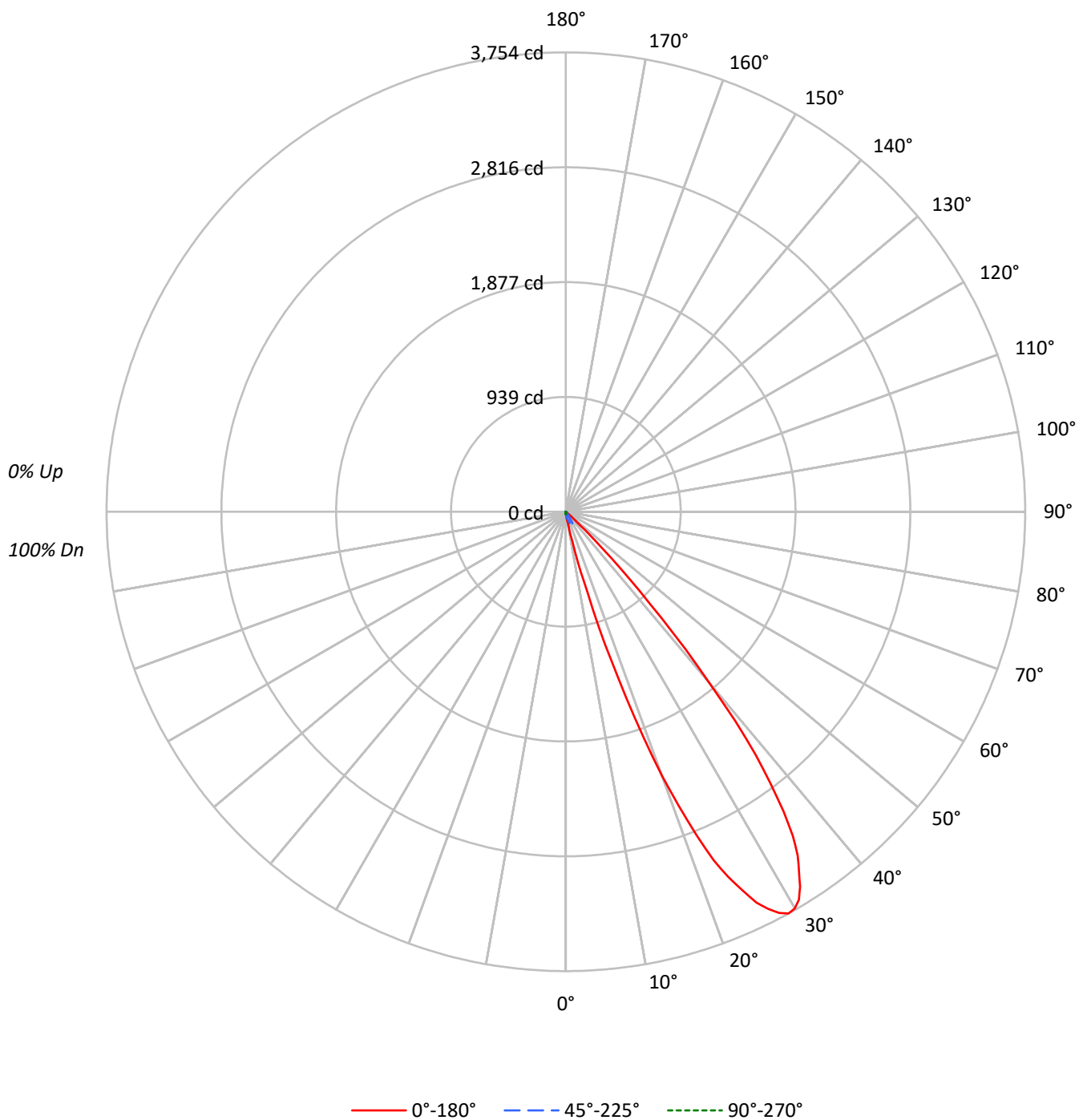
Lumens per Lamp: N/A
Luminaire Lumens: 518.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	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	80	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	50		
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°	3186	3186	3186	3186	3186
5°	6950	4893	2939	1331	985
10°	17296	8657	2064	262	0
15°	121706	11857	1195	0	0
20°	420636	19922	477	0	0
25°	648371	25445	190	0	0
30°	744195	19668	0	0	0
35°	679659	7464	0	0	0
40°	407465	3485	0	0	0
45°	100127	1632	0	0	0
50°	11039	402	0	0	0
55°	1561	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: 106777 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.4
10°-20°	40.5	7.8
20°-30°	204.6	39.5
30°-40°	221.4	42.7
40°-50°	46.8	9.0
50°-60°	1.4	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°	247.2	47.7
0°-40°	468.6	90.5
0°-60°	516.8	99.8
0°-90°	518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	518.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	40	28	17	8	6	6
15°	683	66	7	0	0	285
25°	3412	134	1	0	0	1542
35°	3233	36	0	0	0	1906
45°	411	7	0	0	0	452
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°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
2.5°	25.2	24.7	25.2	24.7	25.2	25.2	25.2	24.7	24.7	24.7	24.7
5°	40.2	40.2	39.7	40.2	40.2	40.2	40.2	39.7	39.7	39.2	39.2
7.5°	63.4	63.4	62.9	62.9	63.4	63.9	61.8	62.9	62.9	62.9	62.3
10°	98.9	101.0	98.9	101.5	99.4	97.9	100.5	97.9	97.9	97.4	95.8
12.5°	249.3	243.7	240.1	231.3	240.1	233.4	234.9	233.4	228.2	221.5	217.4
15°	682.6	682.6	662.5	689.3	669.7	676.9	639.8	640.4	621.3	600.7	589.4
17.5°	1427.0	1439.9	1426.5	1418.3	1400.7	1375.5	1365.2	1338.9	1304.4	1264.2	1259.6
20°	2295.1	2241.0	2266.2	2243.0	2228.6	2197.7	2163.2	2141.6	2111.2	2060.2	1984.9
21°	2568.1	2566.1	2565.5	2565.0	2543.9	2493.4	2462.0	2418.7	2376.0	2323.4	2260.6
22°	2843.2	2853.0	2857.1	2827.2	2784.0	2761.3	2739.7	2680.4	2612.9	2585.6	2510.9
23°	3095.7	3086.4	3059.6	3045.7	3012.2	3005.5	2941.1	2903.5	2837.6	2807.7	2719.1
24°	3267.7	3263.1	3250.7	3230.1	3203.3	3162.1	3123.5	3064.2	3010.1	2961.2	2878.8
25°	3412.0	3416.1	3393.4	3379.5	3350.7	3304.3	3256.9	3192.0	3141.5	3084.3	2989.0
26°	3554.7	3525.8	3507.8	3487.2	3455.8	3402.7	3356.8	3298.6	3237.3	3173.4	3080.2
27°	3642.8	3617.0	3589.7	3569.6	3533.5	3483.1	3434.1	3369.7	3301.2	3236.8	3141.0
28°	3712.3	3684.0	3657.2	3633.0	3591.8	3537.7	3478.9	3413.5	3342.4	3276.0	3178.1
29°	3753.5	3720.0	3691.2	3663.9	3626.3	3567.5	3508.3	3438.2	3369.7	3300.2	3200.2
30°	3742.2	3713.3	3685.5	3657.7	3619.6	3564.5	3505.7	3438.8	3369.7	3301.2	3199.7
31°	3697.9	3662.3	3642.2	3614.4	3581.5	3525.3	3474.8	3401.7	3339.3	3265.1	3163.7
32°	3612.9	3590.2	3563.4	3541.8	3509.8	3450.1	3400.6	3340.9	3267.2	3206.4	3099.8
33°	3497.5	3476.4	3463.0	3437.7	3406.8	3365.6	3306.4	3251.7	3168.8	3106.5	2999.8
34°	3387.2	3360.4	3327.0	3319.8	3293.0	3239.9	3186.3	3130.7	3056.5	2977.2	2869.5
35°	3232.7	3204.9	3174.0	3176.5	3144.6	3082.8	3028.2	2965.8	2895.3	2802.0	2700.0
36°	3026.1	3007.6	3002.9	2990.6	2954.0	2880.3	2828.3	2750.0	2690.7	2576.9	2489.3
37°	2774.2	2780.9	2747.4	2731.4	2688.7	2637.2	2607.8	2507.3	2438.3	2352.8	2234.3
38°	2519.7	2509.9	2470.2	2480.0	2421.3	2367.7	2284.8	2225.0	2147.7	2068.4	1973.6
39°	2201.8	2177.6	2130.2	2132.3	2088.0	2027.7	1947.3	1876.8	1830.4	1754.2	1663.5
40°	1812.4	1802.1	1785.6	1758.3	1700.1	1673.8	1602.2	1525.9	1486.8	1381.2	1336.9
42.5°	1005.6	991.7	963.9	954.1	923.2	892.3	850.5	799.5	774.8	743.4	673.3
45°	411.1	438.4	431.7	424.0	400.3	401.8	372.0	375.6	348.3	329.7	316.8
47.5°	90.7	98.4	98.9	95.3	98.9	95.8	94.3	91.7	92.2	93.8	90.2
50°	41.2	40.7	41.7	41.2	40.7	40.2	39.7	38.1	39.2	38.1	37.1
52.5°	16.0	16.5	16.5	15.5	16.0	16.0	16.0	15.5	15.5	15.5	15.5
55°	5.2	5.2	5.2	4.6	4.6	5.2	5.2	5.2	5.2	5.2	4.6
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°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
2.5°	23.7	21.6	20.1	18.5	15.5	12.9	11.8	11.8
5°	36.6	28.3	21.1	17.0	11.8	7.7	6.2	5.7
7.5°	55.1	38.1	22.2	14.4	7.7	4.1	2.6	2.1
10°	79.9	49.5	23.2	11.8	4.6	1.5	0.0	0.0
12.5°	139.6	59.2	23.2	9.3	2.1	0.0	0.0	0.0
15°	319.9	66.5	22.2	6.7	0.5	0.0	0.0	0.0
17.5°	664.6	83.5	19.6	4.6	0.0	0.0	0.0	0.0
20°	1061.2	108.7	15.5	2.6	0.0	0.0	0.0	0.0
21°	1224.6	117.5	13.9	2.1	0.0	0.0	0.0	0.0
22°	1342.0	125.7	12.4	1.5	0.0	0.0	0.0	0.0
23°	1471.3	130.9	10.8	1.0	0.0	0.0	0.0	0.0
24°	1566.6	133.9	9.3	1.0	0.0	0.0	0.0	0.0
25°	1625.9	133.9	8.2	1.0	0.0	0.0	0.0	0.0
26°	1660.9	130.9	7.2	0.5	0.0	0.0	0.0	0.0
27°	1669.1	125.7	6.2	0.5	0.0	0.0	0.0	0.0
28°	1658.8	119.0	5.2	0.0	0.0	0.0	0.0	0.0
29°	1626.4	109.2	4.6	0.0	0.0	0.0	0.0	0.0
30°	1591.4	98.9	3.6	0.0	0.0	0.0	0.0	0.0
31°	1531.6	85.0	3.1	0.0	0.0	0.0	0.0	0.0
32°	1462.6	70.6	2.6	0.0	0.0	0.0	0.0	0.0
33°	1370.4	55.6	2.1	0.0	0.0	0.0	0.0	0.0
34°	1234.3	43.8	2.1	0.0	0.0	0.0	0.0	0.0
35°	1112.3	35.5	1.5	0.0	0.0	0.0	0.0	0.0
36°	952.5	28.3	1.5	0.0	0.0	0.0	0.0	0.0
37°	816.0	23.7	1.5	0.0	0.0	0.0	0.0	0.0
38°	683.1	20.1	1.0	0.0	0.0	0.0	0.0	0.0
39°	554.3	17.5	1.0	0.0	0.0	0.0	0.0	0.0
40°	442.0	15.5	1.0	0.0	0.0	0.0	0.0	0.0
42.5°	238.5	10.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	131.9	6.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	58.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	19.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.6	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)