

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: P1307645

Luminaire Tested: P3SQAS05R209030DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307645
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: P3SQAS05R209030DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

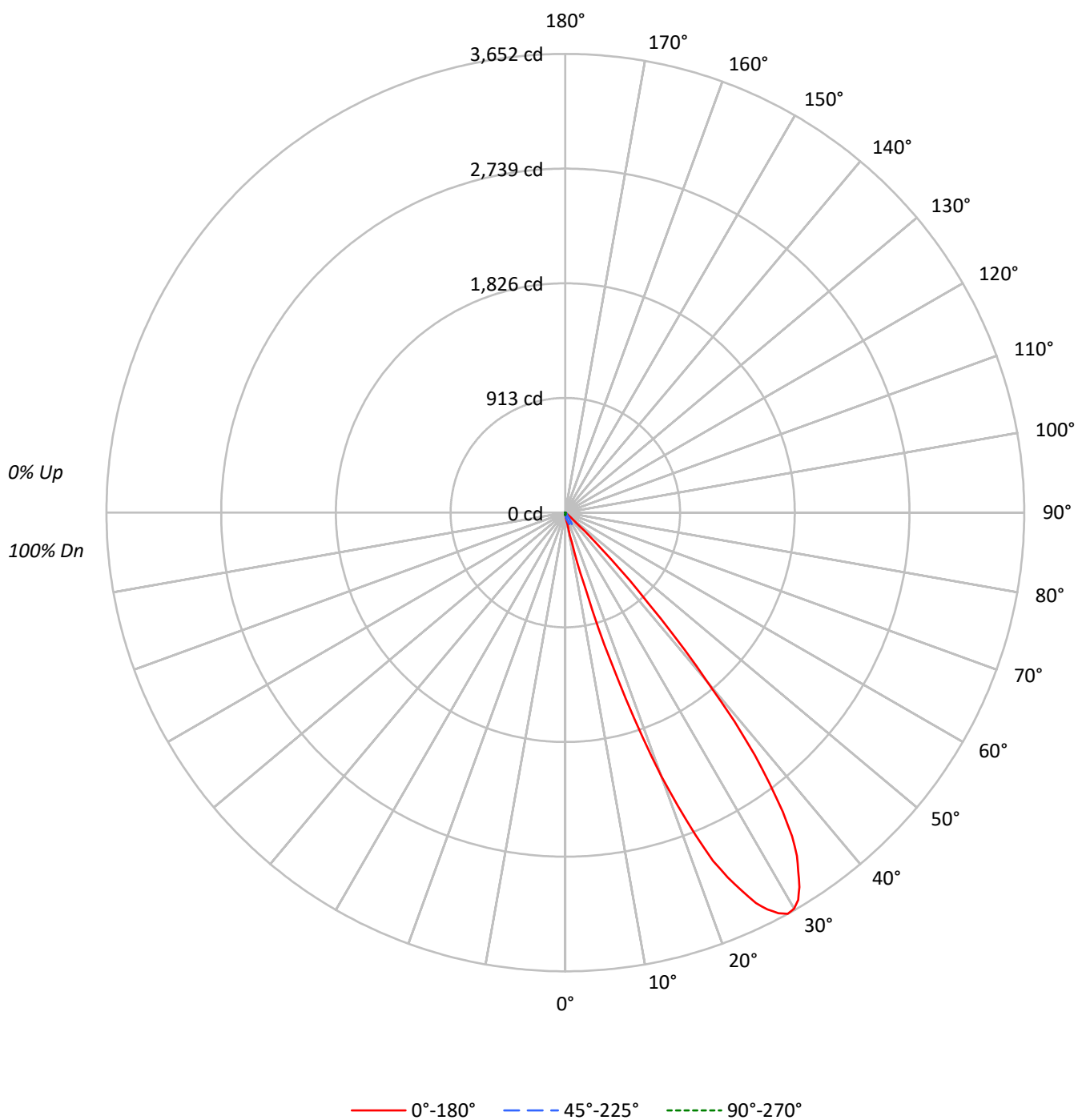
Lumens per Lamp: N/A
Luminaire Lumens: 504.0 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	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°	3100	3100	3100	3100	3100
5°	6760	4772	2853	1297	951
10°	16823	8412	2011	262	0
15°	118426	11536	1159	0	0
20°	409254	19391	458	0	0
25°	630851	24760	190	0	0
30°	724070	19131	0	0	0
35°	661284	7274	0	0	0
40°	396449	3372	0	0	0
45°	97424	1583	0	0	0
50°	10744	402	0	0	0
55°	1501	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: 103903 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.4
10°-20°	39.4	7.8
20°-30°	199.1	39.5
30°-40°	215.4	42.7
40°-50°	45.5	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°	240.5	47.7
0°-40°	455.9	90.5
0°-60°	502.8	99.8
0°-90°	504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	504.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	39	28	16	8	6	5
15°	664	65	6	0	0	277
25°	3320	130	1	0	0	1501
35°	3145	35	0	0	0	1855
45°	400	6	0	0	0	440
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°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
2.5°	24.6	24.1	24.6	24.1	24.6	24.6	24.6	24.1	24.1	24.1	24.1
5°	39.1	39.1	38.6	39.1	39.1	39.1	39.1	38.6	38.6	38.1	38.1
7.5°	61.7	61.7	61.2	61.2	61.7	62.2	60.1	61.2	61.2	61.2	60.7
10°	96.2	98.2	96.2	98.7	96.7	95.2	97.7	95.2	95.2	94.7	93.2
12.5°	242.6	237.1	233.6	225.1	233.6	227.1	228.6	227.1	222.1	215.5	211.5
15°	664.2	664.2	644.6	670.7	651.6	658.6	622.5	623.0	604.5	584.5	573.4
17.5°	1388.5	1401.0	1387.9	1379.9	1362.9	1338.3	1328.3	1302.7	1269.2	1230.1	1225.5
20°	2233.0	2180.4	2205.0	2182.4	2168.4	2138.3	2104.7	2083.7	2054.1	2004.5	1931.3
21°	2498.7	2496.7	2496.2	2495.7	2475.2	2426.0	2395.5	2353.3	2311.7	2260.6	2199.5
22°	2766.4	2775.9	2779.9	2750.8	2708.7	2686.7	2665.6	2608.0	2542.3	2515.8	2443.1
23°	3012.0	3003.0	2976.9	2963.4	2930.8	2924.3	2861.6	2825.0	2760.9	2731.8	2645.6
24°	3179.4	3174.9	3162.9	3142.8	3116.7	3076.6	3039.1	2981.4	2928.8	2881.2	2801.0
25°	3319.8	3323.8	3301.7	3288.2	3260.1	3215.0	3168.9	3105.7	3056.6	3001.0	2908.2
26°	3458.6	3430.5	3413.0	3392.9	3362.4	3310.7	3266.1	3209.5	3149.8	3087.7	2996.9
27°	3544.3	3519.2	3492.7	3473.1	3438.0	3388.9	3341.3	3278.6	3212.0	3149.3	3056.1
28°	3612.0	3584.4	3558.3	3534.8	3494.7	3442.1	3384.9	3321.3	3252.1	3187.4	3092.2
29°	3652.1	3619.5	3591.4	3564.9	3528.3	3471.1	3413.5	3345.3	3278.6	3211.0	3113.7
30°	3641.0	3613.0	3585.9	3558.8	3521.8	3468.1	3411.0	3345.8	3278.6	3212.0	3113.2
31°	3597.9	3563.4	3543.8	3516.7	3484.7	3430.0	3380.9	3309.7	3249.1	3176.9	3078.1
32°	3515.2	3493.2	3467.1	3446.1	3415.0	3356.8	3308.7	3250.6	3178.9	3119.8	3016.0
33°	3403.0	3382.4	3369.4	3344.8	3314.7	3274.6	3217.0	3163.9	3083.2	3022.5	2918.8
34°	3295.7	3269.6	3237.0	3230.0	3204.0	3152.3	3100.2	3046.1	2973.9	2896.7	2791.9
35°	3145.3	3118.2	3088.2	3090.7	3059.6	2999.5	2946.3	2885.7	2817.0	2726.3	2627.0
36°	2944.3	2926.3	2921.8	2909.7	2874.1	2802.5	2751.8	2675.6	2618.0	2507.2	2422.0
37°	2699.2	2705.7	2673.1	2657.6	2616.0	2565.9	2537.3	2439.6	2372.4	2289.2	2173.9
38°	2451.6	2442.1	2403.5	2413.0	2355.9	2303.7	2223.0	2164.9	2089.7	2012.5	1920.3
39°	2142.3	2118.8	2072.7	2074.7	2031.5	1972.9	1894.7	1826.0	1780.9	1706.7	1618.5
40°	1763.4	1753.4	1737.3	1710.8	1654.1	1628.5	1558.9	1484.7	1446.6	1343.8	1300.7
42.5°	978.4	964.9	937.8	928.3	898.2	868.2	827.6	777.9	753.9	723.3	655.1
45°	400.0	426.6	420.0	412.5	389.5	391.0	361.9	365.4	338.8	320.8	308.3
47.5°	88.2	95.7	96.2	92.7	96.2	93.2	91.7	89.2	89.7	91.2	87.7
50°	40.1	39.6	40.6	40.1	39.6	39.1	38.6	37.1	38.1	37.1	36.1
52.5°	15.5	16.0	16.0	15.0	15.5	15.5	15.5	15.0	15.0	15.0	15.0
55°	5.0	5.0	5.0	4.5	4.5	5.0	5.0	5.0	5.0	5.0	4.5
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°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
2.5°	23.1	21.1	19.5	18.0	15.0	12.5	11.5	11.5
5°	35.6	27.6	20.6	16.5	11.5	7.5	6.0	5.5
7.5°	53.6	37.1	21.6	14.0	7.5	4.0	2.5	2.0
10°	77.7	48.1	22.6	11.5	4.5	1.5	0.0	0.0
12.5°	135.8	57.6	22.6	9.0	2.0	0.0	0.0	0.0
15°	311.3	64.7	21.6	6.5	0.5	0.0	0.0	0.0
17.5°	646.6	81.2	19.0	4.5	0.0	0.0	0.0	0.0
20°	1032.6	105.8	15.0	2.5	0.0	0.0	0.0	0.0
21°	1191.5	114.3	13.5	2.0	0.0	0.0	0.0	0.0
22°	1305.7	122.3	12.0	1.5	0.0	0.0	0.0	0.0
23°	1431.6	127.3	10.5	1.0	0.0	0.0	0.0	0.0
24°	1524.3	130.3	9.0	1.0	0.0	0.0	0.0	0.0
25°	1581.9	130.3	8.0	1.0	0.0	0.0	0.0	0.0
26°	1616.0	127.3	7.0	0.5	0.0	0.0	0.0	0.0
27°	1624.0	122.3	6.0	0.5	0.0	0.0	0.0	0.0
28°	1614.0	115.8	5.0	0.0	0.0	0.0	0.0	0.0
29°	1582.4	106.3	4.5	0.0	0.0	0.0	0.0	0.0
30°	1548.3	96.2	3.5	0.0	0.0	0.0	0.0	0.0
31°	1490.2	82.7	3.0	0.0	0.0	0.0	0.0	0.0
32°	1423.0	68.7	2.5	0.0	0.0	0.0	0.0	0.0
33°	1333.3	54.1	2.0	0.0	0.0	0.0	0.0	0.0
34°	1201.0	42.6	2.0	0.0	0.0	0.0	0.0	0.0
35°	1082.2	34.6	1.5	0.0	0.0	0.0	0.0	0.0
36°	926.8	27.6	1.5	0.0	0.0	0.0	0.0	0.0
37°	794.0	23.1	1.5	0.0	0.0	0.0	0.0	0.0
38°	664.7	19.5	1.0	0.0	0.0	0.0	0.0	0.0
39°	539.3	17.0	1.0	0.0	0.0	0.0	0.0	0.0
40°	430.1	15.0	1.0	0.0	0.0	0.0	0.0	0.0
42.5°	232.1	10.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	128.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	56.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	19.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.5	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)