

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: P1307629

Luminaire Tested: P3SQAS05R159030DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R159030DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

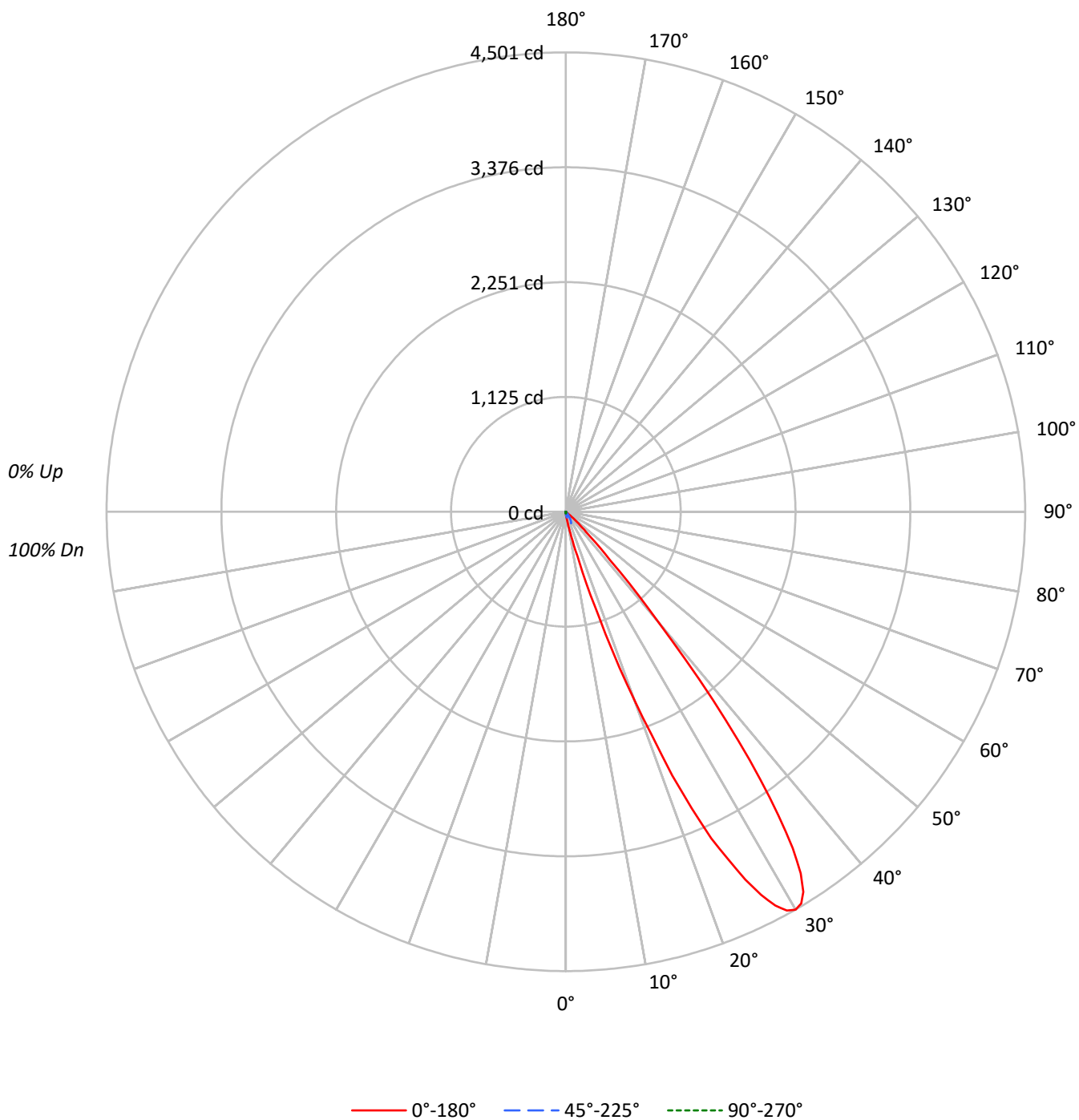
Lumens per Lamp: N/A
Luminaire Lumens: 476.0 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	94	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	57	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	51	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	46	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	42	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2928	2928	2928	2928	2928
5°	8488	6397	2507	1037	692
10°	22052	9548	1661	0	0
15°	88168	15619	891	0	0
20°	360246	23019	275	0	0
25°	712125	22822	0	0	0
30°	895074	18017	0	0	0
35°	763694	11059	0	0	0
40°	314412	3485	0	0	0
45°	68026	1461	0	0	0
50°	8708	0	0	0	0
55°	751	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: 2°

Vertical Angle: 45°

Luminance: 71192 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.5
10°-20°	33.4	7.0
20°-30°	194.4	40.8
30°-40°	208.5	43.8
40°-50°	35.2	7.4
50°-60°	1.1	0.2
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°	230.1	48.3
0°-40°	438.6	92.1
0°-60°	474.8	99.7
0°-90°	476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	476.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	49	37	14	6	4	7
15°	494	88	5	0	0	229
25°	3748	120	0	0	0	1696
35°	3632	53	0	0	0	2088
45°	279	6	0	0	0	330
55°	2	0	0	0	0	6
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°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
2.5°	31.0	31.5	32.0	32.0	32.0	32.0	31.5	31.5	31.5	31.5	31.0
5°	49.1	49.1	49.1	49.1	49.1	49.1	48.6	48.6	48.6	48.6	48.6
7.5°	70.1	69.1	69.6	68.1	69.1	68.6	68.1	69.1	69.1	66.6	66.6
10°	126.1	125.6	120.6	121.6	122.6	122.1	122.1	119.1	118.6	116.6	114.6
12.5°	243.3	248.8	252.8	252.8	243.3	246.8	240.3	241.8	242.8	239.8	229.2
15°	494.5	503.5	494.0	503.0	499.5	486.5	472.0	452.5	460.0	446.5	442.0
17.5°	1083.2	1103.7	1095.2	1053.6	1067.2	1035.1	1015.1	1007.6	986.6	924.0	898.0
20°	1965.6	1990.6	1967.1	1918.6	1934.1	1873.5	1858.0	1843.5	1750.4	1716.4	1607.2
21°	2337.0	2357.5	2366.6	2316.0	2285.0	2236.9	2196.9	2183.9	2127.3	2061.7	1949.6
22°	2785.5	2761.5	2707.4	2714.4	2668.4	2628.8	2573.3	2520.7	2457.7	2366.1	2273.5
23°	3156.9	3128.9	3103.3	3072.3	3022.8	2994.7	2915.1	2857.6	2775.5	2677.4	2588.3
24°	3502.8	3459.7	3443.7	3388.7	3374.6	3311.6	3247.0	3171.9	3072.8	2968.2	2869.6
25°	3747.5	3754.0	3740.0	3733.5	3661.9	3597.4	3533.3	3417.7	3333.1	3240.5	3088.8
26°	4009.8	4012.8	4005.8	3957.8	3893.2	3830.1	3747.5	3646.9	3524.3	3421.7	3284.5
27°	4210.5	4198.5	4188.5	4131.5	4078.4	3998.8	3923.7	3804.6	3685.0	3562.8	3403.7
28°	4370.7	4348.2	4335.7	4286.6	4224.6	4127.0	4034.9	3923.7	3804.1	3673.0	3500.8
29°	4467.3	4443.3	4429.3	4375.2	4303.6	4218.0	4124.9	4002.8	3874.2	3728.0	3554.8
30°	4500.9	4486.8	4464.8	4408.8	4334.7	4245.6	4150.0	4017.3	3882.7	3733.0	3549.8
31°	4478.8	4460.8	4439.8	4379.2	4299.1	4214.0	4102.9	3963.8	3822.1	3679.5	3485.3
32°	4391.2	4380.2	4354.7	4273.6	4208.5	4098.4	3988.8	3858.7	3704.0	3550.8	3375.1
33°	4227.1	4209.0	4187.0	4112.9	4029.8	3924.2	3815.1	3682.0	3528.3	3366.6	3173.4
34°	3976.8	3953.8	3926.2	3876.7	3770.6	3679.0	3552.8	3397.2	3270.0	3114.9	2940.2
35°	3632.4	3598.9	3565.8	3528.3	3409.2	3324.6	3239.5	3103.8	2981.2	2835.1	2637.3
36°	3246.0	3233.0	3206.0	3106.9	3068.3	2953.2	2884.6	2728.9	2629.8	2486.7	2323.5
37°	2809.0	2732.4	2771.5	2715.9	2599.8	2563.8	2482.2	2348.5	2241.4	2090.3	1972.1
38°	2340.5	2290.5	2318.0	2261.9	2201.4	2118.3	2056.2	1958.6	1838.5	1719.9	1607.7
39°	1855.0	1814.5	1844.5	1806.4	1714.3	1679.8	1624.8	1550.2	1453.6	1361.0	1254.9
40°	1398.5	1346.5	1386.5	1332.4	1290.4	1233.8	1205.8	1137.2	1077.2	1021.6	954.0
42.5°	638.7	633.2	624.2	604.7	600.1	600.6	566.1	543.6	513.1	477.5	456.0
45°	279.3	286.3	292.3	281.3	280.8	274.8	272.8	257.8	251.8	240.3	226.2
47.5°	137.6	140.2	138.6	141.7	139.2	135.1	134.1	132.1	126.1	125.6	119.1
50°	32.5	32.0	32.0	32.5	32.0	32.0	31.5	30.5	30.0	30.5	29.0
52.5°	10.5	11.0	10.5	10.0	10.5	11.0	10.5	10.5	10.5	10.5	10.5
55°	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.0	2.5	2.5	2.5
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
2.5°	30.5	26.0	21.5	17.0	12.5	10.0	9.5	9.0
5°	46.0	37.0	24.5	14.5	8.5	6.0	4.5	4.0
7.5°	62.1	46.0	27.0	12.0	6.0	2.5	1.0	0.5
10°	89.1	54.6	28.0	9.5	3.0	0.0	0.0	0.0
12.5°	174.7	62.6	27.5	7.5	0.5	0.0	0.0	0.0
15°	290.3	87.6	25.5	5.0	0.0	0.0	0.0	0.0
17.5°	475.5	113.1	22.0	3.5	0.0	0.0	0.0	0.0
20°	737.3	125.6	17.0	1.5	0.0	0.0	0.0	0.0
21°	864.4	126.6	15.0	1.0	0.0	0.0	0.0	0.0
22°	974.6	126.6	13.0	0.5	0.0	0.0	0.0	0.0
23°	1076.7	125.1	11.5	0.0	0.0	0.0	0.0	0.0
24°	1160.8	123.1	10.5	0.0	0.0	0.0	0.0	0.0
25°	1223.8	120.1	9.5	0.0	0.0	0.0	0.0	0.0
26°	1252.9	116.1	8.0	0.0	0.0	0.0	0.0	0.0
27°	1267.4	110.6	7.0	0.0	0.0	0.0	0.0	0.0
28°	1257.4	104.6	6.0	0.0	0.0	0.0	0.0	0.0
29°	1232.3	98.1	4.5	0.0	0.0	0.0	0.0	0.0
30°	1199.8	90.6	3.5	0.0	0.0	0.0	0.0	0.0
31°	1152.2	83.1	2.5	0.0	0.0	0.0	0.0	0.0
32°	1087.2	75.6	2.0	0.0	0.0	0.0	0.0	0.0
33°	1000.1	67.6	1.0	0.0	0.0	0.0	0.0	0.0
34°	892.5	59.6	0.5	0.0	0.0	0.0	0.0	0.0
35°	771.8	52.6	0.0	0.0	0.0	0.0	0.0	0.0
36°	668.2	45.0	0.0	0.0	0.0	0.0	0.0	0.0
37°	564.1	36.0	0.0	0.0	0.0	0.0	0.0	0.0
38°	472.5	28.5	0.0	0.0	0.0	0.0	0.0	0.0
39°	390.9	23.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	323.8	15.5	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	179.2	10.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	108.6	6.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	63.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
57.5°	0.0	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	0.0	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)