

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: P1312416

Luminaire Tested: P3SQAS13R259727DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-49)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R259727DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

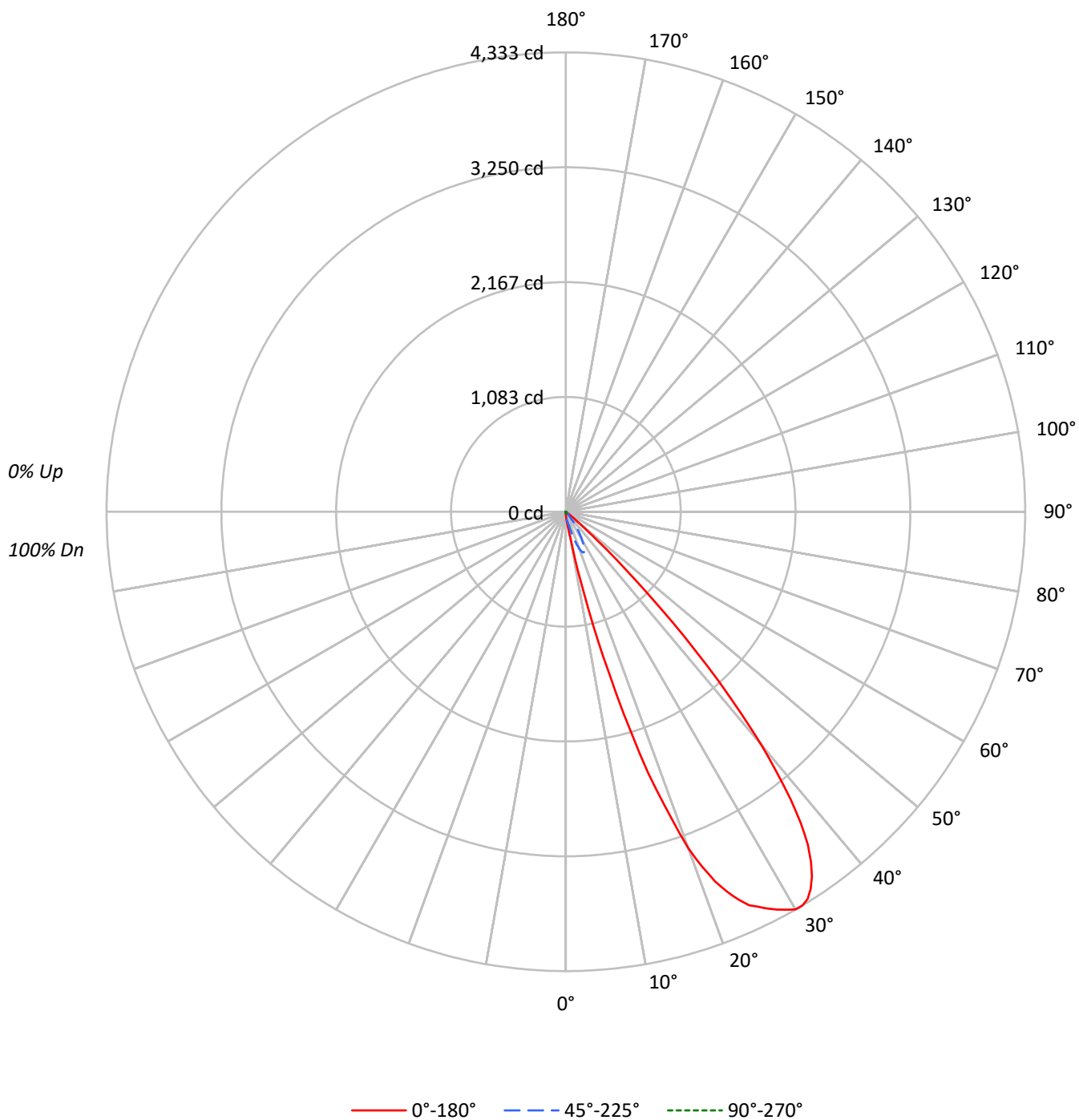
Lumens per Lamp: N/A
Luminaire Lumens: 849.0 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	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	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	70	59	52	47	69	58	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°	4616	4616	4616	4616	4616
5°	14487	10114	4218	2247	1694
10°	45644	18345	3130	280	0
15°	282281	34946	1890	0	0
20°	618940	68105	605	0	0
25°	778026	78348	0	0	0
30°	861287	60634	0	0	0
35°	847813	34354	0	0	0
40°	644426	8948	0	0	0
45°	261047	3970	0	0	0
50°	28990	429	0	0	0
55°	2192	0	240	0	0
60°	0	0	276	0	0
65°	0	0	652	0	0
70°	0	403	806	0	0
75°	0	532	1597	0	0
80°	0	793	2380	0	0
85°	0	1581	4742	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 261047 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.5
10°-20°	87.7	10.3
20°-30°	306.5	36.1
30°-40°	342.0	40.3
40°-50°	103.3	12.2
50°-60°	3.4	0.4
60°-70°	0.4	0.1
70°-80°	0.7	0.1
80°-90°	0.7	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°	398.4	46.9
0°-40°	740.4	87.2
0°-60°	847.1	99.8
0°-90°	849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	849.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	84	58	24	13	10	13
15°	1583	196	11	0	0	526
25°	4094	412	0	0	0	1868
35°	4032	163	0	0	0	2421
45°	1072	16	0	0	0	926
55°	7	0	1	0	0	23
65°	0	0	2	0	0	0
75°	0	1	2	0	0	0
85°	0	1	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°	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
2.5°	46.4	48.0	47.2	48.0	47.2	47.2	47.2	48.0	47.2	47.2	47.2
5°	83.8	84.6	84.6	83.8	83.8	85.4	83.8	84.6	82.1	83.8	82.9
7.5°	137.4	135.8	135.8	136.6	136.6	135.0	134.2	132.5	134.2	134.2	131.7
10°	261.0	259.4	255.3	253.7	255.3	255.3	247.2	248.8	249.6	242.3	239.9
12.5°	766.8	761.1	772.5	754.6	744.1	727.0	736.7	703.4	696.1	691.2	679.8
15°	1583.2	1626.3	1607.6	1609.3	1612.5	1571.9	1585.7	1535.3	1493.0	1480.0	1471.0
17.5°	2581.8	2594.8	2577.8	2569.6	2566.4	2546.9	2523.3	2498.1	2465.5	2437.1	2413.5
20°	3377.1	3367.4	3338.1	3341.3	3306.4	3288.5	3268.1	3242.9	3217.7	3176.3	3136.4
21°	3586.9	3558.4	3559.3	3539.7	3538.9	3516.2	3480.4	3454.4	3431.6	3384.4	3359.2
22°	3759.3	3752.8	3738.2	3723.5	3708.1	3696.7	3656.8	3643.8	3597.5	3558.4	3522.7
23°	3893.5	3895.9	3882.9	3873.1	3852.0	3847.1	3795.9	3778.0	3746.3	3686.9	3650.3
24°	4004.9	4000.8	3986.2	3969.1	3956.9	3945.5	3906.5	3877.2	3842.2	3793.5	3757.7
25°	4094.3	4084.6	4074.8	4061.8	4042.3	4029.3	3989.4	3956.9	3926.8	3872.3	3823.5
26°	4147.2	4149.6	4134.2	4124.4	4107.3	4094.3	4052.9	4014.6	3977.2	3918.7	3874.8
27°	4200.9	4198.4	4184.6	4170.0	4152.1	4147.2	4099.2	4059.4	4021.1	3959.3	3907.3
28°	4250.5	4244.0	4232.6	4215.5	4196.0	4181.3	4135.0	4093.5	4052.0	3986.2	3929.3
29°	4291.9	4285.4	4278.1	4256.2	4230.9	4221.2	4171.6	4121.2	4079.7	4012.2	3952.0
30°	4331.0	4318.8	4301.7	4283.0	4258.6	4239.9	4187.8	4143.9	4095.1	4020.3	3962.6
31°	4332.6	4316.3	4304.1	4284.6	4257.0	4234.2	4179.7	4135.0	4078.1	4008.1	3945.5
32°	4304.1	4296.0	4276.5	4255.3	4228.5	4205.7	4145.6	4098.4	4044.7	3969.9	3907.3
33°	4239.9	4231.8	4220.4	4198.4	4163.4	4142.3	4088.6	4036.6	3983.7	3916.2	3844.7
34°	4151.3	4141.5	4126.9	4104.9	4069.1	4047.2	4004.1	3950.4	3894.3	3824.4	3757.7
35°	4032.5	4013.8	4009.8	3977.2	3943.9	3938.2	3887.0	3830.9	3773.9	3696.7	3639.0
36°	3885.3	3863.4	3848.8	3837.4	3815.4	3788.6	3738.2	3693.4	3620.2	3570.6	3489.3
37°	3684.5	3657.7	3671.5	3640.6	3606.4	3595.0	3530.8	3490.1	3428.3	3360.8	3291.7
38°	3450.3	3447.9	3444.6	3430.8	3372.2	3342.1	3315.3	3272.2	3218.5	3137.2	3043.7
39°	3154.3	3159.2	3142.1	3143.7	3114.5	3084.4	3047.0	2998.2	2933.1	2859.1	2783.5
40°	2866.4	2797.3	2809.5	2768.0	2770.5	2725.8	2677.0	2633.9	2592.4	2527.3	2424.1
42.5°	1983.3	1972.8	1936.2	1910.1	1921.5	1863.8	1799.6	1739.4	1681.6	1608.5	1518.2
45°	1071.8	1047.4	1054.7	1012.4	1012.4	986.4	968.5	918.1	864.4	831.1	779.0
47.5°	398.5	403.3	412.3	395.2	375.7	387.1	370.0	370.0	361.0	350.5	335.8
50°	108.2	109.8	108.2	108.2	105.7	104.1	100.8	100.0	99.2	96.8	92.7
52.5°	43.9	41.5	41.5	42.3	42.3	40.7	41.5	41.5	40.7	39.8	39.8
55°	7.3	8.1	8.1	8.1	8.1	7.3	7.3	8.1	8.9	8.1	8.1
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°	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
2.5°	45.5	39.8	33.3	27.6	22.0	18.7	17.1	17.9
5°	77.3	58.5	38.2	24.4	17.1	13.0	10.6	9.8
7.5°	118.7	80.5	43.1	21.1	13.0	6.5	4.1	3.3
10°	182.2	104.9	46.4	17.9	8.1	1.6	0.0	0.0
12.5°	467.6	128.5	47.2	14.6	3.3	0.0	0.0	0.0
15°	961.2	196.0	45.5	10.6	0.8	0.0	0.0	0.0
17.5°	1597.9	300.1	39.8	7.3	0.0	0.0	0.0	0.0
20°	2216.7	371.6	31.7	3.3	0.0	0.0	0.0	0.0
21°	2402.9	392.8	28.5	2.4	0.0	0.0	0.0	0.0
22°	2555.0	408.2	25.2	1.6	0.0	0.0	0.0	0.0
23°	2681.8	416.3	22.0	0.8	0.0	0.0	0.0	0.0
24°	2770.5	418.0	20.3	0.8	0.0	0.0	0.0	0.0
25°	2812.8	412.3	17.9	0.0	0.0	0.0	0.0	0.0
26°	2829.0	400.9	16.3	0.0	0.0	0.0	0.0	0.0
27°	2816.8	386.3	14.6	0.0	0.0	0.0	0.0	0.0
28°	2794.9	364.3	12.2	0.0	0.0	0.0	0.0	0.0
29°	2751.8	335.0	10.6	0.0	0.0	0.0	0.0	0.0
30°	2710.3	304.9	8.9	0.0	0.0	0.0	0.0	0.0
31°	2663.1	278.1	7.3	0.0	0.0	0.0	0.0	0.0
32°	2605.4	247.2	5.7	0.0	0.0	0.0	0.0	0.0
33°	2509.5	218.7	4.1	0.0	0.0	0.0	0.0	0.0
34°	2375.3	191.9	3.3	0.0	0.0	0.0	0.0	0.0
35°	2195.6	163.4	2.4	0.0	0.0	0.0	0.0	0.0
36°	1998.8	133.4	1.6	0.0	0.0	0.0	0.0	0.0
37°	1758.1	96.8	1.6	0.0	0.0	0.0	0.0	0.0
38°	1506.8	61.0	0.8	0.0	0.0	0.0	0.0	0.0
39°	1249.8	46.4	0.8	0.0	0.0	0.0	0.0	0.0
40°	1014.8	39.8	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	543.2	26.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	320.4	16.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	178.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	64.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8.9	0.0	0.0	0.8	0.0	0.0	0.0	0.0
57.5°	0.8	0.0	0.8	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.8	1.6	0.0	0.0	0.0	0.0
65°	0.0	0.0	1.6	1.6	0.8	0.0	0.0	0.0
67.5°	0.0	0.8	1.6	1.6	0.8	0.0	0.0	0.0
70°	0.0	0.8	1.6	1.6	0.8	0.0	0.0	0.0
72.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
75°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
77.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
80°	0.0	0.8	1.6	2.4	0.8	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	0.8	1.6	2.4	0.8	0.0	0.0	0.0
85°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	1.6	2.4	0.8	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)