

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: P1309881

Luminaire Tested: P3SQAS05R209040DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309881
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: P3SQAS05R209040DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

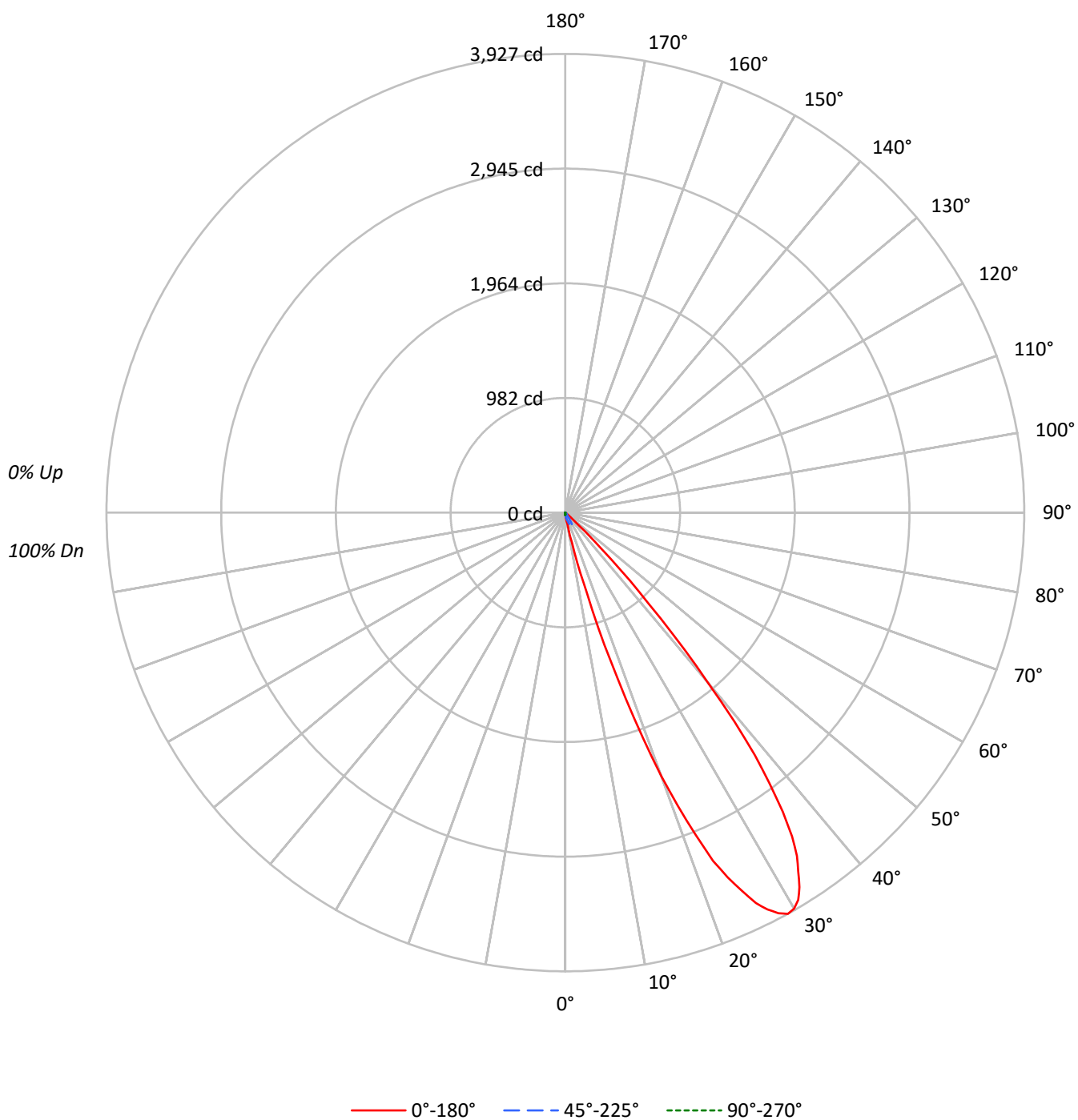
Lumens per Lamp: N/A
Luminaire Lumens: 542.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			
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°	3341	3341	3341	3341	3341
5°	7261	5117	3077	1400	1020
10°	18100	9041	2169	280	0
15°	127340	12392	1248	0	0
20°	440118	20838	495	0	0
25°	678395	26623	209	0	0
30°	778678	20583	0	0	0
35°	711154	7821	0	0	0
40°	426327	3642	0	0	0
45°	104779	1705	0	0	0
50°	11548	429	0	0	0
55°	1621	0	150	0	0
60°	0	0	379	0	0
65°	0	0	448	0	0
70°	0	252	806	0	0
75°	0	333	1065	0	0
80°	0	496	1587	0	0
85°	0	988	3162	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 111721 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.4
10°-20°	42.3	7.8
20°-30°	214.1	39.5
30°-40°	231.7	42.7
40°-50°	48.9	9.0
50°-60°	1.5	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°	258.6	47.7
0°-40°	490.3	90.5
0°-60°	540.7	99.8
0°-90°	542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	542.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	42	30	18	8	6	6
15°	714	70	7	0	0	298
25°	3570	140	1	0	0	1614
35°	3382	37	0	0	0	1995
45°	430	7	0	0	0	473
55°	5	0	0	0	0	10
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°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
2.5°	26.4	25.9	26.4	25.9	26.4	26.4	26.4	25.9	25.9	25.9	25.9
5°	42.0	42.0	41.5	42.0	42.0	42.0	42.0	41.5	41.5	41.0	41.0
7.5°	66.3	66.3	65.8	65.8	66.3	66.8	64.7	65.8	65.8	65.8	65.2
10°	103.5	105.7	103.5	106.2	104.0	102.4	105.1	102.4	102.4	101.9	100.3
12.5°	260.9	255.0	251.2	242.0	251.2	244.2	245.8	244.2	238.8	231.8	227.5
15°	714.2	714.2	693.2	721.2	700.7	708.3	669.5	670.0	650.1	628.5	616.7
17.5°	1493.1	1506.6	1492.6	1484.0	1465.6	1439.2	1428.5	1401.0	1364.8	1322.8	1317.9
20°	2401.4	2344.8	2371.2	2347.0	2331.9	2299.5	2263.4	2240.8	2209.0	2155.6	2076.9
21°	2687.1	2684.9	2684.4	2683.9	2661.8	2608.9	2576.1	2530.8	2486.0	2431.1	2365.3
22°	2975.0	2985.2	2989.5	2958.2	2913.0	2889.2	2866.6	2804.6	2734.0	2705.4	2627.3
23°	3239.1	3229.4	3201.3	3186.8	3151.8	3144.7	3077.4	3038.0	2969.0	2937.8	2845.0
24°	3419.1	3414.3	3401.3	3379.8	3351.7	3308.6	3268.2	3206.2	3149.6	3098.4	3012.1
25°	3570.0	3574.4	3550.6	3536.1	3505.9	3457.4	3407.8	3339.9	3287.1	3227.2	3127.5
26°	3719.4	3689.2	3670.3	3648.7	3615.9	3560.3	3512.4	3451.5	3387.3	3320.5	3222.9
27°	3811.5	3784.6	3756.0	3735.0	3697.3	3644.4	3593.2	3525.8	3454.2	3386.8	3286.5
28°	3884.3	3854.7	3826.6	3801.3	3758.2	3701.6	3640.1	3571.7	3497.3	3427.7	3325.3
29°	3927.4	3892.4	3862.2	3833.6	3794.3	3732.8	3670.8	3597.5	3525.8	3453.1	3348.5
30°	3915.6	3885.4	3856.3	3827.2	3787.3	3729.6	3668.2	3598.1	3525.8	3454.2	3348.0
31°	3869.2	3832.0	3811.0	3781.9	3747.4	3688.6	3635.8	3559.3	3494.0	3416.4	3310.2
32°	3780.3	3756.6	3728.5	3705.9	3672.5	3609.9	3558.2	3495.7	3418.6	3355.0	3243.4
33°	3659.5	3637.4	3623.4	3597.0	3564.7	3521.5	3459.5	3402.4	3315.6	3250.4	3138.8
34°	3544.2	3516.1	3481.1	3473.6	3445.5	3390.0	3334.0	3275.7	3198.1	3115.1	3002.4
35°	3382.5	3353.4	3321.0	3323.7	3290.3	3225.6	3168.5	3103.2	3029.4	2931.8	2825.1
36°	3166.3	3146.9	3142.1	3129.1	3090.8	3013.8	2959.3	2877.4	2815.4	2696.3	2604.6
37°	2902.7	2909.7	2874.7	2858.0	2813.2	2759.3	2728.6	2623.5	2551.3	2461.8	2337.8
38°	2636.4	2626.2	2584.7	2594.9	2533.5	2477.4	2390.6	2328.1	2247.2	2164.2	2065.1
39°	2303.8	2278.5	2228.9	2231.1	2184.7	2121.7	2037.6	1963.7	1915.2	1835.4	1740.6
40°	1896.3	1885.6	1868.3	1839.7	1778.8	1751.3	1676.4	1596.6	1555.7	1445.2	1398.8
42.5°	1052.2	1037.6	1008.5	998.3	966.0	933.6	890.0	836.6	810.7	777.8	704.5
45°	430.2	458.7	451.7	443.6	418.8	420.4	389.2	393.0	364.4	345.0	331.5
47.5°	94.9	103.0	103.5	99.7	103.5	100.3	98.6	95.9	96.5	98.1	94.3
50°	43.1	42.6	43.7	43.1	42.6	42.0	41.5	39.9	41.0	39.9	38.8
52.5°	16.7	17.2	17.2	16.2	16.7	16.7	16.7	16.2	16.2	16.2	16.2
55°	5.4	5.4	5.4	4.9	4.9	5.4	5.4	5.4	5.4	5.4	4.9
57.5°	0.5	1.1	0.5	1.1	0.5	0.5	0.5	0.5	0.5	1.1	1.1
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°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
2.5°	24.8	22.6	21.0	19.4	16.2	13.5	12.4	12.4
5°	38.3	29.6	22.1	17.8	12.4	8.1	6.5	5.9
7.5°	57.7	39.9	23.2	15.1	8.1	4.3	2.7	2.2
10°	83.6	51.7	24.3	12.4	4.9	1.6	0.0	0.0
12.5°	146.1	62.0	24.3	9.7	2.2	0.0	0.0	0.0
15°	334.7	69.5	23.2	7.0	0.5	0.0	0.0	0.0
17.5°	695.4	87.3	20.5	4.9	0.0	0.0	0.0	0.0
20°	1110.4	113.7	16.2	2.7	0.0	0.0	0.0	0.0
21°	1281.3	122.9	14.6	2.2	0.0	0.0	0.0	0.0
22°	1404.2	131.5	12.9	1.6	0.0	0.0	0.0	0.0
23°	1539.5	136.9	11.3	1.1	0.0	0.0	0.0	0.0
24°	1639.2	140.1	9.7	1.1	0.0	0.0	0.0	0.0
25°	1701.2	140.1	8.6	1.1	0.0	0.0	0.0	0.0
26°	1737.9	136.9	7.5	0.5	0.0	0.0	0.0	0.0
27°	1746.5	131.5	6.5	0.5	0.0	0.0	0.0	0.0
28°	1735.7	124.5	5.4	0.0	0.0	0.0	0.0	0.0
29°	1701.7	114.3	4.9	0.0	0.0	0.0	0.0	0.0
30°	1665.1	103.5	3.8	0.0	0.0	0.0	0.0	0.0
31°	1602.6	88.9	3.2	0.0	0.0	0.0	0.0	0.0
32°	1530.3	73.8	2.7	0.0	0.0	0.0	0.0	0.0
33°	1433.8	58.2	2.2	0.0	0.0	0.0	0.0	0.0
34°	1291.5	45.8	2.2	0.0	0.0	0.0	0.0	0.0
35°	1163.8	37.2	1.6	0.0	0.0	0.0	0.0	0.0
36°	996.7	29.6	1.6	0.0	0.0	0.0	0.0	0.0
37°	853.8	24.8	1.6	0.0	0.0	0.0	0.0	0.0
38°	714.8	21.0	1.1	0.0	0.0	0.0	0.0	0.0
39°	580.0	18.3	1.1	0.0	0.0	0.0	0.0	0.0
40°	462.5	16.2	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	249.6	10.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	138.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	60.9	3.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	20.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.9	0.0	0.0	0.5	0.0	0.0	0.0	0.0
57.5°	1.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.5	1.1	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.5	1.1	0.5	0.0	0.0	0.0
65°	0.0	0.0	1.1	1.1	0.5	0.0	0.0	0.0
67.5°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
70°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
72.5°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
75°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
77.5°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
80°	0.0	0.5	1.1	1.6	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	1.1	1.6	0.5	0.0	0.0	0.0
85°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
87.5°	0.0	0.5	1.1	1.6	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)