

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: P1316058

Luminaire Tested: P3SQAS09R209827DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316058
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: P3SQAS09R209827DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

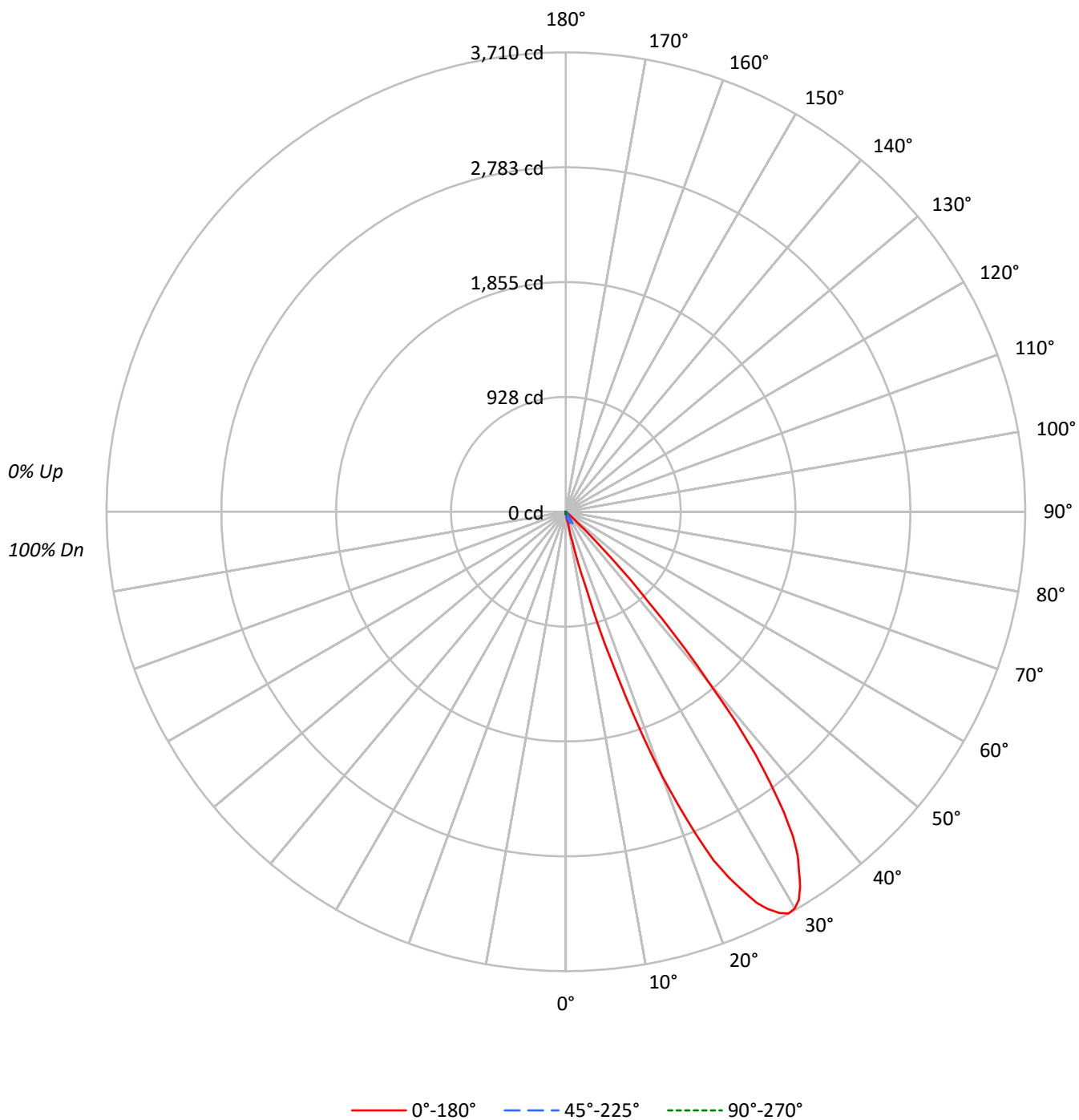
Lumens per Lamp: N/A
Luminaire Lumens: 512.0 lumens
Efficiency: N/A
Efficacy: 46.5 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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°	3152	3152	3152	3152	3152
5°	6863	4841	2904	1314	968
10°	17103	8552	2046	262	0
15°	120298	11714	1177	0	0
20°	415760	19684	458	0	0
25°	640846	25160	190	0	0
30°	735564	19449	0	0	0
35°	671775	7380	0	0	0
40°	402744	3440	0	0	0
45°	98958	1607	0	0	0
50°	10905	402	0	0	0
55°	1531	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: 105534 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.4
10°-20°	40.0	7.8
20°-30°	202.3	39.5
30°-40°	218.8	42.7
40°-50°	46.2	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°	244.3	47.7
0°-40°	463.2	90.5
0°-60°	510.8	99.8
0°-90°	512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	512.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	40	28	17	8	6	6
15°	675	66	7	0	0	281
25°	3372	132	1	0	0	1524
35°	3195	35	0	0	0	1884
45°	406	7	0	0	0	447
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°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	25.0	24.4	25.0	24.4	25.0	25.0	25.0	24.4	24.4	24.4	24.4
5°	39.7	39.7	39.2	39.7	39.7	39.7	39.7	39.2	39.2	38.7	38.7
7.5°	62.6	62.6	62.1	62.1	62.6	63.1	61.1	62.1	62.1	62.1	61.6
10°	97.8	99.8	97.8	100.3	98.3	96.7	99.3	96.7	96.7	96.2	94.7
12.5°	246.5	240.9	237.3	228.6	237.3	230.7	232.2	230.7	225.6	219.0	214.9
15°	674.7	674.7	654.8	681.3	662.0	669.1	632.4	632.9	614.1	593.7	582.5
17.5°	1410.5	1423.2	1410.0	1401.8	1384.5	1359.6	1349.4	1323.4	1289.3	1249.6	1245.0
20°	2268.5	2215.0	2240.0	2217.1	2202.8	2172.3	2138.1	2116.8	2086.7	2036.3	1962.0
21°	2538.4	2536.3	2535.8	2535.3	2514.4	2464.5	2433.5	2390.7	2348.4	2296.5	2234.4
22°	2810.3	2820.0	2824.0	2794.5	2751.7	2729.3	2707.9	2649.4	2582.7	2555.7	2481.9
23°	3059.8	3050.6	3024.2	3010.4	2977.3	2970.7	2907.0	2869.9	2804.7	2775.2	2687.6
24°	3229.9	3225.3	3213.1	3192.7	3166.2	3125.5	3087.3	3028.7	2975.3	2926.9	2845.4
25°	3372.4	3376.5	3354.1	3340.4	3311.8	3266.0	3219.2	3155.0	3105.1	3048.6	2954.4
26°	3513.5	3485.0	3467.2	3446.8	3415.7	3363.3	3318.0	3260.4	3199.8	3136.7	3044.5
27°	3600.6	3575.1	3548.1	3528.3	3492.6	3442.7	3394.3	3330.7	3263.0	3199.3	3104.6
28°	3669.3	3641.3	3614.8	3590.9	3550.2	3496.7	3438.6	3374.0	3303.7	3238.0	3141.3
29°	3710.0	3676.9	3648.4	3621.4	3584.3	3526.2	3467.7	3398.4	3330.7	3261.9	3163.2
30°	3698.8	3670.3	3642.8	3615.3	3577.7	3523.2	3465.1	3398.9	3330.7	3263.0	3162.7
31°	3655.1	3619.9	3600.1	3572.6	3540.0	3484.5	3434.6	3362.3	3300.6	3227.3	3127.0
32°	3571.0	3548.6	3522.2	3500.8	3469.2	3410.1	3361.2	3302.2	3229.4	3169.3	3063.9
33°	3457.0	3436.1	3422.9	3397.9	3367.4	3326.6	3268.1	3214.1	3132.1	3070.5	2965.1
34°	3348.0	3321.5	3288.4	3281.3	3254.8	3202.4	3149.4	3094.4	3021.1	2942.7	2836.3
35°	3195.2	3167.7	3137.2	3139.7	3108.2	3047.1	2993.1	2931.5	2861.7	2769.5	2668.7
36°	2991.1	2972.7	2968.1	2955.9	2919.8	2846.9	2795.5	2718.1	2659.6	2547.0	2460.5
37°	2742.1	2748.7	2715.6	2699.8	2657.5	2606.6	2577.6	2478.3	2410.1	2325.5	2208.4
38°	2490.5	2480.8	2441.6	2451.3	2393.2	2340.3	2258.3	2199.2	2122.9	2044.4	1950.8
39°	2176.3	2152.4	2105.6	2107.6	2063.8	2004.2	1924.8	1855.0	1809.2	1733.8	1644.2
40°	1791.4	1781.2	1764.9	1737.9	1680.4	1654.4	1583.6	1508.3	1469.6	1365.2	1321.4
42.5°	994.0	980.2	952.7	943.0	912.5	881.9	840.7	790.3	765.8	734.8	665.5
45°	406.3	433.3	426.7	419.1	395.6	397.2	367.6	371.2	344.2	325.9	313.2
47.5°	89.6	97.3	97.8	94.2	97.8	94.7	93.2	90.6	91.1	92.7	89.1
50°	40.7	40.2	41.2	40.7	40.2	39.7	39.2	37.7	38.7	37.7	36.7
52.5°	15.8	16.3	16.3	15.3	15.8	15.8	15.8	15.3	15.3	15.3	15.3
55°	5.1	5.1	5.1	4.6	4.6	5.1	5.1	5.1	5.1	5.1	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°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	23.4	21.4	19.9	18.3	15.3	12.7	11.7	11.7
5°	36.2	28.0	20.9	16.8	11.7	7.6	6.1	5.6
7.5°	54.5	37.7	21.9	14.3	7.6	4.1	2.5	2.0
10°	78.9	48.9	22.9	11.7	4.6	1.5	0.0	0.0
12.5°	138.0	58.6	22.9	9.2	2.0	0.0	0.0	0.0
15°	316.2	65.7	21.9	6.6	0.5	0.0	0.0	0.0
17.5°	656.9	82.5	19.3	4.6	0.0	0.0	0.0	0.0
20°	1049.0	107.4	15.3	2.5	0.0	0.0	0.0	0.0
21°	1210.4	116.1	13.7	2.0	0.0	0.0	0.0	0.0
22°	1326.5	124.2	12.2	1.5	0.0	0.0	0.0	0.0
23°	1454.3	129.3	10.7	1.0	0.0	0.0	0.0	0.0
24°	1548.5	132.4	9.2	1.0	0.0	0.0	0.0	0.0
25°	1607.0	132.4	8.1	1.0	0.0	0.0	0.0	0.0
26°	1641.7	129.3	7.1	0.5	0.0	0.0	0.0	0.0
27°	1649.8	124.2	6.1	0.5	0.0	0.0	0.0	0.0
28°	1639.6	117.6	5.1	0.0	0.0	0.0	0.0	0.0
29°	1607.6	108.0	4.6	0.0	0.0	0.0	0.0	0.0
30°	1572.9	97.8	3.6	0.0	0.0	0.0	0.0	0.0
31°	1513.9	84.0	3.1	0.0	0.0	0.0	0.0	0.0
32°	1445.6	69.8	2.5	0.0	0.0	0.0	0.0	0.0
33°	1354.5	55.0	2.0	0.0	0.0	0.0	0.0	0.0
34°	1220.0	43.3	2.0	0.0	0.0	0.0	0.0	0.0
35°	1099.4	35.1	1.5	0.0	0.0	0.0	0.0	0.0
36°	941.5	28.0	1.5	0.0	0.0	0.0	0.0	0.0
37°	806.6	23.4	1.5	0.0	0.0	0.0	0.0	0.0
38°	675.2	19.9	1.0	0.0	0.0	0.0	0.0	0.0
39°	547.9	17.3	1.0	0.0	0.0	0.0	0.0	0.0
40°	436.9	15.3	1.0	0.0	0.0	0.0	0.0	0.0
42.5°	235.8	10.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	130.4	6.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	57.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	19.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9.7	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)