

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: P1313221

Luminaire Tested: P3SQAS09R259730DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313221
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: P3SQAS09R259730DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

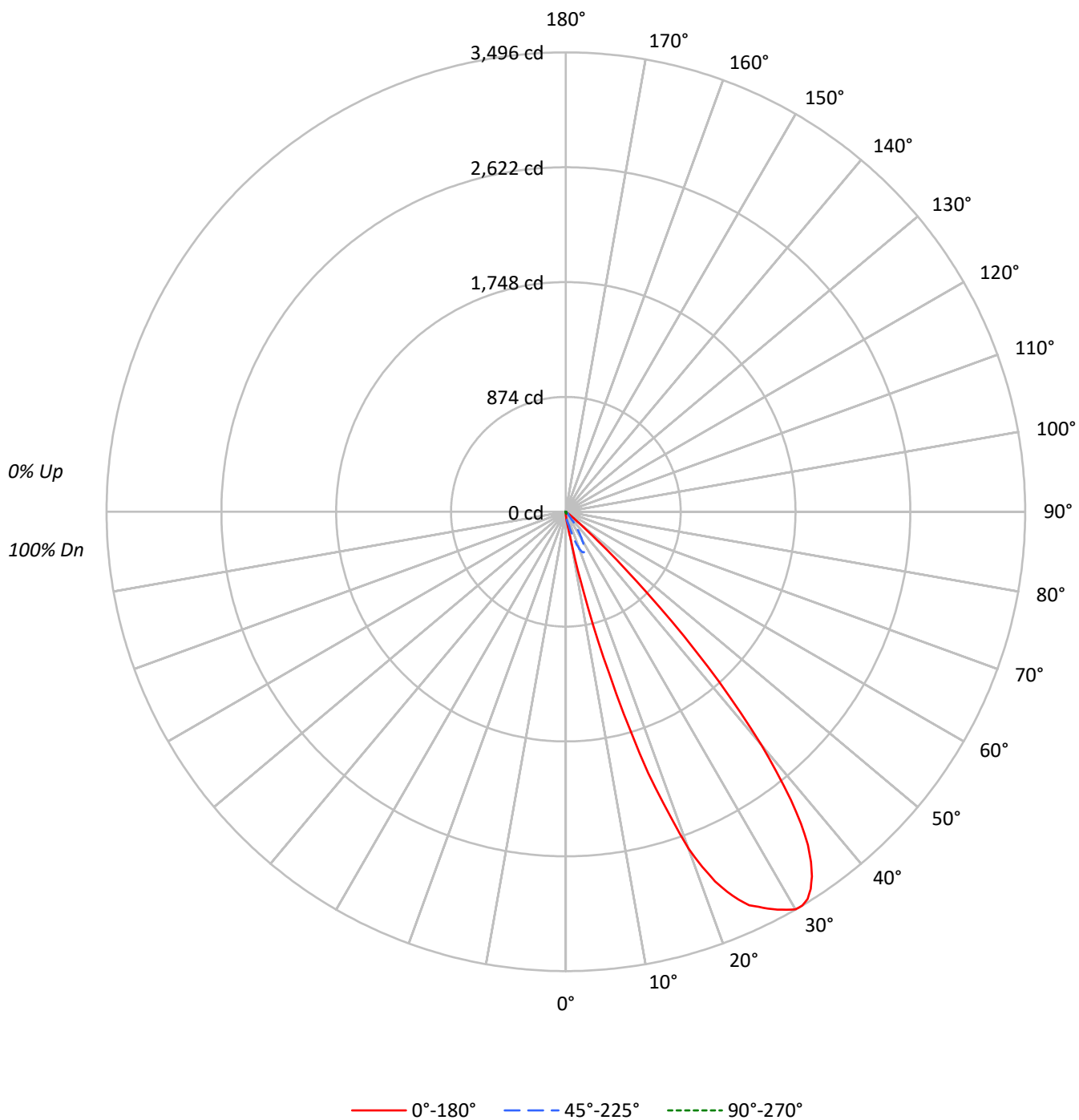
Lumens per Lamp: N/A
Luminaire Lumens: 685.0 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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				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	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	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°	3737	3737	3737	3737	3737
5°	11687	8160	3406	1815	1366
10°	36830	14795	2518	227	0
15°	227758	28189	1516	0	0
20°	499389	54946	477	0	0
25°	627734	63203	0	0	0
30°	694916	48921	0	0	0
35°	684053	27731	0	0	0
40°	519943	7217	0	0	0
45°	210606	3191	0	0	0
50°	23390	348	0	0	0
55°	1772	0	210	0	0
60°	0	0	241	0	0
65°	0	0	530	0	0
70°	0	352	655	0	0
75°	0	466	1331	0	0
80°	0	694	1984	0	0
85°	0	1383	3952	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 210606 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.5
10°-20°	70.8	10.3
20°-30°	247.3	36.1
30°-40°	275.9	40.3
40°-50°	83.3	12.2
50°-60°	2.8	0.4
60°-70°	0.4	0.1
70°-80°	0.6	0.1
80°-90°	0.6	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°	321.5	46.9
0°-40°	597.4	87.2
0°-60°	683.5	99.8
0°-90°	685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	685.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	68	47	20	10	8	10
15°	1277	158	8	0	0	425
25°	3303	333	0	0	0	1507
35°	3254	132	0	0	0	1953
45°	865	13	0	0	0	747
55°	6	0	1	0	0	18
65°	0	0	1	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°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
2.5°	37.4	38.7	38.1	38.7	38.1	38.1	38.1	38.7	38.1	38.1	38.1
5°	67.6	68.2	68.2	67.6	67.6	68.9	67.6	68.2	66.3	67.6	66.9
7.5°	110.9	109.6	109.6	110.2	110.2	108.9	108.3	106.9	108.3	108.3	106.3
10°	210.6	209.3	206.0	204.7	206.0	206.0	199.5	200.8	201.4	195.5	193.5
12.5°	618.7	614.1	623.3	608.9	600.3	586.5	594.4	567.5	561.6	557.7	548.5
15°	1277.4	1312.2	1297.1	1298.4	1301.0	1268.2	1279.4	1238.7	1204.6	1194.1	1186.9
17.5°	2083.1	2093.6	2079.8	2073.3	2070.6	2054.9	2035.9	2015.5	1989.3	1966.3	1947.3
20°	2724.8	2716.9	2693.3	2695.9	2667.7	2653.2	2636.8	2616.5	2596.2	2562.7	2530.6
21°	2894.0	2871.1	2871.7	2856.0	2855.3	2837.0	2808.1	2787.1	2768.7	2730.7	2710.3
22°	3033.1	3027.9	3016.1	3004.3	2991.8	2982.6	2950.5	2940.0	2902.6	2871.1	2842.2
23°	3141.4	3143.3	3132.8	3125.0	3107.9	3104.0	3062.6	3048.2	3022.6	2974.7	2945.2
24°	3231.3	3228.0	3216.2	3202.4	3192.6	3183.4	3151.9	3128.3	3100.0	3060.7	3031.8
25°	3303.4	3295.6	3287.7	3277.2	3261.4	3250.9	3218.8	3192.6	3168.3	3124.3	3085.0
26°	3346.1	3348.0	3335.6	3327.7	3313.9	3303.4	3270.0	3239.1	3209.0	3161.7	3126.3
27°	3389.4	3387.4	3376.3	3364.5	3350.0	3346.1	3307.4	3275.2	3244.4	3194.5	3152.5
28°	3429.4	3424.2	3415.0	3401.2	3385.4	3373.6	3336.2	3302.8	3269.3	3216.2	3170.2
29°	3462.9	3457.6	3451.7	3434.0	3413.7	3405.8	3365.8	3325.1	3291.6	3237.2	3188.6
30°	3494.4	3484.5	3470.7	3455.6	3436.0	3420.9	3378.9	3343.5	3304.1	3243.7	3197.1
31°	3495.7	3482.5	3472.7	3457.0	3434.7	3416.3	3372.3	3336.2	3290.3	3233.9	3183.4
32°	3472.7	3466.1	3450.4	3433.3	3411.7	3393.3	3344.8	3306.7	3263.4	3203.1	3152.5
33°	3420.9	3414.3	3405.1	3387.4	3359.2	3342.1	3298.8	3256.9	3214.2	3159.7	3102.0
34°	3349.4	3341.5	3329.7	3312.0	3283.1	3265.4	3230.6	3187.3	3142.0	3085.6	3031.8
35°	3253.6	3238.5	3235.2	3209.0	3182.1	3177.5	3136.1	3090.9	3044.9	2982.6	2936.0
36°	3134.8	3117.1	3105.3	3096.1	3078.4	3056.7	3016.1	2980.0	2920.9	2880.9	2815.3
37°	2972.8	2951.1	2962.3	2937.3	2909.8	2900.6	2848.8	2816.0	2766.1	2711.6	2655.9
38°	2783.8	2781.8	2779.2	2768.1	2720.8	2696.5	2674.9	2640.1	2596.8	2531.2	2455.8
39°	2545.0	2548.9	2535.1	2536.5	2512.8	2488.6	2458.4	2419.0	2366.5	2306.8	2245.8
40°	2312.7	2257.0	2266.8	2233.3	2235.3	2199.2	2159.9	2125.1	2091.6	2039.1	1955.8
42.5°	1600.2	1591.7	1562.2	1541.2	1550.4	1503.8	1451.9	1403.4	1356.8	1297.8	1224.9
45°	864.7	845.0	851.0	816.8	816.8	795.8	781.4	740.7	697.4	670.5	628.5
47.5°	321.5	325.4	332.6	318.9	303.1	312.3	298.5	298.5	291.3	282.8	271.0
50°	87.3	88.6	87.3	87.3	85.3	84.0	81.4	80.7	80.0	78.1	74.8
52.5°	35.4	33.5	33.5	34.1	34.1	32.8	33.5	33.5	32.8	32.1	32.1
55°	5.9	6.6	6.6	6.6	6.6	5.9	5.9	6.6	7.2	6.6	6.6
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°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
2.5°	36.7	32.1	26.9	22.3	17.7	15.1	13.8	14.4
5°	62.3	47.2	30.8	19.7	13.8	10.5	8.5	7.9
7.5°	95.8	65.0	34.8	17.1	10.5	5.2	3.3	2.6
10°	147.0	84.6	37.4	14.4	6.6	1.3	0.0	0.0
12.5°	377.3	103.7	38.1	11.8	2.6	0.0	0.0	0.0
15°	775.5	158.1	36.7	8.5	0.7	0.0	0.0	0.0
17.5°	1289.2	242.1	32.1	5.9	0.0	0.0	0.0	0.0
20°	1788.5	299.8	25.6	2.6	0.0	0.0	0.0	0.0
21°	1938.8	316.9	23.0	2.0	0.0	0.0	0.0	0.0
22°	2061.4	329.4	20.3	1.3	0.0	0.0	0.0	0.0
23°	2163.8	335.9	17.7	0.7	0.0	0.0	0.0	0.0
24°	2235.3	337.2	16.4	0.7	0.0	0.0	0.0	0.0
25°	2269.4	332.6	14.4	0.0	0.0	0.0	0.0	0.0
26°	2282.6	323.5	13.1	0.0	0.0	0.0	0.0	0.0
27°	2272.7	311.6	11.8	0.0	0.0	0.0	0.0	0.0
28°	2255.0	293.9	9.8	0.0	0.0	0.0	0.0	0.0
29°	2220.2	270.3	8.5	0.0	0.0	0.0	0.0	0.0
30°	2186.8	246.0	7.2	0.0	0.0	0.0	0.0	0.0
31°	2148.7	224.4	5.9	0.0	0.0	0.0	0.0	0.0
32°	2102.1	199.5	4.6	0.0	0.0	0.0	0.0	0.0
33°	2024.7	176.5	3.3	0.0	0.0	0.0	0.0	0.0
34°	1916.5	154.8	2.6	0.0	0.0	0.0	0.0	0.0
35°	1771.5	131.9	2.0	0.0	0.0	0.0	0.0	0.0
36°	1612.7	107.6	1.3	0.0	0.0	0.0	0.0	0.0
37°	1418.5	78.1	1.3	0.0	0.0	0.0	0.0	0.0
38°	1215.7	49.2	0.7	0.0	0.0	0.0	0.0	0.0
39°	1008.4	37.4	0.7	0.0	0.0	0.0	0.0	0.0
40°	818.8	32.1	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	438.3	21.7	0.0	0.0	0.0	0.0	0.0	0.0
45°	258.5	13.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	144.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0
50°	51.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7.2	0.0	0.0	0.7	0.0	0.0	0.0	0.0
57.5°	0.7	0.0	0.7	0.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.7	1.3	0.0	0.0	0.0	0.0
65°	0.0	0.0	1.3	1.3	0.7	0.0	0.0	0.0
67.5°	0.0	0.7	1.3	1.3	0.7	0.0	0.0	0.0
70°	0.0	0.7	1.3	1.3	0.7	0.0	0.0	0.0
72.5°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
75°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
77.5°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
80°	0.0	0.7	1.3	2.0	0.7	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	0.7	1.3	2.0	0.7	0.0	0.0	0.0
85°	0.0	0.7	1.3	2.0	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	1.3	2.0	0.7	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)