

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: P1305728

Luminaire Tested: P3SQAS09R259024DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305728
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: P3SQAS09R259024DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

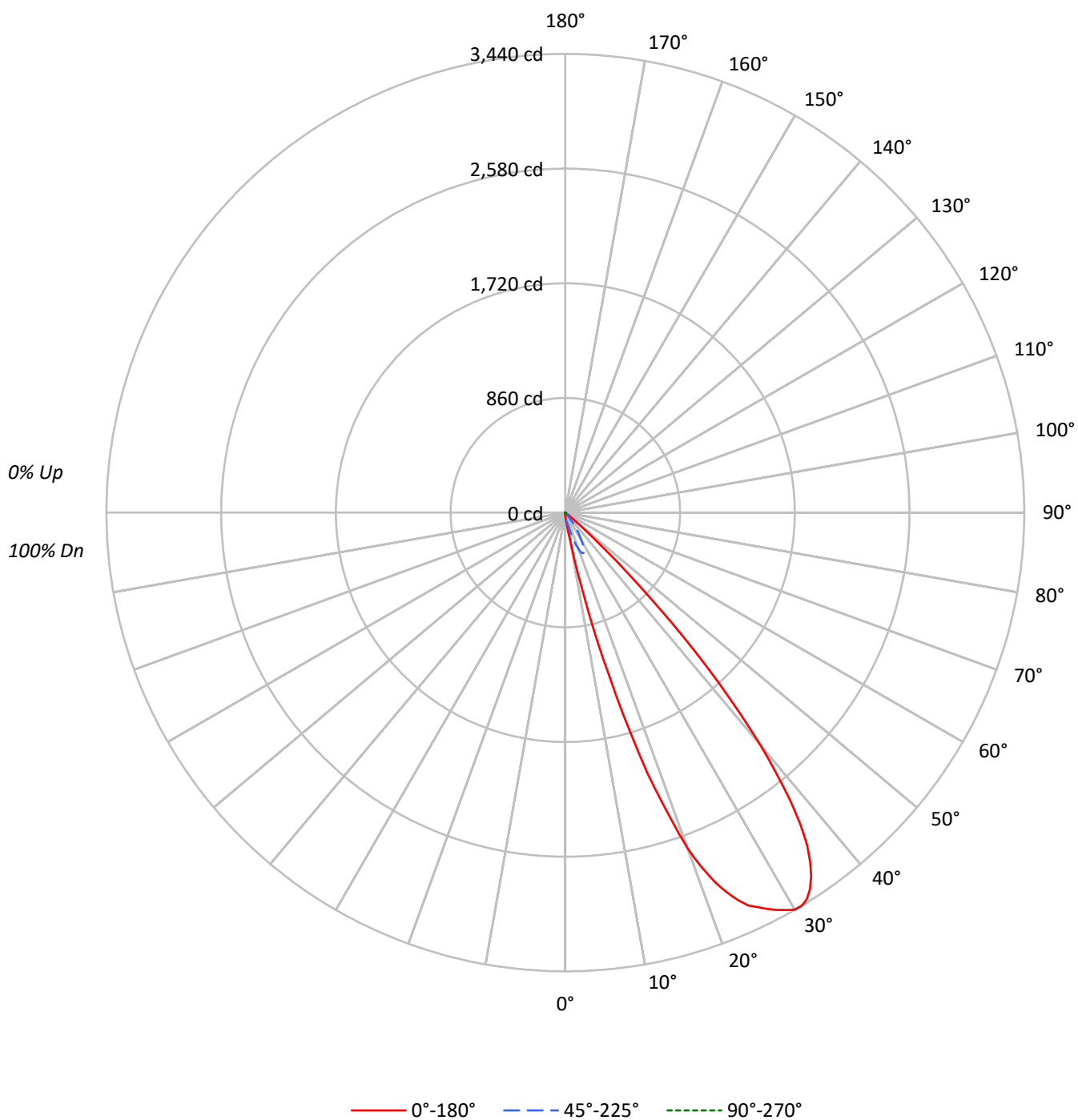
Lumens per Lamp: N/A
Luminaire Lumens: 674.0 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1305728

CATALOG NUMBER: P3SQAS09R259024DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1305728

CATALOG NUMBER: P3SQAS09R259024DE010 E3SQCA301MMS

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
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°	3668	3668	3668	3668	3668
5°	11497	8039	3354	1781	1331
10°	36235	14567	2483	227	0
15°	224103	27743	1498	0	0
20°	491362	54066	477	0	0
25°	617663	62196	0	0	0
30°	683740	48145	0	0	0
35°	673057	27290	0	0	0
40°	511602	7104	0	0	0
45°	207221	3142	0	0	0
50°	23015	348	0	0	0
55°	1742	0	180	0	0
60°	0	0	207	0	0
65°	0	0	530	0	0
70°	0	302	655	0	0
75°	0	399	1264	0	0
80°	0	595	1884	0	0
85°	0	1186	3754	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 207221 cd/sqm

TEST NUMBER: P1305728

CATALOG NUMBER: P3SQAS09R259024DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.5
10°-20°	69.6	10.3
20°-30°	243.4	36.1
30°-40°	271.5	40.3
40°-50°	82.0	12.2
50°-60°	2.7	0.4
60°-70°	0.4	0.1
70°-80°	0.6	0.1
80°-90°	0.5	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°	316.3	46.9
0°-40°	587.8	87.2
0°-60°	672.5	99.8
0°-90°	674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	674.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	66	46	19	10	8	10
15°	1257	156	8	0	0	418
25°	3250	327	0	0	0	1483
35°	3201	130	0	0	0	1922
45°	851	13	0	0	0	735
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	

TEST NUMBER: P1305728

CATALOG NUMBER: P3SQAS09R259024DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
2.5°	36.8	38.1	37.4	38.1	37.4	37.4	37.4	38.1	37.4	37.4	37.4
5°	66.5	67.1	67.1	66.5	66.5	67.8	66.5	67.1	65.2	66.5	65.8
7.5°	109.1	107.8	107.8	108.5	108.5	107.2	106.5	105.2	106.5	106.5	104.6
10°	207.2	205.9	202.7	201.4	202.7	202.7	196.2	197.5	198.2	192.4	190.4
12.5°	608.8	604.2	613.3	599.1	590.7	577.1	584.9	558.4	552.6	548.7	539.7
15°	1256.9	1291.1	1276.3	1277.6	1280.1	1247.9	1258.8	1218.8	1185.2	1174.9	1167.8
17.5°	2049.6	2060.0	2046.4	2040.0	2037.4	2021.9	2003.2	1983.2	1957.3	1934.7	1916.0
20°	2681.0	2673.3	2650.0	2652.6	2624.8	2610.6	2594.5	2574.5	2554.5	2521.6	2489.9
21°	2847.6	2825.0	2825.6	2810.1	2809.5	2791.4	2763.0	2742.3	2724.3	2686.8	2666.8
22°	2984.4	2979.3	2967.6	2956.0	2943.7	2934.7	2903.1	2892.7	2856.0	2825.0	2796.6
23°	3090.9	3092.9	3082.5	3074.8	3058.0	3054.1	3013.5	2999.3	2974.1	2927.0	2897.9
24°	3179.4	3176.1	3164.5	3151.0	3141.3	3132.2	3101.3	3078.0	3050.3	3011.5	2983.1
25°	3250.4	3242.6	3234.9	3224.6	3209.1	3198.7	3167.1	3141.3	3117.4	3074.1	3035.4
26°	3292.3	3294.3	3282.0	3274.3	3260.7	3250.4	3217.5	3187.1	3157.4	3110.9	3076.1
27°	3335.0	3333.0	3322.0	3310.4	3296.2	3292.3	3254.3	3222.6	3192.3	3143.2	3101.9
28°	3374.3	3369.2	3360.1	3346.6	3331.1	3319.5	3282.7	3249.7	3216.8	3164.5	3119.3
29°	3407.3	3402.1	3396.3	3378.9	3358.8	3351.1	3311.7	3271.7	3238.8	3185.2	3137.4
30°	3438.2	3428.6	3415.0	3400.2	3380.8	3365.9	3324.6	3289.8	3251.0	3191.6	3145.8
31°	3439.5	3426.6	3416.9	3401.4	3379.5	3361.4	3318.2	3282.7	3237.5	3182.0	3132.2
32°	3416.9	3410.5	3395.0	3378.2	3356.9	3338.8	3291.1	3253.6	3211.0	3151.6	3101.9
33°	3365.9	3359.5	3350.4	3333.0	3305.3	3288.5	3245.9	3204.6	3162.6	3109.0	3052.2
34°	3295.6	3287.8	3276.2	3258.8	3230.4	3212.9	3178.7	3136.1	3091.6	3036.1	2983.1
35°	3201.3	3186.5	3183.2	3157.4	3131.0	3126.4	3085.8	3041.2	2996.0	2934.7	2888.9
36°	3084.5	3067.0	3055.4	3046.4	3029.0	3007.7	2967.6	2932.1	2874.0	2834.6	2770.1
37°	2925.0	2903.7	2914.7	2890.2	2863.1	2854.0	2803.0	2770.7	2721.7	2668.1	2613.2
38°	2739.1	2737.2	2734.6	2723.6	2677.1	2653.2	2631.9	2597.7	2555.1	2490.6	2416.3
39°	2504.1	2508.0	2494.4	2495.7	2472.5	2448.6	2418.9	2380.2	2328.5	2269.8	2209.7
40°	2275.6	2220.7	2230.4	2197.5	2199.4	2163.9	2125.2	2091.0	2058.0	2006.4	1924.4
42.5°	1574.5	1566.1	1537.1	1516.4	1525.5	1479.6	1428.6	1380.8	1335.0	1276.9	1205.3
45°	850.8	831.5	837.3	803.7	803.7	783.1	768.9	728.8	686.2	659.8	618.4
47.5°	316.3	320.2	327.3	313.7	298.2	307.3	293.7	293.7	286.6	278.2	266.6
50°	85.9	87.2	85.9	85.9	83.9	82.6	80.0	79.4	78.8	76.8	73.6
52.5°	34.9	32.9	32.9	33.6	33.6	32.3	32.9	32.9	32.3	31.6	31.6
55°	5.8	6.5	6.5	6.5	6.5	5.8	5.8	6.5	7.1	6.5	6.5
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



TEST NUMBER: P1305728

CATALOG NUMBER: P3SQAS09R259024DE010 E3SQCA301MMS

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

TEST NUMBER: P1305728

CATALOG NUMBER: P3SQAS09R259024DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
2.5°	36.2	31.6	26.5	21.9	17.4	14.8	13.6	14.2
5°	61.3	46.5	30.3	19.4	13.6	10.3	8.4	7.7
7.5°	94.3	63.9	34.2	16.8	10.3	5.2	3.2	2.6
10°	144.6	83.3	36.8	14.2	6.5	1.3	0.0	0.0
12.5°	371.2	102.0	37.4	11.6	2.6	0.0	0.0	0.0
15°	763.1	155.6	36.2	8.4	0.6	0.0	0.0	0.0
17.5°	1268.5	238.2	31.6	5.8	0.0	0.0	0.0	0.0
20°	1759.8	295.0	25.2	2.6	0.0	0.0	0.0	0.0
21°	1907.6	311.8	22.6	1.9	0.0	0.0	0.0	0.0
22°	2028.3	324.1	20.0	1.3	0.0	0.0	0.0	0.0
23°	2129.1	330.5	17.4	0.6	0.0	0.0	0.0	0.0
24°	2199.4	331.8	16.1	0.6	0.0	0.0	0.0	0.0
25°	2233.0	327.3	14.2	0.0	0.0	0.0	0.0	0.0
26°	2245.9	318.3	12.9	0.0	0.0	0.0	0.0	0.0
27°	2236.2	306.6	11.6	0.0	0.0	0.0	0.0	0.0
28°	2218.8	289.2	9.7	0.0	0.0	0.0	0.0	0.0
29°	2184.6	266.0	8.4	0.0	0.0	0.0	0.0	0.0
30°	2151.6	242.1	7.1	0.0	0.0	0.0	0.0	0.0
31°	2114.2	220.8	5.8	0.0	0.0	0.0	0.0	0.0
32°	2068.4	196.2	4.5	0.0	0.0	0.0	0.0	0.0
33°	1992.2	173.7	3.2	0.0	0.0	0.0	0.0	0.0
34°	1885.7	152.4	2.6	0.0	0.0	0.0	0.0	0.0
35°	1743.0	129.8	1.9	0.0	0.0	0.0	0.0	0.0
36°	1586.8	105.9	1.3	0.0	0.0	0.0	0.0	0.0
37°	1395.7	76.8	1.3	0.0	0.0	0.0	0.0	0.0
38°	1196.2	48.4	0.6	0.0	0.0	0.0	0.0	0.0
39°	992.2	36.8	0.6	0.0	0.0	0.0	0.0	0.0
40°	805.7	31.6	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	431.2	21.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	254.4	12.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	142.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0
50°	51.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7.1	0.0	0.0	0.6	0.0	0.0	0.0	0.0
57.5°	0.6	0.0	0.6	0.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.6	1.3	0.0	0.0	0.0	0.0
65°	0.0	0.0	1.3	1.3	0.6	0.0	0.0	0.0
67.5°	0.0	0.6	1.3	1.3	0.6	0.0	0.0	0.0
70°	0.0	0.6	1.3	1.3	0.6	0.0	0.0	0.0
72.5°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
75°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
77.5°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
80°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0



TEST NUMBER: P1305728

CATALOG NUMBER: P3SQAS09R259024DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
85°	0.0	0.6	1.3	1.9	0.6	0.0	0.0	0.0
87.5°	0.0	0.6	1.3	1.9	0.6	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)