

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: P1312249

Luminaire Tested: P3SQAS09R259727DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312249
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: P3SQAS09R259727DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

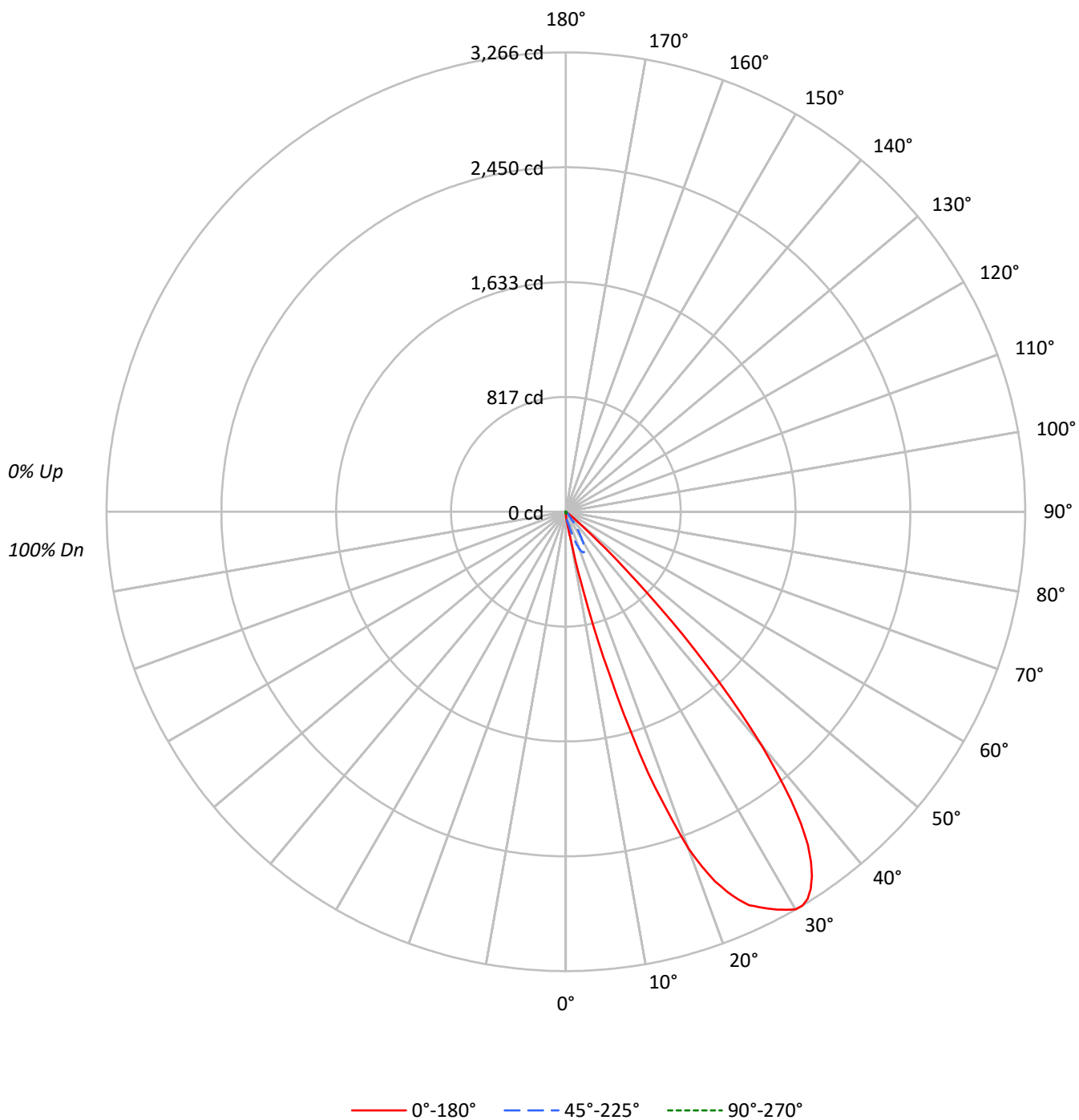
Lumens per Lamp: N/A
Luminaire Lumens: 640.0 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			
RC	80				70				50				30				10			
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	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°	3479	3479	3479	3479	3479
5°	10909	7624	3181	1694	1279
10°	34416	13833	2361	210	0
15°	212799	26335	1426	0	0
20°	466583	51335	458	0	0
25°	586498	59060	0	0	0
30°	649256	45719	0	0	0
35°	639103	25902	0	0	0
40°	485793	6745	0	0	0
45°	196772	2996	0	0	0
50°	21836	322	0	0	0
55°	1651	0	180	0	0
60°	0	0	207	0	0
65°	0	0	489	0	0
70°	0	302	604	0	0
75°	0	399	1198	0	0
80°	0	595	1785	0	0
85°	0	1186	3557	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 196772 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.5
10°-20°	66.1	10.3
20°-30°	231.1	36.1
30°-40°	257.8	40.3
40°-50°	77.9	12.2
50°-60°	2.6	0.4
60°-70°	0.3	0.1
70°-80°	0.5	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°	300.3	46.9
0°-40°	558.1	87.2
0°-60°	638.6	99.8
0°-90°	640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	640.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	63	44	18	10	7	10
15°	1194	148	8	0	0	397
25°	3086	311	0	0	0	1408
35°	3040	123	0	0	0	1825
45°	808	12	0	0	0	698
55°	6	0	1	0	0	17
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°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
2.5°	34.9	36.2	35.6	36.2	35.6	35.6	35.6	36.2	35.6	35.6	35.6
5°	63.1	63.8	63.8	63.1	63.1	64.4	63.1	63.8	61.9	63.1	62.5
7.5°	103.6	102.4	102.4	103.0	103.0	101.8	101.1	99.9	101.1	101.1	99.3
10°	196.8	195.5	192.5	191.3	192.5	192.5	186.3	187.6	188.2	182.7	180.8
12.5°	578.1	573.8	582.3	568.9	560.9	548.0	555.4	530.2	524.7	521.0	512.5
15°	1193.5	1226.0	1211.9	1213.1	1215.6	1184.9	1195.3	1157.3	1125.5	1115.6	1108.9
17.5°	1946.3	1956.1	1943.2	1937.1	1934.6	1919.9	1902.1	1883.1	1858.6	1837.1	1819.4
20°	2545.8	2538.4	2516.3	2518.8	2492.4	2478.9	2463.6	2444.6	2425.6	2394.4	2364.3
21°	2703.9	2682.5	2683.1	2668.4	2667.7	2650.6	2623.6	2604.0	2586.8	2551.3	2532.3
22°	2833.9	2829.0	2817.9	2806.9	2795.2	2786.7	2756.6	2746.8	2711.9	2682.5	2655.5
23°	2935.0	2936.9	2927.0	2919.7	2903.7	2900.1	2861.5	2848.0	2824.1	2779.3	2751.7
24°	3019.0	3015.9	3004.9	2992.0	2982.8	2974.2	2944.8	2922.8	2896.4	2859.6	2832.6
25°	3086.4	3079.1	3071.7	3061.9	3047.2	3037.4	3007.3	2982.8	2960.1	2919.1	2882.3
26°	3126.3	3128.1	3116.5	3109.1	3096.2	3086.4	3055.2	3026.3	2998.1	2954.0	2920.9
27°	3166.7	3164.9	3154.5	3143.4	3129.9	3126.3	3090.1	3060.1	3031.3	2984.7	2945.4
28°	3204.1	3199.2	3190.6	3177.8	3163.0	3152.0	3117.1	3085.8	3054.5	3004.9	2962.0
29°	3235.4	3230.5	3225.0	3208.4	3189.4	3182.0	3144.7	3106.6	3075.4	3024.5	2979.1
30°	3264.8	3255.6	3242.7	3228.6	3210.2	3196.1	3156.9	3123.8	3087.0	3030.6	2987.1
31°	3266.0	3253.8	3244.6	3229.9	3209.0	3191.9	3150.8	3117.1	3074.2	3021.4	2974.2
32°	3244.6	3238.4	3223.7	3207.8	3187.6	3170.4	3125.0	3089.5	3049.0	2992.6	2945.4
33°	3196.1	3190.0	3181.4	3164.9	3138.5	3122.6	3082.1	3042.9	3003.1	2952.2	2898.2
34°	3129.3	3122.0	3110.9	3094.4	3067.4	3050.9	3018.4	2977.9	2935.6	2882.9	2832.6
35°	3039.8	3025.7	3022.7	2998.1	2973.0	2968.7	2930.1	2887.8	2844.9	2786.7	2743.1
36°	2928.9	2912.3	2901.3	2892.7	2876.2	2855.9	2817.9	2784.2	2729.0	2691.7	2630.4
37°	2777.5	2757.2	2767.7	2744.4	2718.6	2710.0	2661.6	2631.0	2584.4	2533.5	2481.4
38°	2600.9	2599.1	2596.6	2586.2	2542.1	2519.4	2499.2	2466.7	2426.2	2364.9	2294.4
39°	2377.8	2381.5	2368.6	2369.8	2347.8	2325.1	2296.9	2260.1	2211.1	2155.3	2098.3
40°	2160.8	2108.7	2117.9	2086.6	2088.5	2054.8	2018.0	1985.5	1954.2	1905.2	1827.3
42.5°	1495.1	1487.1	1459.5	1439.9	1448.5	1405.0	1356.6	1311.2	1267.7	1212.5	1144.5
45°	807.9	789.5	795.1	763.2	763.2	743.6	730.1	692.1	651.6	626.5	587.2
47.5°	300.4	304.0	310.8	297.9	283.2	291.8	278.9	278.9	272.2	264.2	253.2
50°	81.5	82.8	81.5	81.5	79.7	78.5	76.0	75.4	74.8	72.9	69.9
52.5°	33.1	31.3	31.3	31.9	31.9	30.6	31.3	31.3	30.6	30.0	30.0
55°	5.5	6.1	6.1	6.1	6.1	5.5	5.5	6.1	6.7	6.1	6.1
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°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
2.5°	34.3	30.0	25.1	20.8	16.6	14.1	12.9	13.5
5°	58.2	44.1	28.8	18.4	12.9	9.8	8.0	7.4
7.5°	89.5	60.7	32.5	15.9	9.8	4.9	3.1	2.5
10°	137.3	79.1	34.9	13.5	6.1	1.2	0.0	0.0
12.5°	352.5	96.9	35.6	11.0	2.5	0.0	0.0	0.0
15°	724.6	147.7	34.3	8.0	0.6	0.0	0.0	0.0
17.5°	1204.5	226.2	30.0	5.5	0.0	0.0	0.0	0.0
20°	1671.0	280.1	23.9	2.5	0.0	0.0	0.0	0.0
21°	1811.4	296.1	21.5	1.8	0.0	0.0	0.0	0.0
22°	1926.0	307.7	19.0	1.2	0.0	0.0	0.0	0.0
23°	2021.7	313.9	16.6	0.6	0.0	0.0	0.0	0.0
24°	2088.5	315.1	15.3	0.6	0.0	0.0	0.0	0.0
25°	2120.3	310.8	13.5	0.0	0.0	0.0	0.0	0.0
26°	2132.6	302.2	12.3	0.0	0.0	0.0	0.0	0.0
27°	2123.4	291.2	11.0	0.0	0.0	0.0	0.0	0.0
28°	2106.9	274.6	9.2	0.0	0.0	0.0	0.0	0.0
29°	2074.4	252.6	8.0	0.0	0.0	0.0	0.0	0.0
30°	2043.1	229.9	6.7	0.0	0.0	0.0	0.0	0.0
31°	2007.6	209.6	5.5	0.0	0.0	0.0	0.0	0.0
32°	1964.0	186.3	4.3	0.0	0.0	0.0	0.0	0.0
33°	1891.7	164.9	3.1	0.0	0.0	0.0	0.0	0.0
34°	1790.6	144.7	2.5	0.0	0.0	0.0	0.0	0.0
35°	1655.1	123.2	1.8	0.0	0.0	0.0	0.0	0.0
36°	1506.7	100.5	1.2	0.0	0.0	0.0	0.0	0.0
37°	1325.3	72.9	1.2	0.0	0.0	0.0	0.0	0.0
38°	1135.9	46.0	0.6	0.0	0.0	0.0	0.0	0.0
39°	942.2	34.9	0.6	0.0	0.0	0.0	0.0	0.0
40°	765.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	409.5	20.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	241.5	12.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	134.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	48.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.7	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	1.2	0.0	0.0	0.0	0.0
65°	0.0	0.0	1.2	1.2	0.6	0.0	0.0	0.0
67.5°	0.0	0.6	1.2	1.2	0.6	0.0	0.0	0.0
70°	0.0	0.6	1.2	1.2	0.6	0.0	0.0	0.0
72.5°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
75°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
77.5°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
80°	0.0	0.6	1.2	1.8	0.6	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	0.6	1.2	1.8	0.6	0.0	0.0	0.0
85°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
87.5°	0.0	0.6	1.2	1.8	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)