

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: P1306528

Luminaire Tested: P3SQAS05R209027DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306528
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: P3SQAS05R209027DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

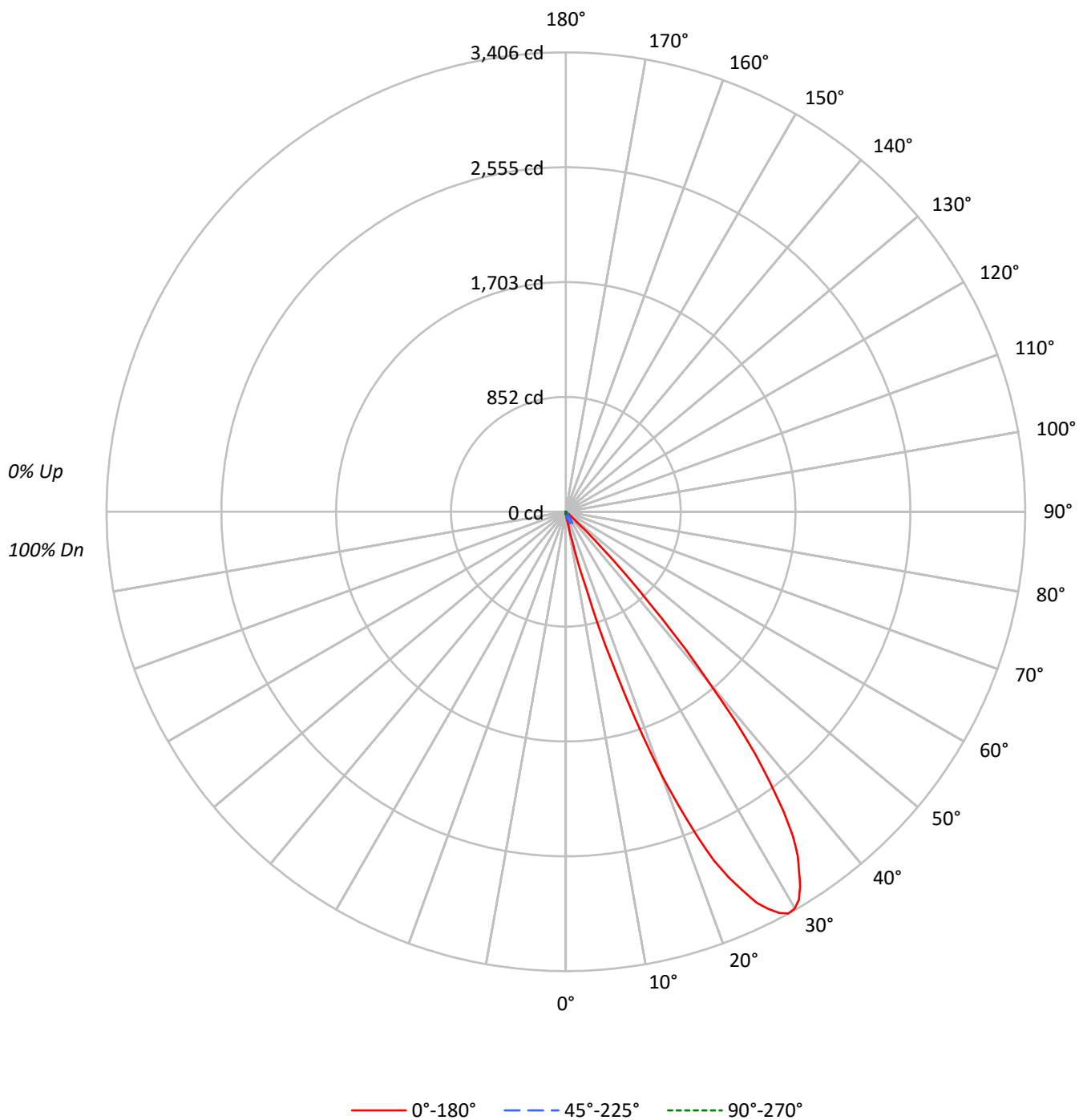
Lumens per Lamp: N/A
Luminaire Lumens: 470.0 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1306528

CATALOG NUMBER: P3SQAS05R209027DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1306528

CATALOG NUMBER: P3SQAS05R209027DE010 E3SQCA301MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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	49		
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°	2893	2893	2893	2893	2893
5°	6310	4443	2662	1210	882
10°	15687	7852	1889	245	0
15°	110420	10751	1088	0	0
20°	381653	18071	422	0	0
25°	588285	23088	171	0	0
30°	675228	17838	0	0	0
35°	616670	6791	0	0	0
40°	369695	3147	0	0	0
45°	90848	1486	0	0	0
50°	10021	375	0	0	0
55°	1411	0	150	0	0
60°	0	0	310	0	0
65°	0	0	367	0	0
70°	0	252	705	0	0
75°	0	333	932	0	0
80°	0	496	1389	0	0
85°	0	988	2766	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 96888 cd/sqm

TEST NUMBER: P1306528

CATALOG NUMBER: P3SQAS05R209027DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.4
10°-20°	36.7	7.8
20°-30°	185.7	39.5
30°-40°	200.9	42.7
40°-50°	42.4	9.0
50°-60°	1.3	0.3
60°-70°	0.3	0.1
70°-80°	0.4	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°	224.3	47.7
0°-40°	425.2	90.5
0°-60°	468.9	99.8
0°-90°	470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	470.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	36	26	15	7	5	5
15°	619	60	6	0	0	258
25°	3096	122	1	0	0	1399
35°	2933	32	0	0	0	1730
45°	373	6	0	0	0	410
55°	5	0	0	0	0	8
65°	0	0	1	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1306528

CATALOG NUMBER: P3SQAS05R209027DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
2.5°	22.9	22.4	22.9	22.4	22.9	22.9	22.9	22.4	22.4	22.4	22.4
5°	36.5	36.5	36.0	36.5	36.5	36.5	36.5	36.0	36.0	35.5	35.5
7.5°	57.5	57.5	57.0	57.0	57.5	58.0	56.1	57.0	57.0	57.0	56.6
10°	89.7	91.6	89.7	92.1	90.2	88.8	91.1	88.8	88.8	88.3	86.9
12.5°	226.2	221.1	217.8	209.9	217.8	211.7	213.1	211.7	207.1	201.0	197.3
15°	619.3	619.3	601.1	625.4	607.7	614.2	580.5	581.0	563.7	545.0	534.7
17.5°	1294.8	1306.5	1294.3	1286.8	1270.9	1248.0	1238.7	1214.9	1183.5	1147.1	1142.9
20°	2082.4	2033.3	2056.2	2035.2	2022.1	1994.1	1962.7	1943.1	1915.5	1869.3	1801.0
21°	2330.1	2328.3	2327.8	2327.3	2308.2	2262.4	2233.9	2194.6	2155.8	2108.1	2051.1
22°	2579.8	2588.6	2592.4	2565.3	2526.0	2505.4	2485.8	2432.0	2370.8	2346.0	2278.3
23°	2808.8	2800.4	2776.1	2763.5	2733.1	2727.0	2668.6	2634.4	2574.6	2547.5	2467.1
24°	2964.9	2960.7	2949.5	2930.8	2906.5	2869.1	2834.0	2780.3	2731.2	2686.8	2612.0
25°	3095.8	3099.5	3079.0	3066.4	3040.2	2998.1	2955.1	2896.2	2850.4	2798.5	2712.0
26°	3225.3	3199.1	3182.7	3164.0	3135.5	3087.4	3045.8	2993.0	2937.3	2879.4	2794.8
27°	3305.2	3281.8	3257.1	3238.8	3206.1	3160.3	3115.9	3057.5	2995.3	2936.9	2849.9
28°	3368.3	3342.6	3318.3	3296.3	3258.9	3209.9	3156.6	3097.2	3032.7	2972.4	2883.6
29°	3405.7	3375.3	3349.1	3324.4	3290.3	3237.0	3183.2	3119.6	3057.5	2994.4	2903.7
30°	3395.4	3369.2	3344.0	3318.8	3284.2	3234.2	3180.9	3120.1	3057.5	2995.3	2903.2
31°	3355.2	3323.0	3304.7	3279.5	3249.6	3198.6	3152.8	3086.5	3029.9	2962.6	2870.5
32°	3278.1	3257.5	3233.2	3213.6	3184.6	3130.4	3085.5	3031.3	2964.5	2909.3	2812.5
33°	3173.4	3154.2	3142.1	3119.2	3091.1	3053.7	3000.0	2950.4	2875.2	2818.6	2721.9
34°	3073.4	3049.1	3018.7	3012.1	2987.8	2939.7	2891.1	2840.6	2773.3	2701.3	2603.6
35°	2933.1	2907.9	2879.8	2882.2	2853.2	2797.1	2747.6	2691.0	2627.0	2542.4	2449.8
36°	2745.7	2728.9	2724.7	2713.4	2680.3	2613.4	2566.2	2495.1	2441.4	2338.1	2258.6
37°	2517.1	2523.2	2492.8	2478.3	2439.5	2392.8	2366.1	2275.0	2212.4	2134.8	2027.3
38°	2286.2	2277.3	2241.3	2250.2	2196.9	2148.3	2073.1	2018.8	1948.7	1876.7	1790.7
39°	1997.8	1975.8	1932.8	1934.7	1894.5	1839.8	1766.9	1702.9	1660.8	1591.6	1509.3
40°	1644.4	1635.1	1620.1	1595.3	1542.5	1518.7	1453.7	1384.5	1349.0	1253.2	1213.0
42.5°	912.4	899.8	874.6	865.7	837.6	809.6	771.7	725.5	703.0	674.5	610.9
45°	373.0	397.8	391.7	384.7	363.2	364.6	337.5	340.8	316.0	299.2	287.5
47.5°	82.3	89.3	89.7	86.5	89.7	86.9	85.5	83.2	83.7	85.1	81.8
50°	37.4	36.9	37.9	37.4	36.9	36.5	36.0	34.6	35.5	34.6	33.7
52.5°	14.5	15.0	15.0	14.0	14.5	14.5	14.5	14.0	14.0	14.0	14.0
55°	4.7	4.7	4.7	4.2	4.2	4.7	4.7	4.7	4.7	4.7	4.2
57.5°	0.5	0.9	0.5	0.9	0.5	0.5	0.5	0.5	0.5	0.9	0.9
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: P1306528

CATALOG NUMBER: P3SQAS05R209027DE010 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: P1306528

CATALOG NUMBER: P3SQAS05R209027DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
2.5°	21.5	19.6	18.2	16.8	14.0	11.7	10.8	10.8
5°	33.2	25.7	19.2	15.4	10.8	7.0	5.6	5.1
7.5°	50.0	34.6	20.1	13.1	7.0	3.7	2.3	1.9
10°	72.5	44.9	21.0	10.8	4.2	1.4	0.0	0.0
12.5°	126.7	53.8	21.0	8.4	1.9	0.0	0.0	0.0
15°	290.3	60.3	20.1	6.1	0.5	0.0	0.0	0.0
17.5°	603.0	75.7	17.8	4.2	0.0	0.0	0.0	0.0
20°	962.9	98.6	14.0	2.3	0.0	0.0	0.0	0.0
21°	1111.1	106.6	12.6	1.9	0.0	0.0	0.0	0.0
22°	1217.7	114.1	11.2	1.4	0.0	0.0	0.0	0.0
23°	1335.0	118.7	9.8	0.9	0.0	0.0	0.0	0.0
24°	1421.5	121.5	8.4	0.9	0.0	0.0	0.0	0.0
25°	1475.2	121.5	7.5	0.9	0.0	0.0	0.0	0.0
26°	1507.0	118.7	6.5	0.5	0.0	0.0	0.0	0.0
27°	1514.5	114.1	5.6	0.5	0.0	0.0	0.0	0.0
28°	1505.1	108.0	4.7	0.0	0.0	0.0	0.0	0.0
29°	1475.7	99.1	4.2	0.0	0.0	0.0	0.0	0.0
30°	1443.9	89.7	3.3	0.0	0.0	0.0	0.0	0.0
31°	1389.7	77.1	2.8	0.0	0.0	0.0	0.0	0.0
32°	1327.0	64.0	2.3	0.0	0.0	0.0	0.0	0.0
33°	1243.4	50.5	1.9	0.0	0.0	0.0	0.0	0.0
34°	1120.0	39.7	1.9	0.0	0.0	0.0	0.0	0.0
35°	1009.2	32.3	1.4	0.0	0.0	0.0	0.0	0.0
36°	864.3	25.7	1.4	0.0	0.0	0.0	0.0	0.0
37°	740.4	21.5	1.4	0.0	0.0	0.0	0.0	0.0
38°	619.8	18.2	0.9	0.0	0.0	0.0	0.0	0.0
39°	503.0	15.9	0.9	0.0	0.0	0.0	0.0	0.0
40°	401.1	14.0	0.9	0.0	0.0	0.0	0.0	0.0
42.5°	216.4	9.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	119.7	6.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	52.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	17.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.2	0.0	0.0	0.5	0.0	0.0	0.0	0.0
57.5°	0.9	0.0	0.0	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.5	0.9	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.5	0.9	0.5	0.0	0.0	0.0
65°	0.0	0.0	0.9	0.9	0.5	0.0	0.0	0.0
67.5°	0.0	0.5	0.9	1.4	0.5	0.0	0.0	0.0
70°	0.0	0.5	0.9	1.4	0.5	0.0	0.0	0.0
72.5°	0.0	0.5	0.9	1.4	0.5	0.0	0.0	0.0
75°	0.0	0.5	0.9	1.4	0.5	0.0	0.0	0.0
77.5°	0.0	0.5	0.9	1.4	0.5	0.0	0.0	0.0
80°	0.0	0.5	0.9	1.4	0.5	0.0	0.0	0.0



TEST NUMBER: P1306528

CATALOG NUMBER: P3SQAS05R209027DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.5	0.9	1.4	0.5	0.0	0.0	0.0
85°	0.0	0.5	0.9	1.4	0.5	0.0	0.0	0.0
87.5°	0.0	0.5	0.9	1.4	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)