

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: P1314021

Luminaire Tested: P3SQAS05R209735DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314021
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: P3SQAS05R209735DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

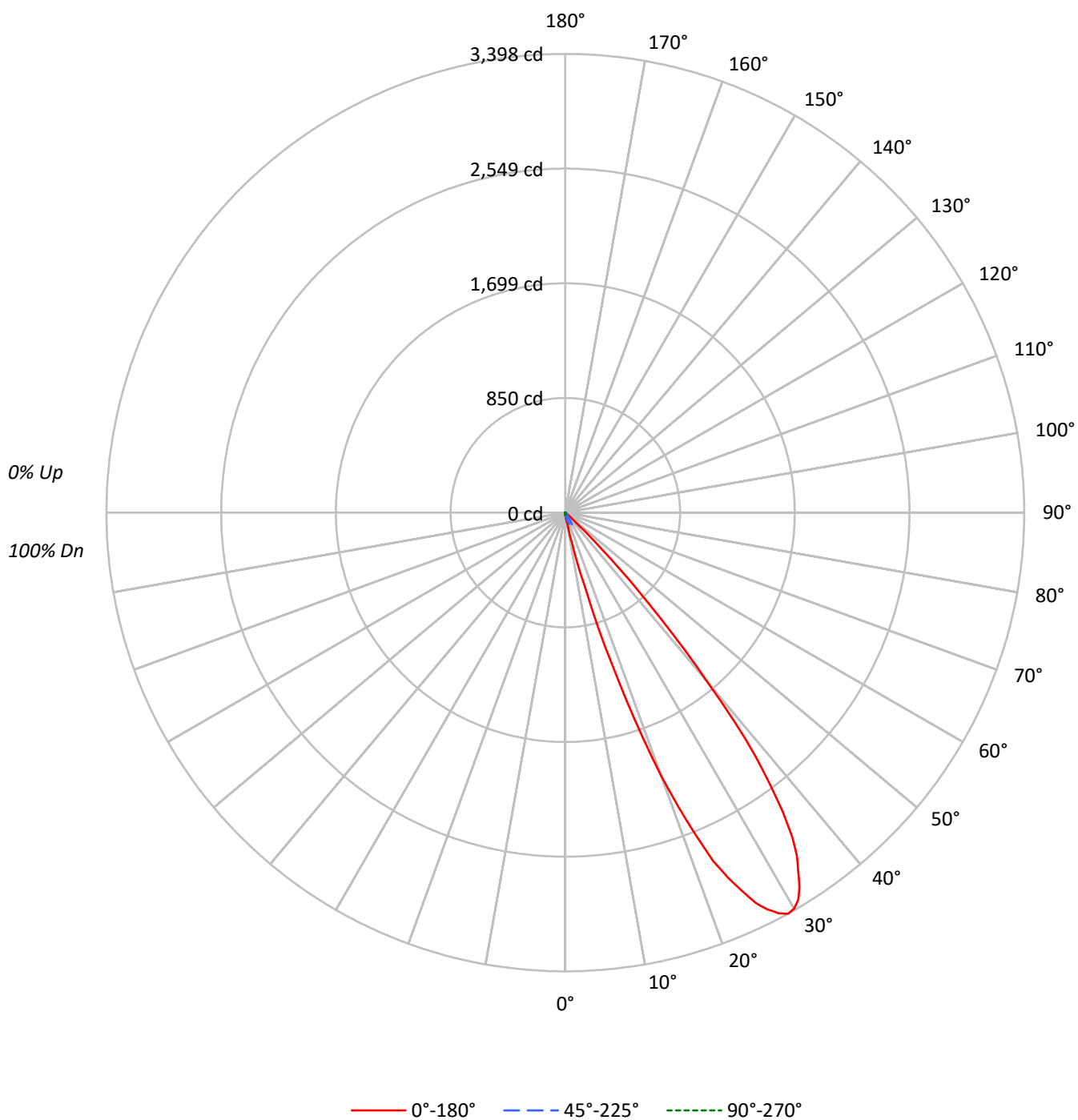
Lumens per Lamp: N/A
Luminaire Lumens: 469.0 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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			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°	6293	4443	2662	1210	882
10°	15669	7835	1871	245	0
15°	110188	10734	1088	0	0
20°	380847	18034	422	0	0
25°	587030	23050	171	0	0
30°	673796	17818	0	0	0
35°	615366	6770	0	0	0
40°	368908	3147	0	0	0
45°	90653	1486	0	0	0
50°	9994	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: 96669 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.4
10°-20°	36.6	7.8
20°-30°	185.3	39.5
30°-40°	200.5	42.7
40°-50°	42.3	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°	223.8	47.7
0°-40°	424.3	90.5
0°-60°	467.9	99.8
0°-90°	469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	469.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	36	26	15	7	5	5
15°	618	60	6	0	0	258
25°	3089	121	1	0	0	1396
35°	2927	32	0	0	0	1726
45°	372	6	0	0	0	409
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	

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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°	36.4	36.4	35.9	36.4	36.4	36.4	36.4	35.9	35.9	35.4	35.4
7.5°	57.4	57.4	56.9	56.9	57.4	57.8	56.0	56.9	56.9	56.9	56.4
10°	89.6	91.4	89.6	91.9	90.0	88.6	91.0	88.6	88.6	88.2	86.8
12.5°	225.8	220.6	217.4	209.4	217.4	211.3	212.7	211.3	206.6	200.6	196.8
15°	618.0	618.0	599.8	624.1	606.4	612.9	579.3	579.8	562.5	543.9	533.6
17.5°	1292.0	1303.7	1291.6	1284.1	1268.2	1245.4	1236.1	1212.3	1181.0	1144.6	1140.4
20°	2078.0	2029.0	2051.9	2030.9	2017.8	1989.8	1958.6	1939.0	1911.5	1865.3	1797.2
21°	2325.2	2323.3	2322.9	2322.4	2303.3	2257.6	2229.1	2189.9	2151.2	2103.6	2046.7
22°	2574.3	2583.1	2586.9	2559.8	2520.6	2500.1	2480.5	2426.9	2365.8	2341.0	2273.4
23°	2802.8	2794.4	2770.2	2757.6	2727.3	2721.2	2662.9	2628.8	2569.1	2542.1	2461.9
24°	2958.6	2954.4	2943.2	2924.6	2900.3	2863.0	2828.0	2774.4	2725.4	2681.1	2606.4
25°	3089.2	3092.9	3072.4	3059.8	3033.7	2991.7	2948.8	2890.0	2844.3	2792.6	2706.3
26°	3218.4	3192.3	3176.0	3157.3	3128.9	3080.8	3039.3	2986.6	2931.1	2873.3	2788.8
27°	3298.2	3274.9	3250.1	3231.9	3199.3	3153.6	3109.3	3051.0	2988.9	2930.6	2843.9
28°	3361.1	3335.5	3311.2	3289.3	3252.0	3203.0	3149.8	3090.6	3026.2	2966.1	2877.4
29°	3398.5	3368.1	3342.0	3317.3	3283.2	3230.1	3176.4	3113.0	3051.0	2988.0	2897.5
30°	3388.2	3362.1	3336.9	3311.7	3277.2	3227.3	3174.1	3113.5	3051.0	2988.9	2897.0
31°	3348.1	3315.9	3297.7	3272.5	3242.7	3191.8	3146.1	3079.9	3023.4	2956.3	2864.4
32°	3271.1	3250.6	3226.3	3206.8	3177.8	3123.7	3079.0	3024.8	2958.1	2903.1	2806.6
33°	3166.6	3147.5	3135.4	3112.5	3084.5	3047.2	2993.6	2944.2	2869.1	2812.6	2716.1
34°	3066.8	3042.6	3012.3	3005.7	2981.5	2933.4	2884.9	2834.5	2767.4	2695.5	2598.1
35°	2926.9	2901.7	2873.7	2876.1	2847.1	2791.2	2741.7	2685.3	2621.4	2537.0	2444.6
36°	2739.9	2723.1	2718.9	2707.7	2674.5	2607.8	2560.7	2489.8	2436.2	2333.1	2253.8
37°	2511.8	2517.8	2487.5	2473.0	2434.3	2387.7	2361.1	2270.1	2207.6	2130.2	2022.9
38°	2281.3	2272.5	2236.6	2245.4	2192.3	2143.7	2068.6	2014.5	1944.6	1872.7	1786.9
39°	1993.6	1971.6	1928.7	1930.6	1890.5	1835.9	1763.1	1699.2	1657.3	1588.2	1506.1
40°	1640.9	1631.6	1616.7	1591.9	1539.2	1515.5	1450.6	1381.6	1346.1	1250.5	1210.4
42.5°	910.5	897.9	872.7	863.8	835.9	807.9	770.1	723.9	701.5	673.1	609.6
45°	372.2	396.9	390.9	383.9	362.4	363.8	336.8	340.0	315.3	298.5	286.9
47.5°	82.1	89.1	89.6	86.3	89.6	86.8	85.4	83.0	83.5	84.9	81.6
50°	37.3	36.8	37.8	37.3	36.8	36.4	35.9	34.5	35.4	34.5	33.6
52.5°	14.5	14.9	14.9	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



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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°	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	10.7	10.7
5°	33.1	25.7	19.1	15.4	10.7	7.0	5.6	5.1
7.5°	49.9	34.5	20.1	13.1	7.0	3.7	2.3	1.9
10°	72.3	44.8	21.0	10.7	4.2	1.4	0.0	0.0
12.5°	126.4	53.6	21.0	8.4	1.9	0.0	0.0	0.0
15°	289.7	60.2	20.1	6.1	0.5	0.0	0.0	0.0
17.5°	601.7	75.6	17.7	4.2	0.0	0.0	0.0	0.0
20°	960.9	98.4	14.0	2.3	0.0	0.0	0.0	0.0
21°	1108.7	106.3	12.6	1.9	0.0	0.0	0.0	0.0
22°	1215.1	113.8	11.2	1.4	0.0	0.0	0.0	0.0
23°	1332.1	118.5	9.8	0.9	0.0	0.0	0.0	0.0
24°	1418.4	121.3	8.4	0.9	0.0	0.0	0.0	0.0
25°	1472.1	121.3	7.5	0.9	0.0	0.0	0.0	0.0
26°	1503.8	118.5	6.5	0.5	0.0	0.0	0.0	0.0
27°	1511.3	113.8	5.6	0.5	0.0	0.0	0.0	0.0
28°	1501.9	107.7	4.7	0.0	0.0	0.0	0.0	0.0
29°	1472.5	98.9	4.2	0.0	0.0	0.0	0.0	0.0
30°	1440.8	89.6	3.3	0.0	0.0	0.0	0.0	0.0
31°	1386.7	77.0	2.8	0.0	0.0	0.0	0.0	0.0
32°	1324.2	63.9	2.3	0.0	0.0	0.0	0.0	0.0
33°	1240.7	50.4	1.9	0.0	0.0	0.0	0.0	0.0
34°	1117.6	39.6	1.9	0.0	0.0	0.0	0.0	0.0
35°	1007.0	32.2	1.4	0.0	0.0	0.0	0.0	0.0
36°	862.4	25.7	1.4	0.0	0.0	0.0	0.0	0.0
37°	738.8	21.5	1.4	0.0	0.0	0.0	0.0	0.0
38°	618.5	18.2	0.9	0.0	0.0	0.0	0.0	0.0
39°	501.9	15.9	0.9	0.0	0.0	0.0	0.0	0.0
40°	400.2	14.0	0.9	0.0	0.0	0.0	0.0	0.0
42.5°	216.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	119.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	52.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	17.7	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



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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	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)