

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: P1309866

Luminaire Tested: P3SQAS05R159040DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R159040DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

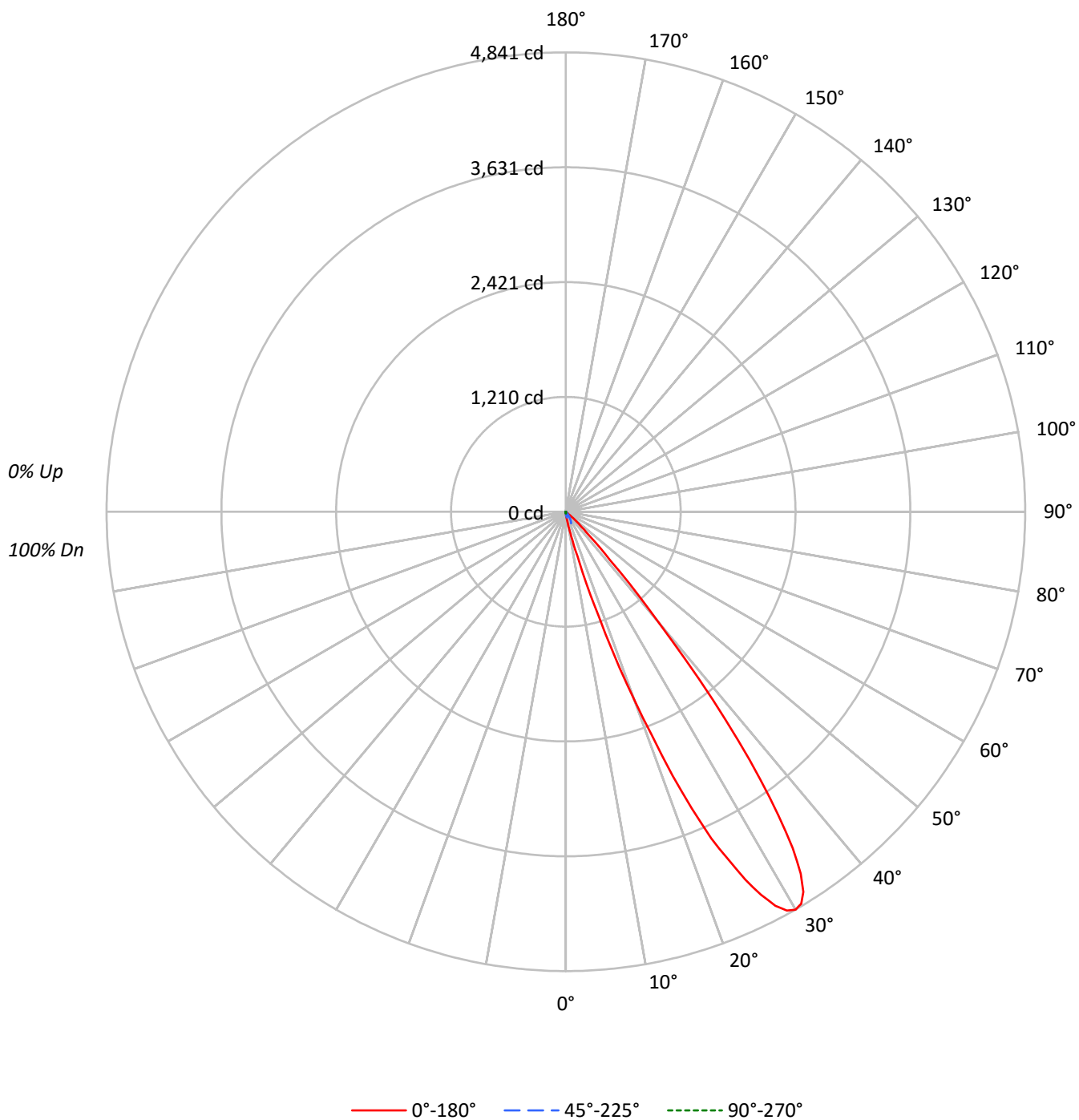
Lumens per Lamp: N/A
Luminaire Lumens: 512.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	94	92		
2	106	100	96	92	104	99	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	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45		
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3152	3152	3152	3152	3152
5°	9128	6881	2697	1124	743
10°	23731	10265	1784	0	0
15°	94837	16796	963	0	0
20°	387499	24761	293	0	0
25°	765997	24551	0	0	0
30°	962768	19370	0	0	0
35°	821448	11879	0	0	0
40°	338198	3755	0	0	0
45°	73165	1583	0	0	0
50°	9378	0	0	0	0
55°	811	0	150	0	0
60°	0	0	379	0	0
65°	0	0	448	0	0
70°	0	252	806	0	0
75°	0	333	1065	0	0
80°	0	496	1587	0	0
85°	0	988	3162	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 76575 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.5
10°-20°	35.9	7.0
20°-30°	209.1	40.8
30°-40°	224.2	43.8
40°-50°	37.8	7.4
50°-60°	1.1	0.2
60°-70°	0.3	0.1
70°-80°	0.5	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°	247.5	48.3
0°-40°	471.7	92.1
0°-60°	510.7	99.8
0°-90°	512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	512.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	53	40	16	6	4	7
15°	532	94	5	0	0	246
25°	4031	129	0	0	0	1824
35°	3907	56	0	0	0	2245
45°	300	6	0	0	0	355
55°	3	0	0	0	0	7
65°	0	0	1	0	0	0
75°	0	0	2	0	0	0
85°	0	0	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°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	33.4	33.9	34.5	34.5	34.5	34.5	33.9	33.9	33.9	33.9	33.4
5°	52.8	52.8	52.8	52.8	52.8	52.8	52.2	52.2	52.2	52.2	52.2
7.5°	75.4	74.3	74.8	73.2	74.3	73.8	73.2	74.3	74.3	71.6	71.6
10°	135.7	135.1	129.8	130.8	131.9	131.4	131.4	128.1	127.6	125.4	123.3
12.5°	261.7	267.6	271.9	271.9	261.7	265.4	258.4	260.0	261.1	257.9	246.6
15°	531.9	541.6	531.4	541.1	537.3	523.3	507.7	486.7	494.8	480.2	475.4
17.5°	1165.1	1187.2	1178.0	1133.3	1147.9	1113.4	1091.9	1083.8	1061.2	993.9	965.9
20°	2114.3	2141.2	2115.9	2063.7	2080.4	2015.2	1998.5	1982.9	1882.8	1846.2	1728.8
21°	2513.8	2535.8	2545.5	2491.2	2457.8	2406.1	2363.0	2349.0	2288.2	2217.7	2097.1
22°	2996.2	2970.3	2912.2	2919.7	2870.2	2827.7	2767.9	2711.4	2643.5	2545.0	2445.4
23°	3395.7	3365.5	3338.1	3304.7	3251.4	3221.2	3135.6	3073.7	2985.4	2879.9	2784.0
24°	3767.7	3721.4	3704.2	3644.9	3629.9	3562.0	3492.6	3411.8	3305.2	3192.7	3086.6
25°	4031.0	4038.0	4022.9	4015.9	3938.9	3869.4	3800.5	3676.2	3585.2	3485.6	3322.4
26°	4313.1	4316.3	4308.8	4257.1	4187.6	4119.8	4031.0	3922.8	3790.8	3680.5	3533.0
27°	4529.0	4516.1	4505.3	4443.9	4386.8	4301.2	4220.5	4092.3	3963.7	3832.3	3661.1
28°	4701.3	4677.0	4663.6	4610.8	4544.1	4439.1	4340.0	4220.5	4091.8	3950.7	3765.5
29°	4805.2	4779.3	4764.3	4706.1	4629.1	4537.1	4436.9	4305.6	4167.2	4010.0	3823.7
30°	4841.3	4826.2	4802.5	4742.2	4662.5	4566.7	4463.8	4321.2	4176.3	4015.4	3818.3
31°	4817.6	4798.2	4775.6	4710.4	4624.3	4532.8	4413.2	4263.6	4111.2	3957.7	3748.8
32°	4723.3	4711.5	4684.0	4596.8	4526.8	4408.4	4290.5	4150.5	3984.1	3819.4	3630.4
33°	4546.8	4527.4	4503.7	4424.0	4334.6	4221.0	4103.7	3960.4	3795.2	3621.2	3413.4
34°	4277.6	4252.8	4223.2	4169.9	4055.7	3957.2	3821.5	3654.1	3517.3	3350.4	3162.5
35°	3907.1	3871.1	3835.5	3795.2	3667.0	3576.0	3484.5	3338.6	3206.7	3049.5	2836.8
36°	3491.5	3477.5	3448.4	3341.8	3300.4	3176.5	3102.8	2935.3	2828.7	2674.7	2499.2
37°	3021.5	2939.1	2981.1	2921.3	2796.4	2757.7	2669.9	2526.2	2410.9	2248.3	2121.3
38°	2517.5	2463.7	2493.3	2433.0	2367.9	2278.5	2211.7	2106.7	1977.5	1849.9	1729.3
39°	1995.3	1951.7	1984.0	1943.1	1844.0	1806.9	1747.6	1667.4	1563.5	1463.9	1349.8
40°	1504.3	1448.3	1491.4	1433.2	1388.0	1327.1	1297.0	1223.2	1158.6	1098.9	1026.2
42.5°	687.0	681.1	671.4	650.4	645.5	646.1	608.9	584.7	551.9	513.6	490.5
45°	300.4	308.0	314.4	302.6	302.0	295.6	293.4	277.3	270.8	258.4	243.4
47.5°	148.1	150.8	149.1	152.4	149.7	145.4	144.3	142.1	135.7	135.1	128.1
50°	35.0	34.5	34.5	35.0	34.5	34.5	33.9	32.8	32.3	32.8	31.2
52.5°	11.3	11.8	11.3	10.8	11.3	11.8	11.3	11.3	11.3	11.3	11.3
55°	2.7	2.7	2.7	2.7	2.7	2.7	2.2	2.2	2.7	2.7	2.7
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°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	32.8	28.0	23.2	18.3	13.5	10.8	10.2	9.7
5°	49.5	39.8	26.4	15.6	9.2	6.5	4.8	4.3
7.5°	66.8	49.5	29.1	12.9	6.5	2.7	1.1	0.5
10°	95.8	58.7	30.2	10.2	3.2	0.0	0.0	0.0
12.5°	187.9	67.3	29.6	8.1	0.5	0.0	0.0	0.0
15°	312.3	94.2	27.5	5.4	0.0	0.0	0.0	0.0
17.5°	511.5	121.7	23.7	3.8	0.0	0.0	0.0	0.0
20°	793.1	135.1	18.3	1.6	0.0	0.0	0.0	0.0
21°	929.8	136.2	16.2	1.1	0.0	0.0	0.0	0.0
22°	1048.3	136.2	14.0	0.5	0.0	0.0	0.0	0.0
23°	1158.1	134.6	12.4	0.0	0.0	0.0	0.0	0.0
24°	1248.5	132.4	11.3	0.0	0.0	0.0	0.0	0.0
25°	1316.4	129.2	10.2	0.0	0.0	0.0	0.0	0.0
26°	1347.6	124.9	8.6	0.0	0.0	0.0	0.0	0.0
27°	1363.2	119.0	7.5	0.0	0.0	0.0	0.0	0.0
28°	1352.5	112.5	6.5	0.0	0.0	0.0	0.0	0.0
29°	1325.5	105.5	4.8	0.0	0.0	0.0	0.0	0.0
30°	1290.5	97.4	3.8	0.0	0.0	0.0	0.0	0.0
31°	1239.4	89.4	2.7	0.0	0.0	0.0	0.0	0.0
32°	1169.4	81.3	2.2	0.0	0.0	0.0	0.0	0.0
33°	1075.7	72.7	1.1	0.0	0.0	0.0	0.0	0.0
34°	960.0	64.1	0.5	0.0	0.0	0.0	0.0	0.0
35°	830.2	56.5	0.0	0.0	0.0	0.0	0.0	0.0
36°	718.8	48.5	0.0	0.0	0.0	0.0	0.0	0.0
37°	606.8	38.8	0.0	0.0	0.0	0.0	0.0	0.0
38°	508.2	30.7	0.0	0.0	0.0	0.0	0.0	0.0
39°	420.5	24.8	0.0	0.0	0.0	0.0	0.0	0.0
40°	348.3	16.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	192.7	11.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	116.8	6.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	67.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0
50°	25.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.2	0.0	0.0	0.5	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.5	1.1	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.5	1.1	0.5	0.0	0.0	0.0
65°	0.0	0.0	1.1	1.1	0.5	0.0	0.0	0.0
67.5°	0.0	0.0	1.1	1.6	0.5	0.0	0.0	0.0
70°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
72.5°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
75°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
77.5°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
80°	0.0	0.5	1.1	1.6	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	1.1	1.6	0.5	0.0	0.0	0.0
85°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
87.5°	0.0	0.5	1.1	1.6	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)