

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: P1307729

Luminaire Tested: P3SQAS05R509030DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R509030DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

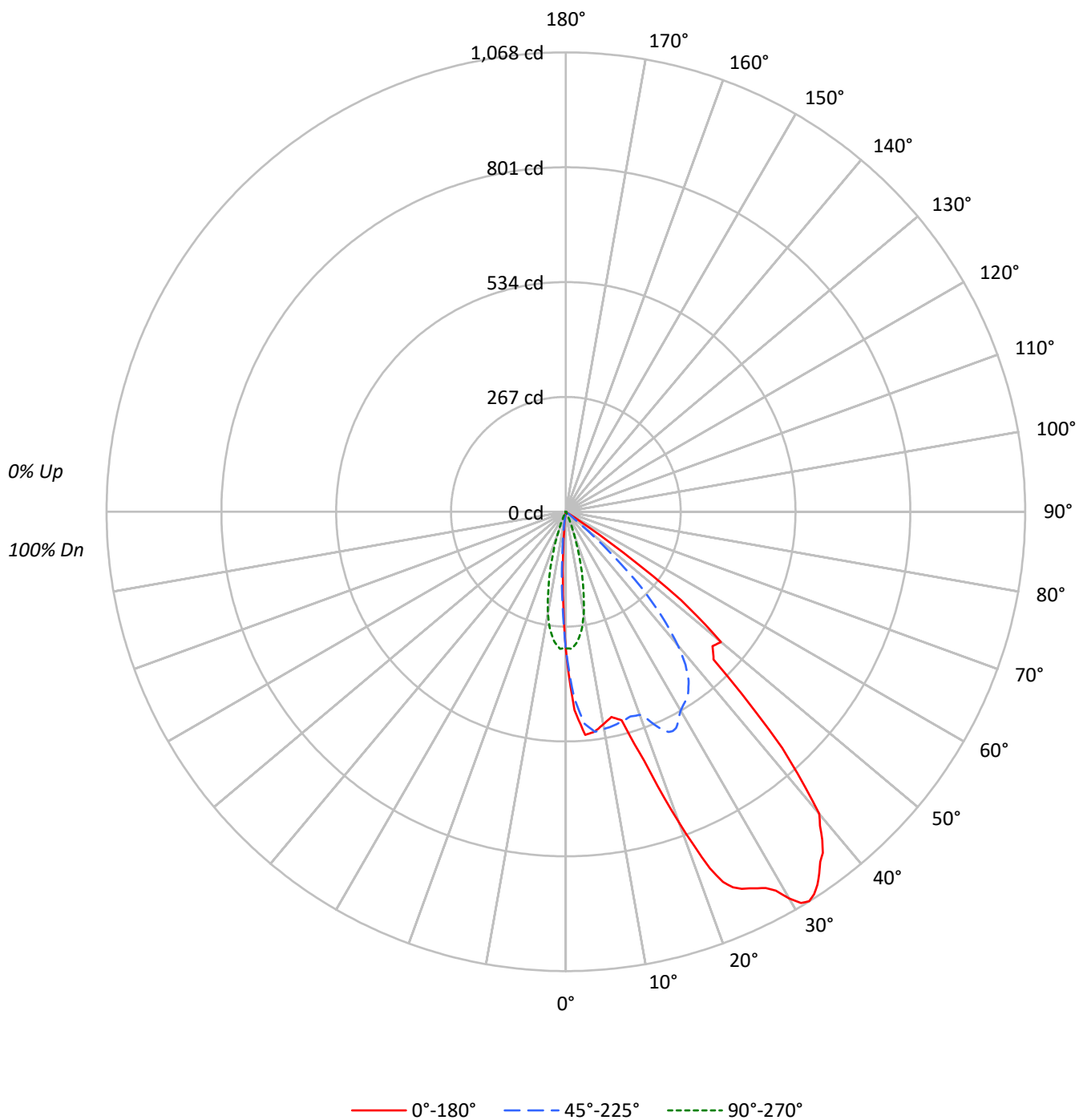
Lumens per Lamp: N/A
Luminaire Lumens: 511.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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		0			
RCR																										
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102		100			
1	112	109	106	104		110	107	104	102		103	101	99		99	97	96		96	94	93		91			
2	105	100	95	91		103	98	93	90		94	91	88		91	88	86		89	86	84		82			
3	98	91	85	80		96	89	84	79		86	82	78		84	80	77		82	78	75		74			
4	92	83	76	71		90	81	75	70		79	74	70		77	72	69		75	71	68		66			
5	86	76	68	63		84	75	68	63		73	67	62		71	66	62		69	65	61		59			
6	80	69	62	57		78	68	62	57		67	61	56		65	60	56		64	59	55		54			
7	75	64	56	51		73	63	56	51		61	55	51		60	55	50		59	54	50		48			
8	70	59	51	46		69	58	51	46		57	50	46		56	50	46		55	49	46		44			
9	66	54	47	42		64	54	47	42		53	46	42		52	46	42		51	45	42		40			
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°	54646	54646	54646	54646	54646
5°	90036	85438	52504	15594	7797
10°	87737	89661	42076	787	1049
15°	89452	89987	25194	802	267
20°	141012	92133	10373	0	0
25°	183813	107346	2470	0	0
30°	206323	106154	99	0	0
35°	215922	104534	0	0	0
40°	205981	90828	0	0	0
45°	118297	59940	0	0	0
50°	126222	6859	0	0	0
55°	35971	0	0	0	0
60°	0	0	172	0	0
65°	0	204	204	0	0
70°	0	252	252	0	0
75°	0	333	333	0	0
80°	0	496	992	496	0
85°	0	988	1976	988	0

MAXIMUM LUMINANCE 45°-90°:

Luminance: 130621 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	5.2
10°-20°	67.1	13.1
20°-30°	129.0	25.2
30°-40°	150.1	29.4
40°-50°	107.4	21.0
50°-60°	29.9	5.9
60°-70°	0.2	0.0
70°-80°	0.3	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°	222.7	43.6
0°-40°	372.8	73.0
0°-60°	510.1	99.8
0°-90°	511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	511.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	317	317	317	317	317	
5°	521	494	304	90	45	48
15°	502	505	141	4	2	162
25°	967	565	13	0	0	440
35°	1027	497	0	0	0	635
45°	486	246	0	0	0	457
55°	120	0	0	0	0	151
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	317.3	317.3	317.3	317.3	317.3	317.3	317.3	317.3	317.3	317.3	317.3
2.5°	461.1	463.6	464.1	458.1	459.1	450.6	451.1	445.1	430.5	379.9	318.8
5°	520.8	519.3	520.8	518.8	520.8	515.8	512.7	510.2	494.2	422.5	303.7
7.5°	515.3	513.2	516.3	517.3	520.8	519.3	519.8	521.3	515.8	445.6	278.2
10°	501.7	501.2	502.7	502.7	506.7	507.2	509.2	512.2	512.7	453.6	240.6
12.5°	488.7	487.2	487.2	486.7	488.7	488.2	493.2	500.2	509.7	448.6	189.0
15°	501.7	500.2	498.2	492.7	488.7	484.2	484.7	489.2	504.7	435.6	141.3
17.5°	607.0	599.0	588.9	571.4	552.8	520.8	501.7	489.7	498.7	415.5	94.2
20°	769.4	765.9	749.8	721.3	691.2	644.1	585.4	538.3	502.7	390.4	56.6
21°	831.0	829.0	812.0	785.4	751.3	694.2	634.0	577.4	510.7	379.9	44.6
22°	894.2	886.7	873.1	843.5	808.0	750.8	683.7	621.0	526.8	366.4	34.1
23°	934.8	930.3	915.7	892.2	858.1	802.4	733.8	665.6	542.3	351.4	25.6
24°	955.8	954.3	942.8	926.3	897.2	840.5	775.4	705.2	555.3	333.8	18.5
25°	967.3	962.3	955.3	943.3	921.2	872.1	814.0	739.8	564.9	316.3	13.0
26°	974.4	971.4	960.3	949.8	928.8	888.7	839.0	760.8	567.4	294.7	9.0
27°	982.4	975.4	964.8	952.3	928.8	893.7	848.6	769.9	564.4	272.7	6.0
28°	990.9	985.9	971.4	955.3	927.3	893.7	845.1	757.8	555.3	251.6	3.5
29°	1007.4	1000.9	982.9	959.3	927.8	892.7	831.5	732.8	543.3	228.1	2.0
30°	1037.5	1024.0	1001.9	968.9	931.3	890.7	809.0	695.2	533.8	201.5	0.5
31°	1061.1	1053.6	1028.0	986.4	941.3	885.2	782.4	658.1	527.3	178.4	0.0
32°	1067.6	1062.1	1043.5	1004.4	958.3	880.6	752.3	622.0	522.3	152.9	0.0
33°	1060.1	1056.6	1037.0	1001.4	962.8	874.6	717.7	586.4	516.8	129.8	0.0
34°	1046.0	1041.5	1024.5	988.4	951.3	848.6	684.7	559.4	508.7	108.3	0.0
35°	1027.0	1023.5	1005.9	970.4	930.3	808.0	651.6	541.3	497.2	86.7	0.0
36°	1006.4	1005.4	982.9	947.8	903.2	768.9	611.5	527.8	485.7	68.7	0.0
37°	992.9	987.9	963.3	928.8	871.1	723.3	579.4	523.3	469.6	53.1	0.0
38°	968.4	969.4	941.3	909.7	838.5	683.7	553.3	519.8	451.6	38.6	0.0
39°	939.3	939.8	910.7	883.6	799.9	642.1	531.8	516.3	429.0	24.6	0.0
40°	916.2	915.7	882.6	853.6	758.3	603.0	520.3	511.2	404.0	14.0	0.0
42.5°	744.8	747.8	751.8	763.9	660.6	534.3	509.2	483.2	332.8	0.0	0.0
45°	485.7	497.2	500.2	536.3	535.8	506.2	483.2	433.1	246.1	0.0	0.0
47.5°	462.1	465.6	472.1	486.2	493.7	479.2	432.0	361.9	134.3	0.0	0.0
50°	471.1	470.6	472.1	472.1	458.6	421.0	354.4	267.1	25.6	0.0	0.0
52.5°	338.3	350.9	364.4	370.4	352.9	313.3	258.6	156.9	0.0	0.0	0.0
55°	119.8	115.8	112.8	123.3	120.8	135.8	112.3	36.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	2.0	4.5	6.0	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	0.5	0.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0
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):

	112.5°	135°	157.5°	180°
0°	317.3	317.3	317.3	317.3
2.5°	254.1	195.0	157.9	160.4
5°	178.4	90.2	55.6	45.1
7.5°	106.8	27.6	5.5	4.5
10°	50.1	4.5	5.0	6.0
12.5°	15.0	4.0	5.5	5.0
15°	4.0	4.5	2.5	1.5
17.5°	1.5	2.0	0.0	0.0
20°	1.0	0.0	0.0	0.0
21°	1.0	0.0	0.0	0.0
22°	0.5	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.5	0.0	0.0	0.0
67.5°	0.5	0.0	0.0	0.0
70°	0.5	0.0	0.0	0.0
72.5°	0.5	0.0	0.0	0.0
75°	0.5	0.0	0.0	0.0
77.5°	0.5	0.0	0.0	0.0
80°	0.5	0.5	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.5	0.5	0.0	0.0
85°	0.5	0.5	0.0	0.0
87.5°	0.5	0.5	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)