

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: P1308847

Luminaire Tested: P3SQAS05R509035DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308847
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: P3SQAS05R509035DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

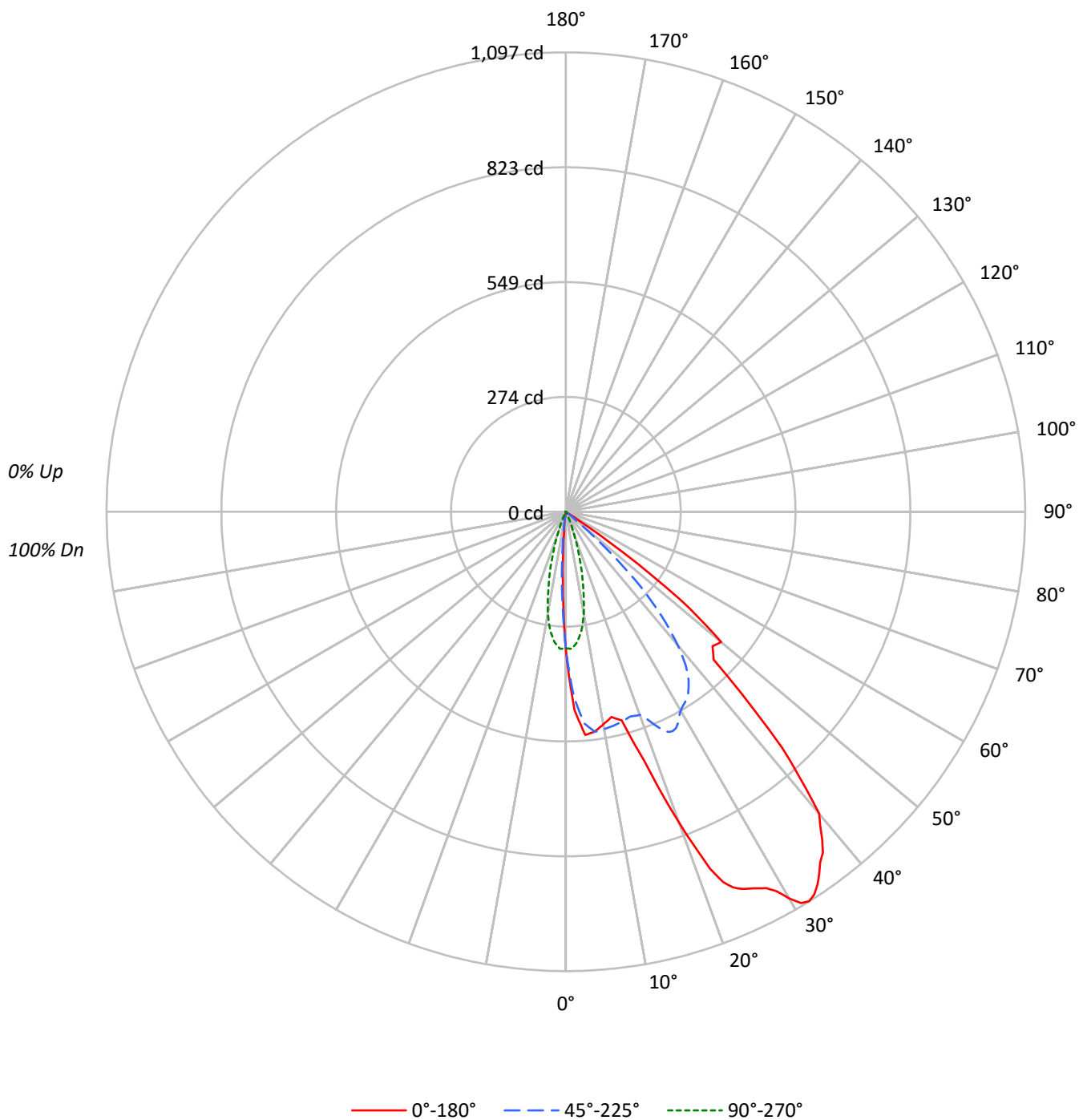
Lumens per Lamp: N/A
Luminaire Lumens: 525.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	56145	56145	56145	56145	56145
5°	92491	87771	53956	16026	8004
10°	90150	92126	43230	804	1084
15°	91913	92465	25889	820	267
20°	144861	94662	10667	0	0
25°	188867	110272	2546	0	0
30°	211971	109058	99	0	0
35°	221830	107393	0	0	0
40°	211624	93301	0	0	0
45°	121536	61572	0	0	0
50°	129705	7047	0	0	0
55°	36962	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°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 134201 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	5.2
10°-20°	69.0	13.1
20°-30°	132.5	25.2
30°-40°	154.2	29.4
40°-50°	110.4	21.0
50°-60°	30.7	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°	228.8	43.6
0°-40°	383.0	73.0
0°-60°	524.1	99.8
0°-90°	525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	525.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	326	326	326	326	326	
5°	535	508	312	93	46	49
15°	516	519	145	5	2	166
25°	994	580	13	0	0	452
35°	1055	511	0	0	0	653
45°	499	253	0	0	0	469
55°	123	0	0	0	0	155
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°	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0
2.5°	473.8	476.3	476.8	470.7	471.7	462.9	463.5	457.3	442.3	390.3	327.5
5°	535.0	533.5	535.0	533.0	535.0	529.9	526.8	524.2	507.7	434.1	312.1
7.5°	529.4	527.3	530.4	531.4	535.0	533.5	534.0	535.5	529.9	457.8	285.8
10°	515.5	514.9	516.5	516.5	520.6	521.1	523.2	526.3	526.8	466.0	247.2
12.5°	502.1	500.5	500.5	500.0	502.1	501.6	506.7	513.9	523.7	460.9	194.1
15°	515.5	513.9	511.9	506.2	502.1	497.4	498.0	502.6	518.6	447.5	145.2
17.5°	623.6	615.4	605.1	587.0	568.0	535.0	515.5	503.1	512.4	426.9	96.8
20°	790.4	786.8	770.4	741.0	710.1	661.7	601.5	553.1	516.5	401.1	58.2
21°	853.8	851.7	834.2	806.9	771.9	713.2	651.4	593.2	524.7	390.3	45.8
22°	918.7	910.9	897.0	866.7	830.1	771.4	702.4	638.0	541.2	376.4	35.0
23°	960.4	955.7	940.8	916.6	881.6	824.4	753.9	683.9	557.2	361.0	26.3
24°	982.0	980.5	968.6	951.6	921.8	863.6	796.6	724.5	570.6	343.0	19.1
25°	993.9	988.7	981.5	969.1	946.5	896.0	836.3	760.1	580.3	324.9	13.4
26°	1001.1	998.0	986.6	975.8	954.2	913.0	862.0	781.7	582.9	302.8	9.3
27°	1009.3	1002.1	991.3	978.4	954.2	918.2	871.8	791.0	579.8	280.1	6.2
28°	1018.1	1012.9	998.0	981.5	952.7	918.2	868.2	778.6	570.6	258.5	3.6
29°	1035.0	1028.4	1009.8	985.6	953.2	917.1	854.3	752.9	558.2	234.3	2.1
30°	1065.9	1052.0	1029.4	995.4	956.8	915.1	831.1	714.2	548.4	207.0	0.5
31°	1090.1	1082.4	1056.2	1013.4	967.1	909.4	803.8	676.1	541.7	183.3	0.0
32°	1096.8	1091.2	1072.1	1032.0	984.6	904.8	772.9	639.1	536.6	157.1	0.0
33°	1089.1	1085.5	1065.4	1028.9	989.2	898.6	737.4	602.5	530.9	133.4	0.0
34°	1074.7	1070.1	1052.6	1015.5	977.4	871.8	703.4	574.7	522.7	111.2	0.0
35°	1055.1	1051.5	1033.5	996.9	955.7	830.1	669.4	556.1	510.8	89.1	0.0
36°	1034.0	1033.0	1009.8	973.8	927.9	789.9	628.2	542.2	499.0	70.5	0.0
37°	1020.1	1015.0	989.7	954.2	895.0	743.1	595.3	537.6	482.5	54.6	0.0
38°	994.9	995.9	967.1	934.6	861.5	702.4	568.5	534.0	464.0	39.7	0.0
39°	965.0	965.5	935.7	907.9	821.9	659.7	546.4	530.4	440.8	25.2	0.0
40°	941.3	940.8	906.8	877.0	779.1	619.5	534.5	525.2	415.0	14.4	0.0
42.5°	765.2	768.3	772.4	784.8	678.7	548.9	523.2	496.4	341.9	0.0	0.0
45°	499.0	510.8	513.9	551.0	550.5	520.1	496.4	444.9	252.8	0.0	0.0
47.5°	474.8	478.4	485.1	499.5	507.2	492.3	443.9	371.8	138.0	0.0	0.0
50°	484.1	483.5	485.1	485.1	471.2	432.6	364.1	274.5	26.3	0.0	0.0
52.5°	347.6	360.5	374.4	380.5	362.5	321.8	265.7	161.2	0.0	0.0	0.0
55°	123.1	119.0	115.9	126.7	124.1	139.6	115.3	37.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	2.1	4.6	6.2	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°	326.0	326.0	326.0	326.0
2.5°	261.1	200.3	162.2	164.8
5°	183.3	92.7	57.2	46.3
7.5°	109.7	28.3	5.7	4.6
10°	51.5	4.6	5.1	6.2
12.5°	15.4	4.1	5.7	5.1
15°	4.1	4.6	2.6	1.5
17.5°	1.5	2.1	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)