

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: P1311053

Luminaire Tested: P3SQAS05R509050DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311053
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: P3SQAS05R509050DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

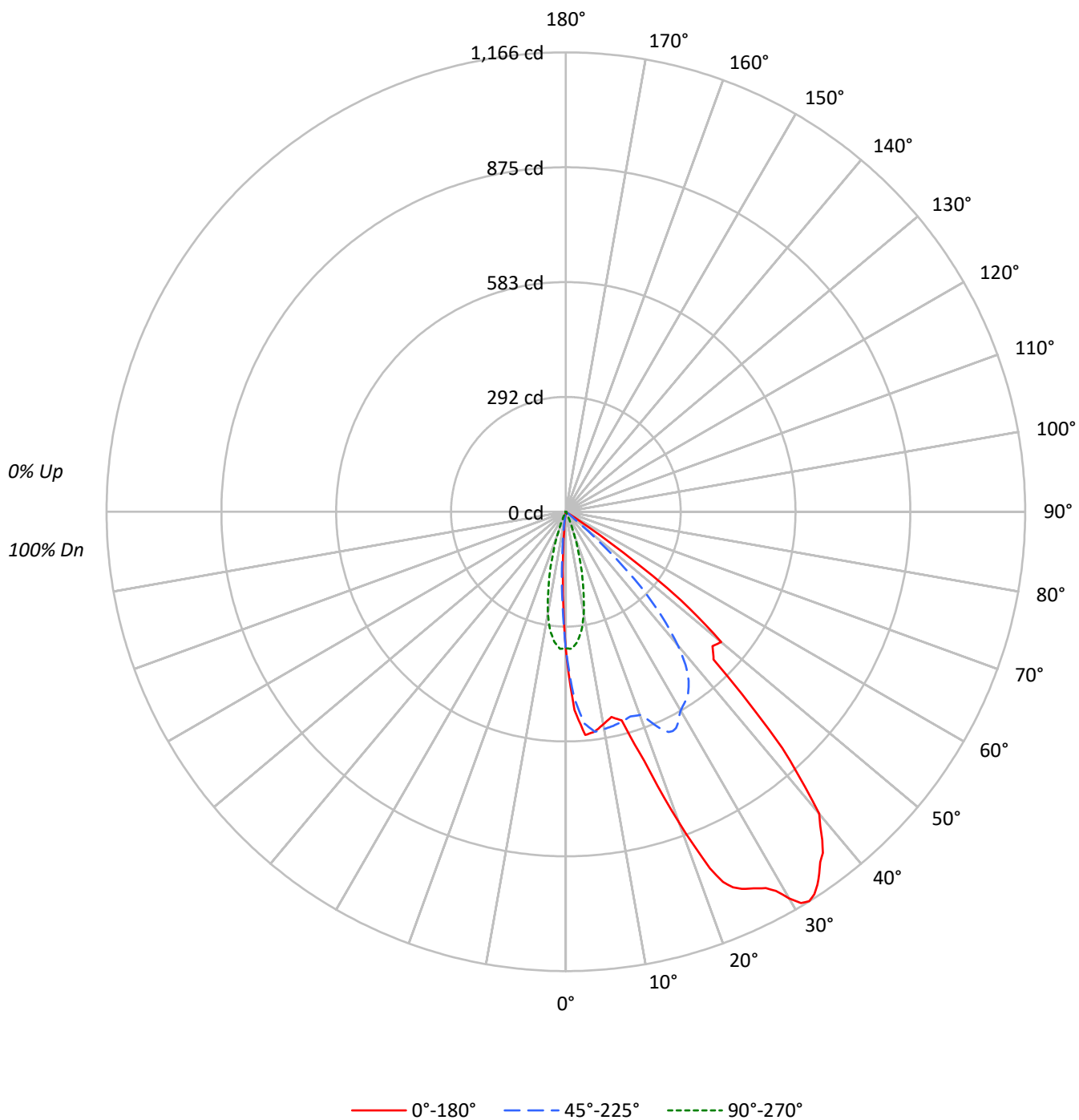
Lumens per Lamp: N/A
Luminaire Lumens: 557.9 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	59675	59675	59675	59675	59675
5°	98317	93304	57344	17029	8523
10°	95816	97915	45941	857	1154
15°	97689	98260	27511	874	285
20°	153970	100618	11326	0	0
25°	200725	117208	2698	0	0
30°	225295	115919	99	0	0
35°	235790	114142	0	0	0
40°	224933	99168	0	0	0
45°	129184	65444	0	0	0
50°	137850	7475	0	0	0
55°	39274	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	1091	496	0
85°	0	988	2174	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 142628 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.1	5.2
10°-20°	73.3	13.1
20°-30°	140.8	25.2
30°-40°	163.9	29.4
40°-50°	117.3	21.0
50°-60°	32.6	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°	243.2	43.6
0°-40°	407.1	73.0
0°-60°	557.0	99.8
0°-90°	557.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	557.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	346	346	346	346	346	
5°	569	540	332	98	49	52
15°	548	551	154	5	2	177
25°	1056	617	14	0	0	480
35°	1122	543	0	0	0	694
45°	530	269	0	0	0	499
55°	131	0	0	0	0	165
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°	346.5	346.5	346.5	346.5	346.5	346.5	346.5	346.5	346.5	346.5	346.5
2.5°	503.5	506.3	506.8	500.2	501.3	492.0	492.6	486.0	470.1	414.9	348.1
5°	568.7	567.0	568.7	566.5	568.7	563.2	559.9	557.2	539.7	461.4	331.7
7.5°	562.6	560.5	563.7	564.8	568.7	567.0	567.6	569.2	563.2	486.6	303.8
10°	547.9	547.3	549.0	549.0	553.3	553.9	556.1	559.4	559.9	495.3	262.7
12.5°	533.6	532.0	532.0	531.4	533.6	533.1	538.6	546.2	556.6	489.8	206.3
15°	547.9	546.2	544.0	538.0	533.6	528.7	529.3	534.2	551.1	475.6	154.3
17.5°	662.8	654.0	643.1	623.9	603.7	568.7	547.9	534.7	544.6	453.7	102.9
20°	840.1	836.3	818.8	787.6	754.8	703.3	639.3	587.8	549.0	426.4	61.8
21°	907.5	905.3	886.7	857.6	820.4	758.0	692.4	630.5	557.7	414.9	48.7
22°	976.4	968.2	953.4	921.1	882.3	819.9	746.5	678.1	575.2	400.1	37.2
23°	1020.7	1015.8	999.9	974.2	937.0	876.3	801.3	726.8	592.2	383.7	27.9
24°	1043.7	1042.1	1029.5	1011.4	979.7	917.9	846.7	770.1	606.4	364.5	20.3
25°	1056.3	1050.9	1043.2	1030.1	1006.0	952.3	888.8	807.8	616.8	345.4	14.2
26°	1064.0	1060.7	1048.7	1037.2	1014.2	970.4	916.2	830.8	619.6	321.8	9.9
27°	1072.7	1065.1	1053.6	1039.9	1014.2	975.9	926.6	840.7	616.3	297.7	6.6
28°	1082.0	1076.6	1060.7	1043.2	1012.5	975.9	922.8	827.5	606.4	274.8	3.8
29°	1100.1	1093.0	1073.3	1047.6	1013.1	974.8	908.0	800.2	593.3	249.0	2.2
30°	1132.9	1118.2	1094.1	1058.0	1016.9	972.6	883.4	759.1	582.9	220.0	0.5
31°	1158.7	1150.5	1122.5	1077.1	1027.9	966.6	854.4	718.6	575.8	194.8	0.0
32°	1165.8	1159.8	1139.5	1096.8	1046.5	961.6	821.5	679.2	570.3	166.9	0.0
33°	1157.6	1153.7	1132.4	1093.5	1051.4	955.1	783.8	640.4	564.3	141.8	0.0
34°	1142.3	1137.3	1118.7	1079.3	1038.8	926.6	747.6	610.8	555.5	118.2	0.0
35°	1121.5	1117.6	1098.5	1059.6	1015.8	882.3	711.5	591.1	542.9	94.7	0.0
36°	1099.0	1097.9	1073.3	1035.0	986.3	839.6	667.7	576.3	530.4	75.0	0.0
37°	1084.2	1078.8	1051.9	1014.2	951.2	789.8	632.7	571.4	512.8	58.0	0.0
38°	1057.4	1058.5	1027.9	993.4	915.7	746.5	604.2	567.6	493.1	42.1	0.0
39°	1025.7	1026.2	994.5	964.9	873.5	701.1	580.7	563.7	468.5	26.8	0.0
40°	1000.5	999.9	963.8	932.1	828.1	658.4	568.1	558.3	441.1	15.3	0.0
42.5°	813.3	816.6	821.0	834.1	721.4	583.4	556.1	527.6	363.4	0.0	0.0
45°	530.4	542.9	546.2	585.6	585.1	552.8	527.6	472.9	268.7	0.0	0.0
47.5°	504.6	508.5	515.6	530.9	539.1	523.2	471.8	395.2	146.7	0.0	0.0
50°	514.5	513.9	515.6	515.6	500.8	459.7	387.0	291.7	27.9	0.0	0.0
52.5°	369.4	383.1	397.9	404.5	385.3	342.1	282.4	171.3	0.0	0.0	0.0
55°	130.8	126.4	123.1	134.6	131.9	148.3	122.6	40.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	2.2	4.9	6.6	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	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.1



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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	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.1
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°	346.5	346.5	346.5	346.5
2.5°	277.5	212.9	172.4	175.1
5°	194.8	98.5	60.8	49.3
7.5°	116.6	30.1	6.0	4.9
10°	54.7	4.9	5.5	6.6
12.5°	16.4	4.4	6.0	5.5
15°	4.4	4.9	2.7	1.6
17.5°	1.6	2.2	0.0	0.0
20°	1.1	0.0	0.0	0.0
21°	1.1	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)