

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: P1306770

Luminaire Tested: P3SQAS09R509027DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R509027DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

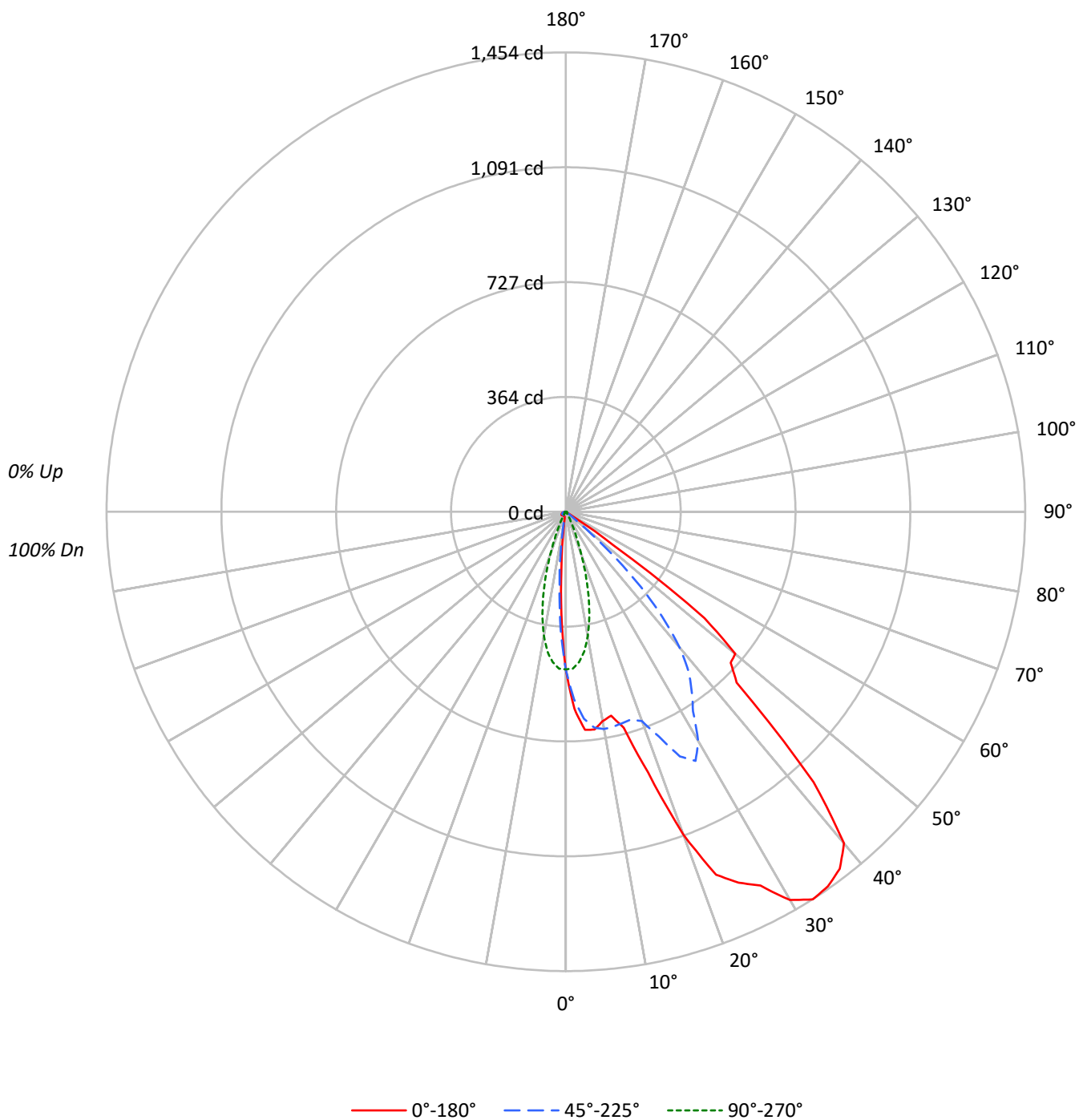
Lumens per Lamp: N/A
Luminaire Lumens: 776.0 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	53		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39		
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	85922	85922	85922	85922	85922
5°	119806	113669	82585	39693	25759
10°	117606	122153	69794	8359	3585
15°	126110	123436	49353	2924	2799
20°	199147	129264	26062	2511	2639
25°	246104	162340	10394	2337	2603
30°	282150	166490	4216	2307	2724
35°	304183	146120	1871	2439	3028
40°	307914	125832	1394	2765	3372
45°	186104	81568	1340	2996	3824
50°	187498	14093	1474	3483	4394
55°	55398	811	1651	3903	4924
60°	930	930	1653	4237	5408
65°	856	856	1671	4442	5868
70°	1057	1057	1712	4834	6546
75°	932	932	1797	4991	6854
80°	694	1389	2083	4761	7438
85°	1383	2766	2766	5335	6719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 212554 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	5.2
10°-20°	100.2	12.9
20°-30°	187.7	24.2
30°-40°	224.4	28.9
40°-50°	160.8	20.7
50°-60°	49.6	6.4
60°-70°	6.5	0.8
70°-80°	4.7	0.6
80°-90°	1.9	0.2
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°	328.2	42.3
0°-40°	552.6	71.2
0°-60°	762.9	98.3
0°-90°	776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	776.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	499	499	499	499	499	
5°	693	658	478	230	149	64
15°	707	692	277	16	16	227
25°	1295	854	55	12	14	597
35°	1447	695	9	12	14	898
45°	764	335	6	12	16	702
55°	184	3	6	13	16	238
65°	2	2	4	11	14	2
75°	1	1	3	8	10	1
85°	1	1	1	3	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	498.9	498.9	498.9	498.9	498.9	498.9	498.9	498.9	498.9	498.9	498.9
2.5°	624.0	625.3	627.4	621.9	618.5	615.8	611.0	609.6	598.0	593.2	588.4
5°	693.0	691.6	693.0	690.9	689.6	685.5	681.4	674.5	667.0	657.5	646.5
7.5°	695.0	693.7	696.4	696.4	699.1	699.1	699.1	699.8	695.7	688.9	679.3
10°	672.5	672.5	675.2	673.9	678.6	680.7	685.5	693.7	697.8	698.5	695.7
12.5°	660.9	660.9	661.6	658.8	660.2	662.2	667.7	677.3	686.8	696.4	701.9
15°	707.3	708.7	699.1	685.5	675.2	664.3	660.9	667.0	677.3	692.3	704.6
17.5°	865.2	867.3	857.0	824.2	792.8	747.7	707.3	687.5	676.6	688.9	705.3
20°	1086.6	1079.1	1061.4	1026.5	980.7	911.0	848.1	784.6	723.7	705.3	710.8
22.5°	1243.2	1240.4	1226.1	1187.1	1147.5	1082.5	1002.6	913.7	825.6	769.5	740.2
25°	1295.1	1293.0	1280.1	1256.8	1235.0	1185.7	1114.0	1024.5	932.2	854.3	780.5
27.5°	1334.1	1331.3	1310.8	1284.8	1262.3	1212.4	1146.8	1079.1	994.4	889.1	775.7
30°	1418.8	1411.3	1382.6	1336.1	1293.0	1224.0	1151.6	1067.5	952.7	837.2	726.5
32.5°	1454.3	1450.2	1425.6	1388.0	1340.9	1250.7	1140.6	999.9	848.8	749.0	668.4
35°	1446.8	1440.7	1415.4	1372.3	1314.9	1228.1	1081.2	887.8	764.8	695.0	604.1
37.5°	1424.3	1415.4	1385.3	1334.7	1265.0	1151.6	959.5	796.9	717.6	639.0	516.7
40°	1369.6	1355.2	1320.4	1267.8	1198.0	1049.1	848.8	742.2	668.4	559.7	418.9
42.5°	1160.5	1152.9	1170.0	1161.1	1099.6	924.0	770.2	692.3	590.5	452.4	303.4
45°	764.1	777.1	807.8	860.4	872.7	794.8	706.0	610.3	485.9	334.9	175.0
47.5°	707.3	704.6	712.1	722.4	724.4	691.6	611.0	504.4	360.8	191.4	48.5
50°	699.8	695.7	689.6	677.3	651.3	587.7	496.2	367.7	208.4	52.6	3.4
52.5°	552.9	548.8	548.8	531.0	497.5	436.0	342.4	202.3	58.1	3.4	2.7
55°	184.5	196.8	194.8	194.1	209.1	192.7	147.6	51.9	4.8	2.7	2.7
57.5°	3.4	3.4	3.4	6.2	9.6	13.7	8.2	4.1	2.7	2.7	2.7
60°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
62.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
65°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.7
67.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
70°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.1
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1
77.5°	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	498.9	498.9	498.9	498.9	498.9	498.9	498.9	498.9
2.5°	577.5	567.9	549.5	496.9	438.8	372.5	327.4	321.9
5°	629.4	615.1	585.0	477.7	345.1	229.6	170.9	149.0
7.5°	663.6	644.5	607.6	446.3	251.5	121.0	64.9	51.9
10°	684.1	666.3	619.2	399.1	159.9	47.8	21.9	20.5
12.5°	695.0	678.0	623.3	342.4	90.2	21.9	17.1	17.1
15°	702.6	684.1	617.1	276.8	45.1	16.4	15.7	15.7
17.5°	706.0	683.4	599.4	208.4	23.9	15.0	15.0	15.0
20°	708.0	675.9	566.6	142.2	16.4	13.7	14.4	14.4
22.5°	710.1	657.5	523.5	90.2	13.0	13.0	13.7	13.7
25°	706.0	625.3	462.7	54.7	11.6	12.3	13.0	13.7
27.5°	676.6	576.8	388.9	33.5	10.3	11.6	13.0	13.7
30°	626.0	505.7	303.4	21.2	9.6	11.6	13.0	13.7
32.5°	560.4	424.4	216.6	13.0	9.6	11.6	13.0	13.7
35°	472.2	324.6	140.8	8.9	9.6	11.6	13.7	14.4
37.5°	373.2	226.9	75.9	6.8	9.6	11.6	13.7	14.4
40°	268.6	136.0	27.3	6.2	8.9	12.3	14.4	15.0
42.5°	157.2	50.6	4.8	5.5	8.9	12.3	14.4	15.0
45°	45.1	5.5	2.7	5.5	8.9	12.3	15.0	15.7
47.5°	3.4	2.1	2.7	5.5	8.9	12.3	15.0	16.4
50°	2.1	2.1	2.1	5.5	8.9	13.0	15.7	16.4
52.5°	2.7	2.7	2.7	5.5	8.9	13.0	15.7	16.4
55°	2.7	2.7	2.7	5.5	8.9	13.0	15.7	16.4
57.5°	2.7	2.7	2.7	5.5	8.9	12.3	15.7	16.4
60°	2.7	2.7	2.7	4.8	8.2	12.3	15.0	15.7
62.5°	2.7	2.7	2.7	4.8	8.2	11.6	15.0	15.0
65°	2.7	2.7	2.7	4.1	7.5	10.9	13.7	14.4
67.5°	2.7	2.7	2.7	4.1	6.8	10.3	13.0	13.7
70°	2.1	2.7	2.7	3.4	6.2	9.6	12.3	13.0
72.5°	2.1	2.1	2.7	3.4	5.5	8.2	10.9	11.6
75°	2.1	2.1	2.1	2.7	4.8	7.5	9.6	10.3
77.5°	2.1	2.1	2.1	2.7	4.1	6.2	8.9	8.9
80°	1.4	2.1	2.1	2.1	3.4	4.8	6.8	7.5
82.5°	1.4	1.4	1.4	2.1	2.7	4.1	5.5	5.5
85°	1.4	1.4	1.4	1.4	2.1	2.7	3.4	3.4
87.5°	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)