

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: P1317166

Luminaire Tested: P3SQAS13R509830DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317166
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: P3SQAS13R509830DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 98CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

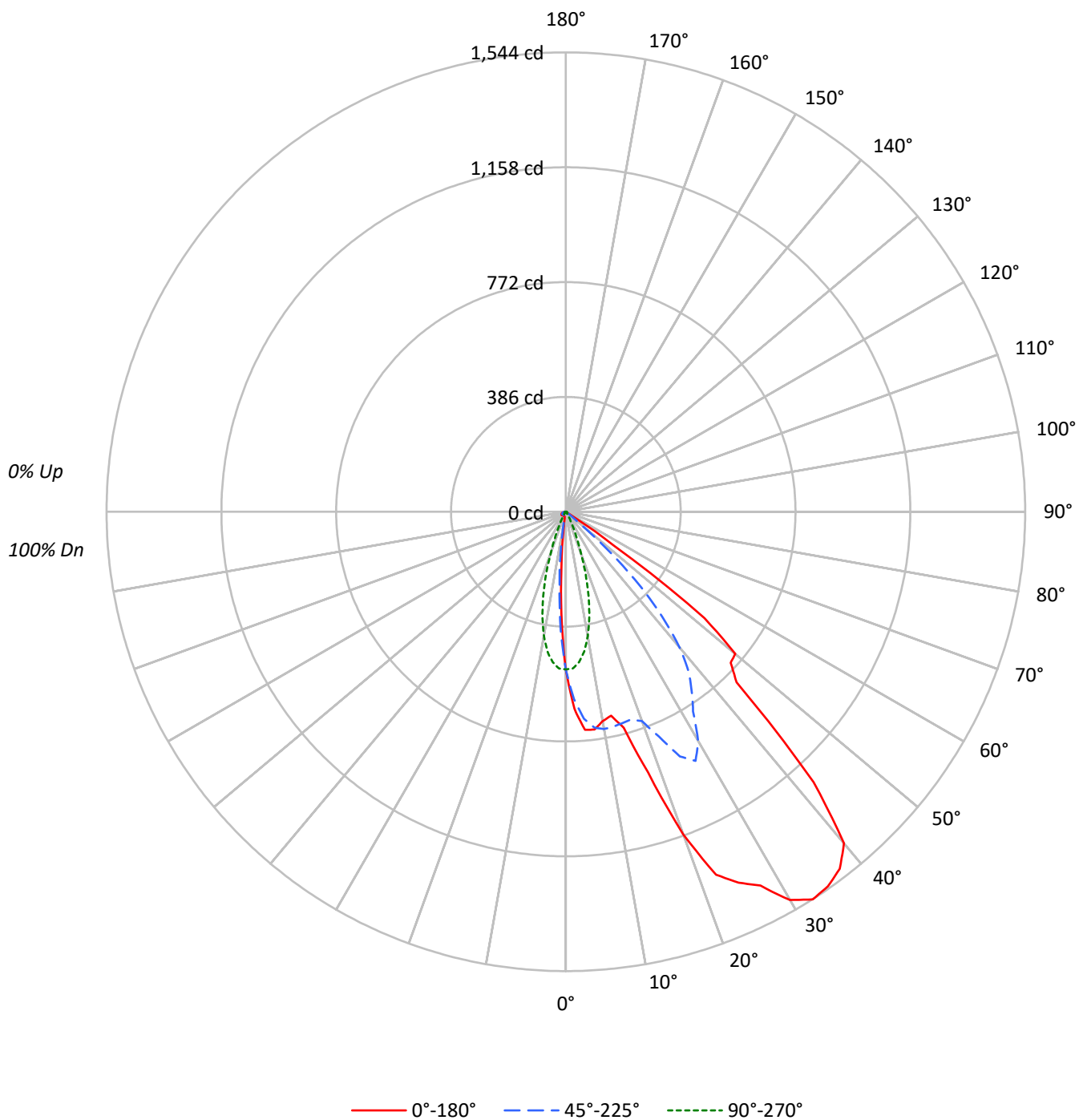
Lumens per Lamp: N/A
Luminaire Lumens: 824.0 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	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°	91244	91244	91244	91244	91244
5°	127223	120688	87702	42148	27350
10°	124881	129708	74114	8884	3812
15°	133920	131067	52402	3102	2978
20°	211482	137255	27656	2657	2786
25°	261325	172373	11041	2489	2755
30°	299611	176791	4474	2446	2884
35°	322999	155161	1976	2586	3196
40°	326957	133611	1461	2945	3597
45°	197600	86610	1413	3191	4067
50°	199099	14977	1554	3697	4662
55°	58821	871	1742	4144	5225
60°	999	999	1757	4512	5752
65°	897	897	1793	4727	6194
70°	1108	1108	1813	5136	6949
75°	998	998	1930	5323	7253
80°	694	1488	2182	5058	7934
85°	1383	2964	2964	5730	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 225707 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	5.2
10°-20°	106.4	12.9
20°-30°	199.3	24.2
30°-40°	238.2	28.9
40°-50°	170.7	20.7
50°-60°	52.6	6.4
60°-70°	6.9	0.8
70°-80°	5.0	0.6
80°-90°	2.1	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°	348.5	42.3
0°-40°	586.7	71.2
0°-60°	810.1	98.3
0°-90°	824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	824.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	530	530	530	530	530	
5°	736	698	507	244	158	68
15°	751	735	294	17	17	241
25°	1375	907	58	13	14	634
35°	1536	738	9	12	15	953
45°	811	356	6	13	17	745
55°	196	3	6	14	17	252
65°	2	2	4	12	15	2
75°	2	2	3	8	11	1
85°	1	2	2	3	4	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°	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8
2.5°	662.6	664.0	666.2	660.4	656.8	653.9	648.8	647.3	635.0	629.9	624.8
5°	735.9	734.4	735.9	733.7	732.2	727.9	723.5	716.3	708.3	698.1	686.5
7.5°	738.0	736.6	739.5	739.5	742.4	742.4	742.4	743.1	738.8	731.5	721.3
10°	714.1	714.1	717.0	715.5	720.6	722.8	727.9	736.6	740.9	741.7	738.8
12.5°	701.8	701.8	702.5	699.6	701.0	703.2	709.0	719.2	729.3	739.5	745.3
15°	751.1	752.6	742.4	727.9	717.0	705.4	701.8	708.3	719.2	735.1	748.2
17.5°	918.7	920.9	910.0	875.2	841.8	793.9	751.1	730.1	718.4	731.5	748.9
20°	1153.9	1145.9	1127.0	1090.0	1041.4	967.4	900.6	833.1	768.5	748.9	754.7
22.5°	1320.1	1317.1	1301.9	1260.5	1218.5	1149.5	1064.6	970.3	876.6	817.1	785.9
25°	1375.2	1373.0	1359.2	1334.6	1311.3	1259.1	1182.9	1087.8	989.9	907.1	828.8
27.5°	1416.6	1413.7	1391.9	1364.3	1340.4	1287.4	1217.7	1145.9	1055.9	944.1	823.7
30°	1506.6	1498.6	1468.1	1418.7	1373.0	1299.7	1222.8	1133.5	1011.6	889.0	771.4
32.5°	1544.3	1539.9	1513.8	1473.9	1423.8	1328.0	1211.2	1061.7	901.3	795.4	709.7
35°	1536.3	1529.8	1502.9	1457.2	1396.2	1304.1	1148.1	942.7	812.1	738.0	641.5
37.5°	1512.4	1502.9	1471.0	1417.3	1343.3	1222.8	1018.9	846.2	762.0	678.5	548.6
40°	1454.3	1439.1	1402.1	1346.2	1272.2	1114.0	901.3	788.1	709.7	594.3	444.9
42.5°	1232.2	1224.3	1242.4	1233.0	1167.7	981.1	817.9	735.1	627.0	480.4	322.2
45°	811.3	825.1	857.8	913.7	926.7	844.0	749.6	648.1	516.0	355.6	185.8
47.5°	751.1	748.2	756.2	767.1	769.2	734.4	648.8	535.6	383.2	203.2	51.5
50°	743.1	738.8	732.2	719.2	691.6	624.1	526.9	390.4	221.3	55.9	3.6
52.5°	587.1	582.7	582.7	563.9	528.3	463.0	363.6	214.8	61.7	3.6	2.9
55°	195.9	209.0	206.8	206.1	222.1	204.6	156.8	55.2	5.1	2.9	2.9
57.5°	3.6	3.6	3.6	6.5	10.2	14.5	8.7	4.4	2.9	2.9	2.9
60°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
62.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
65°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9
67.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
70°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.2
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2
77.5°	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5
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°	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8
2.5°	613.2	603.1	583.5	527.6	465.9	395.5	347.6	341.8
5°	668.4	653.1	621.2	507.3	366.5	243.8	181.4	158.2
7.5°	704.7	684.3	645.1	473.9	267.1	128.4	68.9	55.2
10°	726.4	707.6	657.5	423.8	169.8	50.8	23.2	21.8
12.5°	738.0	719.9	661.8	363.6	95.8	23.2	18.1	18.1
15°	746.0	726.4	655.3	293.9	47.9	17.4	16.7	16.7
17.5°	749.6	725.7	636.4	221.3	25.4	16.0	16.0	16.0
20°	751.8	717.7	601.6	150.9	17.4	14.5	15.2	15.2
22.5°	754.0	698.1	555.9	95.8	13.8	13.8	14.5	14.5
25°	749.6	664.0	491.3	58.1	12.3	13.1	13.8	14.5
27.5°	718.4	612.5	412.9	35.6	10.9	12.3	13.8	14.5
30°	664.7	537.0	322.2	22.5	10.2	12.3	13.8	14.5
32.5°	595.1	450.7	230.0	13.8	10.2	12.3	13.8	14.5
35°	501.5	344.7	149.5	9.4	10.2	12.3	14.5	15.2
37.5°	396.2	240.9	80.6	7.3	10.2	12.3	14.5	15.2
40°	285.2	144.4	29.0	6.5	9.4	13.1	15.2	16.0
42.5°	166.9	53.7	5.1	5.8	9.4	13.1	15.2	16.0
45°	47.9	5.8	2.9	5.8	9.4	13.1	16.0	16.7
47.5°	3.6	2.2	2.9	5.8	9.4	13.1	16.0	17.4
50°	2.2	2.2	2.2	5.8	9.4	13.8	16.7	17.4
52.5°	2.9	2.9	2.9	5.8	9.4	13.8	16.7	17.4
55°	2.9	2.9	2.9	5.8	9.4	13.8	16.7	17.4
57.5°	2.9	2.9	2.9	5.8	9.4	13.1	16.7	17.4
60°	2.9	2.9	2.9	5.1	8.7	13.1	16.0	16.7
62.5°	2.9	2.9	2.9	5.1	8.7	12.3	16.0	16.0
65°	2.9	2.9	2.9	4.4	8.0	11.6	14.5	15.2
67.5°	2.9	2.9	2.9	4.4	7.3	10.9	13.8	14.5
70°	2.2	2.9	2.9	3.6	6.5	10.2	13.1	13.8
72.5°	2.2	2.2	2.9	3.6	5.8	8.7	11.6	12.3
75°	2.2	2.2	2.2	2.9	5.1	8.0	10.2	10.9
77.5°	2.2	2.2	2.2	2.9	4.4	6.5	9.4	9.4
80°	1.5	2.2	2.2	2.2	3.6	5.1	7.3	8.0
82.5°	1.5	1.5	1.5	2.2	2.9	4.4	5.8	5.8
85°	1.5	1.5	1.5	1.5	2.2	2.9	3.6	3.6
87.5°	0.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)