

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: P1316315

Luminaire Tested: P3SQAS13R659827DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R659827DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 98CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

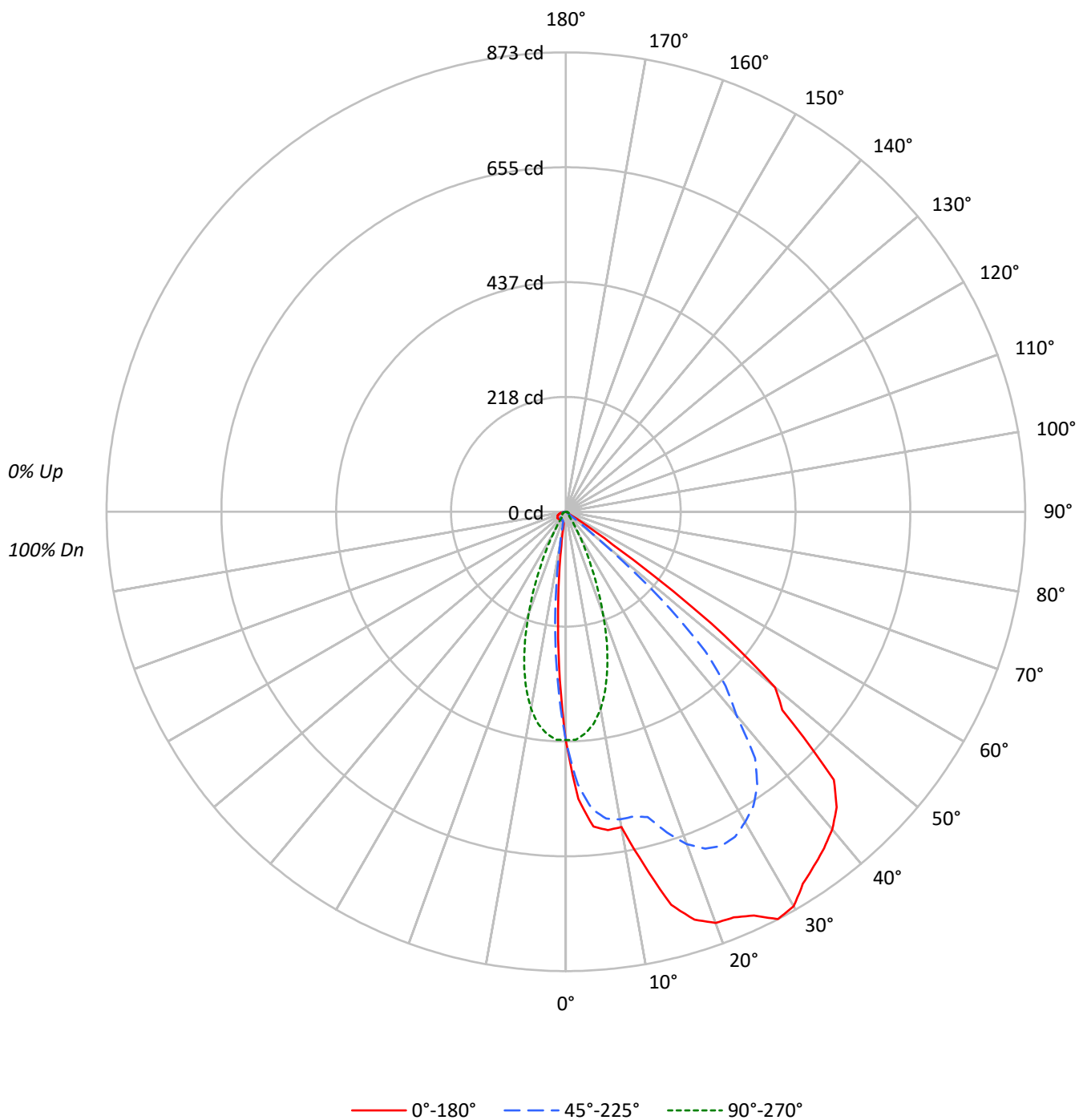
Lumens per Lamp: N/A
Luminaire Lumens: 650.0 lumens
Efficiency: N/A
Efficacy: 44.8 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	109	106	104	101	102	100	98	99	97	95	95	94	92	90		
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	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	56	66	60	55	64	59	55	63	58	54	53		
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48		
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43		
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40		
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	74693	74693	74693	74693	74693
5°	103815	97971	73111	40177	28266
10°	106432	103826	66507	11227	4127
15°	137896	107068	54434	3619	3495
20°	152394	123179	37883	3226	3336
25°	160839	133114	21435	3078	3344
30°	172218	135408	9665	3082	3500
35°	172842	133358	3133	3259	3826
40°	177069	113287	2136	3485	4249
45°	175387	91310	2143	3775	4603
50°	139163	21542	2170	4153	5251
55°	33059	1231	2222	4654	5885
60°	1171	1412	2549	4891	6269
65°	1386	1386	2486	5216	6887
70°	1007	1360	2367	5086	7150
75°	932	1331	2262	5390	7187
80°	694	1389	2678	5356	7339
85°	1383	2766	2766	5335	6719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 45°

Luminance: 175704 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	5.6
10°-20°	95.3	14.7
20°-30°	149.7	23.0
30°-40°	171.3	26.3
40°-50°	137.7	21.2
50°-60°	44.8	6.9
60°-70°	8.0	1.2
70°-80°	5.3	0.8
80°-90°	1.9	0.3
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°	281.2	43.3
0°-40°	452.5	69.6
0°-60°	634.9	97.7
0°-90°	650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	650.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	434	434	434	434	434	
5°	600	567	423	232	164	57
15°	773	600	305	20	20	215
25°	846	700	113	16	18	394
35°	822	634	15	16	18	516
45°	720	375	9	16	19	518
55°	110	4	7	16	20	157
65°	3	3	6	13	17	3
75°	1	2	3	8	11	2
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°	433.7	433.7	433.7	433.7	433.7	433.7	433.7	433.7	433.7	433.7	433.7
2.5°	545.8	543.8	546.5	541.7	541.1	536.3	533.6	532.3	526.2	518.1	510.7
5°	600.5	592.4	594.4	593.7	590.4	588.3	585.6	582.3	574.2	566.7	557.3
7.5°	610.0	603.2	604.6	605.2	603.2	602.5	601.9	600.5	595.1	588.3	580.2
10°	608.6	601.9	601.2	599.2	597.1	597.8	597.8	597.8	596.5	593.7	591.0
12.5°	687.0	677.5	675.5	661.3	648.5	626.2	612.0	598.5	592.4	593.1	591.0
15°	773.4	772.8	766.0	752.5	730.9	710.6	678.2	653.9	622.8	600.5	591.0
17.5°	812.6	811.9	805.9	794.4	778.8	759.9	736.3	707.9	673.5	639.0	610.6
20°	831.5	836.2	829.5	820.0	805.2	787.6	765.3	739.7	707.2	672.1	638.3
22.5°	834.2	840.3	834.2	827.5	816.7	805.2	786.3	759.9	726.8	693.0	659.9
25°	846.4	848.4	835.6	826.8	816.7	808.6	793.7	770.7	737.0	700.5	668.1
27.5°	872.7	863.9	836.9	824.8	815.3	807.9	793.7	770.0	733.6	696.4	662.6
30°	866.0	862.6	838.9	827.5	819.4	811.9	794.4	764.0	720.1	680.9	645.8
32.5°	838.3	845.0	836.9	832.9	828.8	819.4	793.7	752.5	703.2	663.3	616.0
35°	822.1	830.2	830.8	830.8	826.1	811.9	781.5	735.6	686.3	634.3	570.8
37.5°	805.9	812.6	816.7	819.4	812.6	792.3	753.8	712.6	658.6	590.4	478.9
40°	787.6	792.3	795.7	797.1	786.9	760.6	725.5	678.9	618.1	503.9	427.6
42.5°	761.9	764.6	764.0	763.3	752.5	723.4	690.3	641.7	521.5	449.2	356.7
45°	720.1	717.4	721.4	721.4	707.2	685.6	641.7	547.1	466.8	374.9	229.7
47.5°	557.9	560.0	579.6	611.3	630.9	624.8	565.4	478.9	392.5	245.9	76.3
50°	519.4	517.4	518.1	521.5	523.5	506.6	464.1	404.6	259.4	80.4	5.4
52.5°	348.5	350.6	366.1	401.9	413.4	401.2	360.7	270.2	94.6	5.4	4.7
55°	110.1	117.5	126.3	145.2	178.3	199.3	195.2	95.9	6.1	4.1	4.7
57.5°	4.1	4.1	5.4	9.5	18.2	29.7	31.1	6.1	4.7	4.7	4.7
60°	3.4	3.4	3.4	3.4	3.4	3.4	4.1	4.1	4.1	4.1	4.1
62.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.1	4.1	4.1	4.1
65°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.1
67.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.4	3.4	3.4	3.4
70°	2.0	2.0	2.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.4
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7	2.7
75°	1.4	1.4	1.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.0
80°	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0
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	0.7	0.7	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°	433.7	433.7	433.7	433.7	433.7	433.7	433.7	433.7
2.5°	506.6	498.5	482.3	433.7	383.0	332.3	300.6	292.5
5°	546.5	537.0	514.0	422.9	320.2	232.4	182.4	163.5
7.5°	570.8	559.3	532.3	406.0	249.3	135.1	81.1	64.8
10°	581.6	571.5	541.1	380.3	180.4	64.2	28.4	23.6
12.5°	586.3	578.2	544.4	346.5	117.5	28.4	20.9	20.3
15°	588.3	579.6	543.1	305.3	66.9	20.3	19.6	19.6
17.5°	590.4	580.2	535.0	258.0	37.2	18.9	18.2	18.9
20°	606.6	577.5	520.8	206.7	24.3	17.6	17.6	18.2
22.5°	622.8	576.9	495.8	158.1	18.9	16.9	17.6	17.6
25°	628.2	570.1	464.1	112.8	16.2	16.2	16.9	17.6
27.5°	618.1	550.5	421.5	76.3	14.2	16.2	16.9	17.6
30°	594.4	517.4	370.2	48.6	13.5	15.5	16.9	17.6
32.5°	550.5	451.9	312.7	29.0	12.8	15.5	17.6	17.6
35°	462.7	378.9	247.9	14.9	12.8	15.5	17.6	18.2
37.5°	404.6	316.1	172.9	10.1	12.8	15.5	17.6	18.2
40°	335.7	228.3	72.3	9.5	12.8	15.5	17.6	18.9
42.5°	232.4	99.3	11.5	8.8	12.2	15.5	18.2	18.9
45°	83.8	12.8	5.4	8.8	12.2	15.5	18.2	18.9
47.5°	7.4	4.7	5.4	8.8	12.2	15.5	18.2	19.6
50°	4.7	4.7	4.7	8.1	12.2	15.5	18.2	19.6
52.5°	4.7	4.7	4.7	8.1	11.5	15.5	18.9	19.6
55°	4.7	4.7	4.7	7.4	11.5	15.5	18.2	19.6
57.5°	4.7	4.7	5.4	7.4	11.5	14.9	18.2	18.9
60°	4.7	4.7	4.7	7.4	10.8	14.2	17.6	18.2
62.5°	4.1	4.7	4.7	6.8	10.1	13.5	16.9	17.6
65°	4.1	4.1	4.7	6.1	9.5	12.8	15.5	16.9
67.5°	3.4	4.1	4.1	5.4	8.1	11.5	14.2	15.5
70°	3.4	3.4	3.4	4.7	7.4	10.1	13.5	14.2
72.5°	2.7	3.4	3.4	4.1	6.1	8.8	11.5	12.8
75°	2.7	2.7	2.7	3.4	5.4	8.1	10.1	10.8
77.5°	2.0	2.0	2.7	2.7	4.7	6.1	8.8	9.5
80°	2.0	2.0	2.0	2.7	3.4	5.4	6.8	7.4
82.5°	1.4	1.4	1.4	2.0	2.7	3.4	4.7	5.4
85°	1.4	1.4	1.4	1.4	2.0	2.7	3.4	3.4
87.5°	0.7	0.7	0.7	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)