

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: P1316144

Luminaire Tested: P3SQAS09R509827DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316144
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: P3SQAS09R509827DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

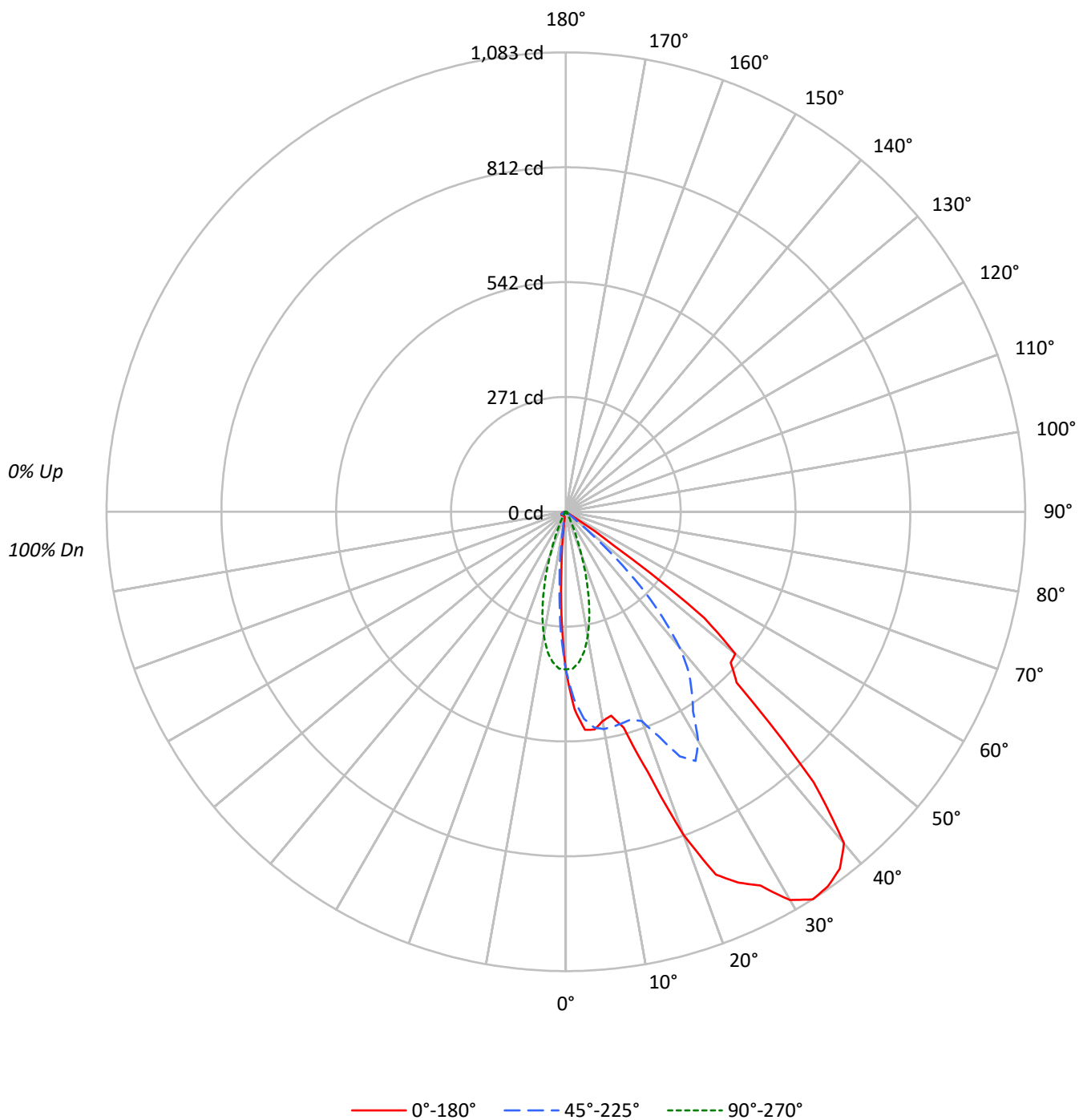
Lumens per Lamp: N/A
Luminaire Lumens: 578.0 lumens
Efficiency: N/A
Efficacy: 52.5 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	93	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	83	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	74	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	67	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	60	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	54	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	49	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	45	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	41	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	37	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	63998	63998	63998	63998	63998
5°	89241	84660	61511	29563	19190
10°	87597	90972	51992	6226	2676
15°	93945	91948	36765	2175	2086
20°	148343	96275	19409	1869	1961
25°	183300	120914	7734	1748	1938
30°	210161	124013	3142	1730	2028
35°	226581	108844	1388	1829	2250
40°	229340	93728	1034	2068	2518
45°	138610	60744	999	2241	2850
50°	139672	10503	1099	2599	3269
55°	41256	601	1231	2913	3663
60°	689	689	1240	3169	4030
65°	611	611	1263	3301	4360
70°	755	755	1259	3575	4884
75°	665	665	1331	3726	5057
80°	496	992	1488	3570	5554
85°	988	1976	1976	3952	4940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 158338 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.1	5.2
10°-20°	74.6	12.9
20°-30°	139.8	24.2
30°-40°	167.1	28.9
40°-50°	119.8	20.7
50°-60°	36.9	6.4
60°-70°	4.8	0.8
70°-80°	3.5	0.6
80°-90°	1.4	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°	244.4	42.3
0°-40°	411.6	71.2
0°-60°	568.2	98.3
0°-90°	578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	578.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	372	372	372	372	372	
5°	516	490	356	171	111	48
15°	527	516	206	12	12	169
25°	965	636	41	9	10	444
35°	1078	518	7	9	11	669
45°	569	249	4	9	12	523
55°	137	2	4	10	12	177
65°	2	2	3	8	11	2
75°	1	1	2	6	8	1
85°	0	1	1	2	2	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°	371.6	371.6	371.6	371.6	371.6	371.6	371.6	371.6	371.6	371.6	371.6
2.5°	464.8	465.8	467.3	463.2	460.7	458.7	455.1	454.1	445.4	441.9	438.3
5°	516.2	515.2	516.2	514.6	513.6	510.6	507.5	502.4	496.8	489.7	481.6
7.5°	517.7	516.7	518.7	518.7	520.8	520.8	520.8	521.3	518.2	513.1	506.0
10°	500.9	500.9	502.9	501.9	505.5	507.0	510.6	516.7	519.7	520.2	518.2
12.5°	492.2	492.2	492.8	490.7	491.7	493.3	497.3	504.5	511.6	518.7	522.8
15°	526.9	527.9	520.8	510.6	502.9	494.8	492.2	496.8	504.5	515.7	524.8
17.5°	644.5	646.0	638.3	613.9	590.5	556.9	526.9	512.1	504.0	513.1	525.3
20°	809.4	803.8	790.6	764.6	730.5	678.6	631.7	584.4	539.1	525.3	529.4
22.5°	926.0	923.9	913.2	884.2	854.7	806.3	746.8	680.6	614.9	573.2	551.3
25°	964.6	963.1	953.4	936.1	919.8	883.2	829.7	763.1	694.3	636.3	581.3
27.5°	993.7	991.6	976.4	957.0	940.2	903.1	854.2	803.8	740.7	662.3	577.8
30°	1056.8	1051.2	1029.8	995.2	963.1	911.7	857.7	795.1	709.6	623.6	541.1
32.5°	1083.3	1080.2	1061.9	1033.9	998.8	931.6	849.6	744.7	632.2	557.9	497.8
35°	1077.7	1073.1	1054.2	1022.2	979.4	914.8	805.3	661.3	569.6	517.7	450.0
37.5°	1060.9	1054.2	1031.8	994.2	942.2	857.7	714.7	593.5	534.5	476.0	384.8
40°	1020.1	1009.4	983.5	944.3	892.4	781.4	632.2	552.8	497.8	416.9	312.0
42.5°	864.4	858.8	871.5	864.9	819.1	688.2	573.7	515.7	439.8	337.0	226.0
45°	569.1	578.8	601.7	640.9	650.1	592.0	525.8	454.6	361.9	249.4	130.3
47.5°	526.9	524.8	530.4	538.1	539.6	515.2	455.1	375.7	268.8	142.5	36.1
50°	521.3	518.2	513.6	504.5	485.1	437.8	369.6	273.9	155.3	39.2	2.5
52.5°	411.8	408.8	408.8	395.5	370.6	324.8	255.0	150.7	43.3	2.5	2.0
55°	137.4	146.6	145.1	144.6	155.8	143.6	110.0	38.7	3.6	2.0	2.0
57.5°	2.5	2.5	2.5	4.6	7.1	10.2	6.1	3.1	2.0	2.0	2.0
60°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
62.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5
77.5°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
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°	371.6	371.6	371.6	371.6	371.6	371.6	371.6	371.6
2.5°	430.1	423.0	409.3	370.1	326.8	277.4	243.8	239.8
5°	468.8	458.1	435.7	355.8	257.1	171.0	127.3	111.0
7.5°	494.3	480.0	452.5	332.4	187.3	90.1	48.4	38.7
10°	509.6	496.3	461.2	297.3	119.1	35.6	16.3	15.3
12.5°	517.7	505.0	464.3	255.0	67.2	16.3	12.7	12.7
15°	523.3	509.6	459.7	206.2	33.6	12.2	11.7	11.7
17.5°	525.8	509.0	446.4	155.3	17.8	11.2	11.2	11.2
20°	527.4	503.4	422.0	105.9	12.2	10.2	10.7	10.7
22.5°	528.9	489.7	389.9	67.2	9.7	9.7	10.2	10.2
25°	525.8	465.8	344.6	40.7	8.7	9.2	9.7	10.2
27.5°	504.0	429.6	289.6	24.9	7.6	8.7	9.7	10.2
30°	466.3	376.7	226.0	15.8	7.1	8.7	9.7	10.2
32.5°	417.4	316.1	161.4	9.7	7.1	8.7	9.7	10.2
35°	351.8	241.8	104.9	6.6	7.1	8.7	10.2	10.7
37.5°	277.9	169.0	56.5	5.1	7.1	8.7	10.2	10.7
40°	200.1	101.3	20.4	4.6	6.6	9.2	10.7	11.2
42.5°	117.1	37.7	3.6	4.1	6.6	9.2	10.7	11.2
45°	33.6	4.1	2.0	4.1	6.6	9.2	11.2	11.7
47.5°	2.5	1.5	2.0	4.1	6.6	9.2	11.2	12.2
50°	1.5	1.5	1.5	4.1	6.6	9.7	11.7	12.2
52.5°	2.0	2.0	2.0	4.1	6.6	9.7	11.7	12.2
55°	2.0	2.0	2.0	4.1	6.6	9.7	11.7	12.2
57.5°	2.0	2.0	2.0	4.1	6.6	9.2	11.7	12.2
60°	2.0	2.0	2.0	3.6	6.1	9.2	11.2	11.7
62.5°	2.0	2.0	2.0	3.6	6.1	8.7	11.2	11.2
65°	2.0	2.0	2.0	3.1	5.6	8.1	10.2	10.7
67.5°	2.0	2.0	2.0	3.1	5.1	7.6	9.7	10.2
70°	1.5	2.0	2.0	2.5	4.6	7.1	9.2	9.7
72.5°	1.5	1.5	2.0	2.5	4.1	6.1	8.1	8.7
75°	1.5	1.5	1.5	2.0	3.6	5.6	7.1	7.6
77.5°	1.5	1.5	1.5	2.0	3.1	4.6	6.6	6.6
80°	1.0	1.5	1.5	1.5	2.5	3.6	5.1	5.6
82.5°	1.0	1.0	1.0	1.5	2.0	3.1	4.1	4.1
85°	1.0	1.0	1.0	1.0	1.5	2.0	2.5	2.5
87.5°	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)