

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: P1316143

Luminaire Tested: P3SQAS09R509827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316143
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: P3SQAS09R509827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

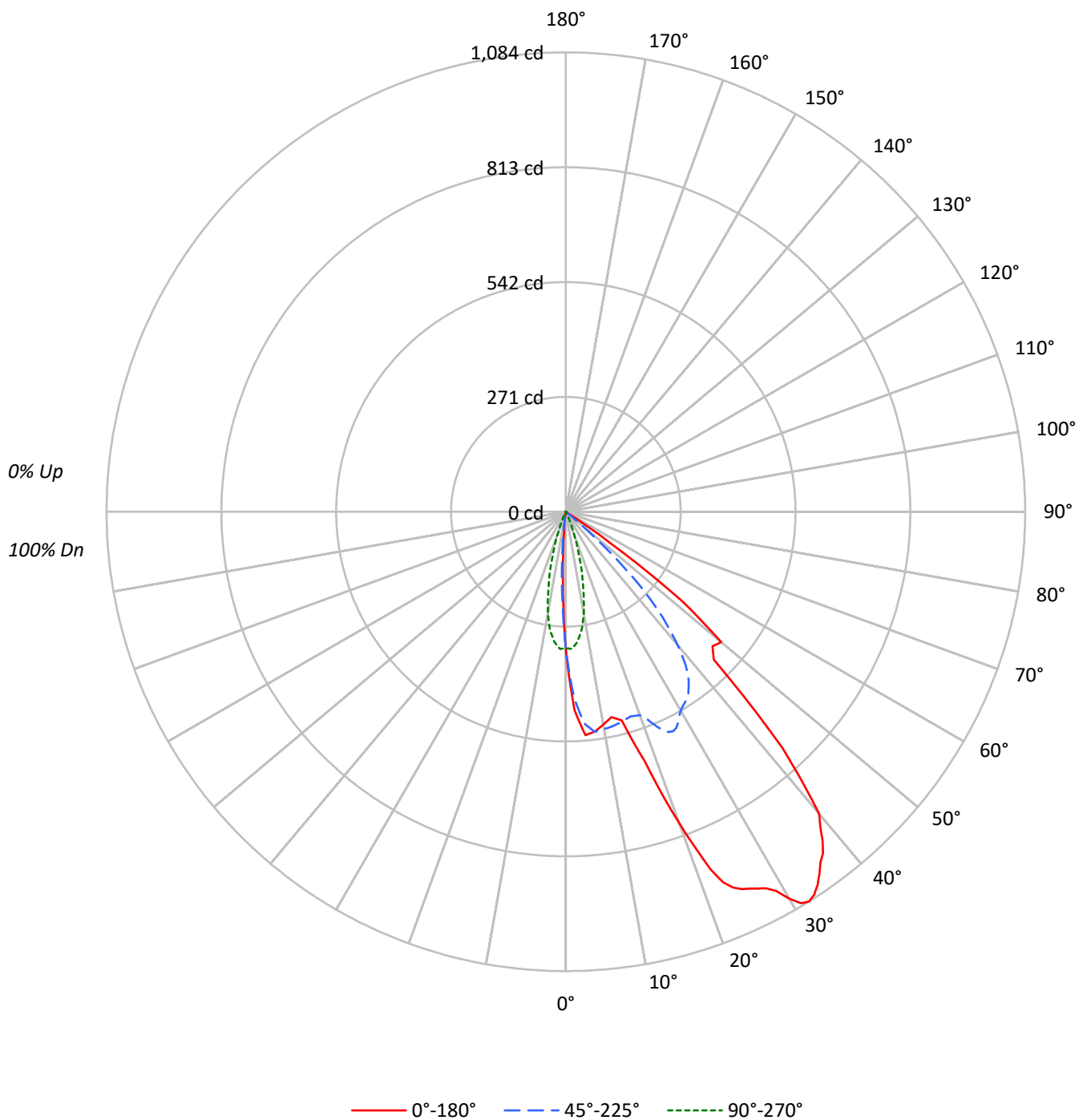
Lumens per Lamp: N/A
Luminaire Lumens: 519.0 lumens
Efficiency: N/A
Efficacy: 47.2 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	84	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	75	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	68	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	61	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	55	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	50	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	46	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	55490	55490	55490	55490	55490
5°	91436	86769	53334	15836	7918
10°	89119	91077	42741	804	1067
15°	90861	91396	25604	820	267
20°	143211	93580	10538	0	0
25°	186701	109018	2508	0	0
30°	209565	107825	99	0	0
35°	219307	106174	0	0	0
40°	209218	92244	0	0	0
45°	120148	60890	0	0	0
50°	128205	6966	0	0	0
55°	36542	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	992	496	0
85°	0	988	1976	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 132667 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.1	5.2
10°-20°	68.2	13.1
20°-30°	131.0	25.2
30°-40°	152.4	29.4
40°-50°	109.1	21.0
50°-60°	30.4	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°	226.2	43.6
0°-40°	378.6	73.0
0°-60°	518.1	99.8
0°-90°	519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	519.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	322	322	322	322	322	
5°	529	502	308	92	46	49
15°	510	513	144	5	2	164
25°	982	574	13	0	0	447
35°	1043	505	0	0	0	645
45°	493	250	0	0	0	464
55°	122	0	0	0	0	153
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°	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2
2.5°	468.3	470.9	471.4	465.3	466.3	457.6	458.2	452.0	437.3	385.9	323.8
5°	528.9	527.4	528.9	526.9	528.9	523.8	520.8	518.2	501.9	429.1	308.5
7.5°	523.3	521.3	524.3	525.4	528.9	527.4	527.9	529.4	523.8	452.6	282.5
10°	509.6	509.1	510.6	510.6	514.7	515.2	517.2	520.3	520.8	460.7	244.4
12.5°	496.3	494.8	494.8	494.3	496.3	495.8	500.9	508.0	517.7	455.6	191.9
15°	509.6	508.0	506.0	500.4	496.3	491.8	492.3	496.8	512.6	442.4	143.6
17.5°	616.5	608.3	598.2	580.3	561.5	528.9	509.6	497.4	506.5	422.0	95.7
20°	781.4	777.9	761.6	732.5	702.0	654.1	594.6	546.7	510.6	396.6	57.5
21°	844.0	842.0	824.7	797.7	763.1	705.1	644.0	586.4	518.7	385.9	45.3
22°	908.2	900.5	886.8	856.8	820.6	762.6	694.4	630.7	535.0	372.1	34.6
23°	949.4	944.8	930.1	906.1	871.5	815.0	745.3	676.0	550.8	356.9	26.0
24°	970.8	969.3	957.6	940.8	911.2	853.7	787.5	716.3	564.0	339.0	18.8
25°	982.5	977.4	970.3	958.1	935.7	885.8	826.7	751.4	573.7	321.2	13.2
26°	989.6	986.6	975.4	964.7	943.3	902.6	852.2	772.8	576.3	299.3	9.2
27°	997.8	990.6	979.9	967.2	943.3	907.7	861.8	781.9	573.2	276.9	6.1
28°	1006.4	1001.3	986.6	970.3	941.8	907.7	858.3	769.7	564.0	255.6	3.6
29°	1023.2	1016.6	998.3	974.3	942.3	906.6	844.5	744.3	551.8	231.6	2.0
30°	1053.8	1040.0	1017.6	984.0	945.8	904.6	821.6	706.1	542.2	204.6	0.5
31°	1077.7	1070.1	1044.1	1001.8	956.0	899.0	794.6	668.4	535.5	181.2	0.0
32°	1084.3	1078.7	1059.9	1020.2	973.3	894.4	764.1	631.7	530.4	155.3	0.0
33°	1076.7	1073.1	1053.3	1017.1	977.9	888.3	729.0	595.6	524.8	131.8	0.0
34°	1062.4	1057.8	1040.5	1003.9	966.2	861.8	695.4	568.1	516.7	110.0	0.0
35°	1043.1	1039.5	1021.7	985.5	944.8	820.6	661.8	549.8	505.0	88.1	0.0
36°	1022.2	1021.2	998.3	962.6	917.3	780.9	621.1	536.0	493.3	69.7	0.0
37°	1008.5	1003.4	978.4	943.3	884.8	734.6	588.5	531.5	477.0	54.0	0.0
38°	983.5	984.5	956.0	924.0	851.7	694.4	562.0	527.9	458.7	39.2	0.0
39°	954.0	954.5	925.0	897.5	812.5	652.1	540.1	524.3	435.8	24.9	0.0
40°	930.6	930.1	896.5	866.9	770.2	612.4	528.4	519.2	410.3	14.3	0.0
42.5°	756.5	759.5	763.6	775.8	670.9	542.7	517.2	490.7	338.0	0.0	0.0
45°	493.3	505.0	508.0	544.7	544.2	514.2	490.7	439.8	250.0	0.0	0.0
47.5°	469.4	472.9	479.5	493.8	501.4	486.7	438.8	367.5	136.4	0.0	0.0
50°	478.5	478.0	479.5	479.5	465.8	427.6	359.9	271.3	26.0	0.0	0.0
52.5°	343.6	356.3	370.1	376.2	358.4	318.2	262.7	159.3	0.0	0.0	0.0
55°	121.7	117.6	114.5	125.2	122.7	138.0	114.0	37.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	2.0	4.6	6.1	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	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0



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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	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0
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°	322.2	322.2	322.2	322.2
2.5°	258.1	198.0	160.4	162.9
5°	181.2	91.6	56.5	45.8
7.5°	108.4	28.0	5.6	4.6
10°	50.9	4.6	5.1	6.1
12.5°	15.3	4.1	5.6	5.1
15°	4.1	4.6	2.5	1.5
17.5°	1.5	2.0	0.0	0.0
20°	1.0	0.0	0.0	0.0
21°	1.0	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)