

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: P1312330

Luminaire Tested: P3SQAS09R559727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R559727DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

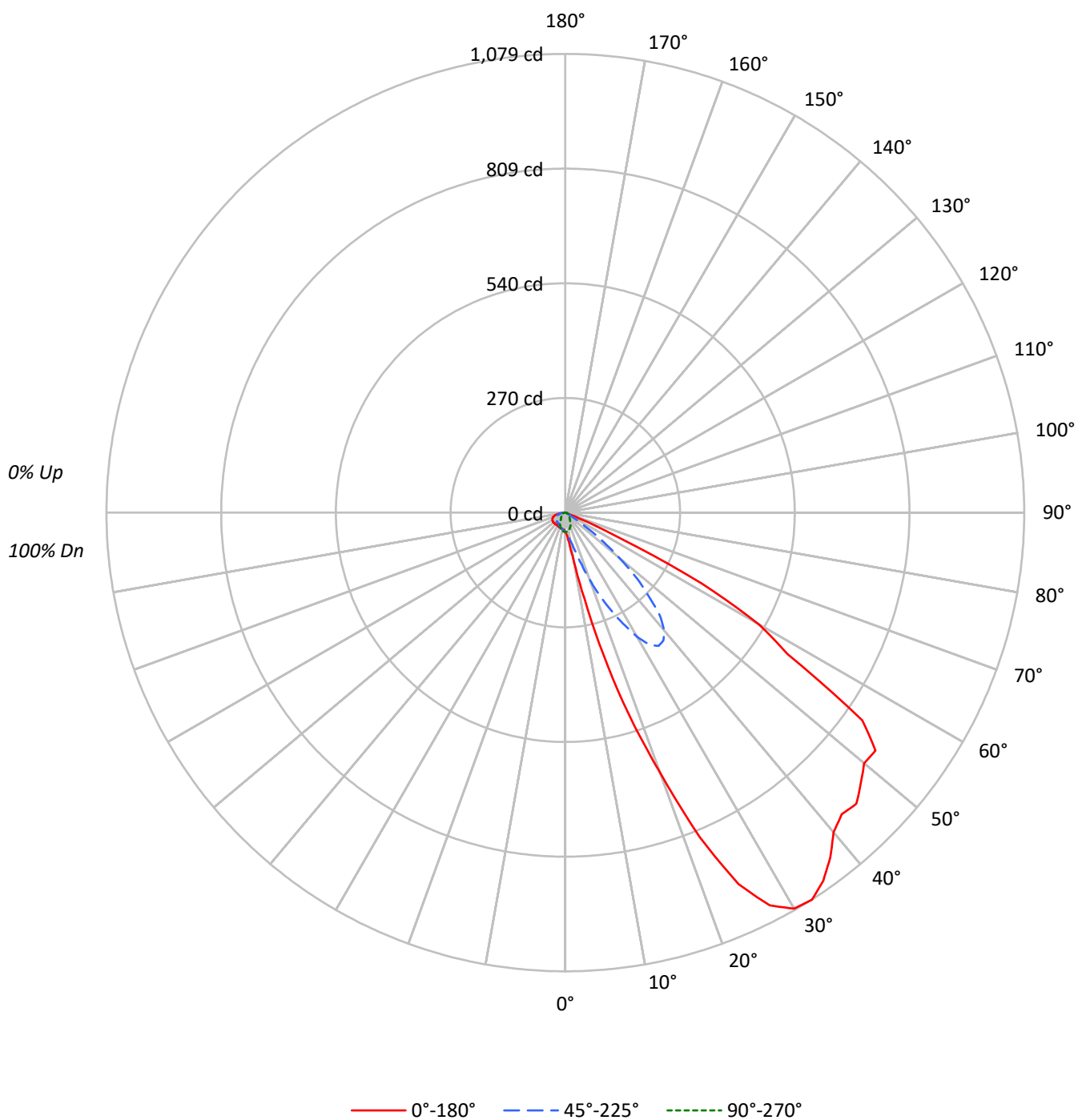
Lumens per Lamp: N/A
Luminaire Lumens: 694.0 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.9 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7716	7716	7716	7716	7716
5°	9854	9007	7745	7209	7002
10°	20059	11472	7502	6855	6855
15°	61548	17598	6989	6668	6882
20°	119019	30790	6286	6525	6855
25°	183167	47887	5473	6290	6879
30°	213880	66938	4514	6224	7080
35°	222250	80440	3742	6181	7359
40°	220572	81205	3440	6475	8004
45°	235814	67198	3288	7015	8671
50°	245773	44369	3296	7556	9699
55°	255912	19337	3303	8287	10689
60°	180799	4443	3376	9093	12056
65°	58967	1508	3260	9740	13489
70°	1863	1561	3374	10474	15459
75°	1664	1664	2861	11046	17168
80°	1190	1785	3075	10910	18249
85°	1186	2371	3557	10868	18180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 260048 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.7
10°-20°	29.5	4.2
20°-30°	98.8	14.2
30°-40°	162.2	23.4
40°-50°	180.9	26.1
50°-60°	152.3	21.9
60°-70°	51.7	7.4
70°-80°	10.1	1.5
80°-90°	3.8	0.5
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°	133.0	19.2
0°-40°	295.2	42.5
0°-60°	628.4	90.6
0°-90°	694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	694.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	45	45	45	45	45	
5°	57	52	45	42	40	7
15°	345	99	39	37	39	110
25°	964	252	29	33	36	433
35°	1057	383	18	29	35	656
45°	968	276	14	29	36	739
55°	852	64	11	28	36	694
65°	145	4	8	24	33	196
75°	2	2	4	17	26	3
85°	1	1	2	6	9	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
2.5°	49.1	49.1	49.1	49.1	49.1	49.1	48.4	46.6	45.4	43.5	42.9
5°	57.0	57.0	57.0	56.4	56.4	55.2	52.1	47.8	44.8	42.3	41.7
7.5°	73.6	73.0	71.7	71.1	69.3	68.7	57.6	49.1	44.1	41.1	40.5
10°	114.7	113.4	111.6	104.9	98.7	94.4	65.6	49.7	42.9	39.9	39.2
12.5°	206.6	204.2	195.0	180.9	163.7	155.1	78.5	50.3	41.1	38.6	38.6
15°	345.2	342.2	325.0	305.4	274.1	256.9	98.7	49.7	39.2	36.8	37.4
17.5°	498.5	489.9	472.2	446.4	404.1	383.9	128.8	48.4	36.8	35.6	36.8
20°	649.4	646.9	617.5	582.5	530.4	503.4	168.0	46.6	34.3	33.7	35.6
22.5°	826.0	815.5	784.3	746.9	675.1	639.6	210.3	44.1	31.9	31.9	34.3
25°	963.9	951.7	927.1	883.6	815.5	777.5	252.0	41.1	28.8	30.0	33.1
27.5°	1041.2	1027.1	1008.7	971.3	918.6	884.8	293.7	37.4	25.8	28.2	31.9
30°	1075.5	1071.9	1058.4	1030.8	982.3	952.3	336.6	33.1	22.7	26.4	31.3
32.5°	1079.2	1081.1	1075.5	1057.8	1021.0	995.2	368.5	29.4	20.2	25.1	30.0
35°	1057.1	1063.9	1067.6	1060.2	1036.3	1015.4	382.6	25.1	17.8	23.9	29.4
37.5°	1022.8	1035.1	1047.3	1049.2	1034.5	1021.0	379.0	21.5	16.6	23.3	29.4
40°	981.1	992.1	1017.3	1033.2	1028.3	1018.5	361.2	17.8	15.3	22.1	28.8
42.5°	962.1	964.5	991.5	1018.5	1017.3	1009.3	329.9	14.1	14.1	22.1	28.8
45°	968.2	957.2	975.0	1006.2	1004.4	994.0	275.9	11.0	13.5	21.5	28.8
47.5°	942.5	927.1	957.2	994.0	987.2	971.9	228.1	8.0	12.9	20.8	28.2
50°	917.3	914.9	938.2	956.6	947.4	938.8	165.6	6.1	12.3	20.2	28.2
52.5°	919.2	914.9	917.3	916.7	898.3	889.1	113.4	4.9	11.7	19.6	28.2
55°	852.3	838.8	826.0	829.6	830.9	824.7	64.4	4.3	11.0	19.6	27.6
57.5°	619.3	615.6	629.7	669.6	700.9	704.6	31.3	4.3	10.4	19.0	27.0
60°	524.9	522.4	523.1	534.7	551.3	540.8	12.9	4.3	9.8	18.4	26.4
62.5°	361.8	385.7	395.5	422.5	411.5	396.7	4.9	4.9	9.2	17.2	25.8
65°	144.7	144.1	157.6	170.5	166.8	155.8	3.7	4.3	8.0	15.9	23.9
67.5°	33.7	30.7	26.4	22.7	19.0	15.3	3.7	4.3	7.4	14.7	22.7
70°	3.7	3.7	3.7	3.7	3.7	3.1	3.1	4.3	6.7	13.5	20.8
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.7	5.5	11.7	19.0
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.1	4.3	9.8	16.6
77.5°	1.8	1.8	1.8	2.5	1.8	2.5	2.5	3.1	3.7	8.0	14.1
80°	1.2	1.2	1.8	1.8	1.8	1.8	1.8	2.5	3.1	6.7	11.0
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	2.5	4.9	8.0
85°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.8	1.8	3.7	5.5
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.8	1.8	2.5
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):

	157.5°	180°
0°	44.8	44.8
2.5°	42.3	42.3
5°	41.1	40.5
7.5°	39.9	39.9
10°	39.2	39.2
12.5°	38.6	39.2
15°	38.6	38.6
17.5°	37.4	38.0
20°	36.8	37.4
22.5°	36.2	36.8
25°	35.6	36.2
27.5°	35.0	35.6
30°	34.3	35.6
32.5°	33.7	35.0
35°	33.7	35.0
37.5°	33.7	35.6
40°	33.7	35.6
42.5°	33.7	35.6
45°	33.7	35.6
47.5°	33.7	35.6
50°	33.7	36.2
52.5°	33.7	36.2
55°	33.7	35.6
57.5°	33.1	35.6
60°	33.1	35.0
62.5°	32.5	34.3
65°	31.3	33.1
67.5°	30.0	32.5
70°	28.2	30.7
72.5°	26.4	28.2
75°	23.9	25.8
77.5°	20.8	22.1
80°	16.6	18.4
82.5°	12.9	14.1
85°	8.6	9.2
87.5°	3.7	4.3
90°	0.0	0.0

(END OF REPORT)