

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: P1312499

Luminaire Tested: P3SQAS13R559727DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312499
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: P3SQAS13R559727DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

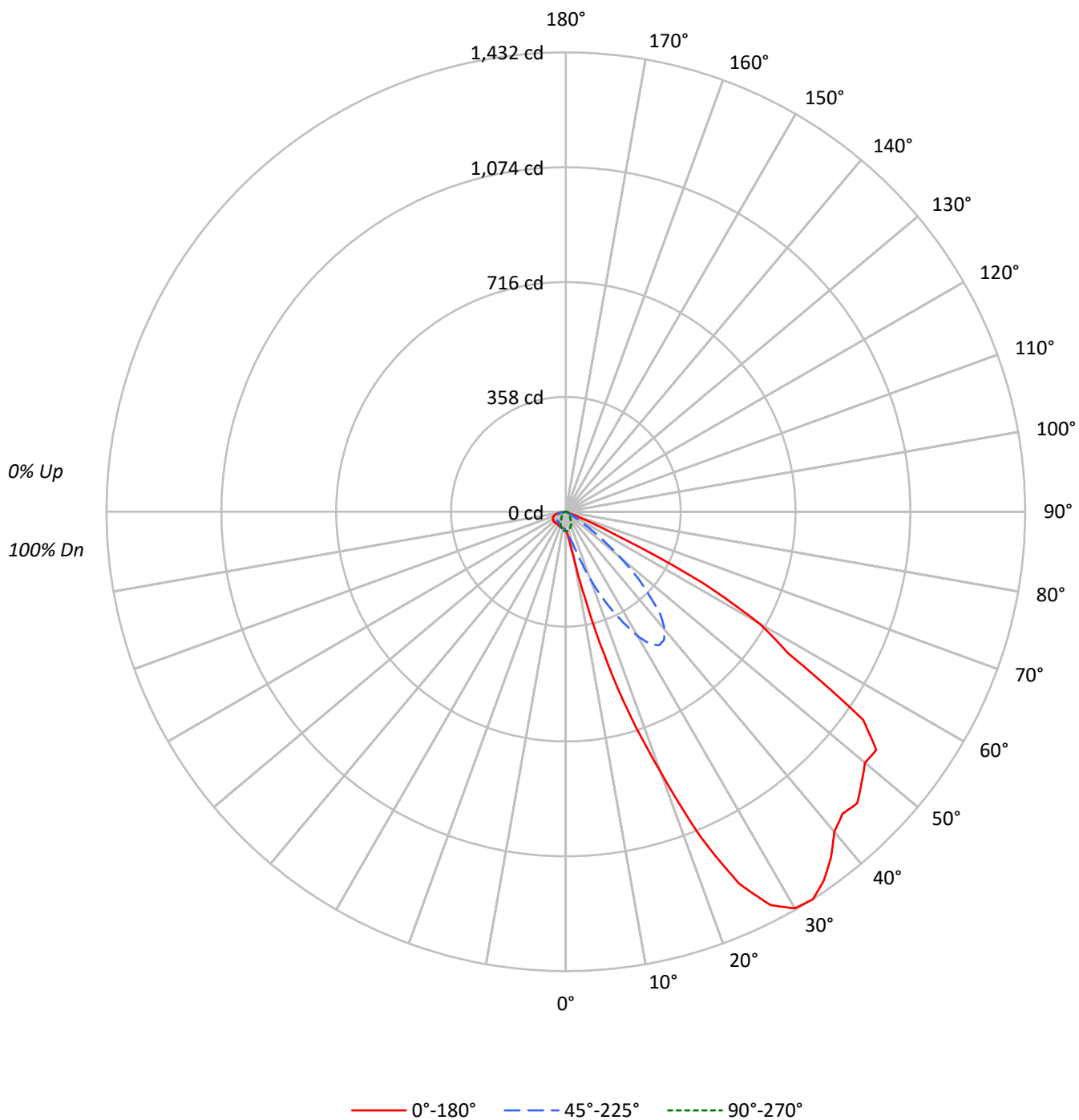
Lumens per Lamp: N/A
Luminaire Lumens: 921.0 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.9 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	110	106	102	99	107	104	100	97	99	97	94		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	91	81	73	67	89	80	72	67	77	71	65		74	69	64		72	67	63	61
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	51
5	76	63	54	47	74	62	53	47	60	52	47		58	51	46		56	50	46	43
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		50	44	39	37
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	38	34	32
8	59	45	36	30	57	44	36	30	43	35	30		41	35	29		40	34	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		36	30	26	24
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10230	10230	10230	10230	10230
5°	13087	11963	10269	9560	9284
10°	26617	15232	9968	9111	9111
15°	81678	23357	9289	8844	9147
20°	157947	40870	8357	8651	9090
25°	243082	63564	7259	8342	9121
30°	283841	88853	5986	8253	9386
35°	294953	106762	4962	8221	9755
40°	292717	107757	4564	8588	10612
45°	312950	89192	4360	9304	11496
50°	326179	58864	4367	10021	12861
55°	339625	25642	4384	10990	14172
60°	239941	5890	4478	12056	15982
65°	78243	1997	4320	12918	17890
70°	2467	2065	4532	13948	20494
75°	2196	2196	3793	14639	22757
80°	1587	2380	4066	14480	24200
85°	1581	3162	4742	14425	24108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 345090 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.7
10°-20°	39.1	4.2
20°-30°	131.1	14.2
30°-40°	215.3	23.4
40°-50°	240.1	26.1
50°-60°	202.1	21.9
60°-70°	68.6	7.4
70°-80°	13.4	1.5
80°-90°	5.0	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°	176.5	19.2
0°-40°	391.8	42.5
0°-60°	834.0	90.6
0°-90°	921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	921.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	76	69	59	55	54	9
15°	458	131	52	50	51	145
25°	1279	334	38	44	48	575
35°	1403	508	24	39	46	871
45°	1285	366	18	38	47	981
55°	1131	85	15	37	47	921
65°	192	5	11	32	44	260
75°	3	3	6	22	34	3
85°	1	2	2	7	12	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°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
2.5°	65.1	65.1	65.1	65.1	65.1	65.1	64.3	61.8	60.2	57.8	57.0
5°	75.7	75.7	75.7	74.9	74.9	73.2	69.2	63.5	59.4	56.1	55.3
7.5°	97.7	96.8	95.2	94.4	92.0	91.1	76.5	65.1	58.6	54.5	53.7
10°	152.2	150.5	148.1	139.2	131.0	125.3	87.1	65.9	57.0	52.9	52.1
12.5°	274.2	271.0	258.8	240.1	217.3	205.9	104.2	66.7	54.5	51.3	51.3
15°	458.1	454.1	431.3	405.3	363.8	341.0	131.0	65.9	52.1	48.8	49.6
17.5°	661.6	650.2	626.6	592.4	536.3	509.4	170.9	64.3	48.8	47.2	48.8
20°	861.8	858.5	819.5	773.1	703.9	668.1	223.0	61.8	45.6	44.8	47.2
22.5°	1096.1	1082.3	1040.8	991.2	895.9	848.8	279.1	58.6	42.3	42.3	45.6
25°	1279.2	1263.0	1230.4	1172.6	1082.3	1031.8	334.5	54.5	38.2	39.9	43.9
27.5°	1381.8	1363.0	1338.6	1289.0	1219.0	1174.3	389.8	49.6	34.2	37.4	42.3
30°	1427.3	1422.5	1404.5	1367.9	1303.6	1263.8	446.8	43.9	30.1	35.0	41.5
32.5°	1432.2	1434.7	1427.3	1403.7	1354.9	1320.7	489.1	39.1	26.9	33.4	39.9
35°	1402.9	1411.9	1416.8	1407.0	1375.3	1347.6	507.8	33.4	23.6	31.7	39.1
37.5°	1357.3	1373.6	1389.9	1392.3	1372.8	1354.9	502.9	28.5	22.0	30.9	39.1
40°	1302.0	1316.7	1350.0	1371.2	1364.7	1351.7	479.3	23.6	20.3	29.3	38.2
42.5°	1276.8	1280.0	1315.8	1351.7	1350.0	1339.4	437.8	18.7	18.7	29.3	38.2
45°	1284.9	1270.3	1293.9	1335.4	1332.9	1319.1	366.2	14.6	17.9	28.5	38.2
47.5°	1250.7	1230.4	1270.3	1319.1	1310.2	1289.8	302.7	10.6	17.1	27.7	37.4
50°	1217.4	1214.1	1245.1	1269.5	1257.3	1245.9	219.7	8.1	16.3	26.9	37.4
52.5°	1219.8	1214.1	1217.4	1216.6	1192.2	1179.9	150.5	6.5	15.5	26.0	37.4
55°	1131.1	1113.2	1096.1	1101.0	1102.6	1094.5	85.4	5.7	14.6	26.0	36.6
57.5°	821.9	817.0	835.7	888.6	930.1	935.0	41.5	5.7	13.8	25.2	35.8
60°	696.6	693.3	694.1	709.6	731.6	717.7	17.1	5.7	13.0	24.4	35.0
62.5°	480.1	511.9	524.9	560.7	546.0	526.5	6.5	6.5	12.2	22.8	34.2
65°	192.0	191.2	209.1	226.2	221.3	206.7	4.9	5.7	10.6	21.2	31.7
67.5°	44.8	40.7	35.0	30.1	25.2	20.3	4.9	5.7	9.8	19.5	30.1
70°	4.9	4.9	4.9	4.9	4.9	4.1	4.1	5.7	9.0	17.9	27.7
72.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.9	7.3	15.5	25.2
75°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.1	5.7	13.0	22.0
77.5°	2.4	2.4	2.4	3.3	2.4	3.3	3.3	4.1	4.9	10.6	18.7
80°	1.6	1.6	2.4	2.4	2.4	2.4	2.4	3.3	4.1	9.0	14.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	3.3	6.5	10.6
85°	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.4	2.4	4.9	7.3
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.4	2.4	3.3
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°	59.4	59.4
2.5°	56.1	56.1
5°	54.5	53.7
7.5°	52.9	52.9
10°	52.1	52.1
12.5°	51.3	52.1
15°	51.3	51.3
17.5°	49.6	50.5
20°	48.8	49.6
22.5°	48.0	48.8
25°	47.2	48.0
27.5°	46.4	47.2
30°	45.6	47.2
32.5°	44.8	46.4
35°	44.8	46.4
37.5°	44.8	47.2
40°	44.8	47.2
42.5°	44.8	47.2
45°	44.8	47.2
47.5°	44.8	47.2
50°	44.8	48.0
52.5°	44.8	48.0
55°	44.8	47.2
57.5°	43.9	47.2
60°	43.9	46.4
62.5°	43.1	45.6
65°	41.5	43.9
67.5°	39.9	43.1
70°	37.4	40.7
72.5°	35.0	37.4
75°	31.7	34.2
77.5°	27.7	29.3
80°	22.0	24.4
82.5°	17.1	18.7
85°	11.4	12.2
87.5°	4.9	5.7
90°	0.0	0.0

(END OF REPORT)