

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: P1311204

Luminaire Tested: P3SQAS09R509050DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R509050DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

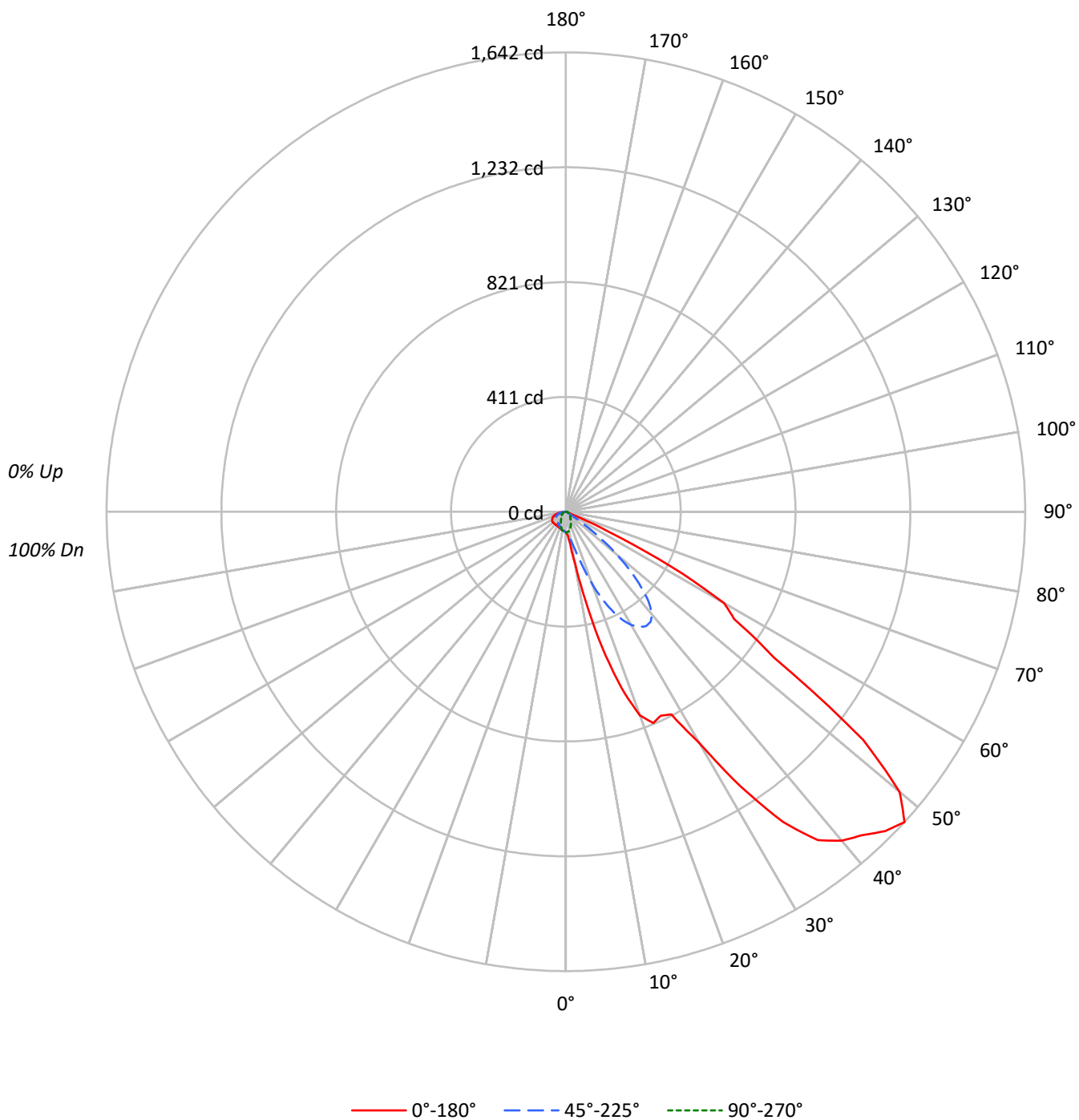
Lumens per Lamp: N/A
Luminaire Lumens: 926.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12676	12676	12676	12676	12676
5°	15075	14107	12586	12032	11894
10°	32458	17488	12032	11612	11752
15°	89844	28670	10841	11126	11554
20°	142039	50272	9384	10703	11290
25°	152743	73863	8057	10337	11402
30°	189598	92731	7000	10182	11773
35°	284525	104933	6055	10260	12447
40°	345077	107891	5396	10612	13130
45°	393105	92528	5261	11301	14419
50°	417249	63848	5359	12218	16076
55°	272577	25702	5285	13211	17775
60°	224819	4409	5236	14329	19564
65°	67810	2282	4890	15323	21517
70°	2820	2417	4834	15711	23365
75°	2662	2662	4791	15970	25552
80°	2380	2380	4761	15869	26183
85°	1581	3162	6323	15808	25293

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 418582 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.8
10°-20°	43.8	4.7
20°-30°	112.7	12.2
30°-40°	202.5	21.9
40°-50°	270.5	29.2
50°-60°	206.0	22.2
60°-70°	62.5	6.8
70°-80°	14.9	1.6
80°-90°	5.4	0.6
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°	164.2	17.7
0°-40°	366.7	39.6
0°-60°	843.2	91.1
0°-90°	926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	926.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	74	74	74	74	74	
5°	87	82	73	70	69	11
15°	504	161	61	62	65	148
25°	804	389	42	54	60	384
35°	1353	499	29	49	59	831
45°	1614	380	22	46	59	1234
55°	908	86	18	44	59	903
65°	166	6	12	38	53	230
75°	4	4	7	24	38	4
85°	1	2	3	8	13	1
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°	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
2.5°	78.4	78.4	78.4	78.4	78.4	78.4	77.6	77.6	77.6	76.0	74.4
5°	87.2	88.0	87.2	87.2	85.6	85.6	84.0	84.0	81.6	76.8	72.8
7.5°	114.4	113.6	112.8	109.6	107.2	101.6	99.2	95.2	88.0	76.8	71.2
10°	185.6	180.8	177.6	170.4	155.2	145.6	132.8	120.0	100.0	76.8	68.8
12.5°	322.3	321.5	311.9	287.9	266.3	236.7	205.6	174.4	123.2	75.2	65.6
15°	503.9	496.7	483.1	455.1	416.7	370.3	314.3	259.1	160.8	72.8	60.8
17.5°	659.1	650.3	639.9	611.9	567.9	509.5	442.3	366.3	212.0	69.6	56.0
20°	775.0	769.4	760.6	738.2	696.6	643.9	568.7	476.7	274.3	65.6	51.2
22.5°	817.4	816.6	818.2	810.2	789.4	747.8	675.9	579.9	335.9	60.8	46.4
25°	803.8	803.0	813.4	823.8	828.6	811.8	756.6	663.1	388.7	56.8	42.4
27.5°	816.6	814.2	809.4	811.0	824.6	834.2	808.6	727.0	434.3	51.2	38.4
30°	953.4	939.8	918.2	881.4	854.2	851.8	840.6	777.4	466.3	45.6	35.2
32.5°	1166.9	1150.1	1111.0	1043.0	978.2	928.6	893.4	819.8	488.7	40.0	31.2
35°	1353.3	1341.3	1295.7	1228.5	1135.7	1043.0	979.0	882.2	499.1	35.2	28.8
37.5°	1479.7	1474.9	1430.1	1358.1	1263.7	1154.1	1069.4	946.2	496.7	29.6	26.4
40°	1534.9	1520.5	1482.9	1422.1	1326.9	1228.5	1138.9	987.0	479.9	24.0	24.0
42.5°	1567.7	1551.7	1510.9	1453.3	1359.7	1254.9	1146.9	969.4	439.9	19.2	23.2
45°	1614.0	1597.2	1543.7	1482.1	1387.7	1266.1	1115.8	907.0	379.9	14.4	21.6
47.5°	1642.0	1630.8	1590.8	1529.3	1414.9	1250.1	1043.8	848.6	313.5	11.2	20.8
50°	1557.3	1546.1	1516.5	1474.1	1397.3	1196.5	980.6	754.2	238.3	8.8	20.0
52.5°	1340.5	1350.1	1355.7	1367.7	1311.7	1076.6	886.2	679.0	160.8	7.2	18.4
55°	907.8	922.2	938.2	986.2	1051.8	958.2	787.0	587.1	85.6	7.2	17.6
57.5°	713.4	708.6	703.8	700.6	751.8	790.2	691.8	469.5	36.8	7.2	16.0
60°	652.7	638.3	628.7	631.1	656.7	641.5	547.9	306.3	12.8	7.2	15.2
62.5°	427.9	439.1	460.7	497.5	479.9	411.9	318.3	121.6	6.4	7.2	13.6
65°	166.4	160.8	166.4	176.8	152.8	113.6	71.2	21.6	5.6	6.4	12.0
67.5°	22.4	20.0	15.2	9.6	8.8	8.0	6.4	5.6	5.6	6.4	11.2
70°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.8	4.8	5.6	9.6
72.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.6	8.0
75°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.8	7.2
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.0	5.6
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2	4.8
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	3.2	4.0
85°	0.8	1.6	0.8	1.6	1.6	1.6	1.6	1.6	1.6	2.4	3.2
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.4	2.4
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°	73.6	73.6	73.6	73.6
2.5°	72.8	71.2	71.2	71.2
5°	71.2	69.6	69.6	68.8
7.5°	68.8	68.0	68.0	68.0
10°	67.2	66.4	67.2	67.2
12.5°	64.0	64.8	65.6	65.6
15°	60.8	62.4	64.0	64.8
17.5°	57.6	60.8	62.4	63.2
20°	54.4	58.4	60.8	61.6
22.5°	52.0	56.0	59.2	60.8
25°	48.8	54.4	58.4	60.0
27.5°	45.6	52.0	56.8	59.2
30°	43.2	51.2	56.8	59.2
32.5°	40.8	49.6	56.0	58.4
35°	39.2	48.8	56.0	59.2
37.5°	37.6	48.0	56.0	58.4
40°	36.8	47.2	56.0	58.4
42.5°	36.0	47.2	56.0	59.2
45°	34.4	46.4	56.0	59.2
47.5°	33.6	46.4	56.0	59.2
50°	32.8	45.6	56.0	60.0
52.5°	32.0	44.8	56.0	60.0
55°	30.4	44.0	55.2	59.2
57.5°	29.6	43.2	54.4	57.6
60°	28.0	41.6	52.8	56.8
62.5°	26.4	40.0	51.2	54.4
65°	24.0	37.6	48.8	52.8
67.5°	21.6	34.4	46.4	50.4
70°	19.2	31.2	43.2	46.4
72.5°	16.8	28.0	40.0	42.4
75°	14.4	24.0	35.2	38.4
77.5°	12.0	20.8	29.6	32.0
80°	8.8	16.0	24.0	26.4
82.5°	7.2	12.0	17.6	19.2
85°	4.8	8.0	11.2	12.8
87.5°	2.4	4.0	5.6	6.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)