

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: P1306802

Luminaire Tested: P3SQAS09R709027DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R709027DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

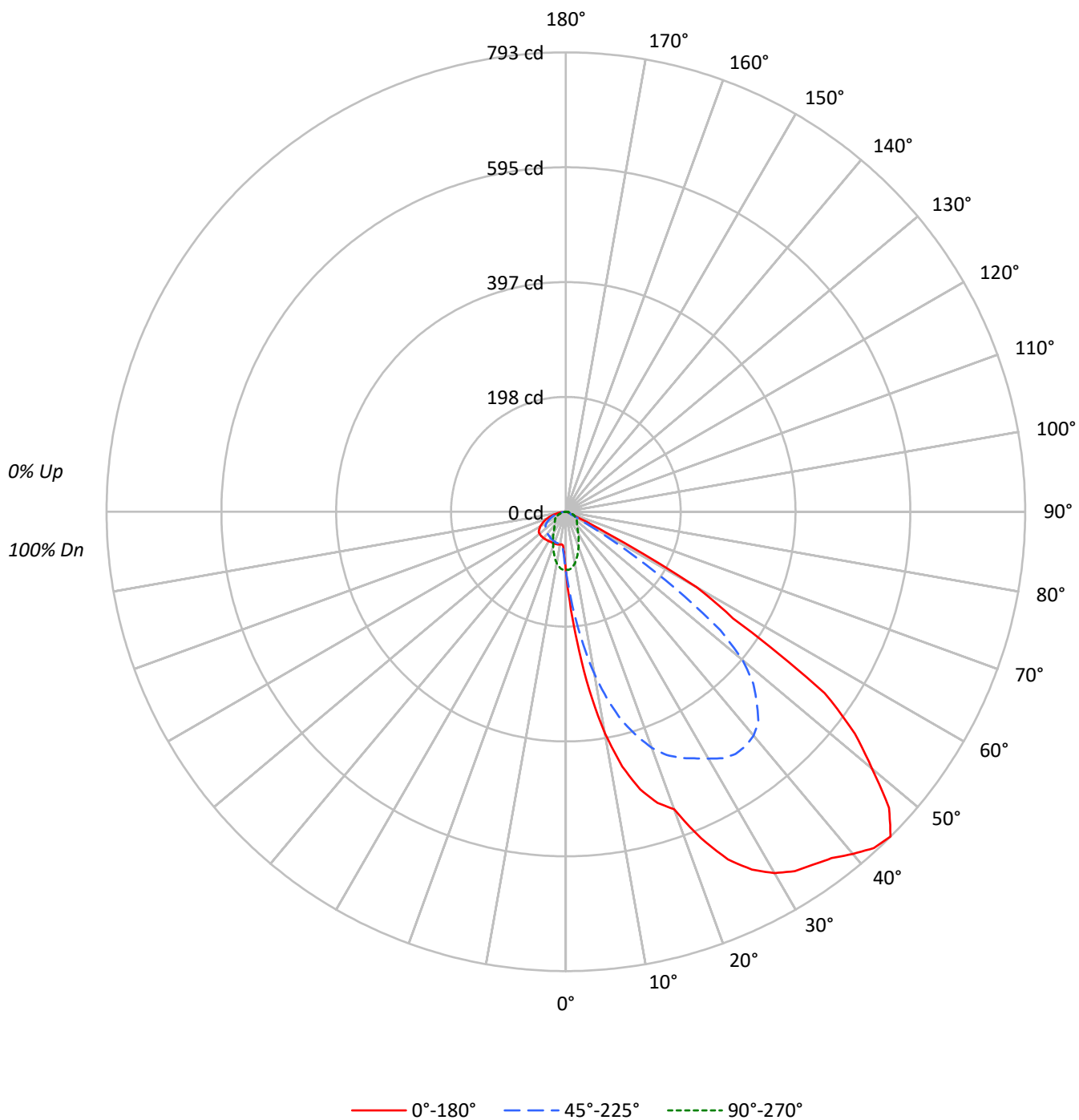
Lumens per Lamp: N/A
Luminaire Lumens: 685.0 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17188	17188	17188	17188	17188
5°	39106	31309	17011	10753	10044
10°	67766	49718	15774	9793	10038
15°	88471	66416	13765	9985	10359
20°	100197	79413	11766	10153	10777
25°	125836	89084	9862	10261	11041
30°	143243	97862	8432	10460	11693
35°	156338	107330	7338	10638	12362
40°	173314	113400	6767	11061	13377
45°	193094	113523	6649	11642	14492
50°	184953	106744	6591	12271	15754
55°	163762	69150	6786	12941	17025
60°	89694	14846	6820	13192	17670
65°	6398	3627	6683	13081	17808
70°	3122	3424	6194	12387	17221
75°	2728	3660	5922	11844	15903
80°	2678	3372	5455	10811	14877
85°	2766	4150	5335	9485	13437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 193094 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	1.9
10°-20°	55.7	8.1
20°-30°	106.8	15.6
30°-40°	151.0	22.0
40°-50°	170.9	24.9
50°-60°	135.3	19.8
60°-70°	36.5	5.3
70°-80°	12.1	1.8
80°-90°	3.7	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°	175.5	25.6
0°-40°	326.5	47.7
0°-60°	632.7	92.4
0°-90°	685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	685.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	100	100	100	100	100	
5°	226	181	98	62	58	27
15°	496	372	77	56	58	140
25°	662	469	52	54	58	303
35°	744	510	35	51	59	468
45°	793	466	27	48	60	593
55°	545	230	23	43	57	443
65°	16	9	16	32	44	57
75°	4	6	9	18	24	4
85°	1	2	3	5	7	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2.5°	155.1	155.1	154.5	151.7	150.4	146.9	144.2	136.7	118.2	100.5	86.1
5°	226.2	229.6	224.8	224.2	220.1	213.9	209.8	181.1	136.7	98.4	73.8
7.5°	310.3	311.6	310.3	303.4	297.3	287.0	277.5	232.4	155.1	95.0	64.9
10°	387.5	385.5	381.4	376.6	367.7	356.7	340.3	284.3	172.9	90.2	59.5
12.5°	450.4	449.7	444.9	440.1	429.2	414.8	398.4	331.5	187.9	84.1	56.7
15°	496.2	496.2	491.4	485.9	475.7	464.0	445.6	372.5	200.2	77.2	54.0
17.5°	526.9	525.6	522.1	518.0	509.8	498.2	483.9	405.3	208.4	70.4	53.3
20°	546.7	546.1	543.3	537.2	530.3	521.5	508.5	433.3	211.9	64.2	52.6
22.5°	610.3	604.8	594.6	581.6	565.2	544.0	526.2	454.5	210.5	57.4	51.3
25°	662.2	660.2	649.3	633.5	611.7	584.3	554.9	468.8	203.7	51.9	49.9
27.5°	696.4	693.0	682.7	665.7	642.4	615.8	588.4	479.8	194.1	47.2	47.8
30°	720.3	718.3	708.0	688.9	665.0	635.6	607.6	492.1	181.1	42.4	45.8
32.5°	735.4	733.3	723.1	706.0	682.7	652.0	619.9	504.4	165.4	38.3	43.7
35°	743.6	741.5	729.9	714.9	693.0	662.9	628.8	510.5	146.3	34.9	41.7
37.5°	753.8	749.7	734.0	715.5	693.7	665.7	631.5	509.8	127.1	32.1	40.3
40°	770.9	760.0	737.4	712.8	690.3	662.2	629.4	504.4	105.9	30.1	39.0
42.5°	787.3	771.6	738.1	708.7	683.4	656.1	621.9	492.1	82.7	28.7	38.3
45°	792.8	769.5	728.5	699.1	675.2	647.2	611.7	466.1	56.0	27.3	36.9
47.5°	756.6	739.5	705.3	683.4	660.9	633.5	596.6	438.8	32.1	26.0	35.5
50°	690.3	679.3	660.2	646.5	634.2	615.1	578.9	398.4	19.1	24.6	34.2
52.5°	628.8	625.3	611.7	600.7	593.9	585.0	552.2	336.2	15.7	23.9	32.8
55°	545.4	534.4	531.0	526.9	541.3	540.6	496.2	230.3	15.0	22.6	31.4
57.5°	342.4	347.2	364.9	397.8	436.7	459.3	457.9	123.0	14.4	21.2	29.4
60°	260.4	259.7	265.2	278.8	307.5	339.7	369.7	43.1	13.7	19.8	28.0
62.5°	77.9	80.0	96.4	141.5	169.5	209.1	190.7	10.3	13.0	17.8	25.3
65°	15.7	16.4	16.4	18.5	22.6	34.2	41.7	8.9	12.3	16.4	23.2
67.5°	6.8	6.8	6.8	7.5	7.5	8.9	7.5	8.2	10.9	14.4	20.5
70°	6.2	6.2	6.2	6.2	6.2	6.2	6.8	6.8	9.6	12.3	17.8
72.5°	4.8	4.8	4.8	5.5	5.5	5.5	5.5	6.2	8.2	10.3	15.0
75°	4.1	4.1	4.1	4.1	4.8	4.8	4.8	5.5	6.8	8.9	12.3
77.5°	3.4	3.4	3.4	3.4	3.4	4.1	4.1	4.1	5.5	6.8	10.3
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.4	4.1	5.5	7.5
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.7	3.4	4.1	5.5
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.7	3.4
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	2.1
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):

	135°	157.5°	180°
0°	99.8	99.8	99.8
2.5°	75.9	71.8	69.7
5°	62.2	58.8	58.1
7.5°	57.4	56.7	56.7
10°	56.0	56.7	57.4
12.5°	56.0	57.4	58.1
15°	56.0	57.4	58.1
17.5°	56.0	57.4	58.1
20°	55.4	57.4	58.8
22.5°	54.7	57.4	58.1
25°	54.0	57.4	58.1
27.5°	53.3	56.7	58.1
30°	52.6	56.7	58.8
32.5°	51.3	56.7	58.8
35°	50.6	56.7	58.8
37.5°	49.9	56.7	59.5
40°	49.2	56.7	59.5
42.5°	48.5	56.7	59.5
45°	47.8	56.0	59.5
47.5°	46.5	56.0	59.5
50°	45.8	55.4	58.8
52.5°	44.4	54.7	58.8
55°	43.1	53.3	56.7
57.5°	41.0	51.3	54.0
60°	38.3	48.5	51.3
62.5°	34.9	45.1	47.2
65°	32.1	41.0	43.7
67.5°	28.0	36.2	39.0
70°	24.6	31.4	34.2
72.5°	21.2	26.7	29.4
75°	17.8	21.9	23.9
77.5°	13.7	17.8	19.1
80°	10.9	13.7	15.0
82.5°	7.5	9.6	10.3
85°	4.8	6.2	6.8
87.5°	2.1	2.7	2.7
90°	0.0	0.0	0.0

(END OF REPORT)