

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: P1312346

Luminaire Tested: P3SQAS09R659727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R659727DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

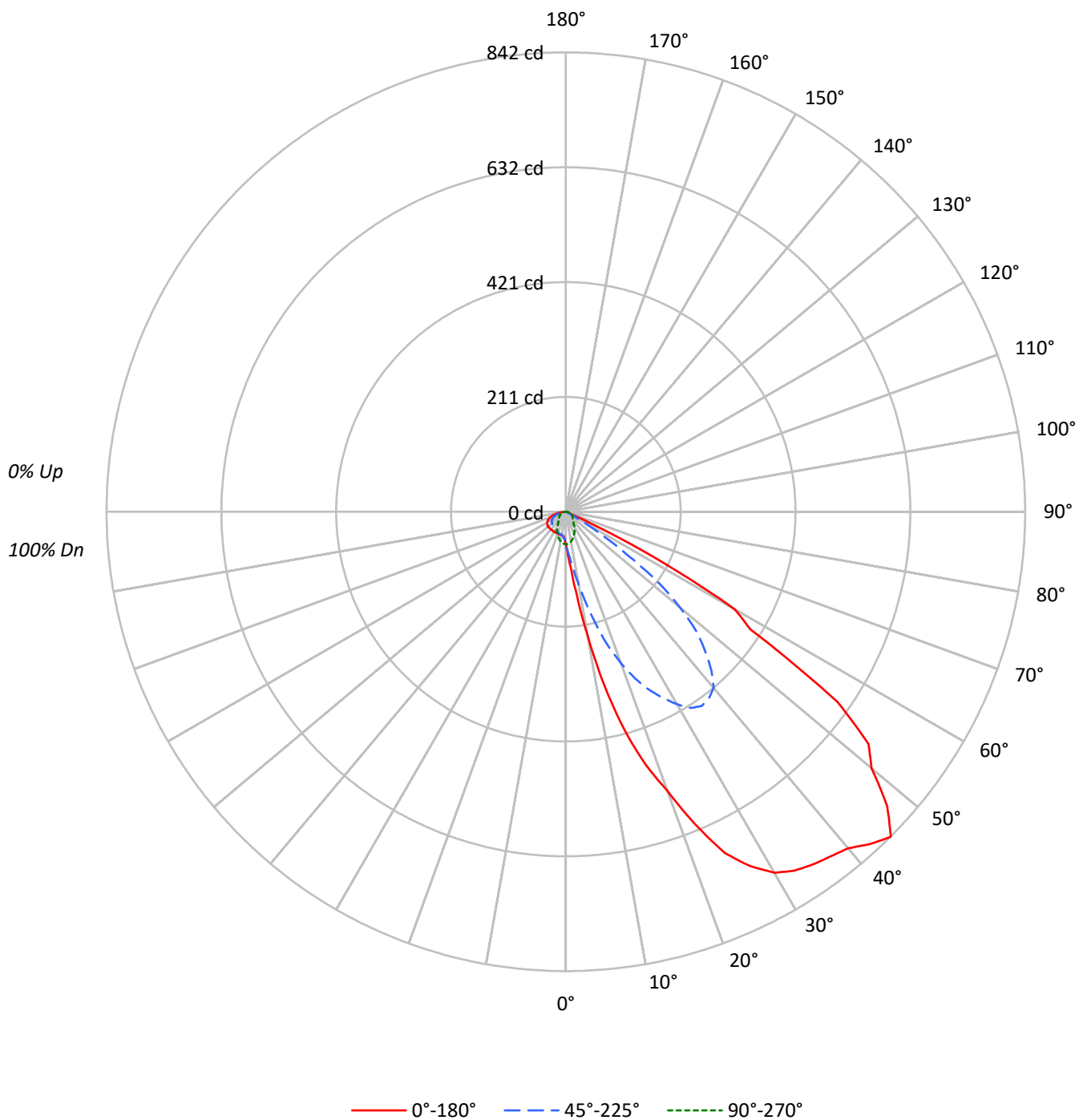
Lumens per Lamp: N/A
Luminaire Lumens: 611.0 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10230	10230	10230	10230	10230
5°	17893	14608	10062	8160	7831
10°	40502	23574	9636	7502	7607
15°	73619	37906	8951	7542	7756
20°	99812	54121	8082	7514	7863
25°	131194	68334	7107	7335	8038
30°	151913	81018	6085	7318	8412
35°	165904	91330	5151	7464	8893
40°	180981	94762	4541	7846	9510
45°	205175	87876	4335	8354	10303
50°	195991	73359	4260	8869	11333
55°	182649	41196	4414	9578	12521
60°	123036	8852	4443	10127	13502
65°	18990	2241	4238	10473	14711
70°	2165	2165	4028	10776	15711
75°	2063	2063	3660	10580	15903
80°	1785	2479	3670	9720	15769
85°	1186	2371	3557	9683	14623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 205175 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	1.2
10°-20°	38.9	6.4
20°-30°	91.3	14.9
30°-40°	137.9	22.6
40°-50°	158.5	25.9
50°-60°	125.9	20.6
60°-70°	37.7	6.2
70°-80°	10.3	1.7
80°-90°	3.4	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°	137.3	22.5
0°-40°	275.2	45.0
0°-60°	559.6	91.6
0°-90°	611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	611.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	104	84	58	47	45	14
15°	413	213	50	42	44	119
25°	690	360	37	39	42	315
35°	789	434	24	36	42	495
45°	842	361	18	34	42	626
55°	608	137	15	32	42	501
65°	47	6	10	26	36	104
75°	3	3	6	16	24	3
85°	1	1	2	5	7	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°	75.4	76.0	75.4	75.4	74.7	74.1	69.8	64.9	59.4	55.1	52.1
5°	103.5	104.1	102.3	102.3	101.1	99.2	84.5	70.5	58.2	51.5	47.2
7.5°	153.2	155.6	152.5	148.9	142.1	140.9	105.4	76.0	57.0	47.8	44.1
10°	231.6	229.7	226.7	219.3	207.7	202.2	134.8	81.5	55.1	45.3	42.9
12.5°	326.5	321.6	318.0	304.5	288.5	279.4	171.5	86.4	52.7	42.9	42.3
15°	412.9	409.2	400.7	387.8	368.2	360.8	212.6	89.4	50.2	41.0	42.3
17.5°	485.8	482.1	477.2	464.4	444.2	433.1	258.5	91.3	47.2	39.8	41.7
20°	544.6	542.2	535.4	525.0	504.8	494.4	295.3	91.3	44.1	38.6	41.0
22.5°	620.6	615.1	606.5	591.2	566.1	550.1	330.2	89.4	41.0	37.4	39.8
25°	690.4	686.8	675.7	657.4	630.4	614.5	359.6	85.8	37.4	35.5	38.6
27.5°	732.1	729.6	719.2	700.2	670.2	658.0	384.1	80.3	33.7	33.7	38.0
30°	763.9	759.0	748.6	730.3	699.6	684.9	407.4	73.5	30.6	31.9	36.8
32.5°	779.9	778.0	768.8	752.9	722.9	706.4	426.4	64.9	27.0	30.6	36.1
35°	789.1	787.2	779.9	764.6	736.4	720.5	434.4	57.0	24.5	29.4	35.5
37.5°	796.4	794.6	785.4	770.1	741.9	725.4	430.7	48.4	22.1	28.2	34.9
40°	805.0	798.3	784.2	768.8	743.1	727.2	421.5	40.4	20.2	27.6	34.9
42.5°	825.8	802.5	780.5	766.4	741.9	723.5	395.1	31.9	18.4	26.3	34.3
45°	842.4	801.3	773.1	762.1	737.0	716.2	360.8	23.3	17.8	25.7	34.3
47.5°	798.9	773.7	760.9	754.8	727.8	705.1	325.3	15.9	17.2	25.1	33.7
50°	731.5	728.4	723.5	724.1	699.6	681.2	273.8	11.0	15.9	24.5	33.1
52.5°	699.0	695.3	686.8	680.6	656.1	640.2	216.9	8.6	15.3	23.9	32.5
55°	608.3	610.8	601.6	605.3	597.9	590.0	137.2	8.0	14.7	22.7	31.9
57.5°	400.7	412.9	434.4	460.1	483.4	499.3	74.1	8.0	13.5	22.1	30.6
60°	357.2	354.1	353.5	358.4	368.8	377.4	25.7	7.4	12.9	20.2	29.4
62.5°	195.4	194.2	212.6	243.8	262.2	264.0	7.4	7.4	11.6	19.0	27.6
65°	46.6	48.4	53.9	67.4	79.6	87.6	5.5	6.7	10.4	17.8	25.7
67.5°	7.4	8.0	8.0	9.8	11.0	11.0	4.9	6.1	9.2	15.9	23.9
70°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.5	8.0	14.1	21.4
72.5°	3.7	3.7	3.7	3.7	3.7	3.7	4.3	4.9	6.7	12.3	18.4
75°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.3	5.5	9.8	15.9
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.1	3.7	4.9	8.0	12.9
80°	1.8	1.8	1.8	1.8	1.8	1.8	2.5	3.1	3.7	6.1	9.8
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.5	3.1	4.9	7.4
85°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.8	1.8	3.1	4.9
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	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°	59.4	59.4
2.5°	50.2	49.6
5°	45.3	45.3
7.5°	43.5	43.5
10°	42.9	43.5
12.5°	42.9	43.5
15°	42.9	43.5
17.5°	42.9	43.5
20°	42.3	42.9
22.5°	41.7	42.3
25°	41.0	42.3
27.5°	40.4	42.3
30°	40.4	42.3
32.5°	40.4	42.3
35°	39.8	42.3
37.5°	39.8	42.3
40°	39.8	42.3
42.5°	39.8	42.3
45°	39.8	42.3
47.5°	39.8	42.3
50°	39.8	42.3
52.5°	39.2	42.3
55°	39.2	41.7
57.5°	38.0	40.4
60°	36.8	39.2
62.5°	35.5	38.0
65°	33.7	36.1
67.5°	31.9	33.7
70°	28.8	31.2
72.5°	25.7	27.6
75°	22.1	23.9
77.5°	18.4	20.2
80°	14.7	15.9
82.5°	10.4	11.6
85°	6.7	7.4
87.5°	3.1	3.1
90°	0.0	0.0

(END OF REPORT)