

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: P1314296

Luminaire Tested: P3SQAS09R709735DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314296
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: P3SQAS09R709735DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

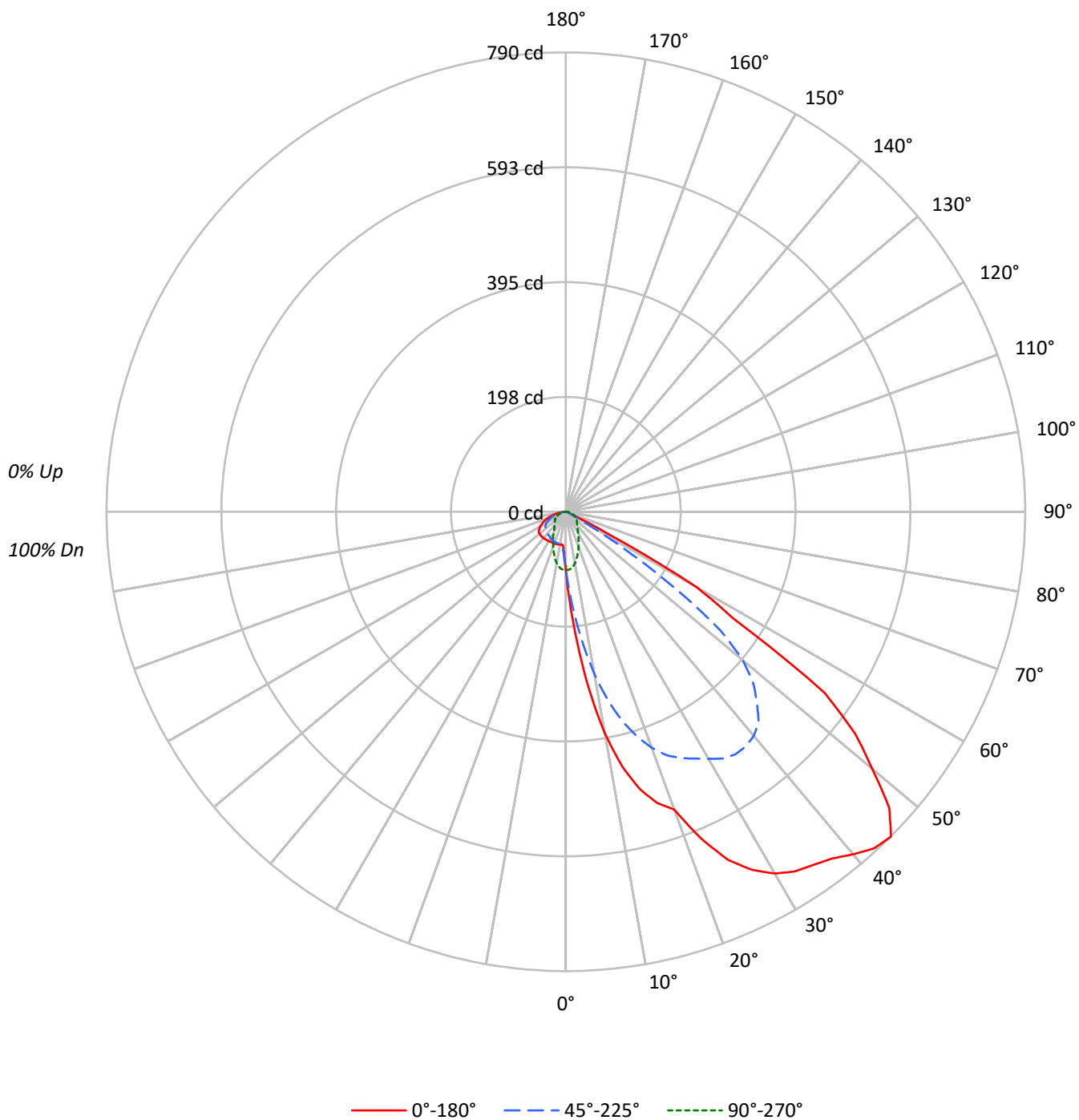
Lumens per Lamp: N/A
Luminaire Lumens: 683.0 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17136	17136	17136	17136	17136
5°	39002	31222	16960	10719	10010
10°	67573	49578	15722	9776	10003
15°	88204	66220	13729	9967	10323
20°	99903	79175	11748	10117	10740
25°	125475	88837	9843	10223	11003
30°	142825	97563	8392	10440	11654
35°	155876	107015	7317	10596	12320
40°	172820	113062	6745	11039	13332
45°	192534	113182	6649	11618	14443
50°	184390	106449	6564	12244	15701
55°	163282	68940	6756	12881	16995
60°	89418	14777	6820	13158	17601
65°	6398	3627	6683	13040	17768
70°	3072	3424	6194	12337	17171
75°	2728	3660	5922	11778	15903
80°	2678	3372	5455	10811	14877
85°	2766	3952	5335	9485	13437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 192534 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	1.9
10°-20°	55.5	8.1
20°-30°	106.5	15.6
30°-40°	150.6	22.0
40°-50°	170.4	24.9
50°-60°	134.9	19.8
60°-70°	36.4	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°	175.0	25.6
0°-40°	325.6	47.7
0°-60°	630.9	92.4
0°-90°	683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	683.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	100	100	100	100	100	
5°	226	181	98	62	58	27
15°	495	371	77	56	58	139
25°	660	468	52	54	58	303
35°	741	509	35	50	59	467
45°	790	465	27	48	59	591
55°	544	230	22	43	57	441
65°	16	9	16	32	44	56
75°	4	6	9	18	24	4
85°	1	2	3	5	7	1
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°	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2.5°	154.7	154.7	154.0	151.3	149.9	146.5	143.8	136.3	117.9	100.2	85.9
5°	225.6	229.0	224.2	223.5	219.4	213.3	209.2	180.6	136.3	98.1	73.6
7.5°	309.4	310.7	309.4	302.6	296.4	286.2	276.7	231.7	154.7	94.7	64.7
10°	386.4	384.3	380.2	375.5	366.6	355.7	339.4	283.5	172.4	89.9	59.3
12.5°	449.1	448.4	443.6	438.8	427.9	413.6	397.3	330.5	187.4	83.8	56.6
15°	494.7	494.7	489.9	484.5	474.3	462.7	444.3	371.4	199.7	77.0	53.8
17.5°	525.4	524.0	520.6	516.5	508.3	496.8	482.5	404.1	207.8	70.2	53.2
20°	545.1	544.5	541.7	535.6	528.8	519.9	507.0	432.0	211.2	64.1	52.5
22.5°	608.5	603.1	592.8	579.9	563.5	542.4	524.7	453.2	209.9	57.2	51.1
25°	660.3	658.3	647.4	631.7	609.9	582.6	553.3	467.5	203.1	51.8	49.7
27.5°	694.4	691.0	680.7	663.7	640.5	614.0	586.7	478.4	193.5	47.0	47.7
30°	718.2	716.2	706.0	686.9	663.0	633.7	605.8	490.6	180.6	42.2	45.7
32.5°	733.2	731.2	721.0	703.9	680.7	650.1	618.1	502.9	164.9	38.2	43.6
35°	741.4	739.4	727.8	712.8	691.0	661.0	626.9	509.0	145.8	34.8	41.6
37.5°	751.6	747.5	731.9	713.5	691.7	663.7	629.6	508.3	126.7	32.0	40.2
40°	768.7	757.8	735.3	710.7	688.2	660.3	627.6	502.9	105.6	30.0	38.8
42.5°	785.0	769.3	735.9	706.6	681.4	654.2	620.1	490.6	82.5	28.6	38.2
45°	790.5	767.3	726.4	697.1	673.3	645.3	609.9	464.7	55.9	27.3	36.8
47.5°	754.3	737.3	703.2	681.4	658.9	631.7	594.9	437.5	32.0	25.9	35.4
50°	688.2	677.3	658.3	644.6	632.4	613.3	577.2	397.3	19.1	24.5	34.1
52.5°	626.9	623.5	609.9	599.0	592.2	583.3	550.6	335.3	15.7	23.9	32.7
55°	543.8	532.9	529.5	525.4	539.7	539.0	494.7	229.6	15.0	22.5	31.3
57.5°	341.4	346.2	363.9	396.6	435.4	457.9	456.6	122.7	14.3	21.1	29.3
60°	259.6	258.9	264.4	278.0	306.6	338.7	368.7	42.9	13.6	19.8	27.9
62.5°	77.7	79.7	96.1	141.1	169.0	208.5	190.1	10.2	12.9	17.7	25.2
65°	15.7	16.4	16.4	18.4	22.5	34.1	41.6	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	14.3	20.4
70°	6.1	6.1	6.1	6.1	6.1	6.1	6.8	6.8	9.5	12.3	17.7
72.5°	4.8	4.8	4.8	5.5	5.5	5.5	5.5	6.1	8.2	10.2	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	10.2
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°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	3.4	4.1	5.5
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0	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	2.0
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°	99.5	99.5	99.5
2.5°	75.6	71.6	69.5
5°	62.0	58.6	57.9
7.5°	57.2	56.6	56.6
10°	55.9	56.6	57.2
12.5°	55.9	57.2	57.9
15°	55.9	57.2	57.9
17.5°	55.9	57.2	57.9
20°	55.2	57.2	58.6
22.5°	54.5	57.2	57.9
25°	53.8	57.2	57.9
27.5°	53.2	56.6	57.9
30°	52.5	56.6	58.6
32.5°	51.1	56.6	58.6
35°	50.4	56.6	58.6
37.5°	49.7	56.6	59.3
40°	49.1	56.6	59.3
42.5°	48.4	56.6	59.3
45°	47.7	55.9	59.3
47.5°	46.3	55.9	59.3
50°	45.7	55.2	58.6
52.5°	44.3	54.5	58.6
55°	42.9	53.2	56.6
57.5°	40.9	51.1	53.8
60°	38.2	48.4	51.1
62.5°	34.8	45.0	47.0
65°	32.0	40.9	43.6
67.5°	27.9	36.1	38.8
70°	24.5	31.3	34.1
72.5°	21.1	26.6	29.3
75°	17.7	21.8	23.9
77.5°	13.6	17.7	19.1
80°	10.9	13.6	15.0
82.5°	7.5	9.5	10.2
85°	4.8	6.1	6.8
87.5°	2.0	2.7	2.7
90°	0.0	0.0	0.0

(END OF REPORT)