

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: P1312339

Luminaire Tested: P3SQAS09R609727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R609727DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

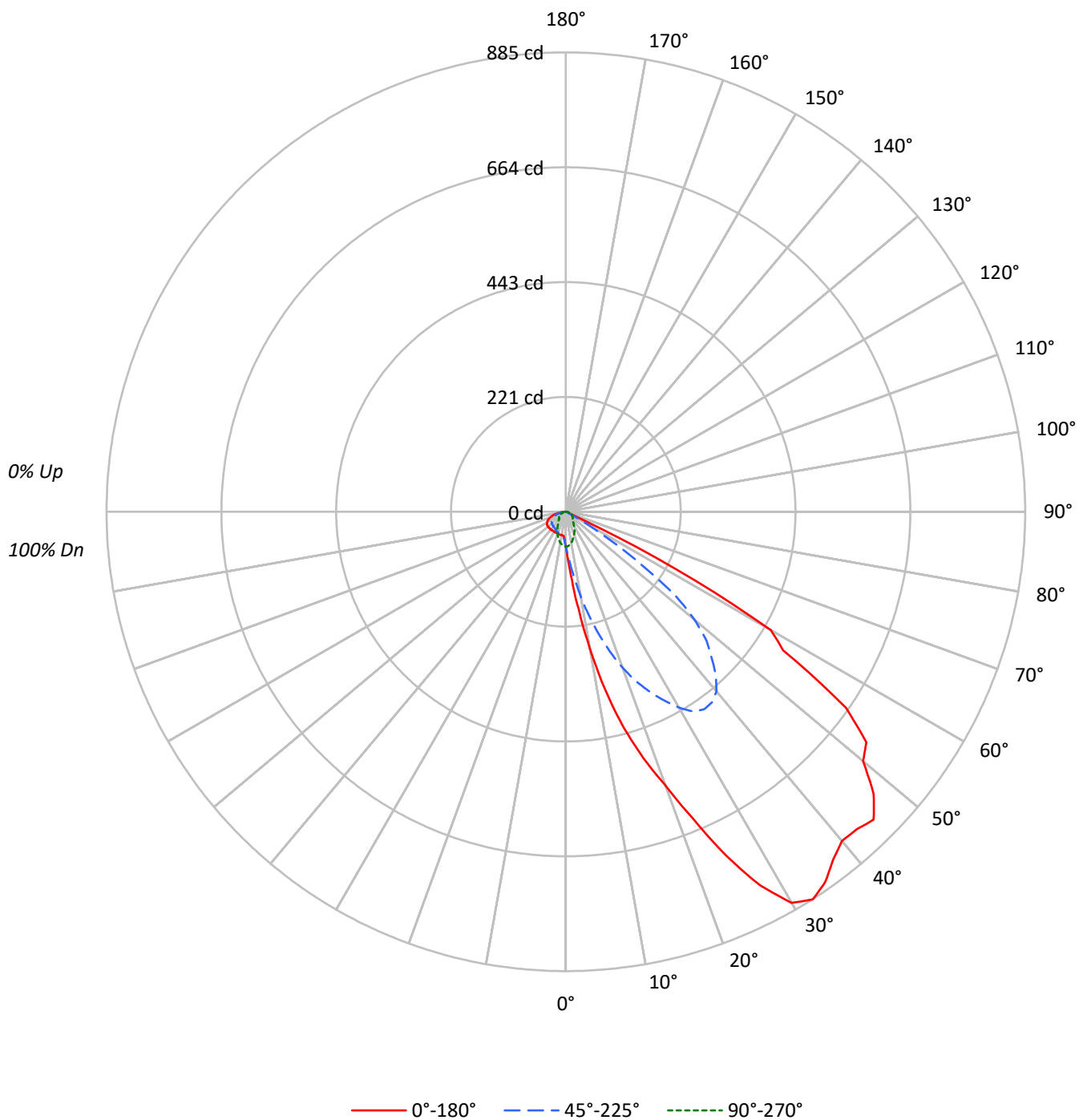
Lumens per Lamp: N/A
Luminaire Lumens: 674.0 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	31	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	27	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11504	11504	11504	11504	11504
5°	22665	17686	11341	8575	8160
10°	46815	28820	10615	7817	7922
15°	76579	43255	9503	7863	8077
20°	102744	58612	8541	7863	8192
25°	139005	72761	7449	7791	8494
30°	173013	86626	6205	7796	8889
35°	183165	97638	5277	7989	9272
40°	186084	101507	4811	8273	10049
45°	204298	96693	4628	8793	10887
50°	200278	86676	4608	9351	11977
55°	197932	53176	4594	10119	13242
60°	156998	12676	4857	10747	14363
65°	9984	2241	4727	11003	15486
70°	2165	2467	4633	11430	16365
75°	2063	2462	4059	10979	16702
80°	1785	2479	4265	10910	15769
85°	1186	2371	4940	9683	15808

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 215631 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	1.2
10°-20°	42.0	6.2
20°-30°	97.5	14.5
30°-40°	151.5	22.5
40°-50°	172.6	25.6
50°-60°	145.4	21.6
60°-70°	42.2	6.3
70°-80°	10.8	1.6
80°-90°	3.6	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°	147.8	21.9
0°-40°	299.3	44.4
0°-60°	617.3	91.6
0°-90°	674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	674.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	67	67	67	67	67	
5°	131	102	66	50	47	17
15°	430	243	53	44	45	124
25°	732	383	39	41	45	340
35°	871	464	25	38	44	541
45°	839	397	19	36	45	631
55°	659	177	15	34	44	555
65°	24	6	12	27	38	121
75°	3	4	6	16	25	3
85°	1	1	2	5	8	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°	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
2.5°	90.1	89.5	89.5	88.8	88.2	87.6	85.8	85.2	81.5	74.1	66.8
5°	131.1	130.5	128.7	128.0	125.0	120.7	116.4	112.1	102.3	81.5	65.6
7.5°	189.9	191.2	189.9	183.2	178.9	172.2	159.3	150.1	130.5	88.8	63.1
10°	267.7	267.7	265.9	255.5	246.3	233.4	216.9	201.0	164.8	95.6	60.7
12.5°	352.3	354.1	344.9	336.4	319.8	303.9	281.2	257.3	204.0	101.1	57.6
15°	429.5	428.3	419.1	408.0	390.9	368.8	344.9	314.3	242.6	104.8	53.3
17.5°	498.1	495.7	487.7	475.4	454.6	430.1	399.5	366.4	282.4	107.8	50.2
20°	560.6	552.0	542.8	530.0	509.7	484.0	452.2	414.8	319.8	107.8	46.6
22.5°	639.6	631.1	618.2	598.6	571.6	539.8	502.4	460.1	352.9	105.4	42.9
25°	731.5	724.8	702.7	677.6	642.7	604.7	561.2	504.2	382.9	101.7	39.2
27.5°	811.8	804.4	782.4	745.6	703.4	658.0	612.1	553.9	409.3	95.0	34.9
30°	870.0	860.8	843.7	808.7	757.3	702.1	647.6	591.8	435.6	87.0	31.2
32.5°	885.3	884.1	871.2	845.5	799.5	738.9	673.9	613.3	456.4	76.6	28.2
35°	871.2	873.1	870.6	857.7	824.0	764.6	691.1	624.9	464.4	66.2	25.1
37.5°	845.5	847.9	852.2	854.1	832.6	779.9	700.9	629.8	462.6	55.8	23.3
40°	827.7	826.5	826.5	838.8	834.5	786.7	702.1	626.2	451.5	44.7	21.4
42.5°	829.6	816.1	806.9	826.5	832.6	783.6	694.2	616.4	427.6	34.3	19.6
45°	838.8	810.0	794.0	819.1	828.9	773.2	679.5	601.6	397.0	23.9	19.0
47.5°	804.4	785.4	783.0	818.5	822.2	755.4	656.8	578.4	367.6	16.5	17.8
50°	747.5	744.4	757.3	794.0	794.6	726.0	631.1	536.1	323.5	11.6	17.2
52.5°	729.7	731.5	743.2	762.2	744.4	676.4	584.5	500.6	267.7	9.2	16.5
55°	659.2	662.3	673.3	685.0	672.1	615.7	528.1	457.7	177.1	8.6	15.3
57.5°	496.3	504.2	524.4	534.9	536.1	501.8	478.5	394.6	99.9	8.6	14.7
60°	455.8	445.4	436.2	414.8	395.2	390.9	393.3	295.9	36.8	8.0	14.1
62.5°	238.3	233.4	247.5	256.7	259.2	272.6	254.9	156.2	8.0	8.0	12.9
65°	24.5	24.5	30.0	39.8	66.2	88.2	83.9	45.3	5.5	7.4	11.6
67.5°	7.4	7.4	7.4	8.6	11.0	11.0	9.2	6.7	5.5	6.7	10.4
70°	4.3	4.3	4.3	4.3	4.3	4.3	4.9	4.3	4.9	6.1	9.2
72.5°	3.7	3.7	3.7	3.7	4.3	4.3	4.3	4.3	4.3	5.5	8.0
75°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.7	3.7	4.3	6.1
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.1	3.1	3.1	3.7	4.9
80°	1.8	1.8	1.8	1.8	1.8	2.5	2.5	2.5	2.5	3.1	4.3
82.5°	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	2.5	3.1
85°	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.5
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.8
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°	66.8	66.8	66.8	66.8
2.5°	60.7	56.4	53.9	52.7
5°	55.1	49.6	47.8	47.2
7.5°	50.2	46.6	46.0	46.0
10°	47.2	44.7	45.3	45.3
12.5°	45.3	44.7	45.3	46.0
15°	43.5	44.1	45.3	45.3
17.5°	42.3	43.5	44.7	45.3
20°	40.4	42.9	44.7	44.7
22.5°	39.2	42.3	44.1	44.7
25°	38.0	41.0	43.5	44.7
27.5°	36.1	40.4	43.5	44.1
30°	34.3	39.2	42.9	44.7
32.5°	32.5	38.6	42.9	44.1
35°	31.2	38.0	42.9	44.1
37.5°	30.0	37.4	42.9	44.7
40°	29.4	36.8	42.3	44.7
42.5°	28.2	36.8	42.3	44.7
45°	27.6	36.1	42.3	44.7
47.5°	27.0	35.5	42.3	44.7
50°	25.7	34.9	41.7	44.7
52.5°	25.1	34.3	41.7	44.7
55°	23.9	33.7	41.0	44.1
57.5°	23.3	32.5	40.4	42.9
60°	22.1	31.2	39.2	41.7
62.5°	20.2	29.4	37.4	40.4
65°	18.4	27.0	35.5	38.0
67.5°	16.5	25.1	33.1	35.5
70°	14.7	22.7	30.0	32.5
72.5°	12.9	19.6	27.0	28.8
75°	11.0	16.5	22.7	25.1
77.5°	8.6	13.5	19.0	20.8
80°	6.7	11.0	14.7	15.9
82.5°	5.5	8.0	11.0	11.6
85°	3.7	4.9	6.7	8.0
87.5°	1.8	2.5	3.1	3.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)