

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: P1305831

Luminaire Tested: P3SQASS09R709024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305831
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: P3SQASS09R709024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

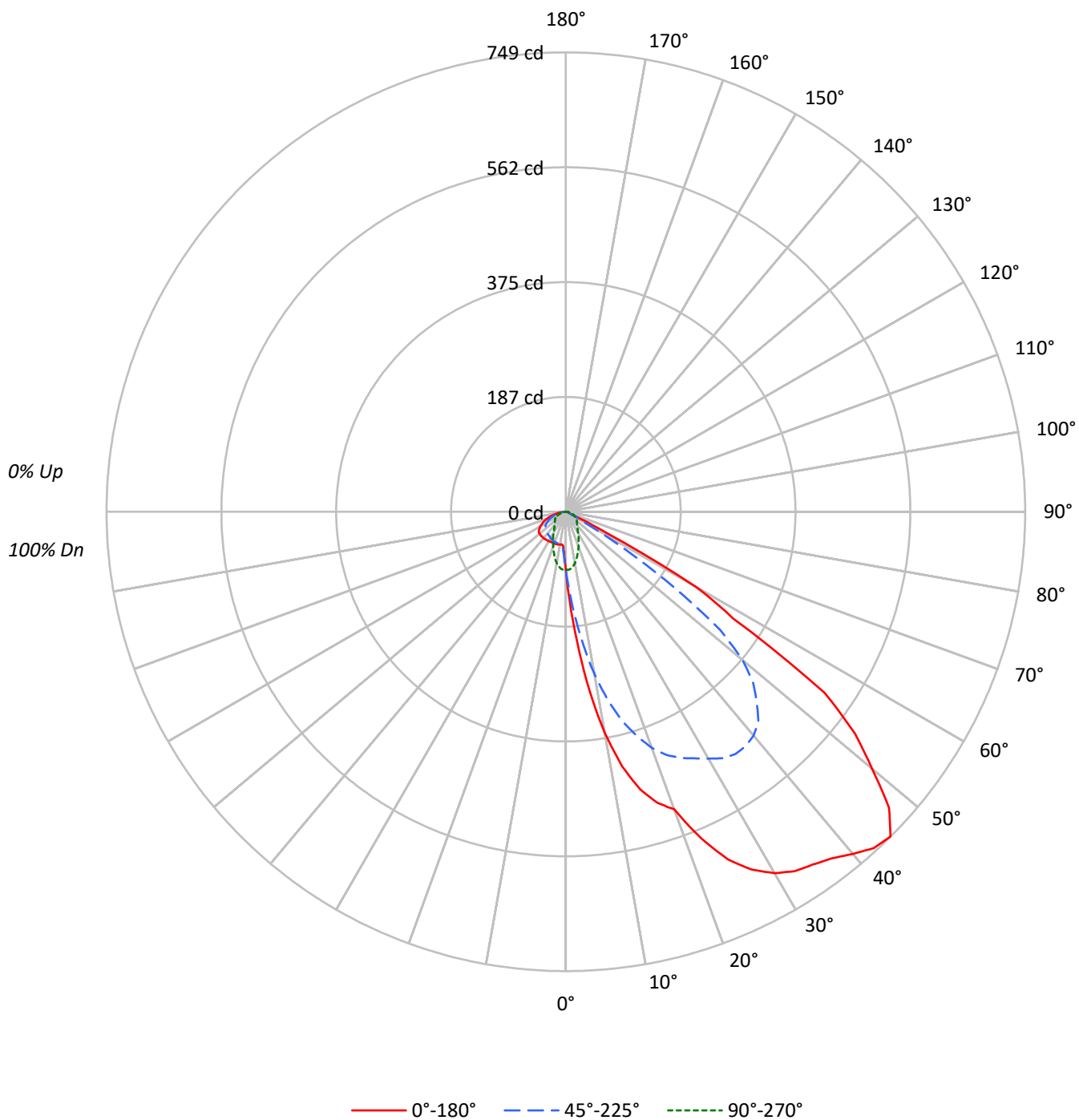
Lumens per Lamp: N/A
Luminaire Lumens: 647.0 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	16223	16223	16223	16223	16223
5°	36945	29580	16078	10148	9491
10°	64006	46955	14900	9251	9478
15°	83550	62725	12998	9432	9789
20°	94643	75015	11125	9585	10172
25°	118862	84144	9330	9691	10432
30°	135308	92433	7955	9884	11037
35°	147655	101380	6917	10050	11669
40°	163692	107105	6385	10454	12635
45°	182377	107215	6284	11009	13688
50°	174691	100822	6216	11575	14870
55°	154664	65307	6396	12221	16094
60°	84699	14019	6441	12434	16671
65°	6031	3423	6316	12348	16830
70°	2921	3273	5841	11682	16265
75°	2595	3460	5590	11179	15038
80°	2579	3174	5157	10215	14083
85°	2569	3754	5138	8892	12844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 182377 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.3	1.9
10°-20°	52.6	8.1
20°-30°	100.9	15.6
30°-40°	142.7	22.1
40°-50°	161.4	24.9
50°-60°	127.8	19.8
60°-70°	34.5	5.3
70°-80°	11.5	1.8
80°-90°	3.5	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°	165.8	25.6
0°-40°	308.4	47.7
0°-60°	597.6	92.4
0°-90°	647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	647.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	94	94	94	94	94	
5°	214	171	93	59	55	25
15°	469	352	73	53	55	132
25°	626	443	49	51	55	287
35°	702	482	33	48	56	442
45°	749	440	26	45	56	560
55°	515	218	21	41	54	418
65°	15	8	16	30	41	54
75°	4	5	8	17	23	4
85°	1	2	3	4	6	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°	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
2.5°	146.5	146.5	145.9	143.3	142.0	138.8	136.2	129.1	111.7	94.9	81.3
5°	213.7	216.9	212.4	211.7	207.9	202.0	198.2	171.1	129.1	93.0	69.7
7.5°	293.1	294.4	293.1	286.6	280.8	271.1	262.1	219.5	146.5	89.7	61.3
10°	366.0	364.1	360.2	355.7	347.3	337.0	321.5	268.5	163.3	85.2	56.2
12.5°	425.4	424.7	420.2	415.7	405.4	391.8	376.3	313.1	177.5	79.4	53.6
15°	468.6	468.6	464.1	459.0	449.3	438.3	420.9	351.8	189.1	72.9	51.0
17.5°	497.7	496.4	493.2	489.3	481.6	470.6	457.0	382.8	196.9	66.5	50.4
20°	516.4	515.8	513.2	507.4	500.9	492.5	480.3	409.3	200.1	60.7	49.7
22.5°	576.4	571.3	561.6	549.3	533.8	513.8	497.0	429.3	198.8	54.2	48.4
25°	625.5	623.6	613.2	598.4	577.7	551.9	524.2	442.8	192.4	49.1	47.1
27.5°	657.8	654.6	644.9	628.7	606.8	581.6	555.8	453.2	183.3	44.5	45.2
30°	680.4	678.4	668.8	650.7	628.1	600.3	573.9	464.8	171.1	40.0	43.2
32.5°	694.6	692.6	683.0	666.8	644.9	615.8	585.5	476.4	156.2	36.1	41.3
35°	702.3	700.4	689.4	675.2	654.6	626.1	593.9	482.2	138.1	32.9	39.4
37.5°	712.0	708.1	693.3	675.9	655.2	628.7	596.5	481.6	120.1	30.3	38.1
40°	728.1	717.8	696.5	673.3	652.0	625.5	594.5	476.4	100.1	28.4	36.8
42.5°	743.6	728.8	697.2	669.4	645.5	619.7	587.4	464.8	78.1	27.1	36.1
45°	748.8	726.8	688.1	660.4	637.8	611.3	577.7	440.2	52.9	25.8	34.9
47.5°	714.6	698.4	666.2	645.5	624.2	598.4	563.5	414.4	30.3	24.5	33.6
50°	652.0	641.6	623.6	610.7	599.0	581.0	546.7	376.3	18.1	23.2	32.3
52.5°	593.9	590.6	577.7	567.4	561.0	552.6	521.6	317.6	14.8	22.6	31.0
55°	515.1	504.8	501.6	497.7	511.2	510.6	468.6	217.5	14.2	21.3	29.7
57.5°	323.4	327.9	344.7	375.7	412.5	433.8	432.5	116.2	13.6	20.0	27.8
60°	245.9	245.3	250.5	263.4	290.5	320.8	349.2	40.7	12.9	18.7	26.5
62.5°	73.6	75.5	91.0	133.6	160.1	197.5	180.1	9.7	12.3	16.8	23.9
65°	14.8	15.5	15.5	17.4	21.3	32.3	39.4	8.4	11.6	15.5	21.9
67.5°	6.5	6.5	6.5	7.1	7.1	8.4	7.1	7.7	10.3	13.6	19.4
70°	5.8	5.8	5.8	5.8	5.8	5.8	6.5	6.5	9.0	11.6	16.8
72.5°	4.5	4.5	4.5	5.2	5.2	5.2	5.2	5.8	7.7	9.7	14.2
75°	3.9	3.9	3.9	3.9	4.5	4.5	4.5	5.2	6.5	8.4	11.6
77.5°	3.2	3.2	3.2	3.2	3.2	3.9	3.9	3.9	5.2	6.5	9.7
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.2	3.9	5.2	7.1
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	3.2	3.9	5.2
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9	2.6	3.2
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.3	1.9
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°	94.2	94.2	94.2
2.5°	71.7	67.8	65.8
5°	58.7	55.5	54.9
7.5°	54.2	53.6	53.6
10°	52.9	53.6	54.2
12.5°	52.9	54.2	54.9
15°	52.9	54.2	54.9
17.5°	52.9	54.2	54.9
20°	52.3	54.2	55.5
22.5°	51.6	54.2	54.9
25°	51.0	54.2	54.9
27.5°	50.4	53.6	54.9
30°	49.7	53.6	55.5
32.5°	48.4	53.6	55.5
35°	47.8	53.6	55.5
37.5°	47.1	53.6	56.2
40°	46.5	53.6	56.2
42.5°	45.8	53.6	56.2
45°	45.2	52.9	56.2
47.5°	43.9	52.9	56.2
50°	43.2	52.3	55.5
52.5°	42.0	51.6	55.5
55°	40.7	50.4	53.6
57.5°	38.7	48.4	51.0
60°	36.1	45.8	48.4
62.5°	32.9	42.6	44.5
65°	30.3	38.7	41.3
67.5°	26.5	34.2	36.8
70°	23.2	29.7	32.3
72.5°	20.0	25.2	27.8
75°	16.8	20.7	22.6
77.5°	12.9	16.8	18.1
80°	10.3	12.9	14.2
82.5°	7.1	9.0	9.7
85°	4.5	5.8	6.5
87.5°	1.9	2.6	2.6
90°	0.0	0.0	0.0

(END OF REPORT)