

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: P1313293

Luminaire Tested: P3SQAS09R509730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R509730DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

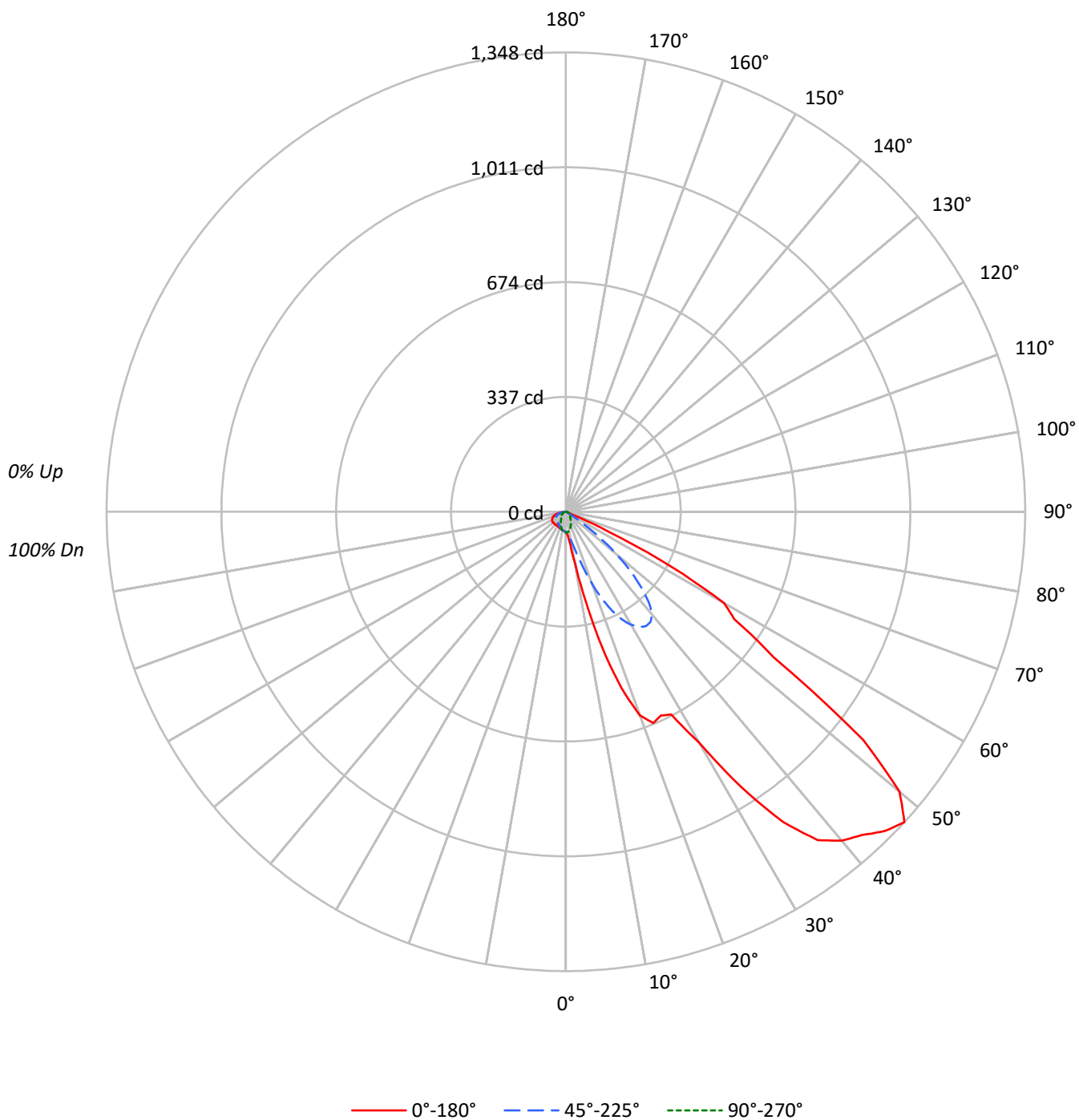
Lumens per Lamp: N/A
Luminaire Lumens: 760.0 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10402	10402	10402	10402	10402
5°	12378	11583	10321	9871	9768
10°	26634	14358	9881	9531	9636
15°	73744	23518	8897	9129	9485
20°	116582	41274	7698	8779	9255
25°	125361	60619	6613	8475	9349
30°	155612	76106	5747	8352	9665
35°	233519	86116	4962	8410	10218
40°	283207	88557	4429	8701	10769
45°	322643	75942	4311	9280	11837
50°	342442	52407	4394	10021	13182
55°	223724	21078	4324	10839	14593
60°	184519	3617	4306	11746	16051
65°	55626	1875	3994	12592	17645
70°	2316	1964	3978	12891	19185
75°	2196	2196	3926	13109	20961
80°	1984	1984	3868	12992	21522
85°	1383	2569	5138	13042	20748

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 343558 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.8
10°-20°	36.0	4.7
20°-30°	92.5	12.2
30°-40°	166.2	21.9
40°-50°	222.0	29.2
50°-60°	169.1	22.2
60°-70°	51.3	6.8
70°-80°	12.3	1.6
80°-90°	4.4	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°	134.8	17.7
0°-40°	301.0	39.6
0°-60°	692.0	91.1
0°-90°	760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	760.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	60	60	60	60	60	
5°	72	67	60	57	56	9
15°	414	132	50	51	53	122
25°	660	319	35	45	49	315
35°	1111	410	24	40	49	682
45°	1325	312	18	38	49	1013
55°	745	70	14	36	49	741
65°	136	5	10	31	43	189
75°	3	3	6	20	32	3
85°	1	1	3	7	10	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°	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
2.5°	64.3	64.3	64.3	64.3	64.3	64.3	63.7	63.7	63.7	62.4	61.0
5°	71.6	72.2	71.6	71.6	70.2	70.2	68.9	68.9	67.0	63.0	59.7
7.5°	93.9	93.2	92.6	89.9	88.0	83.4	81.4	78.1	72.2	63.0	58.4
10°	152.3	148.4	145.7	139.8	127.3	119.5	109.0	98.5	82.1	63.0	56.5
12.5°	264.5	263.9	256.0	236.3	218.6	194.3	168.7	143.1	101.1	61.7	53.8
15°	413.6	407.7	396.5	373.5	342.0	303.9	258.0	212.7	131.9	59.7	49.9
17.5°	540.9	533.7	525.2	502.2	466.1	418.2	363.0	300.7	174.0	57.1	46.0
20°	636.1	631.5	624.3	605.9	571.8	528.4	466.7	391.2	225.2	53.8	42.0
22.5°	670.9	670.2	671.5	665.0	647.9	613.8	554.7	475.9	275.7	49.9	38.1
25°	659.7	659.1	667.6	676.1	680.1	666.3	621.0	544.2	319.0	46.6	34.8
27.5°	670.2	668.3	664.3	665.6	676.8	684.7	663.7	596.7	356.4	42.0	31.5
30°	782.5	771.3	753.6	723.4	701.1	699.1	689.9	638.1	382.7	37.4	28.9
32.5°	957.7	944.0	911.8	856.0	802.8	762.1	733.2	672.9	401.1	32.8	25.6
35°	1110.7	1100.9	1063.4	1008.3	932.1	856.0	803.5	724.1	409.6	28.9	23.6
37.5°	1214.4	1210.5	1173.7	1114.6	1037.2	947.2	877.7	776.6	407.7	24.3	21.7
40°	1259.7	1247.9	1217.0	1167.2	1089.0	1008.3	934.8	810.0	393.9	19.7	19.7
42.5°	1286.6	1273.5	1240.0	1192.8	1116.0	1030.0	941.3	795.6	361.0	15.8	19.0
45°	1324.7	1310.9	1266.9	1216.4	1138.9	1039.1	915.7	744.4	311.8	11.8	17.7
47.5°	1347.7	1338.5	1305.7	1255.1	1161.2	1026.0	856.7	696.5	257.3	9.2	17.1
50°	1278.1	1268.9	1244.6	1209.8	1146.8	982.0	804.8	619.0	195.6	7.2	16.4
52.5°	1100.2	1108.1	1112.7	1122.5	1076.6	883.6	727.3	557.3	131.9	5.9	15.1
55°	745.1	756.9	770.0	809.4	863.2	786.4	645.9	481.8	70.2	5.9	14.4
57.5°	585.5	581.6	577.7	575.0	617.1	648.6	567.8	385.3	30.2	5.9	13.1
60°	535.7	523.8	516.0	517.9	538.9	526.5	449.7	251.4	10.5	5.9	12.5
62.5°	351.2	360.4	378.1	408.3	393.9	338.1	261.3	99.8	5.3	5.9	11.2
65°	136.5	131.9	136.5	145.1	125.4	93.2	58.4	17.7	4.6	5.3	9.8
67.5°	18.4	16.4	12.5	7.9	7.2	6.6	5.3	4.6	4.6	5.3	9.2
70°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	3.9	3.9	4.6	7.9
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.6	6.6
75°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.9	5.9
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.3	4.6
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.6	3.9
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0	2.6	3.3
85°	0.7	1.3	0.7	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.6
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	2.0	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):

	112.5°	135°	157.5°	180°
0°	60.4	60.4	60.4	60.4
2.5°	59.7	58.4	58.4	58.4
5°	58.4	57.1	57.1	56.5
7.5°	56.5	55.8	55.8	55.8
10°	55.1	54.5	55.1	55.1
12.5°	52.5	53.2	53.8	53.8
15°	49.9	51.2	52.5	53.2
17.5°	47.3	49.9	51.2	51.9
20°	44.6	47.9	49.9	50.5
22.5°	42.7	46.0	48.6	49.9
25°	40.0	44.6	47.9	49.2
27.5°	37.4	42.7	46.6	48.6
30°	35.4	42.0	46.6	48.6
32.5°	33.5	40.7	46.0	47.9
35°	32.2	40.0	46.0	48.6
37.5°	30.9	39.4	46.0	47.9
40°	30.2	38.7	46.0	47.9
42.5°	29.5	38.7	46.0	48.6
45°	28.2	38.1	46.0	48.6
47.5°	27.6	38.1	46.0	48.6
50°	26.9	37.4	46.0	49.2
52.5°	26.3	36.8	46.0	49.2
55°	24.9	36.1	45.3	48.6
57.5°	24.3	35.4	44.6	47.3
60°	23.0	34.1	43.3	46.6
62.5°	21.7	32.8	42.0	44.6
65°	19.7	30.9	40.0	43.3
67.5°	17.7	28.2	38.1	41.4
70°	15.8	25.6	35.4	38.1
72.5°	13.8	23.0	32.8	34.8
75°	11.8	19.7	28.9	31.5
77.5°	9.8	17.1	24.3	26.3
80°	7.2	13.1	19.7	21.7
82.5°	5.9	9.8	14.4	15.8
85°	3.9	6.6	9.2	10.5
87.5°	2.0	3.3	4.6	5.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)