

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: P1313311

Luminaire Tested: P3SQAS09R609730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313311
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: P3SQAS09R609730DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

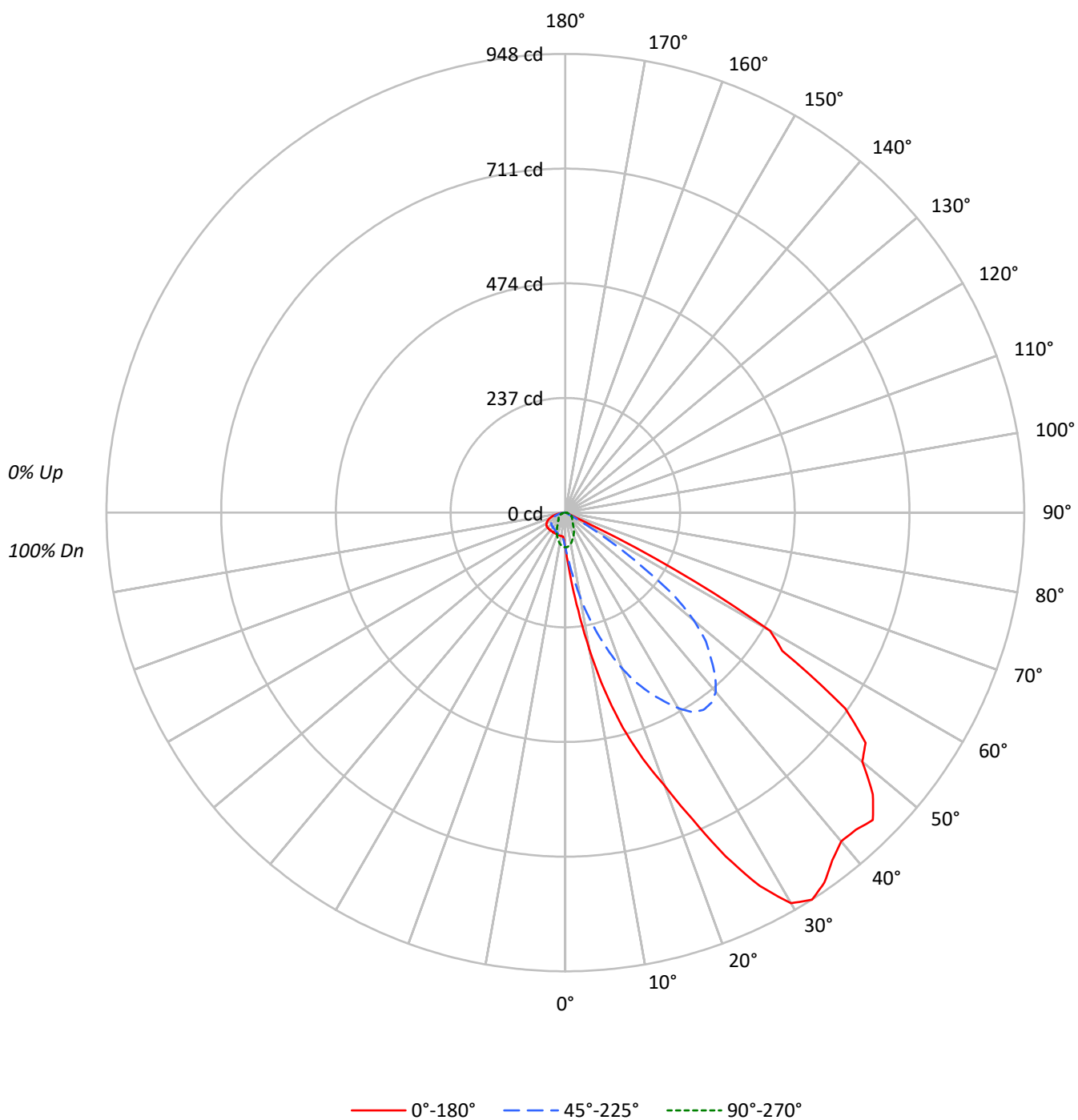
Lumens per Lamp: N/A
Luminaire Lumens: 722.0 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12314	12314	12314	12314	12314
5°	24272	18948	12136	9197	8730
10°	50155	30866	11367	8377	8499
15°	82035	46340	10181	8433	8665
20°	110057	62790	9145	8412	8779
25°	148905	77949	7981	8361	9102
30°	185343	92791	6662	8352	9526
35°	196222	104597	5656	8557	9945
40°	199349	108746	5171	8858	10769
45°	218838	103586	4944	9426	11667
50°	214532	92838	4930	10021	12834
55°	212044	56960	4924	10839	14202
60°	168193	13571	5201	11539	15362
65°	10718	2404	5094	11777	16586
70°	2316	2669	4935	12236	17523
75°	2196	2595	4392	11778	17900
80°	1984	2579	4562	11703	16960
85°	1383	2569	5138	10473	16796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 230965 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	1.2
10°-20°	45.0	6.2
20°-30°	104.4	14.5
30°-40°	162.3	22.5
40°-50°	184.9	25.6
50°-60°	155.8	21.6
60°-70°	45.2	6.3
70°-80°	11.6	1.6
80°-90°	3.9	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°	158.3	21.9
0°-40°	320.6	44.4
0°-60°	661.3	91.6
0°-90°	722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	722.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	72	72	72	72	72	
5°	140	110	70	53	50	18
15°	460	260	57	47	49	133
25°	784	410	42	44	48	364
35°	933	498	27	41	47	580
45°	898	425	20	39	48	675
55°	706	190	16	36	47	594
65°	26	6	12	29	41	130
75°	3	4	7	18	27	3
85°	1	1	3	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°	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
2.5°	96.5	95.8	95.8	95.2	94.5	93.9	91.9	91.2	87.3	79.4	71.5
5°	140.4	139.8	137.8	137.2	133.9	129.3	124.7	120.1	109.6	87.3	70.2
7.5°	203.5	204.8	203.5	196.2	191.6	184.4	170.6	160.8	139.8	95.2	67.6
10°	286.8	286.8	284.8	273.7	263.8	250.1	232.3	215.3	176.5	102.4	65.0
12.5°	377.4	379.3	369.5	360.3	342.6	325.5	301.2	275.6	218.6	108.3	61.7
15°	460.1	458.8	448.9	437.1	418.7	395.1	369.5	336.7	259.9	112.2	57.1
17.5°	533.6	531.0	522.4	509.3	487.0	460.7	427.9	392.5	302.6	115.5	53.8
20°	600.5	591.3	581.5	567.7	546.0	518.5	484.4	444.3	342.6	115.5	49.9
22.5°	685.2	676.0	662.2	641.2	612.3	578.2	538.2	492.9	378.0	112.9	45.9
25°	783.6	776.4	752.8	725.9	688.5	647.8	601.2	540.1	410.2	108.9	42.0
27.5°	869.6	861.7	838.1	798.7	753.4	704.9	655.7	593.3	438.4	101.7	37.4
30°	932.0	922.1	903.7	866.3	811.2	752.1	693.7	634.0	466.6	93.2	33.5
32.5°	948.4	947.1	933.3	905.7	856.5	791.5	721.9	657.0	488.9	82.0	30.2
35°	933.3	935.2	932.6	918.8	882.7	819.1	740.3	669.4	497.5	70.9	26.9
37.5°	905.7	908.3	912.9	914.9	891.9	835.5	750.8	674.7	495.5	59.7	24.9
40°	886.7	885.4	885.4	898.5	893.9	842.7	752.1	670.7	483.7	47.9	23.0
42.5°	888.6	874.2	864.4	885.4	891.9	839.4	743.6	660.2	458.1	36.8	21.0
45°	898.5	867.6	850.6	877.5	888.0	828.3	727.8	644.5	425.3	25.6	20.3
47.5°	861.7	841.4	838.8	876.8	880.8	809.2	703.6	619.6	393.8	17.7	19.0
50°	800.7	797.4	811.2	850.6	851.2	777.7	676.0	574.3	346.5	12.5	18.4
52.5°	781.7	783.6	796.1	816.4	797.4	724.6	626.1	536.2	286.8	9.8	17.7
55°	706.2	709.5	721.3	733.8	720.0	659.6	565.7	490.3	189.7	9.2	16.4
57.5°	531.6	540.1	561.8	573.0	574.3	537.5	512.6	422.7	107.0	9.2	15.8
60°	488.3	477.1	467.3	444.3	423.3	418.7	421.3	317.0	39.4	8.5	15.1
62.5°	255.3	250.1	265.1	275.0	277.6	292.1	273.0	167.4	8.5	8.5	13.8
65°	26.3	26.3	32.2	42.7	70.9	94.5	89.9	48.6	5.9	7.9	12.5
67.5°	7.9	7.9	7.9	9.2	11.8	11.8	9.8	7.2	5.9	7.2	11.2
70°	4.6	4.6	4.6	4.6	4.6	4.6	5.3	4.6	5.3	6.6	9.8
72.5°	3.9	3.9	3.9	3.9	4.6	4.6	4.6	4.6	4.6	5.9	8.5
75°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.9	3.9	4.6	6.6
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	3.3	3.3	3.3	3.9	5.3
80°	2.0	2.0	2.0	2.0	2.0	2.6	2.6	2.6	2.6	3.3	4.6
82.5°	1.3	1.3	1.3	1.3	2.0	2.0	2.0	2.0	2.0	2.6	3.3
85°	0.7	1.3	1.3	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	1.3	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°	71.5	71.5	71.5	71.5
2.5°	65.0	60.4	57.8	56.4
5°	59.1	53.2	51.2	50.5
7.5°	53.8	49.9	49.2	49.2
10°	50.5	47.9	48.6	48.6
12.5°	48.6	47.9	48.6	49.2
15°	46.6	47.3	48.6	48.6
17.5°	45.3	46.6	47.9	48.6
20°	43.3	45.9	47.9	47.9
22.5°	42.0	45.3	47.3	47.9
25°	40.7	44.0	46.6	47.9
27.5°	38.7	43.3	46.6	47.3
30°	36.8	42.0	45.9	47.9
32.5°	34.8	41.3	45.9	47.3
35°	33.5	40.7	45.9	47.3
37.5°	32.2	40.0	45.9	47.9
40°	31.5	39.4	45.3	47.9
42.5°	30.2	39.4	45.3	47.9
45°	29.5	38.7	45.3	47.9
47.5°	28.9	38.1	45.3	47.9
50°	27.6	37.4	44.6	47.9
52.5°	26.9	36.8	44.6	47.9
55°	25.6	36.1	44.0	47.3
57.5°	24.9	34.8	43.3	45.9
60°	23.6	33.5	42.0	44.6
62.5°	21.7	31.5	40.0	43.3
65°	19.7	28.9	38.1	40.7
67.5°	17.7	26.9	35.4	38.1
70°	15.8	24.3	32.2	34.8
72.5°	13.8	21.0	28.9	30.8
75°	11.8	17.7	24.3	26.9
77.5°	9.2	14.4	20.3	22.3
80°	7.2	11.8	15.8	17.1
82.5°	5.9	8.5	11.8	12.5
85°	3.9	5.3	7.2	8.5
87.5°	2.0	2.6	3.3	3.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)