

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: P1316894

Luminaire Tested: P3SQAS05R609830DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316894
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: P3SQAS05R609830DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

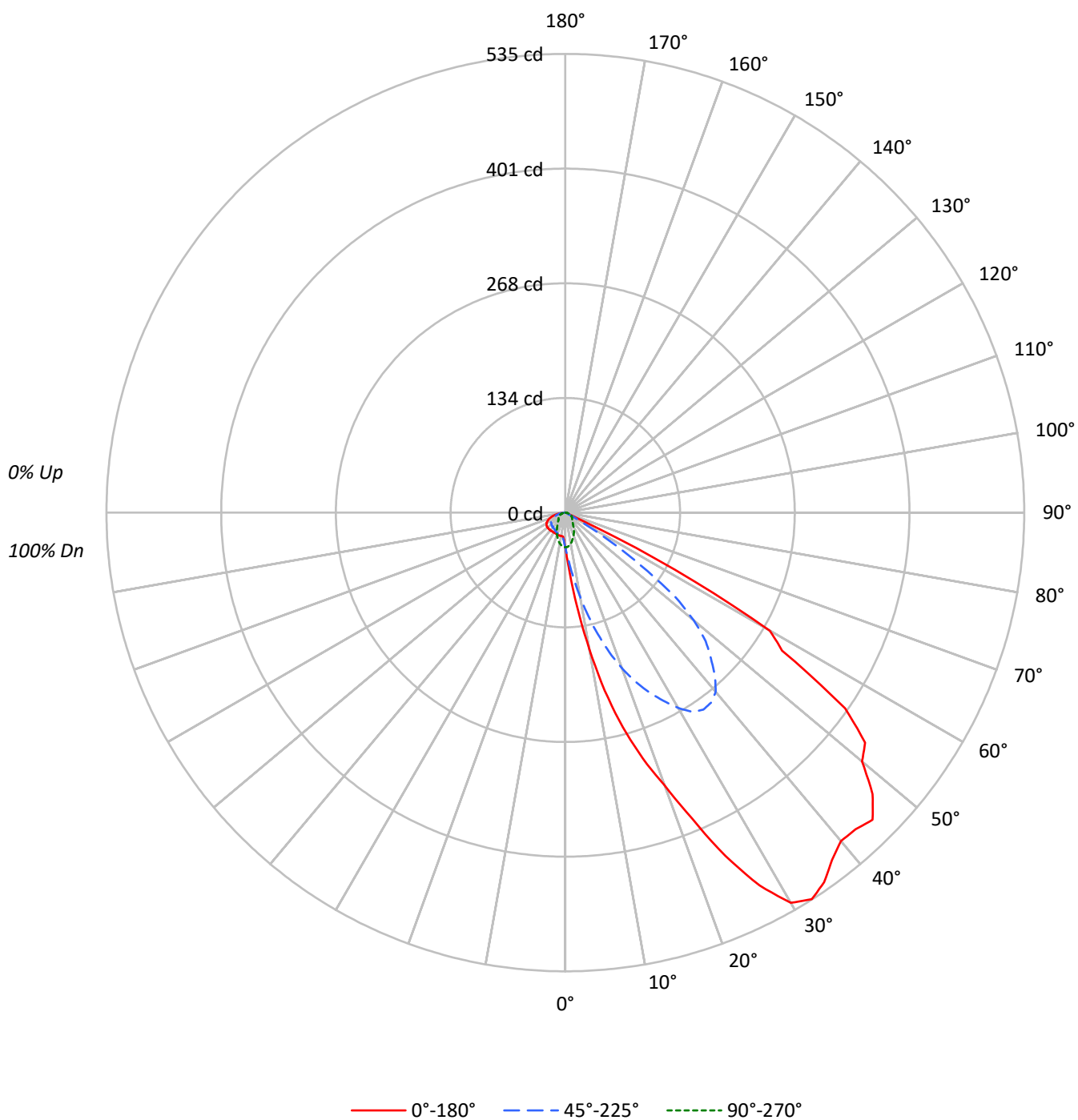
Lumens per Lamp: N/A
Luminaire Lumens: 407.0 lumens
Efficiency: N/A
Efficacy: 56.5 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6941	6941	6941	6941	6941
5°	13692	10684	6846	5186	4927
10°	28278	17401	6401	4722	4792
15°	46233	26121	5741	4743	4885
20°	62039	35391	5150	4747	4948
25°	83935	43934	4504	4713	5131
30°	104484	52302	3759	4713	5369
35°	110610	58953	3196	4815	5593
40°	112365	61309	2900	4991	6070
45°	123363	58381	2801	5310	6576
50°	120944	52327	2786	5653	7234
55°	119534	32098	2762	6095	7987
60°	94826	7647	2928	6510	8680
65°	6031	1345	2853	6642	9332
70°	1309	1511	2769	6899	9869
75°	1198	1464	2462	6654	10114
80°	1091	1488	2579	6645	9521
85°	790	1383	2964	5928	9485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 130194 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	1.2
10°-20°	25.4	6.2
20°-30°	58.9	14.5
30°-40°	91.5	22.5
40°-50°	104.2	25.6
50°-60°	87.8	21.6
60°-70°	25.5	6.3
70°-80°	6.5	1.6
80°-90°	2.2	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°	89.3	21.9
0°-40°	180.7	44.4
0°-60°	372.8	91.6
0°-90°	407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	407.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	40	40	40	40	40	
5°	79	62	40	30	28	10
15°	259	146	32	27	27	75
25°	442	231	24	25	27	205
35°	526	280	15	23	27	327
45°	506	240	12	22	27	381
55°	398	107	9	20	27	335
65°	15	3	7	16	23	73
75°	2	2	4	10	15	2
85°	0	1	2	3	5	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°	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
2.5°	54.4	54.0	54.0	53.6	53.3	52.9	51.8	51.4	49.2	44.8	40.3
5°	79.2	78.8	77.7	77.3	75.5	72.9	70.3	67.7	61.8	49.2	39.6
7.5°	114.7	115.4	114.7	110.6	108.0	104.0	96.2	90.6	78.8	53.6	38.1
10°	161.7	161.7	160.6	154.3	148.7	141.0	131.0	121.3	99.5	57.7	36.6
12.5°	212.7	213.8	208.3	203.1	193.1	183.5	169.8	155.4	123.2	61.0	34.8
15°	259.3	258.6	253.1	246.4	236.0	222.7	208.3	189.8	146.5	63.3	32.2
17.5°	300.8	299.3	294.5	287.1	274.5	259.7	241.2	221.2	170.6	65.1	30.3
20°	338.5	333.3	327.8	320.0	307.8	292.3	273.0	250.5	193.1	65.1	28.1
22.5°	386.2	381.1	373.3	361.5	345.2	325.9	303.4	277.8	213.1	63.6	25.9
25°	441.7	437.7	424.4	409.2	388.1	365.2	338.9	304.5	231.2	61.4	23.7
27.5°	490.2	485.8	472.4	450.3	424.7	397.3	369.6	334.5	247.1	57.3	21.1
30°	525.4	519.8	509.4	488.4	457.3	424.0	391.1	357.4	263.0	52.5	18.9
32.5°	534.6	533.9	526.1	510.6	482.8	446.2	407.0	370.3	275.6	46.2	17.0
35°	526.1	527.2	525.7	518.0	497.6	461.7	417.3	377.4	280.4	40.0	15.2
37.5°	510.6	512.0	514.6	515.7	502.8	471.0	423.2	380.3	279.3	33.7	14.1
40°	499.8	499.1	499.1	506.5	503.9	475.0	424.0	378.1	272.7	27.0	12.9
42.5°	500.9	492.8	487.2	499.1	502.8	473.2	419.2	372.2	258.2	20.7	11.8
45°	506.5	489.1	479.5	494.6	500.6	466.9	410.3	363.3	239.7	14.4	11.5
47.5°	485.8	474.3	472.8	494.3	496.5	456.2	396.6	349.3	222.0	10.0	10.7
50°	451.4	449.5	457.3	479.5	479.8	438.4	381.1	323.7	195.3	7.0	10.4
52.5°	440.6	441.7	448.8	460.2	449.5	408.4	352.9	302.3	161.7	5.5	10.0
55°	398.1	399.9	406.6	413.6	405.9	371.8	318.9	276.4	106.9	5.2	9.2
57.5°	299.7	304.5	316.7	323.0	323.7	303.0	288.9	238.3	60.3	5.2	8.9
60°	275.3	269.0	263.4	250.5	238.6	236.0	237.5	178.7	22.2	4.8	8.5
62.5°	143.9	141.0	149.5	155.0	156.5	164.6	153.9	94.3	4.8	4.8	7.8
65°	14.8	14.8	18.1	24.0	40.0	53.3	50.7	27.4	3.3	4.4	7.0
67.5°	4.4	4.4	4.4	5.2	6.7	6.7	5.5	4.1	3.3	4.1	6.3
70°	2.6	2.6	2.6	2.6	2.6	2.6	3.0	2.6	3.0	3.7	5.5
72.5°	2.2	2.2	2.2	2.2	2.6	2.6	2.6	2.6	2.6	3.3	4.8
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.2	2.2	2.6	3.7
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.8	1.8	1.8	2.2	3.0
80°	1.1	1.1	1.1	1.1	1.1	1.5	1.5	1.5	1.5	1.8	2.6
82.5°	0.7	0.7	0.7	0.7	1.1	1.1	1.1	1.1	1.1	1.5	1.8
85°	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.5
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	1.1
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°	40.3	40.3	40.3	40.3
2.5°	36.6	34.0	32.6	31.8
5°	33.3	30.0	28.9	28.5
7.5°	30.3	28.1	27.7	27.7
10°	28.5	27.0	27.4	27.4
12.5°	27.4	27.0	27.4	27.7
15°	26.3	26.6	27.4	27.4
17.5°	25.5	26.3	27.0	27.4
20°	24.4	25.9	27.0	27.0
22.5°	23.7	25.5	26.6	27.0
25°	22.9	24.8	26.3	27.0
27.5°	21.8	24.4	26.3	26.6
30°	20.7	23.7	25.9	27.0
32.5°	19.6	23.3	25.9	26.6
35°	18.9	22.9	25.9	26.6
37.5°	18.1	22.6	25.9	27.0
40°	17.8	22.2	25.5	27.0
42.5°	17.0	22.2	25.5	27.0
45°	16.6	21.8	25.5	27.0
47.5°	16.3	21.5	25.5	27.0
50°	15.5	21.1	25.2	27.0
52.5°	15.2	20.7	25.2	27.0
55°	14.4	20.3	24.8	26.6
57.5°	14.1	19.6	24.4	25.9
60°	13.3	18.9	23.7	25.2
62.5°	12.2	17.8	22.6	24.4
65°	11.1	16.3	21.5	22.9
67.5°	10.0	15.2	20.0	21.5
70°	8.9	13.7	18.1	19.6
72.5°	7.8	11.8	16.3	17.4
75°	6.7	10.0	13.7	15.2
77.5°	5.2	8.1	11.5	12.6
80°	4.1	6.7	8.9	9.6
82.5°	3.3	4.8	6.7	7.0
85°	2.2	3.0	4.1	4.8
87.5°	1.1	1.5	1.8	2.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)