

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: P1314126

Luminaire Tested: P3SQAS05R609735DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314126
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: P3SQAS05R609735DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

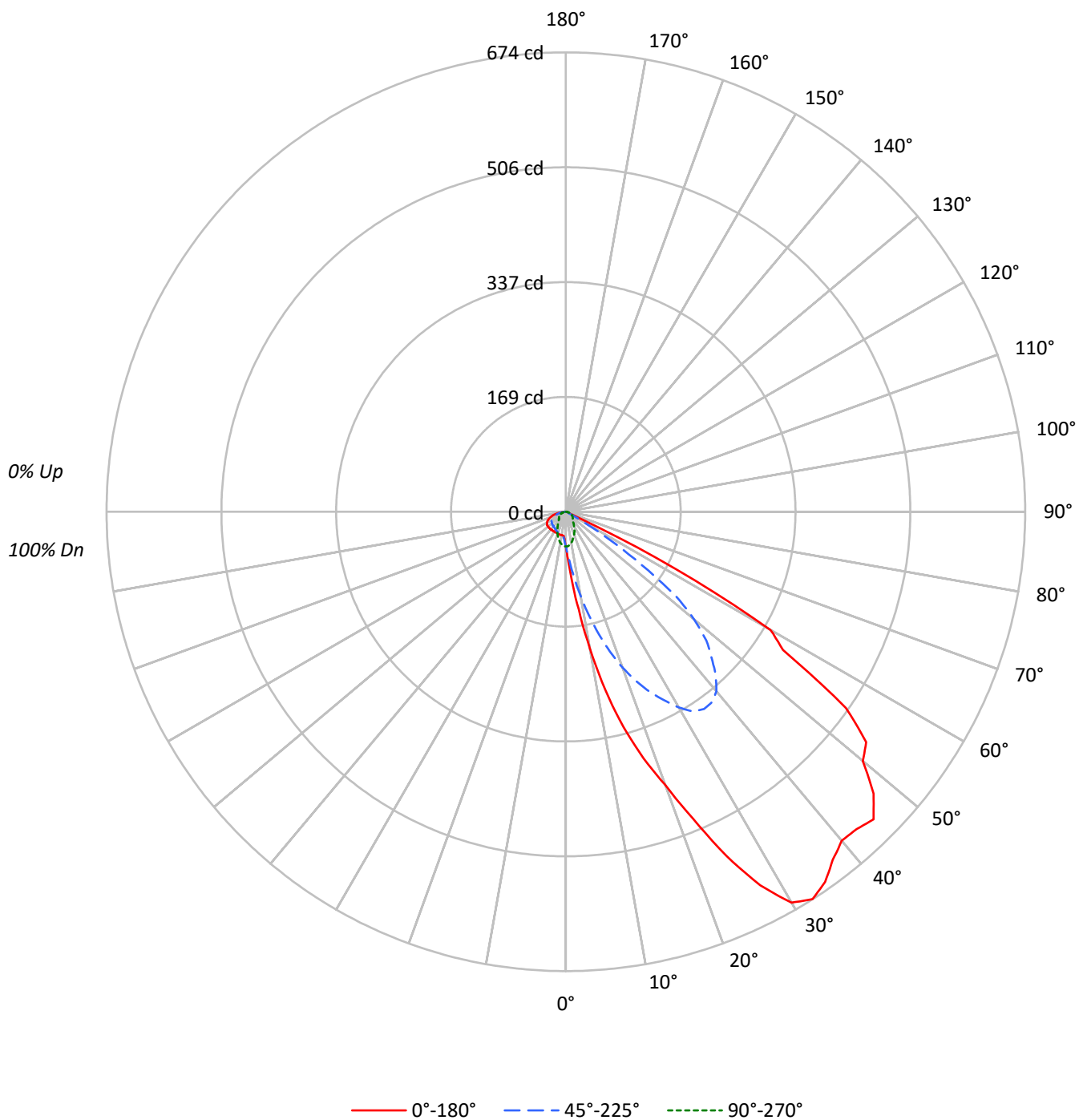
Lumens per Lamp: N/A
Luminaire Lumens: 513.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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	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°	8749	8749	8749	8749	8749
5°	17253	13467	8627	6535	6206
10°	35640	21930	8079	5946	6033
15°	58286	32932	7239	5991	6151
20°	78204	44609	6488	5975	6231
25°	105807	55393	5663	5929	6461
30°	131689	65944	4733	5926	6761
35°	139413	74322	4016	6076	7064
40°	141637	77271	3665	6295	7644
45°	155488	73604	3532	6698	8281
50°	152426	65965	3510	7127	9110
55°	150671	40475	3513	7687	10089
60°	119488	9644	3686	8198	10919
65°	7621	1712	3627	8354	11777
70°	1662	1863	3525	8711	12438
75°	1530	1863	3127	8384	12709
80°	1389	1884	3273	8331	12001
85°	988	1778	3754	7311	12054

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 164114 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	1.2
10°-20°	32.0	6.2
20°-30°	74.2	14.5
30°-40°	115.3	22.5
40°-50°	131.4	25.6
50°-60°	110.7	21.6
60°-70°	32.1	6.3
70°-80°	8.2	1.6
80°-90°	2.8	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°	112.5	21.9
0°-40°	227.8	44.4
0°-60°	469.9	91.6
0°-90°	513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	513.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	51	51	51	51	51	
5°	100	78	50	38	36	13
15°	327	185	41	34	34	95
25°	557	292	30	31	34	259
35°	663	354	19	29	34	412
45°	638	302	14	28	34	480
55°	502	135	12	26	34	422
65°	19	4	9	20	29	92
75°	2	3	5	13	19	2
85°	0	1	2	4	6	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°	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
2.5°	68.5	68.1	68.1	67.6	67.2	66.7	65.3	64.8	62.0	56.4	50.8
5°	99.8	99.3	97.9	97.5	95.1	91.9	88.6	85.3	77.9	62.0	49.9
7.5°	144.6	145.5	144.6	139.4	136.2	131.0	121.2	114.2	99.3	67.6	48.0
10°	203.8	203.8	202.4	194.5	187.5	177.7	165.1	153.0	125.4	72.7	46.2
12.5°	268.1	269.5	262.5	256.0	243.4	231.3	214.0	195.9	155.3	76.9	43.8
15°	326.9	326.0	319.0	310.6	297.5	280.7	262.5	239.2	184.7	79.7	40.6
17.5°	379.1	377.3	371.2	361.9	346.0	327.4	304.0	278.9	215.0	82.1	38.2
20°	426.7	420.2	413.2	403.4	388.0	368.4	344.1	315.7	243.4	82.1	35.4
22.5°	486.8	480.3	470.5	455.6	435.1	410.8	382.4	350.2	268.6	80.2	32.6
25°	556.8	551.7	534.9	515.8	489.2	460.3	427.2	383.8	291.5	77.4	29.8
27.5°	617.9	612.3	595.5	567.5	535.3	500.8	465.9	421.6	311.5	72.3	26.6
30°	662.2	655.2	642.1	615.5	576.4	534.4	492.9	450.5	331.6	66.2	23.8
32.5°	673.8	672.9	663.1	643.5	608.6	562.4	513.0	466.8	347.4	58.3	21.5
35°	663.1	664.5	662.6	652.9	627.2	582.0	526.0	475.7	353.5	50.4	19.1
37.5°	643.5	645.4	648.7	650.1	633.7	593.6	533.5	479.4	352.1	42.4	17.7
40°	630.0	629.1	629.1	638.4	635.1	598.8	534.4	476.6	343.7	34.0	16.3
42.5°	631.4	621.1	614.1	629.1	633.7	596.4	528.3	469.1	325.5	26.1	14.9
45°	638.4	616.5	604.4	623.5	630.9	588.5	517.2	457.9	302.2	18.2	14.5
47.5°	612.3	597.8	596.0	623.0	625.8	575.0	499.9	440.2	279.8	12.6	13.5
50°	568.9	566.6	576.4	604.4	604.8	552.6	480.3	408.0	246.2	8.9	13.1
52.5°	555.4	556.8	565.7	580.1	566.6	514.8	444.9	381.0	203.8	7.0	12.6
55°	501.8	504.1	512.5	521.3	511.6	468.7	402.0	348.3	134.8	6.5	11.7
57.5°	377.7	383.8	399.2	407.1	408.0	381.9	364.2	300.3	76.0	6.5	11.2
60°	346.9	339.0	332.0	315.7	300.8	297.5	299.4	225.2	28.0	6.1	10.7
62.5°	181.4	177.7	188.4	195.4	197.3	207.5	194.0	118.9	6.1	6.1	9.8
65°	18.7	18.7	22.8	30.3	50.4	67.2	63.9	34.5	4.2	5.6	8.9
67.5°	5.6	5.6	5.6	6.5	8.4	8.4	7.0	5.1	4.2	5.1	7.9
70°	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.3	3.7	4.7	7.0
72.5°	2.8	2.8	2.8	2.8	3.3	3.3	3.3	3.3	3.3	4.2	6.1
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.8	2.8	3.3	4.7
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	2.3	2.3	2.3	2.8	3.7
80°	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.9	1.9	2.3	3.3
82.5°	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.9	2.3
85°	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.9
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	1.4
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°	50.8	50.8	50.8	50.8
2.5°	46.2	42.9	41.0	40.1
5°	42.0	37.8	36.4	35.9
7.5°	38.2	35.4	35.0	35.0
10°	35.9	34.0	34.5	34.5
12.5°	34.5	34.0	34.5	35.0
15°	33.1	33.6	34.5	34.5
17.5°	32.2	33.1	34.0	34.5
20°	30.8	32.6	34.0	34.0
22.5°	29.8	32.2	33.6	34.0
25°	28.9	31.2	33.1	34.0
27.5°	27.5	30.8	33.1	33.6
30°	26.1	29.8	32.6	34.0
32.5°	24.7	29.4	32.6	33.6
35°	23.8	28.9	32.6	33.6
37.5°	22.8	28.4	32.6	34.0
40°	22.4	28.0	32.2	34.0
42.5°	21.5	28.0	32.2	34.0
45°	21.0	27.5	32.2	34.0
47.5°	20.5	27.0	32.2	34.0
50°	19.6	26.6	31.7	34.0
52.5°	19.1	26.1	31.7	34.0
55°	18.2	25.6	31.2	33.6
57.5°	17.7	24.7	30.8	32.6
60°	16.8	23.8	29.8	31.7
62.5°	15.4	22.4	28.4	30.8
65°	14.0	20.5	27.0	28.9
67.5°	12.6	19.1	25.2	27.0
70°	11.2	17.3	22.8	24.7
72.5°	9.8	14.9	20.5	21.9
75°	8.4	12.6	17.3	19.1
77.5°	6.5	10.3	14.5	15.9
80°	5.1	8.4	11.2	12.1
82.5°	4.2	6.1	8.4	8.9
85°	2.8	3.7	5.1	6.1
87.5°	1.4	1.9	2.3	2.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)