

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: P1315109

Luminaire Tested: P3SQAS05R709740DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R709740DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

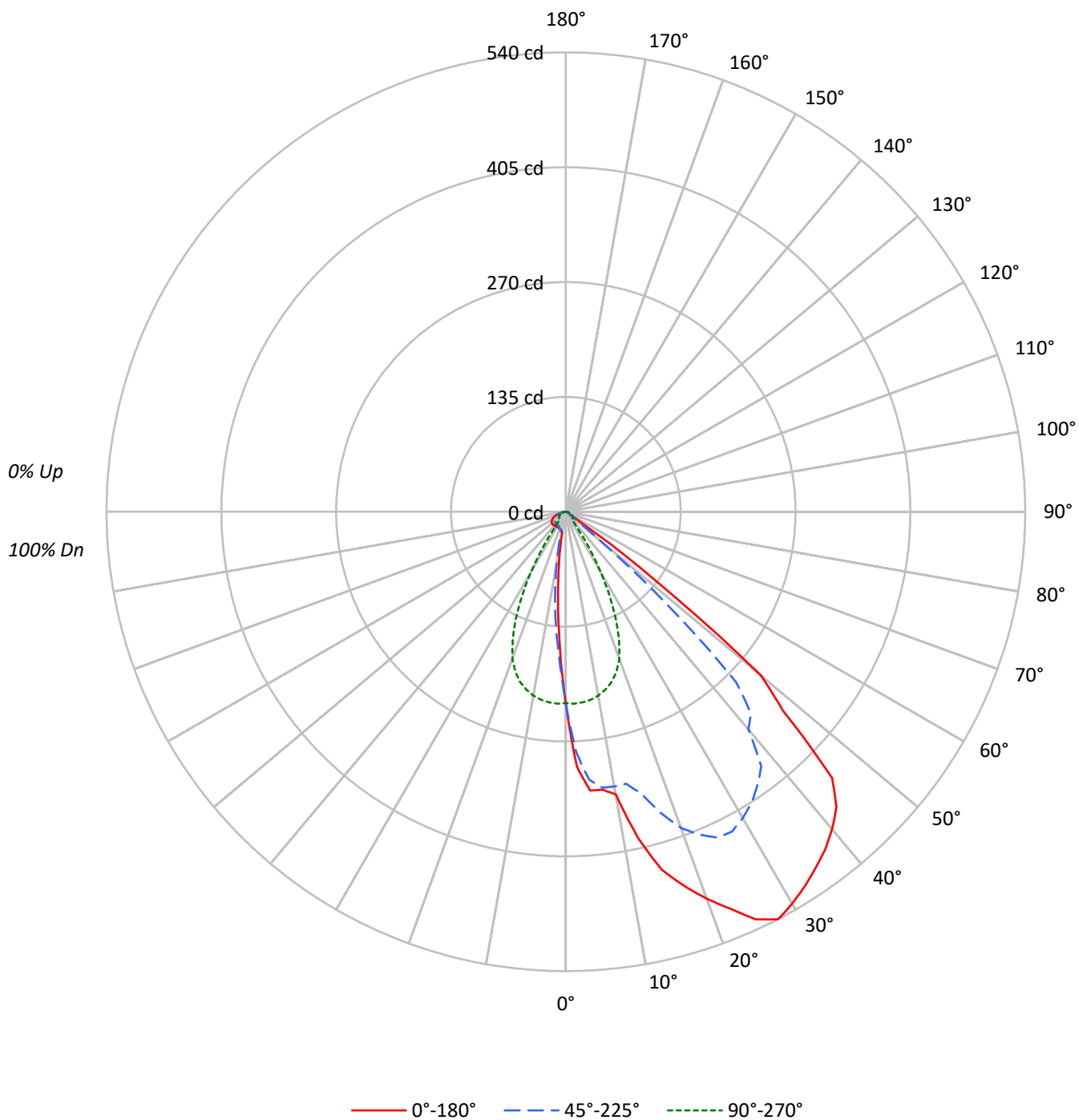
Lumens per Lamp: N/A
Luminaire Lumens: 427.0 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87
3	97	89	83	78	95	87	82	77	85	80	76		82	78	74		80
4	90	81	74	68	88	80	73	68	77	72	67		75	70	66		73
5	84	74	66	61	82	73	66	61	71	65	60		69	64	59		67
6	79	67	60	54	77	66	59	54	65	58	54		63	58	53		62
7	73	62	54	49	72	61	54	49	60	53	48		58	52	48		57
8	69	57	49	44	67	56	49	44	55	49	44		54	48	44		53
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		49
10	60	49	42	37	59	48	41	37	47	41	37		46	41	36		45

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	38716	38716	38716	38716	38716
5°	56878	54699	38864	23201	18170
10°	58969	57360	38386	11105	4494
15°	77667	61156	36979	3976	3887
20°	88705	72467	33649	3812	3904
25°	100448	80286	26433	3687	3858
30°	105796	82668	16387	3659	4136
35°	107561	82521	5403	3763	4373
40°	109465	75045	2608	4024	4789
45°	107751	68927	2704	4238	5188
50°	80085	12727	2733	4662	5707
55°	6396	1742	2913	4954	6095
60°	1343	1826	2824	4994	6338
65°	1386	1793	2771	4931	6520
70°	1209	1712	2669	4633	6345
75°	998	1597	2262	4525	6122
80°	992	1488	2380	4364	5752
85°	988	1976	2964	3754	4742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 109042 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.5	4.8
10°-20°	57.5	13.5
20°-30°	96.6	22.6
30°-40°	116.2	27.2
40°-50°	92.1	21.6
50°-60°	29.5	6.9
60°-70°	8.2	1.9
70°-80°	4.9	1.1
80°-90°	1.6	0.4
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°	174.6	40.9
0°-40°	290.8	68.1
0°-60°	412.3	96.6
0°-90°	427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	427.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	225	225	225	225	225	
5°	329	316	225	134	105	31
15°	436	343	207	22	22	123
25°	529	422	139	19	20	242
35°	512	392	26	18	21	320
45°	442	283	11	17	21	318
55°	21	6	10	16	20	67
65°	3	4	7	12	16	3
75°	2	2	3	7	9	2
85°	0	1	2	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8
2.5°	299.9	301.9	301.9	299.4	300.4	296.5	293.6	289.3	288.3	283.0	276.2
5°	329.0	328.0	328.0	326.1	327.0	325.6	324.1	323.2	320.3	316.4	312.5
7.5°	329.5	330.4	330.9	330.4	332.4	330.9	330.9	330.9	329.0	327.0	323.2
10°	337.2	335.8	334.3	330.9	329.0	327.5	327.5	328.0	329.0	328.0	325.6
12.5°	392.9	387.6	385.2	377.0	370.7	360.0	347.9	338.7	330.4	327.5	325.6
15°	435.6	434.6	429.8	422.0	414.3	401.7	387.6	373.6	358.5	343.0	331.9
17.5°	460.8	458.8	454.0	445.8	436.5	424.9	413.8	403.1	388.6	371.1	353.2
20°	484.0	479.7	473.4	463.7	454.5	443.3	431.2	421.0	408.9	395.4	374.5
22.5°	504.9	501.0	490.8	477.7	468.5	457.9	447.2	437.5	426.4	410.9	392.0
25°	528.6	519.9	503.4	486.5	475.3	466.6	458.8	451.1	439.5	422.5	400.2
27.5°	540.2	528.1	510.2	493.2	482.6	473.4	465.1	457.4	444.3	423.5	397.8
30°	532.0	525.2	512.6	499.5	490.8	482.1	472.4	460.8	439.9	415.7	392.0
32.5°	522.3	518.9	513.1	505.3	500.0	491.3	477.7	458.8	429.8	406.0	380.3
35°	511.6	510.2	508.3	504.9	501.5	493.2	476.3	448.7	419.6	392.5	367.7
37.5°	500.5	499.0	500.5	500.0	497.1	486.5	460.8	435.1	405.1	377.4	329.5
40°	486.9	486.0	488.4	490.8	487.4	473.4	445.8	414.7	388.1	333.8	317.4
42.5°	470.9	470.5	474.8	476.8	471.9	451.1	418.6	395.8	339.6	322.2	283.4
45°	442.4	443.3	445.3	447.7	444.8	422.0	392.5	350.8	326.1	283.0	161.3
47.5°	346.4	347.4	357.1	377.4	391.5	383.7	358.5	327.5	291.7	161.8	50.9
50°	298.9	298.0	298.5	303.3	314.4	325.1	317.4	300.4	173.9	47.5	6.3
52.5°	131.3	145.8	161.3	204.9	233.1	262.6	268.4	188.0	56.7	6.3	6.3
55°	21.3	22.3	28.1	41.2	74.1	111.9	135.7	63.0	5.8	5.8	5.8
57.5°	4.4	4.4	4.4	4.8	7.3	15.5	17.9	5.3	5.3	5.3	5.8
60°	3.9	3.9	3.9	3.9	4.4	4.4	4.4	4.8	4.8	5.3	5.3
62.5°	3.9	3.9	3.9	3.9	3.9	3.9	4.4	4.4	4.8	4.8	5.3
65°	3.4	3.4	3.4	3.4	3.9	3.9	3.9	3.9	4.4	4.4	4.8
67.5°	2.9	2.9	2.9	2.9	3.4	3.4	3.4	3.9	3.9	3.9	4.4
70°	2.4	2.4	2.4	2.4	2.9	2.9	2.9	2.9	3.4	3.4	3.4
72.5°	1.9	1.9	1.9	1.9	2.4	2.4	2.4	2.4	2.9	2.9	2.9
75°	1.5	1.5	1.9	1.9	1.9	1.9	1.9	1.9	2.4	2.4	2.4
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	1.9	1.9	1.9
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5
82.5°	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8
2.5°	271.8	265.0	255.8	225.8	198.2	173.0	160.4	158.9
5°	306.2	299.9	284.4	224.8	172.0	134.2	111.4	105.1
7.5°	319.3	314.0	300.4	222.9	147.3	96.4	70.7	61.0
10°	322.7	319.3	307.7	219.5	121.6	63.5	33.4	25.7
12.5°	324.1	321.7	310.6	214.2	95.9	32.9	22.8	22.8
15°	326.6	324.1	313.5	207.4	70.7	22.3	21.8	21.8
17.5°	337.2	329.5	317.4	197.2	46.5	21.3	21.3	21.3
20°	354.7	337.7	319.3	183.6	29.1	20.8	20.8	21.3
22.5°	369.2	346.4	318.8	163.3	21.3	19.9	20.3	20.8
25°	375.5	350.3	314.4	139.1	18.4	19.4	20.3	20.3
27.5°	374.5	351.8	310.6	111.4	17.4	18.9	19.9	20.8
30°	369.2	347.9	301.9	82.4	16.5	18.4	19.9	20.8
32.5°	360.0	332.9	284.4	53.3	16.0	18.4	19.9	20.8
35°	330.0	308.6	259.2	25.7	15.5	17.9	20.3	20.8
37.5°	312.5	283.0	197.7	12.6	15.0	17.9	20.3	20.8
40°	284.4	211.2	89.2	11.6	15.0	17.9	20.3	21.3
42.5°	178.8	86.7	14.5	11.1	14.5	17.9	20.3	21.3
45°	65.4	11.6	7.8	11.1	14.5	17.4	20.3	21.3
47.5°	6.8	6.8	7.3	10.7	14.1	17.4	20.3	21.3
50°	6.3	6.8	7.3	10.2	13.6	17.4	19.9	21.3
52.5°	6.3	6.8	7.3	10.2	13.1	17.0	19.9	21.3
55°	6.3	6.8	6.8	9.7	12.6	16.5	19.4	20.3
57.5°	5.8	6.3	6.8	9.2	12.1	15.5	18.9	19.9
60°	5.8	6.3	6.8	8.2	11.6	14.5	17.9	18.4
62.5°	5.3	5.8	6.3	7.8	10.7	13.6	16.5	17.4
65°	5.3	5.3	5.8	6.8	9.7	12.1	15.0	16.0
67.5°	4.4	4.8	4.8	5.8	8.2	10.7	13.6	14.5
70°	3.9	3.9	4.4	5.3	7.3	9.2	11.6	12.6
72.5°	3.4	3.4	3.4	4.4	6.3	8.2	10.2	11.1
75°	2.9	2.9	2.9	3.4	5.3	6.8	8.7	9.2
77.5°	2.4	2.4	2.4	2.9	4.4	5.8	6.8	7.8
80°	1.9	1.9	1.9	2.4	3.4	4.4	5.3	5.8
82.5°	1.5	1.5	1.5	1.9	2.4	2.9	3.9	3.9
85°	1.0	1.0	1.0	1.5	1.5	1.9	2.4	2.4
87.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)