

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: P1314937

Luminaire Tested: P3SQAS02R659740DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R659740DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

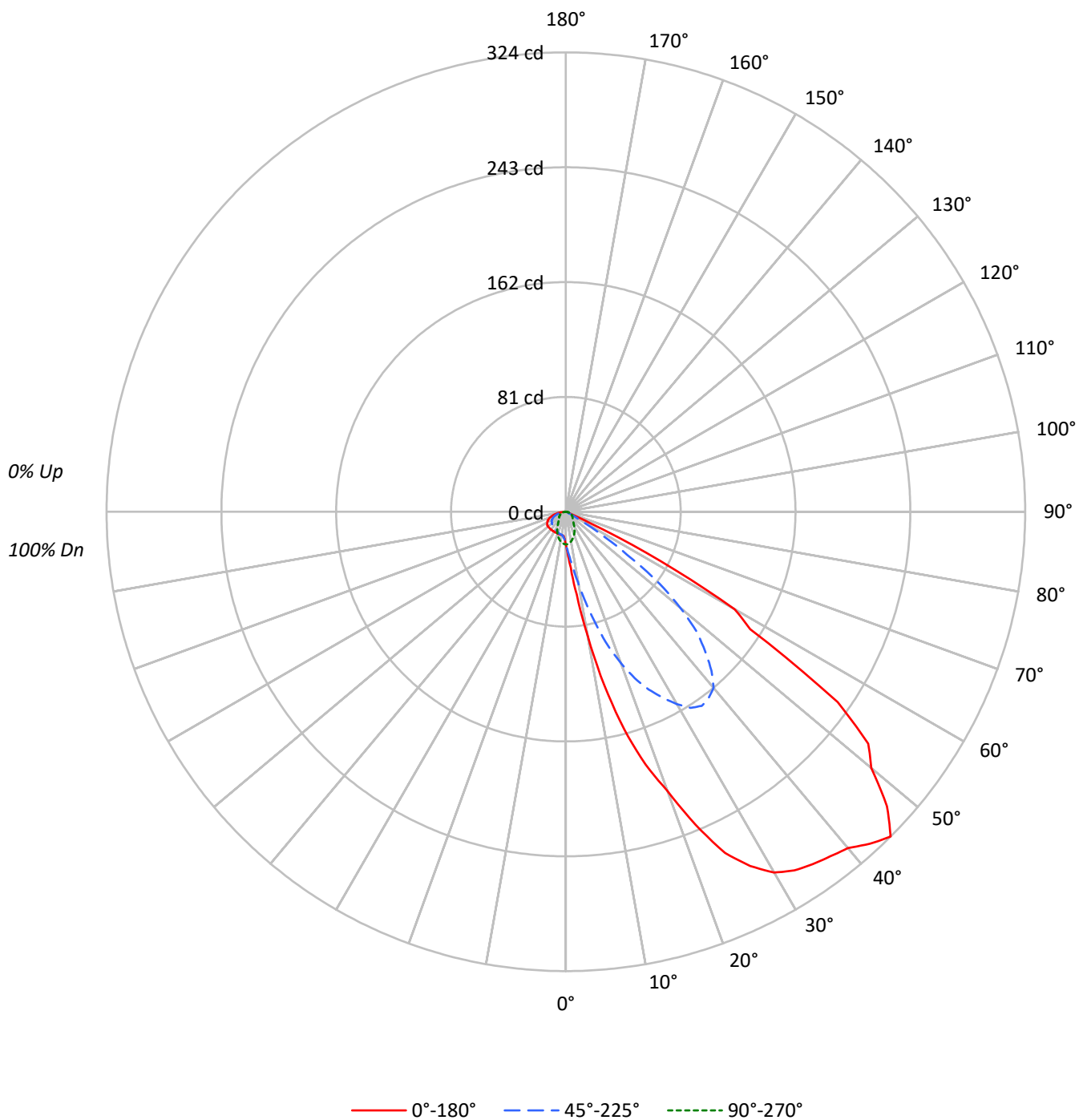
Lumens per Lamp: N/A
Luminaire Lumens: 235.0 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	94	91	92	90	89
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3944	3944	3944	3944	3944
5°	6881	5619	3873	3129	3008
10°	15582	9059	3707	2886	2920
15°	28314	14585	3441	2906	2978
20°	38396	20820	3116	2896	3024
25°	50471	26281	2736	2812	3097
30°	58427	31162	2347	2804	3242
35°	63809	35132	1976	2880	3427
40°	69604	36443	1754	3013	3665
45°	78913	33806	1656	3215	3970
50°	75369	28213	1634	3403	4367
55°	70261	15854	1711	3693	4804
60°	47327	3410	1688	3892	5201
65°	7294	856	1630	4034	5664
70°	806	806	1561	4129	6043
75°	799	799	1397	4059	6122
80°	694	893	1389	3769	6050
85°	395	988	1383	3754	5533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 78913 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	1.2
10°-20°	14.9	6.4
20°-30°	35.1	14.9
30°-40°	53.0	22.6
40°-50°	61.0	25.9
50°-60°	48.4	20.6
60°-70°	14.5	6.2
70°-80°	3.9	1.7
80°-90°	1.3	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°	52.8	22.5
0°-40°	105.9	45.0
0°-60°	215.3	91.6
0°-90°	235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	235.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	40	32	22	18	17	5
15°	159	82	19	16	17	46
25°	266	138	14	15	16	121
35°	304	167	9	14	16	190
45°	324	139	7	13	16	241
55°	234	53	6	12	16	193
65°	18	2	4	10	14	40
75°	1	1	2	6	9	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
2.5°	29.0	29.2	29.0	29.0	28.7	28.5	26.9	25.0	22.9	21.2	20.0
5°	39.8	40.1	39.3	39.3	38.9	38.2	32.5	27.1	22.4	19.8	18.1
7.5°	58.9	59.8	58.7	57.3	54.7	54.2	40.5	29.2	21.9	18.4	17.0
10°	89.1	88.4	87.2	84.4	79.9	77.8	51.8	31.3	21.2	17.4	16.5
12.5°	125.6	123.7	122.3	117.1	111.0	107.4	66.0	33.2	20.3	16.5	16.3
15°	158.8	157.4	154.1	149.2	141.6	138.8	81.8	34.4	19.3	15.8	16.3
17.5°	186.9	185.4	183.6	178.6	170.8	166.6	99.4	35.1	18.1	15.3	16.0
20°	209.5	208.5	205.9	201.9	194.2	190.2	113.6	35.1	17.0	14.8	15.8
22.5°	238.7	236.6	233.3	227.4	217.7	211.6	127.0	34.4	15.8	14.4	15.3
25°	265.6	264.1	259.9	252.8	242.5	236.3	138.3	33.0	14.4	13.7	14.8
27.5°	281.6	280.6	276.6	269.3	257.8	253.1	147.7	30.9	13.0	13.0	14.6
30°	293.8	291.9	287.9	280.9	269.1	263.4	156.7	28.3	11.8	12.3	14.1
32.5°	300.0	299.2	295.7	289.6	278.0	271.7	164.0	25.0	10.4	11.8	13.9
35°	303.5	302.8	300.0	294.1	283.2	277.1	167.1	21.9	9.4	11.3	13.7
37.5°	306.3	305.6	302.1	296.2	285.3	279.0	165.6	18.6	8.5	10.8	13.4
40°	309.6	307.0	301.6	295.7	285.8	279.7	162.1	15.6	7.8	10.6	13.4
42.5°	317.6	308.7	300.2	294.8	285.3	278.3	152.0	12.3	7.1	10.1	13.2
45°	324.0	308.2	297.4	293.1	283.5	275.4	138.8	9.0	6.8	9.9	13.2
47.5°	307.3	297.6	292.6	290.3	279.9	271.2	125.1	6.1	6.6	9.7	13.0
50°	281.3	280.2	278.3	278.5	269.1	262.0	105.3	4.2	6.1	9.4	12.7
52.5°	268.8	267.4	264.1	261.8	252.4	246.2	83.4	3.3	5.9	9.2	12.5
55°	234.0	234.9	231.4	232.8	230.0	226.9	52.8	3.1	5.7	8.7	12.3
57.5°	154.1	158.8	167.1	177.0	185.9	192.0	28.5	3.1	5.2	8.5	11.8
60°	137.4	136.2	136.0	137.8	141.8	145.1	9.9	2.8	4.9	7.8	11.3
62.5°	75.2	74.7	81.8	93.8	100.8	101.6	2.8	2.8	4.5	7.3	10.6
65°	17.9	18.6	20.7	25.9	30.6	33.7	2.1	2.6	4.0	6.8	9.9
67.5°	2.8	3.1	3.1	3.8	4.2	4.2	1.9	2.4	3.5	6.1	9.2
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.1	3.1	5.4	8.2
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.9	2.6	4.7	7.1
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.1	3.8	6.1
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.4	1.9	3.1	4.9
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.2	1.4	2.4	3.8
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.9	1.2	1.9	2.8
85°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.7	0.7	1.2	1.9
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.7	0.9
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):

	157.5°	180°
0°	22.9	22.9
2.5°	19.3	19.1
5°	17.4	17.4
7.5°	16.7	16.7
10°	16.5	16.7
12.5°	16.5	16.7
15°	16.5	16.7
17.5°	16.5	16.7
20°	16.3	16.5
22.5°	16.0	16.3
25°	15.8	16.3
27.5°	15.6	16.3
30°	15.6	16.3
32.5°	15.6	16.3
35°	15.3	16.3
37.5°	15.3	16.3
40°	15.3	16.3
42.5°	15.3	16.3
45°	15.3	16.3
47.5°	15.3	16.3
50°	15.3	16.3
52.5°	15.1	16.3
55°	15.1	16.0
57.5°	14.6	15.6
60°	14.1	15.1
62.5°	13.7	14.6
65°	13.0	13.9
67.5°	12.3	13.0
70°	11.1	12.0
72.5°	9.9	10.6
75°	8.5	9.2
77.5°	7.1	7.8
80°	5.7	6.1
82.5°	4.0	4.5
85°	2.6	2.8
87.5°	1.2	1.2
90°	0.0	0.0

(END OF REPORT)