

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: P1313964

Luminaire Tested: P3SQAS02R659735DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313964
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: P3SQAS02R659735DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

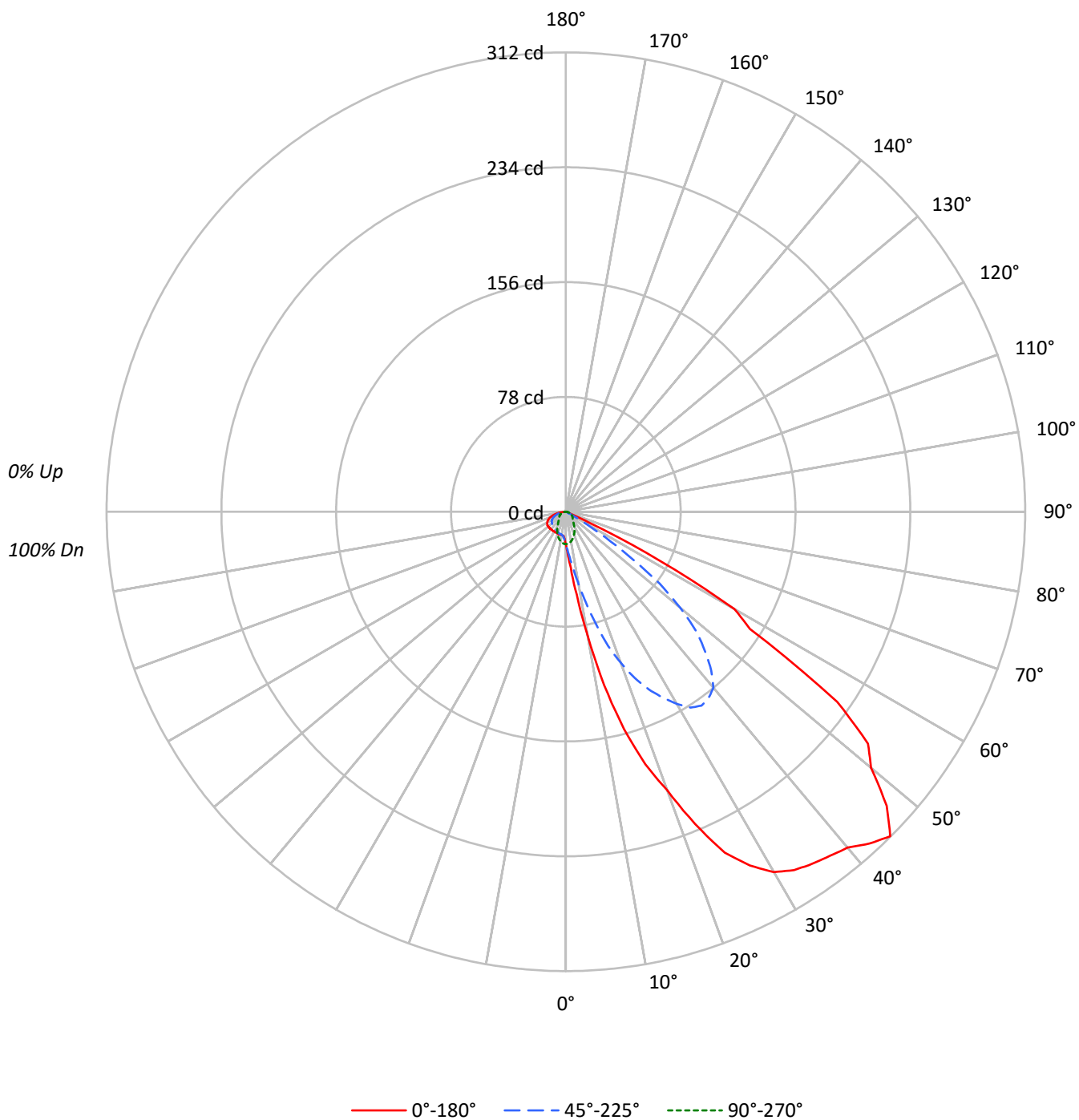
Lumens per Lamp: N/A
Luminaire Lumens: 226.0 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	94	91		92	90	89	87
2	101	93	87	82	98	92	86	81	88	83	79		85	81	77		82	79	76	74
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73	68	65	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	57	49	42	69	57	48	42	55	47	42		53	46	41		51	46	41	39
7	65	52	43	37	63	51	42	36	49	42	36		48	41	36		46	40	36	34
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	42	34	28	54	41	33	28	40	33	28		39	33	28		38	32	28	26
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3789	3789	3789	3789	3789
5°	6621	5411	3717	3008	2904
10°	14987	8726	3568	2781	2816
15°	27226	14014	3316	2781	2871
20°	36912	20014	2987	2786	2914
25°	48533	25274	2622	2717	2964
30°	56199	29969	2247	2705	3102
35°	61371	33786	1913	2754	3280
40°	66952	35050	1686	2900	3507
45°	75893	32515	1607	3093	3800
50°	72502	27141	1581	3269	4180
55°	67559	15253	1621	3543	4624
60°	45501	3272	1653	3754	4994
65°	7009	815	1589	3871	5461
70°	806	806	1460	3978	5841
75°	732	732	1331	3926	5856
80°	694	893	1389	3570	5852
85°	395	988	1383	3557	5335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 75893 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	1.2
10°-20°	14.4	6.4
20°-30°	33.8	14.9
30°-40°	51.0	22.6
40°-50°	58.6	25.9
50°-60°	46.5	20.6
60°-70°	13.9	6.2
70°-80°	3.8	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°	50.8	22.5
0°-40°	101.8	45.0
0°-60°	207.0	91.6
0°-90°	226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	226.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	38	31	22	17	17	5
15°	153	79	19	16	16	44
25°	255	133	14	14	16	117
35°	292	161	9	13	16	183
45°	312	134	7	13	16	231
55°	225	51	5	12	15	185
65°	17	2	4	10	13	39
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°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
2.5°	27.9	28.1	27.9	27.9	27.6	27.4	25.8	24.0	22.0	20.4	19.3
5°	38.3	38.5	37.8	37.8	37.4	36.7	31.3	26.1	21.5	19.0	17.4
7.5°	56.7	57.6	56.4	55.1	52.6	52.1	39.0	28.1	21.1	17.7	16.3
10°	85.7	85.0	83.8	81.1	76.8	74.8	49.9	30.1	20.4	16.8	15.9
12.5°	120.8	119.0	117.6	112.6	106.7	103.3	63.4	32.0	19.5	15.9	15.6
15°	152.7	151.4	148.2	143.4	136.2	133.5	78.6	33.1	18.6	15.2	15.6
17.5°	179.7	178.3	176.5	171.8	164.3	160.2	95.6	33.8	17.4	14.7	15.4
20°	201.4	200.5	198.1	194.2	186.7	182.9	109.2	33.8	16.3	14.3	15.2
22.5°	229.5	227.5	224.3	218.7	209.4	203.5	122.1	33.1	15.2	13.8	14.7
25°	255.4	254.0	249.9	243.1	233.2	227.3	133.0	31.7	13.8	13.1	14.3
27.5°	270.8	269.9	266.0	259.0	247.9	243.4	142.1	29.7	12.5	12.5	14.0
30°	282.6	280.8	276.9	270.1	258.8	253.3	150.7	27.2	11.3	11.8	13.6
32.5°	288.5	287.8	284.4	278.5	267.4	261.3	157.7	24.0	10.0	11.3	13.4
35°	291.9	291.2	288.5	282.8	272.4	266.5	160.7	21.1	9.1	10.9	13.1
37.5°	294.6	293.9	290.5	284.8	274.4	268.3	159.3	17.9	8.2	10.4	12.9
40°	297.8	295.3	290.1	284.4	274.9	269.0	155.9	15.0	7.5	10.2	12.9
42.5°	305.5	296.8	288.7	283.5	274.4	267.6	146.2	11.8	6.8	9.7	12.7
45°	311.6	296.4	286.0	281.9	272.6	264.9	133.5	8.6	6.6	9.5	12.7
47.5°	295.5	286.2	281.4	279.2	269.2	260.8	120.3	5.9	6.3	9.3	12.5
50°	270.6	269.4	267.6	267.8	258.8	252.0	101.3	4.1	5.9	9.1	12.2
52.5°	258.6	257.2	254.0	251.8	242.7	236.8	80.2	3.2	5.7	8.8	12.0
55°	225.0	225.9	222.5	223.9	221.2	218.2	50.8	2.9	5.4	8.4	11.8
57.5°	148.2	152.7	160.7	170.2	178.8	184.7	27.4	2.9	5.0	8.2	11.3
60°	132.1	131.0	130.7	132.6	136.4	139.6	9.5	2.7	4.8	7.5	10.9
62.5°	72.3	71.8	78.6	90.2	97.0	97.7	2.7	2.7	4.3	7.0	10.2
65°	17.2	17.9	19.9	24.9	29.5	32.4	2.0	2.5	3.9	6.6	9.5
67.5°	2.7	2.9	2.9	3.6	4.1	4.1	1.8	2.3	3.4	5.9	8.8
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.9	5.2	7.9
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.8	2.5	4.5	6.8
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	2.0	3.6	5.9
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.4	1.8	2.9	4.8
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.1	1.4	2.3	3.6
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.9	1.1	1.8	2.7
85°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.7	0.7	1.1	1.8
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°	22.0	22.0
2.5°	18.6	18.4
5°	16.8	16.8
7.5°	16.1	16.1
10°	15.9	16.1
12.5°	15.9	16.1
15°	15.9	16.1
17.5°	15.9	16.1
20°	15.6	15.9
22.5°	15.4	15.6
25°	15.2	15.6
27.5°	15.0	15.6
30°	15.0	15.6
32.5°	15.0	15.6
35°	14.7	15.6
37.5°	14.7	15.6
40°	14.7	15.6
42.5°	14.7	15.6
45°	14.7	15.6
47.5°	14.7	15.6
50°	14.7	15.6
52.5°	14.5	15.6
55°	14.5	15.4
57.5°	14.0	15.0
60°	13.6	14.5
62.5°	13.1	14.0
65°	12.5	13.4
67.5°	11.8	12.5
70°	10.7	11.6
72.5°	9.5	10.2
75°	8.2	8.8
77.5°	6.8	7.5
80°	5.4	5.9
82.5°	3.9	4.3
85°	2.5	2.7
87.5°	1.1	1.1
90°	0.0	0.0

(END OF REPORT)