

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: P1305501

Luminaire Tested: P3SQAS02R659024DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305501
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: P3SQAS02R659024DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 2400K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

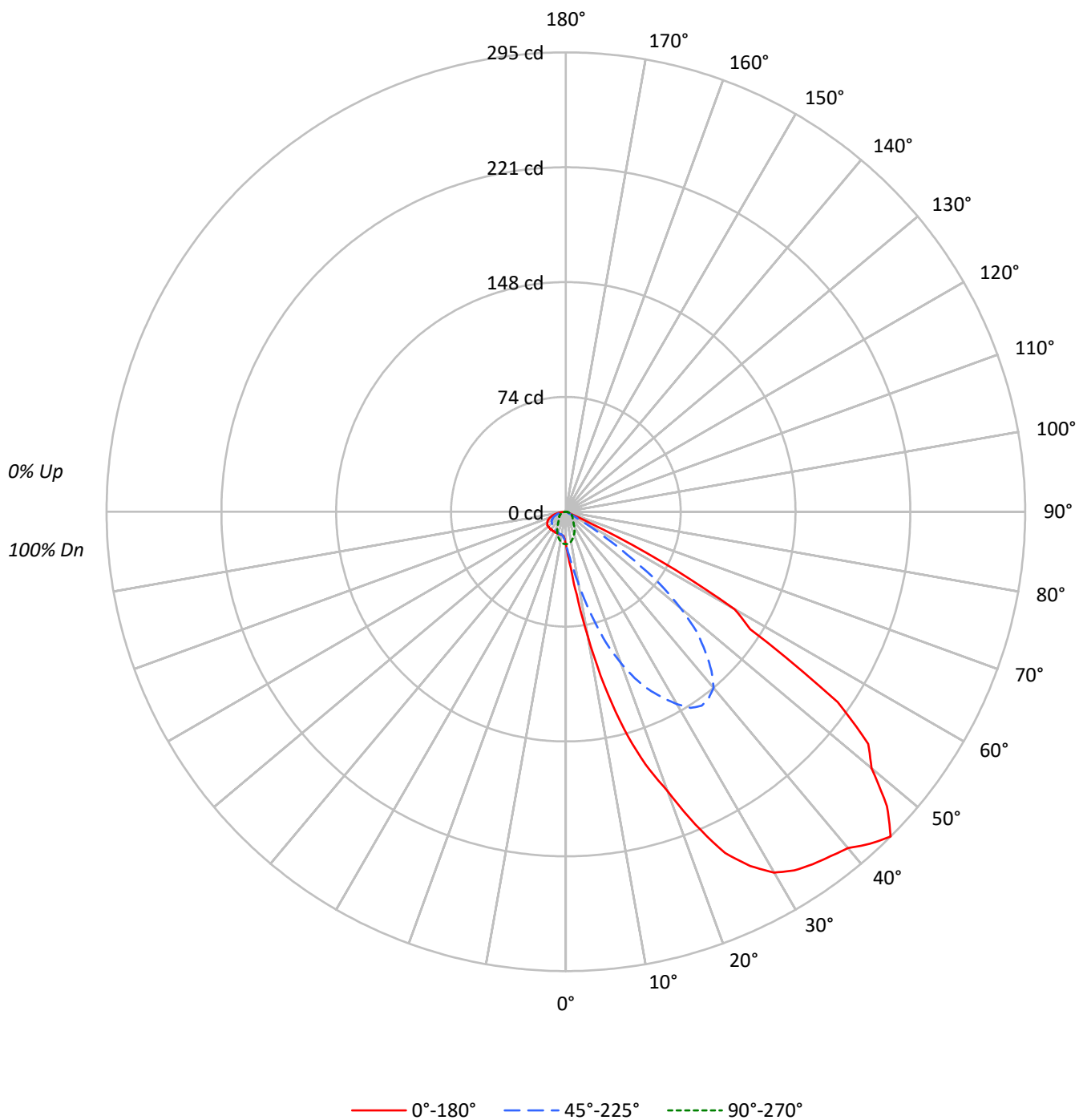
Lumens per Lamp: N/A
Luminaire Lumens: 214.0 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	3582	3582	3582	3582	3582
5°	6276	5117	3527	2853	2749
10°	14183	8254	3375	2623	2658
15°	25782	13283	3138	2639	2710
20°	34969	18951	2822	2639	2749
25°	45948	23943	2489	2565	2812
30°	53216	28378	2128	2565	2943
35°	58112	31978	1808	2607	3112
40°	63377	33184	1596	2743	3327
45°	71850	30786	1510	2923	3605
50°	68644	25695	1500	3108	3965
55°	63986	14443	1531	3363	4384
60°	43090	3100	1550	3548	4719
65°	6642	774	1467	3668	5175
70°	755	755	1410	3777	5489
75°	732	732	1264	3726	5590
80°	595	893	1289	3372	5554
85°	395	790	1186	3359	5138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 71850 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	1.2
10°-20°	13.6	6.4
20°-30°	32.0	14.9
30°-40°	48.3	22.6
40°-50°	55.5	25.9
50°-60°	44.1	20.6
60°-70°	13.2	6.2
70°-80°	3.6	1.7
80°-90°	1.2	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°	48.1	22.5
0°-40°	96.4	45.0
0°-60°	196.0	91.6
0°-90°	214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	214.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	36	30	20	16	16	5
15°	145	74	18	15	15	42
25°	242	126	13	14	15	110
35°	276	152	9	12	15	173
45°	295	126	6	12	15	219
55°	213	48	5	11	15	176
65°	16	2	4	9	13	37
75°	1	1	2	6	8	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°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
2.5°	26.4	26.6	26.4	26.4	26.2	26.0	24.5	22.7	20.8	19.3	18.2
5°	36.3	36.5	35.8	35.8	35.4	34.8	29.6	24.7	20.4	18.0	16.5
7.5°	53.6	54.5	53.4	52.1	49.8	49.4	36.9	26.6	20.0	16.7	15.4
10°	81.1	80.5	79.4	76.8	72.7	70.8	47.2	28.5	19.3	15.9	15.0
12.5°	114.4	112.6	111.4	106.6	101.1	97.8	60.1	30.3	18.5	15.0	14.8
15°	144.6	143.3	140.3	135.8	129.0	126.4	74.5	31.3	17.6	14.4	14.8
17.5°	170.2	168.9	167.2	162.6	155.6	151.7	90.5	32.0	16.5	13.9	14.6
20°	190.8	189.9	187.5	183.9	176.8	173.2	103.4	32.0	15.4	13.5	14.4
22.5°	217.4	215.4	212.4	207.1	198.3	192.7	115.7	31.3	14.4	13.1	13.9
25°	241.8	240.5	236.7	230.2	220.8	215.2	126.0	30.0	13.1	12.4	13.5
27.5°	256.4	255.6	251.9	245.3	234.7	230.4	134.5	28.1	11.8	11.8	13.3
30°	267.6	265.9	262.2	255.8	245.0	239.9	142.7	25.7	10.7	11.2	12.9
32.5°	273.1	272.5	269.3	263.7	253.2	247.4	149.3	22.7	9.4	10.7	12.7
35°	276.4	275.7	273.1	267.8	257.9	252.3	152.1	20.0	8.6	10.3	12.4
37.5°	278.9	278.3	275.1	269.7	259.8	254.1	150.8	17.0	7.7	9.9	12.2
40°	281.9	279.6	274.7	269.3	260.3	254.7	147.6	14.2	7.1	9.7	12.2
42.5°	289.2	281.1	273.4	268.4	259.8	253.4	138.4	11.2	6.4	9.2	12.0
45°	295.0	280.7	270.8	266.9	258.1	250.8	126.4	8.2	6.2	9.0	12.0
47.5°	279.8	271.0	266.5	264.4	254.9	247.0	113.9	5.6	6.0	8.8	11.8
50°	256.2	255.1	253.4	253.6	245.0	238.6	95.9	3.9	5.6	8.6	11.6
52.5°	244.8	243.5	240.5	238.4	229.8	224.2	76.0	3.0	5.4	8.4	11.4
55°	213.1	213.9	210.7	212.0	209.4	206.6	48.1	2.8	5.1	7.9	11.2
57.5°	140.3	144.6	152.1	161.1	169.3	174.9	26.0	2.8	4.7	7.7	10.7
60°	125.1	124.0	123.8	125.5	129.2	132.2	9.0	2.6	4.5	7.1	10.3
62.5°	68.4	68.0	74.5	85.4	91.8	92.5	2.6	2.6	4.1	6.7	9.7
65°	16.3	17.0	18.9	23.6	27.9	30.7	1.9	2.4	3.6	6.2	9.0
67.5°	2.6	2.8	2.8	3.4	3.9	3.9	1.7	2.1	3.2	5.6	8.4
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	2.8	4.9	7.5
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.7	2.4	4.3	6.4
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.9	3.4	5.6
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.3	1.7	2.8	4.5
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.9	1.1	1.3	2.1	3.4
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.9	1.1	1.7	2.6
85°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.6	0.6	1.1	1.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.6	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°	20.8	20.8
2.5°	17.6	17.4
5°	15.9	15.9
7.5°	15.2	15.2
10°	15.0	15.2
12.5°	15.0	15.2
15°	15.0	15.2
17.5°	15.0	15.2
20°	14.8	15.0
22.5°	14.6	14.8
25°	14.4	14.8
27.5°	14.2	14.8
30°	14.2	14.8
32.5°	14.2	14.8
35°	13.9	14.8
37.5°	13.9	14.8
40°	13.9	14.8
42.5°	13.9	14.8
45°	13.9	14.8
47.5°	13.9	14.8
50°	13.9	14.8
52.5°	13.7	14.8
55°	13.7	14.6
57.5°	13.3	14.2
60°	12.9	13.7
62.5°	12.4	13.3
65°	11.8	12.7
67.5°	11.2	11.8
70°	10.1	10.9
72.5°	9.0	9.7
75°	7.7	8.4
77.5°	6.4	7.1
80°	5.1	5.6
82.5°	3.6	4.1
85°	2.4	2.6
87.5°	1.1	1.1
90°	0.0	0.0

(END OF REPORT)