

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: P1310892

Luminaire Tested: P3SQAS02R459050DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R459050DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

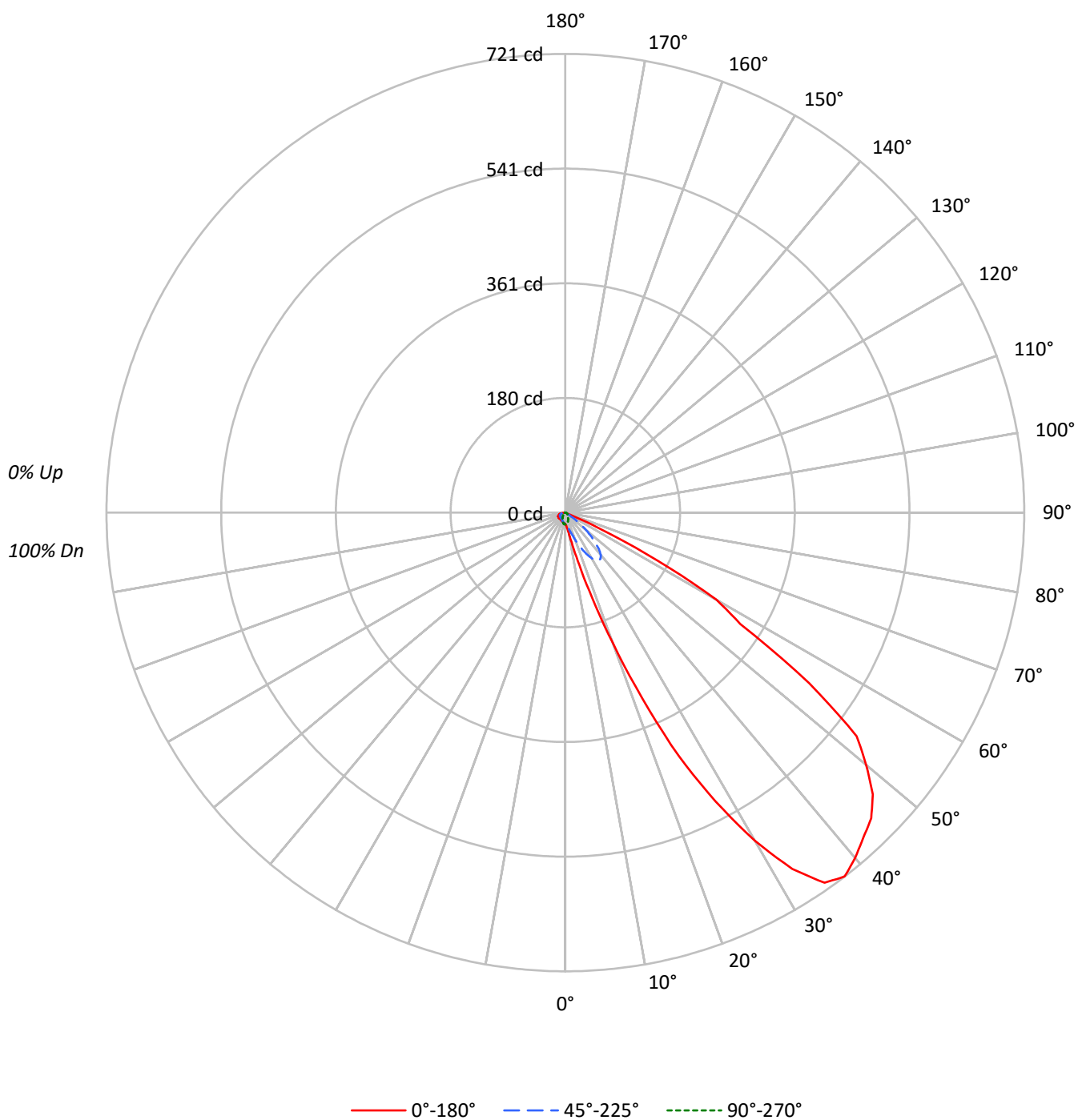
Lumens per Lamp: N/A
Luminaire Lumens: 322.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	107	104	100	97	99	97	94		96	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	58	53	51
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	58	44	35	29	56	43	35	29	42	34	29		40	33	28		39	33	28	26
9	53	39	31	25	52	39	30	25	38	30	25		36	29	25		35	29	24	22
10	49	36	27	22	48	35	27	22	34	27	21		33	26	21		32	26	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3203	3203	3203	3203	3203
5°	3821	3544	3181	2939	2939
10°	6103	4145	2973	2798	2798
15°	15173	5545	2710	2603	2710
20°	39991	8284	2346	2493	2639
25°	80286	12295	2014	2318	2584
30°	118365	16446	1631	2267	2645
35°	149295	19300	1409	2229	2733
40°	159285	19492	1259	2338	2923
45°	165499	16270	1169	2533	3166
50°	165233	11333	1152	2706	3563
55°	140432	5044	1201	3033	3903
60°	94378	999	1206	3376	4478
65°	25062	448	1182	3668	5094
70°	655	554	1209	4028	5740
75°	532	532	1264	4259	6521
80°	496	793	1289	4463	7339
85°	593	988	2174	4742	7311

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 169778 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.6
10°-20°	9.1	2.8
20°-30°	37.5	11.6
30°-40°	78.9	24.5
40°-50°	97.4	30.2
50°-60°	73.0	22.7
60°-70°	18.8	5.8
70°-80°	3.9	1.2
80°-90°	1.6	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°	48.4	15.0
0°-40°	127.3	39.5
0°-60°	297.7	92.5
0°-90°	322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	322.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	22	20	18	17	17	2
15°	85	31	15	15	15	31
25°	422	65	11	12	14	197
35°	710	92	7	11	13	433
45°	680	67	5	10	13	520
55°	468	17	4	10	13	404
65°	62	1	3	9	12	89
75°	1	1	2	6	10	1
85°	0	0	1	2	4	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
2.5°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.4	19.2	18.6	18.1
5°	22.1	21.8	21.8	21.8	21.6	21.3	21.3	20.5	19.4	18.4	17.6
7.5°	26.1	26.1	25.8	25.3	25.0	24.5	23.9	21.8	19.4	17.8	16.8
10°	34.9	34.3	33.5	33.0	31.7	29.8	28.5	23.7	19.2	17.0	16.2
12.5°	52.1	53.2	50.6	47.9	44.2	40.7	36.5	26.9	19.2	16.2	15.4
15°	85.1	87.0	81.9	76.6	67.6	59.1	51.1	31.1	18.6	15.2	14.4
17.5°	139.1	141.5	133.0	120.5	106.4	89.4	74.8	37.0	18.1	14.1	13.6
20°	218.2	217.9	201.4	185.7	158.6	133.6	106.2	45.2	17.3	12.8	12.8
22.5°	315.3	316.3	296.1	267.9	229.3	189.2	145.5	54.8	16.2	11.7	12.0
25°	422.5	413.5	389.5	355.2	306.0	250.4	192.9	64.7	15.2	10.6	11.2
27.5°	511.9	503.1	475.7	435.0	382.1	316.1	241.1	74.5	13.8	9.6	10.4
30°	595.2	584.0	551.0	505.0	441.9	370.6	286.3	82.7	12.2	8.2	9.6
32.5°	663.8	653.7	616.2	562.7	494.1	417.4	324.6	89.1	10.6	7.4	9.0
35°	710.1	699.7	665.2	606.4	531.6	451.5	355.7	91.8	9.3	6.7	8.8
37.5°	720.8	715.2	690.4	635.4	557.4	473.3	375.7	91.0	7.7	6.1	8.2
40°	708.5	709.9	698.1	652.4	571.2	482.6	383.9	86.7	6.4	5.6	8.0
42.5°	692.8	696.3	695.5	659.3	577.1	483.2	380.5	78.2	5.1	5.1	7.7
45°	679.5	683.0	687.8	656.4	573.1	476.2	369.6	66.8	3.7	4.8	7.7
47.5°	655.3	659.0	666.0	633.0	552.9	458.4	349.9	54.3	2.7	4.5	7.4
50°	616.7	618.6	616.7	579.7	514.0	429.7	317.9	42.3	1.9	4.3	7.4
52.5°	577.1	573.4	557.9	511.1	452.3	384.2	277.8	30.1	1.3	4.0	7.2
55°	467.7	461.9	450.4	421.7	388.2	328.3	224.6	16.8	1.3	4.0	6.9
57.5°	325.9	329.1	333.1	327.3	311.8	258.6	170.5	7.4	1.3	3.7	6.9
60°	274.0	271.4	271.6	267.9	242.4	188.6	117.3	2.9	1.3	3.5	6.7
62.5°	163.6	165.5	168.9	169.7	144.5	105.4	61.5	1.3	1.3	3.2	6.4
65°	61.5	64.4	56.4	49.0	38.8	28.5	14.4	1.1	1.6	2.9	5.9
67.5°	1.9	2.1	2.7	2.4	2.4	2.1	1.6	1.1	1.6	2.7	5.6
70°	1.3	1.3	1.3	1.3	1.3	1.1	1.1	1.1	1.3	2.4	5.1
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	2.1	4.5
75°	0.8	1.1	0.8	0.8	0.8	0.8	0.8	0.8	1.3	1.9	3.7
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.6	3.2
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	1.1	1.3	2.7
82.5°	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.5	1.1	1.1	2.1
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8	1.1	1.3
87.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.5	0.8	0.8	0.8
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):

	135°	157.5°	180°
0°	18.6	18.6	18.6
2.5°	17.6	17.6	17.6
5°	17.0	17.0	17.0
7.5°	16.5	16.5	16.5
10°	16.0	16.0	16.0
12.5°	15.4	15.4	15.7
15°	14.6	15.2	15.2
17.5°	14.1	14.6	14.9
20°	13.6	14.1	14.4
22.5°	12.8	13.6	14.1
25°	12.2	13.3	13.6
27.5°	11.7	13.0	13.6
30°	11.4	12.8	13.3
32.5°	10.9	12.5	13.0
35°	10.6	12.5	13.0
37.5°	10.6	12.2	13.0
40°	10.4	12.2	13.0
42.5°	10.4	12.2	13.0
45°	10.4	12.2	13.0
47.5°	10.1	12.2	13.3
50°	10.1	12.5	13.3
52.5°	10.1	12.5	13.3
55°	10.1	12.5	13.0
57.5°	9.8	12.2	13.0
60°	9.8	12.2	13.0
62.5°	9.3	12.0	12.8
65°	9.0	11.7	12.5
67.5°	8.5	11.4	12.0
70°	8.0	10.6	11.4
72.5°	7.2	10.1	10.9
75°	6.4	9.3	9.8
77.5°	5.6	8.2	8.8
80°	4.5	6.9	7.4
82.5°	3.5	5.3	5.6
85°	2.4	3.5	3.7
87.5°	1.1	1.6	1.9
90°	0.0	0.0	0.0

(END OF REPORT)