

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: P1312978

Luminaire Tested: P3SQAS02R559730DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R559730DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

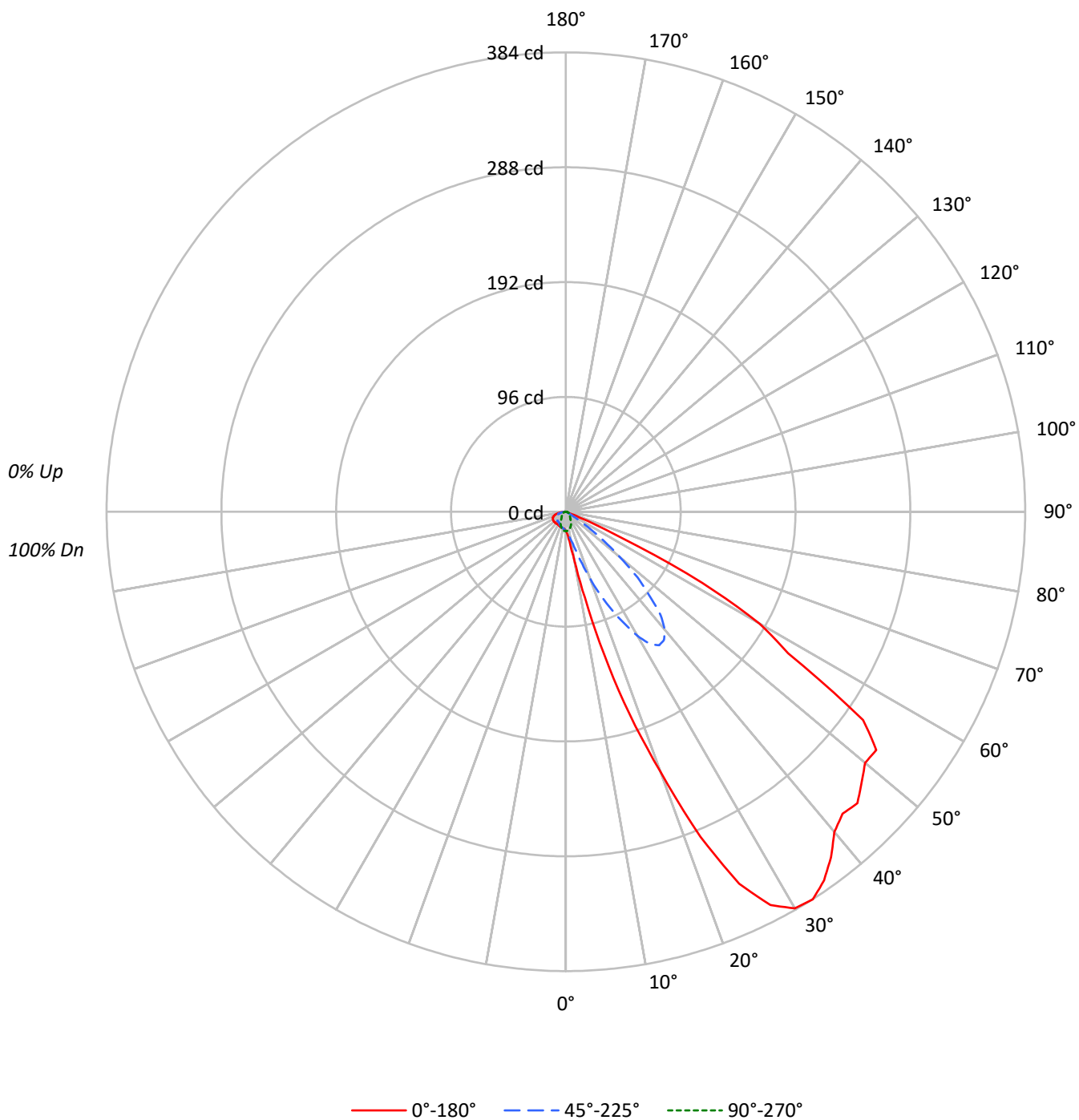
Lumens per Lamp: N/A
Luminaire Lumens: 247.0 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1312978

CATALOG NUMBER: P3SQAS02R559730DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1312978

CATALOG NUMBER: P3SQAS02R559730DE010 E3SQCA451MW

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		95	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	67	77	71	65		74	69	64		72	67	63	61
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	51
5	76	63	54	47	74	62	53	47	60	52	47		58	51	46		56	50	46	43
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		50	44	39	37
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	38	34	32
8	59	45	36	30	57	44	36	30	43	35	30		41	35	29		40	34	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		36	30	26	24
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2738	2738	2738	2738	2738
5°	3509	3216	2749	2559	2489
10°	7135	4092	2676	2448	2448
15°	21913	6258	2496	2371	2443
20°	42355	10960	2236	2328	2438
25°	65198	17045	1957	2242	2451
30°	76126	23824	1611	2207	2526
35°	79094	28635	1325	2208	2607
40°	78507	28889	1237	2316	2855
45°	83931	23918	1169	2509	3093
50°	87479	15781	1179	2679	3456
55°	91099	6876	1171	2943	3813
60°	64342	1584	1206	3238	4271
65°	20987	530	1141	3464	4809
70°	655	554	1209	3726	5489
75°	599	599	998	3926	6122
80°	397	694	1091	3868	6447
85°	395	790	1383	3952	6521

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 92539 cd/sqm

TEST NUMBER: P1312978

CATALOG NUMBER: P3SQAS02R559730DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.7
10°-20°	10.5	4.2
20°-30°	35.2	14.2
30°-40°	57.7	23.4
40°-50°	64.4	26.1
50°-60°	54.2	21.9
60°-70°	18.4	7.4
70°-80°	3.6	1.5
80°-90°	1.4	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°	47.3	19.2
0°-40°	105.1	42.5
0°-60°	223.7	90.6
0°-90°	247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	247.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	20	19	16	15	14	3
15°	123	35	14	13	14	39
25°	343	90	10	12	13	154
35°	376	136	6	10	12	234
45°	345	98	5	10	13	263
55°	303	23	4	10	13	247
65°	52	1	3	8	12	70
75°	1	1	2	6	9	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1312978

CATALOG NUMBER: P3SQAS02R559730DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
2.5°	17.5	17.5	17.5	17.5	17.5	17.5	17.2	16.6	16.1	15.5	15.3
5°	20.3	20.3	20.3	20.1	20.1	19.6	18.6	17.0	15.9	15.1	14.8
7.5°	26.2	26.0	25.5	25.3	24.7	24.4	20.5	17.5	15.7	14.6	14.4
10°	40.8	40.4	39.7	37.3	35.1	33.6	23.4	17.7	15.3	14.2	14.0
12.5°	73.5	72.7	69.4	64.4	58.3	55.2	27.9	17.9	14.6	13.7	13.7
15°	122.9	121.8	115.7	108.7	97.6	91.4	35.1	17.7	14.0	13.1	13.3
17.5°	177.4	174.4	168.0	158.9	143.8	136.6	45.8	17.2	13.1	12.7	13.1
20°	231.1	230.2	219.8	207.3	188.8	179.2	59.8	16.6	12.2	12.0	12.7
22.5°	294.0	290.3	279.1	265.8	240.3	227.6	74.9	15.7	11.3	11.3	12.2
25°	343.1	338.7	330.0	314.5	290.3	276.7	89.7	14.6	10.3	10.7	11.8
27.5°	370.6	365.6	359.0	345.7	326.9	314.9	104.5	13.3	9.2	10.0	11.3
30°	382.8	381.5	376.7	366.9	349.6	338.9	119.8	11.8	8.1	9.4	11.1
32.5°	384.1	384.8	382.8	376.5	363.4	354.2	131.2	10.5	7.2	8.9	10.7
35°	376.2	378.6	380.0	377.3	368.8	361.4	136.2	8.9	6.3	8.5	10.5
37.5°	364.0	368.4	372.8	373.4	368.2	363.4	134.9	7.6	5.9	8.3	10.5
40°	349.2	353.1	362.1	367.7	366.0	362.5	128.5	6.3	5.5	7.9	10.3
42.5°	342.4	343.3	352.9	362.5	362.1	359.2	117.4	5.0	5.0	7.9	10.3
45°	344.6	340.7	347.0	358.1	357.5	353.8	98.2	3.9	4.8	7.6	10.3
47.5°	335.4	330.0	340.7	353.8	351.4	345.9	81.2	2.8	4.6	7.4	10.0
50°	326.5	325.6	333.9	340.5	337.2	334.1	58.9	2.2	4.4	7.2	10.0
52.5°	327.1	325.6	326.5	326.3	319.7	316.4	40.4	1.7	4.1	7.0	10.0
55°	303.4	298.6	294.0	295.3	295.7	293.5	22.9	1.5	3.9	7.0	9.8
57.5°	220.4	219.1	224.1	238.3	249.4	250.8	11.1	1.5	3.7	6.8	9.6
60°	186.8	185.9	186.2	190.3	196.2	192.5	4.6	1.5	3.5	6.5	9.4
62.5°	128.8	137.3	140.8	150.4	146.4	141.2	1.7	1.7	3.3	6.1	9.2
65°	51.5	51.3	56.1	60.7	59.4	55.4	1.3	1.5	2.8	5.7	8.5
67.5°	12.0	10.9	9.4	8.1	6.8	5.5	1.3	1.5	2.6	5.2	8.1
70°	1.3	1.3	1.3	1.3	1.3	1.1	1.1	1.5	2.4	4.8	7.4
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	2.0	4.1	6.8
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.5	3.5	5.9
77.5°	0.7	0.7	0.7	0.9	0.7	0.9	0.9	1.1	1.3	2.8	5.0
80°	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.9	1.1	2.4	3.9
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.9	1.7	2.8
85°	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.7	0.7	1.3	2.0
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.7	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

TEST NUMBER: P1312978

CATALOG NUMBER: P3SQAS02R559730DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	15.9	15.9
2.5°	15.1	15.1
5°	14.6	14.4
7.5°	14.2	14.2
10°	14.0	14.0
12.5°	13.7	14.0
15°	13.7	13.7
17.5°	13.3	13.5
20°	13.1	13.3
22.5°	12.9	13.1
25°	12.7	12.9
27.5°	12.4	12.7
30°	12.2	12.7
32.5°	12.0	12.4
35°	12.0	12.4
37.5°	12.0	12.7
40°	12.0	12.7
42.5°	12.0	12.7
45°	12.0	12.7
47.5°	12.0	12.7
50°	12.0	12.9
52.5°	12.0	12.9
55°	12.0	12.7
57.5°	11.8	12.7
60°	11.8	12.4
62.5°	11.6	12.2
65°	11.1	11.8
67.5°	10.7	11.6
70°	10.0	10.9
72.5°	9.4	10.0
75°	8.5	9.2
77.5°	7.4	7.9
80°	5.9	6.5
82.5°	4.6	5.0
85°	3.1	3.3
87.5°	1.3	1.5
90°	0.0	0.0

(END OF REPORT)