

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: P1312005

Luminaire Tested: P3SQAS02R559727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312005
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: P3SQAS02R559727DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

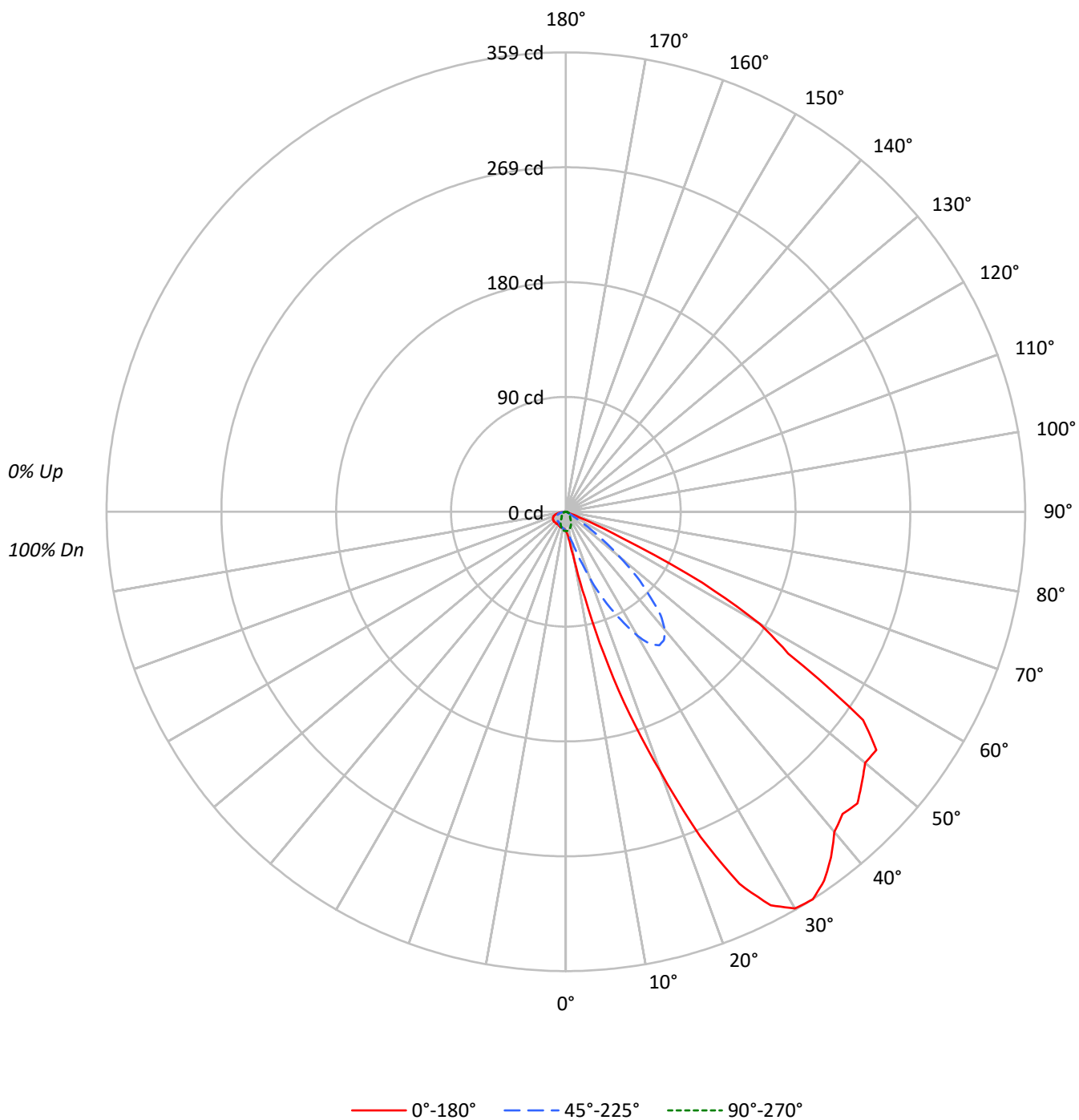
Lumens per Lamp: N/A
Luminaire Lumens: 231.0 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1312005

CATALOG NUMBER: P3SQAS02R559727DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1312005

CATALOG NUMBER: P3SQAS02R559727DE010 E3SQCA451MMS

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	50	30	10
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°	2566	2566	2566	2566	2566
5°	3285	2991	2576	2403	2334
10°	6680	3812	2501	2291	2291
15°	20486	5866	2336	2229	2300
20°	39606	10245	2089	2163	2291
25°	60961	15943	1824	2090	2280
30°	71194	22293	1511	2068	2347
35°	73985	26785	1240	2060	2439
40°	73426	27023	1147	2158	2653
45°	78499	22359	1096	2338	2874
50°	81799	14763	1099	2519	3215
55°	85184	6426	1111	2762	3543
60°	60175	1481	1137	3031	3996
65°	19642	489	1100	3260	4483
70°	604	504	1108	3474	5136
75°	532	532	932	3660	5723
80°	397	595	992	3670	6050
85°	395	790	1186	3557	6126

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 86541 cd/sqm

TEST NUMBER: P1312005

CATALOG NUMBER: P3SQAS02R559727DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.7
10°-20°	9.8	4.2
20°-30°	32.9	14.2
30°-40°	54.0	23.4
40°-50°	60.2	26.1
50°-60°	50.7	21.9
60°-70°	17.2	7.4
70°-80°	3.4	1.5
80°-90°	1.3	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°	44.3	19.2
0°-40°	98.3	42.5
0°-60°	209.2	90.6
0°-90°	231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	231.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	19	17	15	14	14	2
15°	115	33	13	12	13	36
25°	321	84	10	11	12	144
35°	352	127	6	10	12	218
45°	322	92	4	10	12	246
55°	284	21	4	9	12	231
65°	48	1	3	8	11	65
75°	1	1	1	6	9	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1312005

CATALOG NUMBER: P3SQAS02R559727DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
2.5°	16.3	16.3	16.3	16.3	16.3	16.3	16.1	15.5	15.1	14.5	14.3
5°	19.0	19.0	19.0	18.8	18.8	18.4	17.3	15.9	14.9	14.1	13.9
7.5°	24.5	24.3	23.9	23.7	23.1	22.9	19.2	16.3	14.7	13.7	13.5
10°	38.2	37.8	37.1	34.9	32.9	31.4	21.8	16.5	14.3	13.3	13.1
12.5°	68.8	68.0	64.9	60.2	54.5	51.6	26.1	16.7	13.7	12.9	12.9
15°	114.9	113.9	108.2	101.6	91.2	85.5	32.9	16.5	13.1	12.2	12.5
17.5°	165.9	163.1	157.2	148.6	134.5	127.8	42.9	16.1	12.2	11.8	12.2
20°	216.1	215.3	205.5	193.9	176.5	167.6	55.9	15.5	11.4	11.2	11.8
22.5°	274.9	271.5	261.0	248.6	224.7	212.9	70.0	14.7	10.6	10.6	11.4
25°	320.8	316.8	308.6	294.1	271.5	258.8	83.9	13.7	9.6	10.0	11.0
27.5°	346.6	341.9	335.7	323.3	305.7	294.5	97.8	12.5	8.6	9.4	10.6
30°	358.0	356.8	352.3	343.1	327.0	317.0	112.1	11.0	7.6	8.8	10.4
32.5°	359.2	359.8	358.0	352.1	339.8	331.3	122.7	9.8	6.7	8.4	10.0
35°	351.9	354.1	355.3	352.9	344.9	338.0	127.4	8.4	5.9	8.0	9.8
37.5°	340.4	344.5	348.6	349.2	344.3	339.8	126.1	7.1	5.5	7.8	9.8
40°	326.6	330.2	338.6	343.9	342.3	339.0	120.2	5.9	5.1	7.3	9.6
42.5°	320.2	321.1	330.0	339.0	338.6	336.0	109.8	4.7	4.7	7.3	9.6
45°	322.3	318.6	324.5	334.9	334.3	330.8	91.8	3.7	4.5	7.1	9.6
47.5°	313.7	308.6	318.6	330.8	328.6	323.5	75.9	2.7	4.3	6.9	9.4
50°	305.3	304.5	312.3	318.4	315.3	312.5	55.1	2.0	4.1	6.7	9.4
52.5°	305.9	304.5	305.3	305.1	299.0	295.9	37.8	1.6	3.9	6.5	9.4
55°	283.7	279.2	274.9	276.2	276.6	274.5	21.4	1.4	3.7	6.5	9.2
57.5°	206.1	204.9	209.6	222.9	233.3	234.5	10.4	1.4	3.5	6.3	9.0
60°	174.7	173.9	174.1	178.0	183.5	180.0	4.3	1.4	3.3	6.1	8.8
62.5°	120.4	128.4	131.6	140.6	137.0	132.1	1.6	1.6	3.1	5.7	8.6
65°	48.2	48.0	52.5	56.7	55.5	51.8	1.2	1.4	2.7	5.3	8.0
67.5°	11.2	10.2	8.8	7.6	6.3	5.1	1.2	1.4	2.4	4.9	7.6
70°	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.4	2.2	4.5	6.9
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.8	3.9	6.3
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.4	3.3	5.5
77.5°	0.6	0.6	0.6	0.8	0.6	0.8	0.8	1.0	1.2	2.7	4.7
80°	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.8	1.0	2.2	3.7
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.8	1.6	2.7
85°	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.6	0.6	1.2	1.8
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.6	0.6	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

TEST NUMBER: P1312005

CATALOG NUMBER: P3SQAS02R559727DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	14.9	14.9
2.5°	14.1	14.1
5°	13.7	13.5
7.5°	13.3	13.3
10°	13.1	13.1
12.5°	12.9	13.1
15°	12.9	12.9
17.5°	12.5	12.7
20°	12.2	12.5
22.5°	12.0	12.2
25°	11.8	12.0
27.5°	11.6	11.8
30°	11.4	11.8
32.5°	11.2	11.6
35°	11.2	11.6
37.5°	11.2	11.8
40°	11.2	11.8
42.5°	11.2	11.8
45°	11.2	11.8
47.5°	11.2	11.8
50°	11.2	12.0
52.5°	11.2	12.0
55°	11.2	11.8
57.5°	11.0	11.8
60°	11.0	11.6
62.5°	10.8	11.4
65°	10.4	11.0
67.5°	10.0	10.8
70°	9.4	10.2
72.5°	8.8	9.4
75°	8.0	8.6
77.5°	6.9	7.3
80°	5.5	6.1
82.5°	4.3	4.7
85°	2.9	3.1
87.5°	1.2	1.4
90°	0.0	0.0

(END OF REPORT)