

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: P1315883

Luminaire Tested: P3SQAS02R709827DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R709827DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

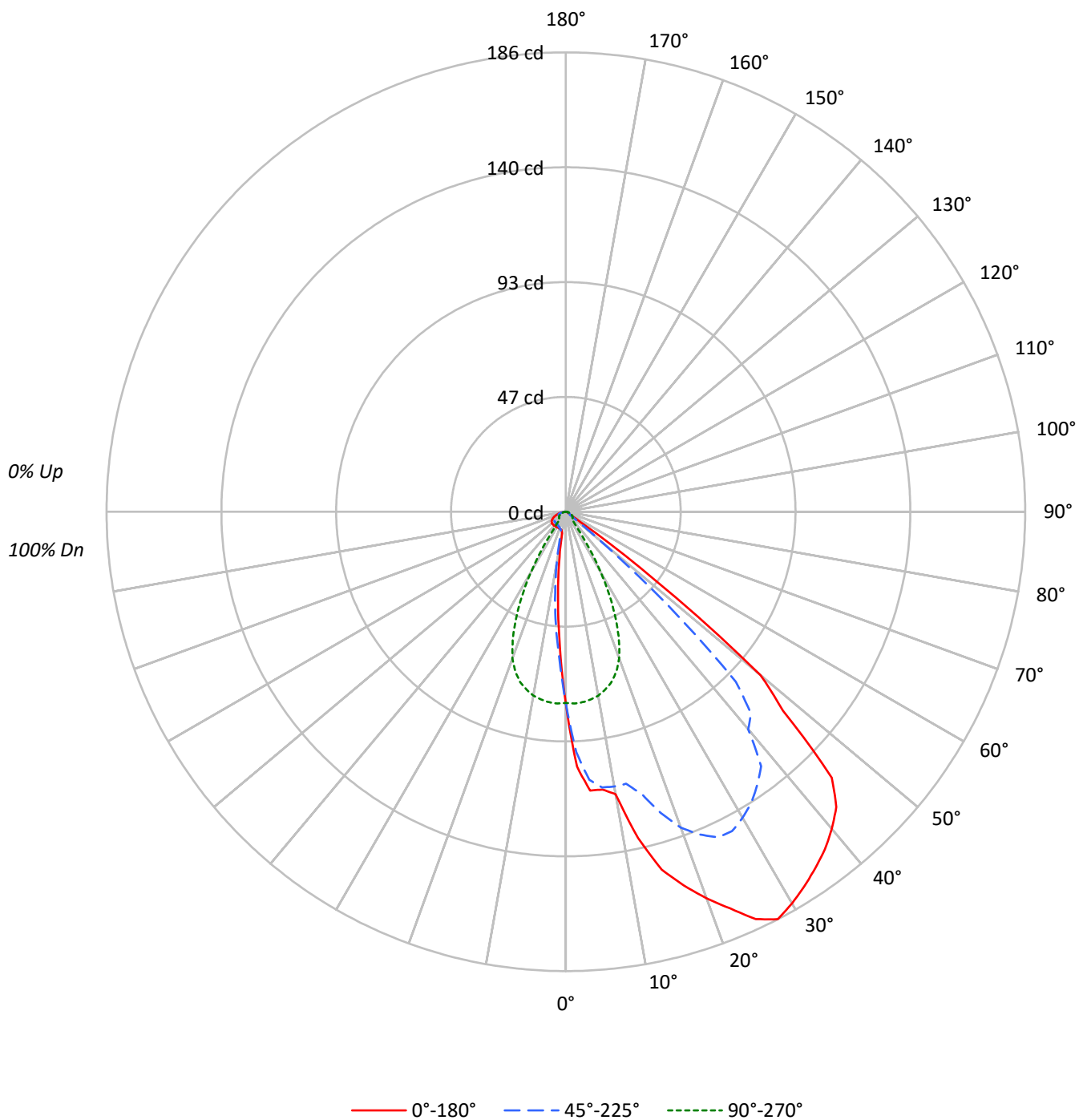
Lumens per Lamp: N/A
Luminaire Lumens: 147.0 lumens
Efficiency: N/A
Efficacy: 40.8 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1315883

CATALOG NUMBER: P3SQAS02R709827DE010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1315883

CATALOG NUMBER: P3SQAS02R709827DE010 E3SQCA301MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	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
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13330	13330	13330	13330	13330
5°	19587	18827	13381	7987	6258
10°	20304	19744	13221	3830	1539
15°	26745	21057	12730	1373	1337
20°	30534	24944	11583	1320	1338
25°	34585	27630	9102	1273	1330
30°	36412	28458	5648	1253	1432
35°	37024	28404	1850	1304	1514
40°	37680	25832	899	1394	1641
45°	37094	23723	926	1461	1778
50°	27570	4367	938	1608	1956
55°	2192	601	991	1711	2102
60°	448	620	964	1722	2170
65°	489	611	937	1712	2241
70°	403	604	906	1611	2165
75°	333	532	799	1530	2129
80°	298	496	793	1488	1984
85°	395	593	988	1383	1581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 37533 cd/sqm

TEST NUMBER: P1315883

CATALOG NUMBER: P3SQAS02R709827DE010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	4.8
10°-20°	19.8	13.5
20°-30°	33.3	22.6
30°-40°	40.0	27.2
40°-50°	31.7	21.6
50°-60°	10.1	6.9
60°-70°	2.8	1.9
70°-80°	1.7	1.1
80°-90°	0.5	0.4
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°	60.1	40.9
0°-40°	100.1	68.1
0°-60°	141.9	96.6
0°-90°	147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	147.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	77	77	77	77	77	
5°	113	109	77	46	36	11
15°	150	118	71	8	8	42
25°	182	145	48	7	7	83
35°	176	135	9	6	7	110
45°	152	97	4	6	7	109
55°	7	2	3	6	7	23
65°	1	2	2	4	6	1
75°	0	1	1	2	3	1
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1315883

CATALOG NUMBER: P3SQAS02R709827DE010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
2.5°	103.2	103.9	103.9	103.1	103.4	102.1	101.1	99.6	99.2	97.4	95.1
5°	113.3	112.9	112.9	112.3	112.6	112.1	111.6	111.3	110.3	108.9	107.6
7.5°	113.4	113.8	113.9	113.8	114.4	113.9	113.9	113.9	113.3	112.6	111.3
10°	116.1	115.6	115.1	113.9	113.3	112.8	112.8	112.9	113.3	112.9	112.1
12.5°	135.3	133.4	132.6	129.8	127.6	123.9	119.8	116.6	113.8	112.8	112.1
15°	150.0	149.6	148.0	145.3	142.6	138.3	133.4	128.6	123.4	118.1	114.3
17.5°	158.6	158.0	156.3	153.5	150.3	146.3	142.4	138.8	133.8	127.8	121.6
20°	166.6	165.1	163.0	159.6	156.5	152.6	148.5	144.9	140.8	136.1	128.9
22.5°	173.8	172.5	169.0	164.5	161.3	157.6	154.0	150.6	146.8	141.4	134.9
25°	182.0	179.0	173.3	167.5	163.6	160.6	158.0	155.3	151.3	145.4	137.8
27.5°	186.0	181.8	175.6	169.8	166.1	163.0	160.1	157.5	153.0	145.8	136.9
30°	183.1	180.8	176.5	172.0	169.0	166.0	162.6	158.6	151.5	143.1	134.9
32.5°	179.8	178.6	176.6	174.0	172.1	169.1	164.5	158.0	148.0	139.8	130.9
35°	176.1	175.6	175.0	173.8	172.6	169.8	164.0	154.5	144.4	135.1	126.6
37.5°	172.3	171.8	172.3	172.1	171.1	167.5	158.6	149.8	139.4	129.9	113.4
40°	167.6	167.3	168.1	169.0	167.8	163.0	153.5	142.8	133.6	114.9	109.3
42.5°	162.1	162.0	163.5	164.1	162.5	155.3	144.1	136.3	116.9	110.9	97.6
45°	152.3	152.6	153.3	154.1	153.1	145.3	135.1	120.8	112.3	97.4	55.5
47.5°	119.3	119.6	122.9	129.9	134.8	132.1	123.4	112.8	100.4	55.7	17.5
50°	102.9	102.6	102.7	104.4	108.3	111.9	109.3	103.4	59.9	16.3	2.2
52.5°	45.2	50.2	55.5	70.6	80.2	90.4	92.4	64.7	19.5	2.2	2.2
55°	7.3	7.7	9.7	14.2	25.5	38.5	46.7	21.7	2.0	2.0	2.0
57.5°	1.5	1.5	1.5	1.7	2.5	5.3	6.2	1.8	1.8	1.8	2.0
60°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.7	1.7	1.8	1.8
62.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.5	1.7	1.7	1.8
65°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.5	1.5	1.7
67.5°	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.3	1.3	1.3	1.5
70°	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.2	1.2	1.2
72.5°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	1.0	1.0	1.0
75°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5
82.5°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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: P1315883

CATALOG NUMBER: P3SQAS02R709827DE010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
2.5°	93.6	91.2	88.1	77.7	68.2	59.5	55.2	54.7
5°	105.4	103.2	97.9	77.4	59.2	46.2	38.4	36.2
7.5°	109.9	108.1	103.4	76.7	50.7	33.2	24.4	21.0
10°	111.1	109.9	105.9	75.6	41.9	21.9	11.5	8.8
12.5°	111.6	110.8	106.9	73.7	33.0	11.3	7.8	7.8
15°	112.4	111.6	107.9	71.4	24.4	7.7	7.5	7.5
17.5°	116.1	113.4	109.3	67.9	16.0	7.3	7.3	7.3
20°	122.1	116.3	109.9	63.2	10.0	7.2	7.2	7.3
22.5°	127.1	119.3	109.8	56.2	7.3	6.8	7.0	7.2
25°	129.3	120.6	108.3	47.9	6.3	6.7	7.0	7.0
27.5°	128.9	121.1	106.9	38.4	6.0	6.5	6.8	7.2
30°	127.1	119.8	103.9	28.4	5.7	6.3	6.8	7.2
32.5°	123.9	114.6	97.9	18.3	5.5	6.3	6.8	7.2
35°	113.6	106.3	89.2	8.8	5.3	6.2	7.0	7.2
37.5°	107.6	97.4	68.1	4.3	5.2	6.2	7.0	7.2
40°	97.9	72.7	30.7	4.0	5.2	6.2	7.0	7.3
42.5°	61.5	29.9	5.0	3.8	5.0	6.2	7.0	7.3
45°	22.5	4.0	2.7	3.8	5.0	6.0	7.0	7.3
47.5°	2.3	2.3	2.5	3.7	4.8	6.0	7.0	7.3
50°	2.2	2.3	2.5	3.5	4.7	6.0	6.8	7.3
52.5°	2.2	2.3	2.5	3.5	4.5	5.8	6.8	7.3
55°	2.2	2.3	2.3	3.3	4.3	5.7	6.7	7.0
57.5°	2.0	2.2	2.3	3.2	4.2	5.3	6.5	6.8
60°	2.0	2.2	2.3	2.8	4.0	5.0	6.2	6.3
62.5°	1.8	2.0	2.2	2.7	3.7	4.7	5.7	6.0
65°	1.8	1.8	2.0	2.3	3.3	4.2	5.2	5.5
67.5°	1.5	1.7	1.7	2.0	2.8	3.7	4.7	5.0
70°	1.3	1.3	1.5	1.8	2.5	3.2	4.0	4.3
72.5°	1.2	1.2	1.2	1.5	2.2	2.8	3.5	3.8
75°	1.0	1.0	1.0	1.2	1.8	2.3	3.0	3.2
77.5°	0.8	0.8	0.8	1.0	1.5	2.0	2.3	2.7
80°	0.7	0.7	0.7	0.8	1.2	1.5	1.8	2.0
82.5°	0.5	0.5	0.5	0.7	0.8	1.0	1.3	1.3
85°	0.3	0.3	0.3	0.5	0.5	0.7	0.8	0.8
87.5°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)