

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: P1314901

Luminaire Tested: P3SQAS02R459740DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R459740DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

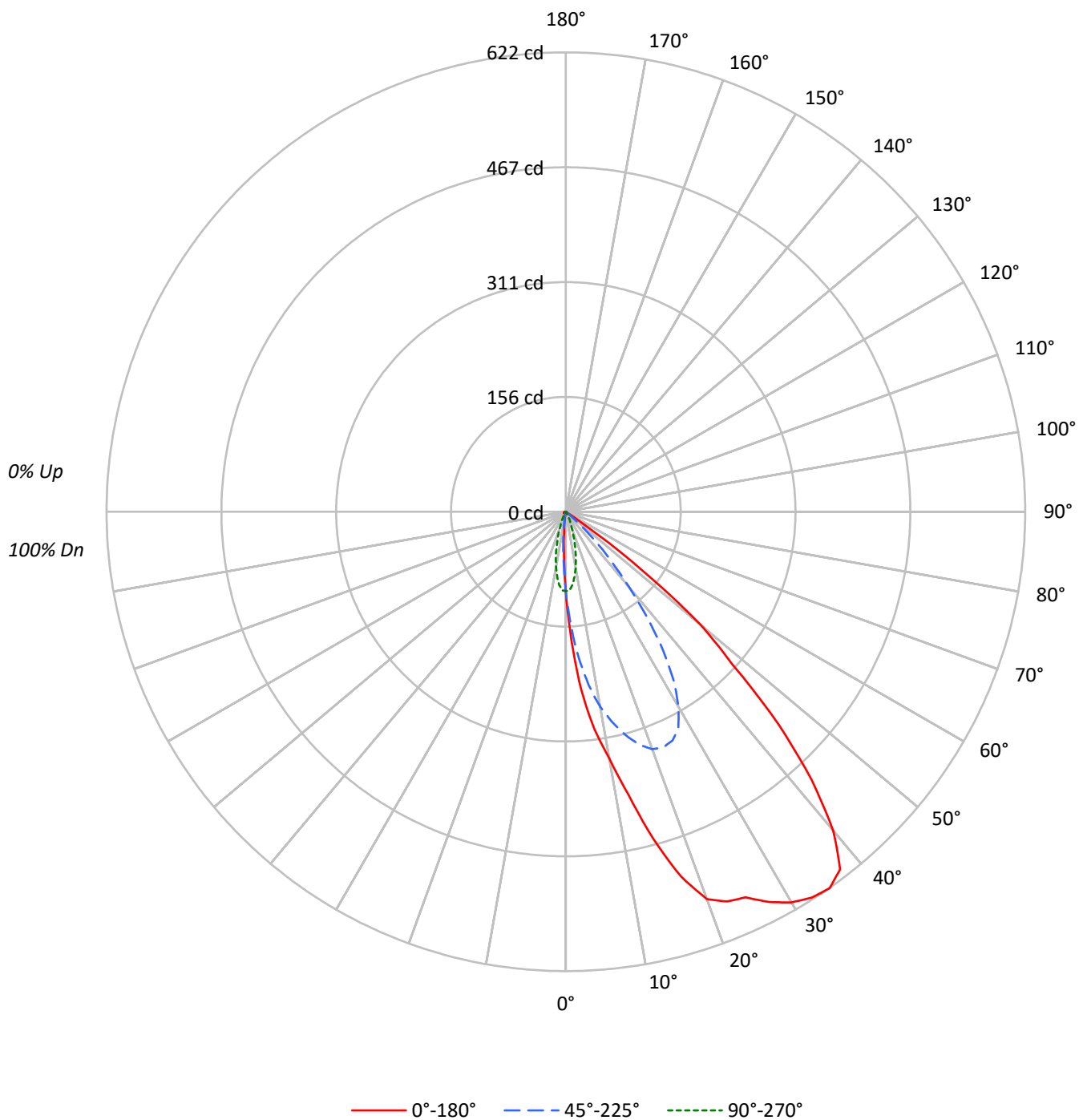
Lumens per Lamp: N/A
Luminaire Lumens: 282.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314901

CATALOG NUMBER: P3SQAS02R459740DE010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1314901

CATALOG NUMBER: P3SQAS02R459740DE010 E3SQCA301MW

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	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88		91	88	86		89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70		77	73	69		76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51		61	55	51		60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47		56	51	47		55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43		52	47	43		51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	18479	18479	18479	18479	18479
5°	42114	34161	17288	6933	4737
10°	59354	46938	13361	1521	700
15°	81785	55843	8540	499	428
20°	102268	62717	4454	348	348
25°	109436	64932	2052	266	323
30°	121467	60634	935	278	338
35°	130857	48335	294	294	399
40°	126619	29946	157	382	472
45°	99421	14126	170	463	585
50°	63875	1634	241	563	750
55°	9698	150	270	721	931
60°	172	172	310	827	964
65°	204	204	367	856	1141
70°	252	252	453	957	1309
75°	133	333	599	1131	1397
80°	198	496	694	1190	1686
85°	0	395	988	1383	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 99421 cd/sqm

TEST NUMBER: P1314901

CATALOG NUMBER: P3SQAS02R459740DE010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	4.2
10°-20°	42.5	15.1
20°-30°	74.6	26.5
30°-40°	84.7	30.0
40°-50°	54.8	19.4
50°-60°	10.8	3.8
60°-70°	1.3	0.5
70°-80°	1.1	0.4
80°-90°	0.5	0.2
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°	128.8	45.7
0°-40°	213.5	75.7
0°-60°	279.1	99.0
0°-90°	282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	282.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	107	107	107	107	107	
5°	244	198	100	40	27	26
15°	459	313	48	3	2	132
25°	576	342	11	1	2	270
35°	622	230	1	1	2	383
45°	408	58	1	2	2	308
55°	32	0	1	2	3	62
65°	0	0	1	2	3	0
75°	0	0	1	2	2	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1314901

CATALOG NUMBER: P3SQAS02R459740DE010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3
2.5°	174.3	173.8	174.5	169.8	169.6	166.0	165.1	161.1	155.7	153.1	146.9
5°	243.6	241.3	241.3	235.6	233.7	229.7	222.9	214.4	207.3	197.6	187.3
7.5°	297.2	296.7	296.7	291.7	287.0	281.4	272.2	262.5	251.2	236.3	221.2
10°	339.4	340.1	338.0	333.5	326.6	320.5	309.7	297.9	283.9	268.4	248.3
12.5°	392.7	387.5	385.8	375.7	367.0	355.2	342.2	328.8	311.5	292.0	269.3
15°	458.7	452.1	445.5	432.1	417.4	399.3	379.0	359.2	337.0	313.2	284.9
17.5°	517.7	517.7	508.9	487.7	468.8	442.0	414.6	388.2	362.0	330.6	295.3
20°	558.0	555.9	549.3	533.7	512.2	481.8	446.2	409.2	377.6	342.2	301.2
22.5°	571.2	570.7	571.0	561.8	544.6	512.9	469.3	425.7	386.1	345.0	298.3
25°	575.9	576.9	579.2	575.7	562.7	531.1	483.5	433.5	388.7	341.7	287.5
27.5°	595.5	593.6	596.2	593.8	579.2	541.5	486.3	431.6	383.0	329.7	268.1
30°	610.8	610.4	614.8	612.7	593.6	548.1	483.7	424.5	369.1	304.9	237.7
32.5°	619.5	619.8	621.0	612.2	583.9	533.7	471.0	410.1	342.9	272.6	198.1
35°	622.4	621.0	614.4	592.9	554.2	500.4	439.6	375.9	307.3	229.9	156.6
37.5°	610.1	602.8	585.8	553.7	508.9	458.7	399.5	332.8	258.5	181.6	116.7
40°	563.2	553.5	532.1	499.3	457.5	408.9	348.3	278.5	200.5	133.2	82.1
42.5°	492.9	488.0	465.5	437.0	401.6	352.6	290.1	219.3	148.3	92.0	52.4
45°	408.2	401.9	387.7	362.5	334.7	283.2	225.0	157.1	101.2	58.0	25.9
47.5°	306.1	306.6	296.9	277.8	250.5	207.5	154.0	105.4	63.4	30.0	5.9
50°	238.4	235.1	221.5	201.9	170.0	138.2	99.5	66.5	33.5	6.1	0.5
52.5°	132.1	134.2	126.9	120.5	104.0	82.5	58.7	33.7	7.1	0.7	0.5
55°	32.3	34.2	32.8	33.5	34.7	30.9	23.8	6.6	0.7	0.5	0.5
57.5°	0.7	0.7	0.7	0.7	1.2	1.7	1.7	0.5	0.5	0.5	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P1314901

CATALOG NUMBER: P3SQAS02R459740DE010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3
2.5°	143.9	139.4	131.1	106.6	85.6	69.1	59.2	58.3
5°	178.1	166.0	148.6	100.0	63.2	40.1	29.0	27.4
7.5°	205.2	188.2	161.3	89.1	43.2	20.5	11.3	9.4
10°	227.6	203.5	167.9	76.4	27.1	8.7	4.7	4.0
12.5°	242.9	213.9	169.1	62.3	15.6	4.2	3.1	2.8
15°	252.8	217.2	163.4	47.9	8.7	2.8	2.6	2.4
17.5°	256.8	214.4	152.6	34.7	4.7	2.1	2.1	2.1
20°	254.9	205.2	136.6	24.3	3.1	1.9	1.9	1.9
22.5°	246.0	189.4	116.5	16.3	2.1	1.7	1.7	1.7
25°	228.3	167.9	95.3	10.8	1.4	1.4	1.7	1.7
27.5°	201.9	141.5	72.9	7.3	1.2	1.4	1.7	1.7
30°	168.6	112.0	52.4	4.7	1.2	1.4	1.4	1.7
32.5°	134.0	81.6	34.4	2.8	0.9	1.4	1.7	1.9
35°	97.2	55.7	21.9	1.4	1.2	1.4	1.7	1.9
37.5°	68.2	36.3	12.7	0.9	1.2	1.4	1.9	1.9
40°	44.3	20.3	4.7	0.7	1.2	1.7	1.9	2.1
42.5°	23.1	7.1	0.9	0.7	1.2	1.7	2.1	2.4
45°	5.9	0.9	0.2	0.7	1.4	1.9	2.4	2.4
47.5°	0.7	0.2	0.2	0.9	1.4	2.1	2.4	2.6
50°	0.2	0.5	0.5	0.9	1.4	2.1	2.6	2.8
52.5°	0.5	0.5	0.5	0.9	1.7	2.1	2.8	3.1
55°	0.5	0.5	0.5	0.9	1.7	2.4	2.8	3.1
57.5°	0.5	0.5	0.5	0.9	1.7	2.4	2.8	2.8
60°	0.5	0.5	0.5	0.9	1.7	2.4	2.8	2.8
62.5°	0.5	0.5	0.7	0.9	1.7	2.1	2.8	2.8
65°	0.5	0.7	0.7	0.9	1.7	2.1	2.6	2.8
67.5°	0.5	0.5	0.7	0.9	1.7	2.1	2.6	2.8
70°	0.5	0.5	0.7	0.9	1.4	1.9	2.4	2.6
72.5°	0.5	0.5	0.7	0.9	1.4	1.9	2.1	2.4
75°	0.5	0.5	0.7	0.9	1.2	1.7	2.1	2.1
77.5°	0.5	0.5	0.7	0.7	1.2	1.4	1.9	1.9
80°	0.5	0.5	0.7	0.7	0.9	1.2	1.4	1.7
82.5°	0.5	0.5	0.5	0.7	0.7	0.9	1.2	1.2
85°	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7
87.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)