

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: P1313936

Luminaire Tested: P3SQAS02R509735DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R509735DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

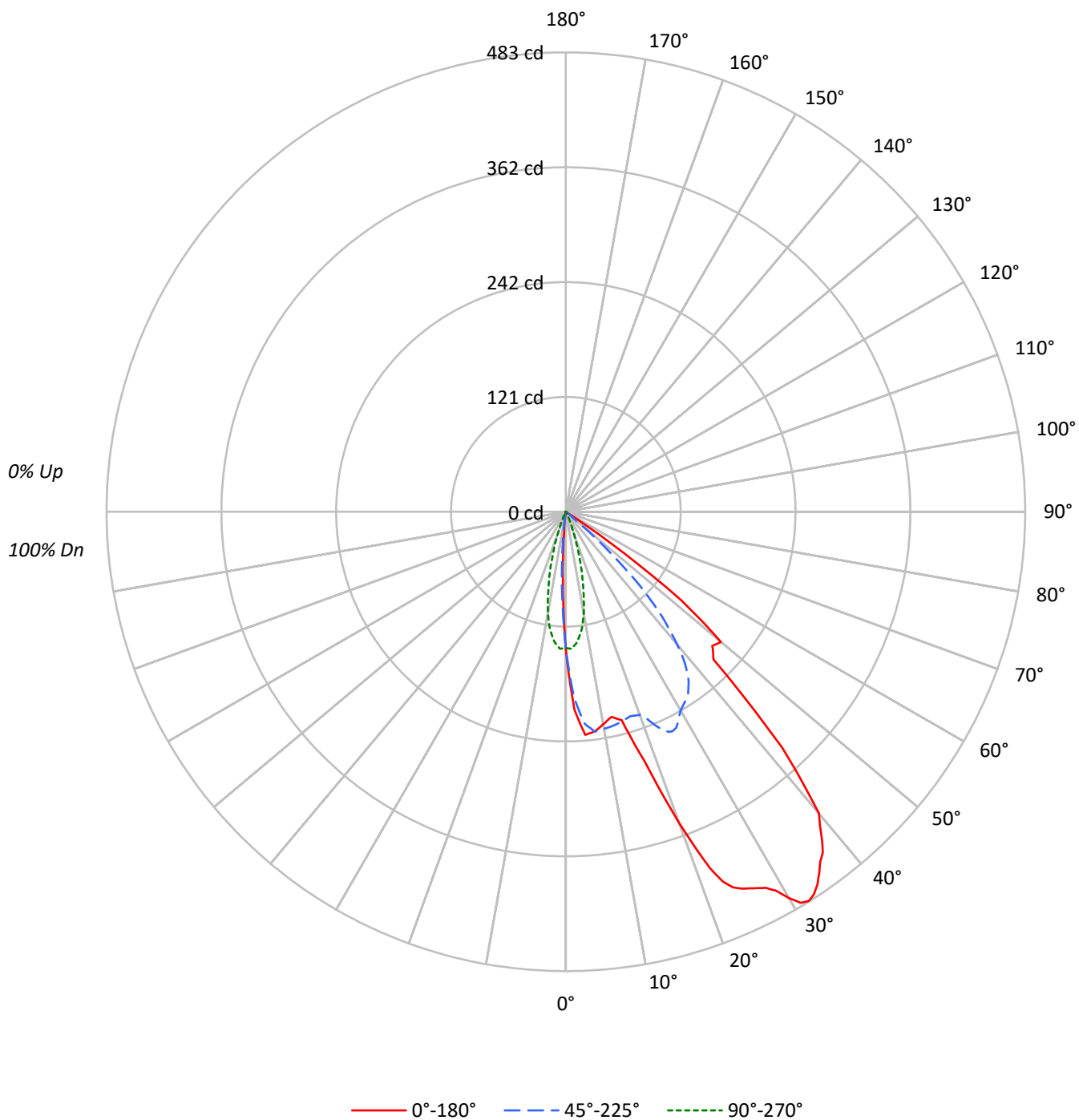
Lumens per Lamp: N/A
Luminaire Lumens: 231.0 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1313936

CATALOG NUMBER: P3SQAS02R509735DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1313936

CATALOG NUMBER: P3SQAS02R509735DE010 E3SQCA301MB

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	84	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	75	75	74
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	68	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	61	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	55	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	50	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	46	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	24697	24697	24697	24697	24697
5°	40696	38622	23736	7054	3527
10°	39663	40537	19027	350	472
15°	40438	40688	11393	357	125
20°	63743	41659	4692	0	0
25°	83099	48533	1121	0	0
30°	93268	47986	40	0	0
35°	97617	47263	0	0	0
40°	93121	41052	0	0	0
45°	53486	27084	0	0	0
50°	57069	3108	0	0	0
55°	16274	0	0	0	0
60°	0	0	69	0	0
65°	0	82	82	0	0
70°	0	101	101	0	0
75°	0	133	133	0	0
80°	0	198	496	198	0
85°	0	395	988	395	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 59039 cd/sqm

TEST NUMBER: P1313936

CATALOG NUMBER: P3SQAS02R509735DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.0	5.2
10°-20°	30.3	13.1
20°-30°	58.3	25.2
30°-40°	67.8	29.4
40°-50°	48.6	21.0
50°-60°	13.5	5.9
60°-70°	0.1	0.0
70°-80°	0.1	0.1
80°-90°	0.2	0.1
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°	100.7	43.6
0°-40°	168.5	73.0
0°-60°	230.6	99.8
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°	143	143	143	143	143	
5°	235	223	137	41	20	22
15°	227	228	64	2	1	73
25°	437	255	6	0	0	199
35°	464	225	0	0	0	287
45°	220	111	0	0	0	206
55°	54	0	0	0	0	68
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1313936

CATALOG NUMBER: P3SQAS02R509735DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	143.4	143.4	143.4	143.4	143.4	143.4	143.4	143.4	143.4	143.4	143.4
2.5°	208.5	209.6	209.8	207.1	207.5	203.7	203.9	201.2	194.6	171.7	144.1
5°	235.4	234.7	235.4	234.5	235.4	233.1	231.8	230.7	223.4	191.0	137.3
7.5°	232.9	232.0	233.4	233.8	235.4	234.7	235.0	235.6	233.1	201.4	125.8
10°	226.8	226.6	227.3	227.3	229.1	229.3	230.2	231.6	231.8	205.1	108.8
12.5°	220.9	220.2	220.2	220.0	220.9	220.7	223.0	226.1	230.4	202.8	85.4
15°	226.8	226.1	225.2	222.7	220.9	218.9	219.1	221.1	228.2	196.9	63.9
17.5°	274.4	270.8	266.2	258.3	249.9	235.4	226.8	221.4	225.4	187.8	42.6
20°	347.8	346.2	339.0	326.0	312.5	291.2	264.6	243.3	227.3	176.5	25.6
21°	375.7	374.8	367.1	355.0	339.6	313.8	286.6	261.0	230.9	171.7	20.2
22°	404.2	400.8	394.7	381.3	365.2	339.4	309.1	280.7	238.1	165.6	15.4
23°	422.6	420.5	414.0	403.3	387.9	362.8	331.7	300.9	245.2	158.8	11.6
24°	432.1	431.4	426.2	418.7	405.6	380.0	350.5	318.8	251.0	150.9	8.4
25°	437.3	435.0	431.9	426.4	416.5	394.2	368.0	334.4	255.4	143.0	5.9
26°	440.5	439.1	434.1	429.4	419.8	401.7	379.3	343.9	256.5	133.2	4.1
27°	444.1	440.9	436.2	430.5	419.8	404.0	383.6	348.0	255.1	123.3	2.7
28°	447.9	445.7	439.1	431.9	419.2	404.0	382.0	342.6	251.0	113.7	1.6
29°	455.4	452.5	444.3	433.7	419.4	403.5	375.9	331.3	245.6	103.1	0.9
30°	469.0	462.9	452.9	438.0	421.0	402.6	365.7	314.3	241.3	91.1	0.2
31°	479.7	476.3	464.7	445.9	425.5	400.1	353.7	297.5	238.4	80.7	0.0
32°	482.6	480.1	471.7	454.1	433.2	398.1	340.1	281.2	236.1	69.1	0.0
33°	479.2	477.6	468.8	452.7	435.3	395.4	324.5	265.1	233.6	58.7	0.0
34°	472.9	470.8	463.1	446.8	430.0	383.6	309.5	252.9	230.0	48.9	0.0
35°	464.3	462.7	454.7	438.7	420.5	365.2	294.6	244.7	224.8	39.2	0.0
36°	455.0	454.5	444.3	428.5	408.3	347.6	276.4	238.6	219.6	31.0	0.0
37°	448.9	446.6	435.5	419.8	393.8	327.0	261.9	236.5	212.3	24.0	0.0
38°	437.7	438.2	425.5	411.2	379.1	309.1	250.1	235.0	204.1	17.4	0.0
39°	424.6	424.8	411.7	399.5	361.6	290.2	240.4	233.4	194.0	11.1	0.0
40°	414.2	414.0	399.0	385.9	342.8	272.6	235.2	231.1	182.6	6.3	0.0
42.5°	336.7	338.1	339.9	345.3	298.6	241.5	230.2	218.4	150.4	0.0	0.0
45°	219.6	224.8	226.1	242.4	242.2	228.8	218.4	195.8	111.2	0.0	0.0
47.5°	208.9	210.5	213.4	219.8	223.2	216.6	195.3	163.6	60.7	0.0	0.0
50°	213.0	212.8	213.4	213.4	207.3	190.3	160.2	120.8	11.6	0.0	0.0
52.5°	152.9	158.6	164.7	167.4	159.5	141.6	116.9	70.9	0.0	0.0	0.0
55°	54.2	52.3	51.0	55.7	54.6	61.4	50.8	16.5	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.9	2.0	2.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.5



TEST NUMBER: P1313936

CATALOG NUMBER: P3SQAS02R509735DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.5
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: P1313936

CATALOG NUMBER: P3SQAS02R509735DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	143.4	143.4	143.4	143.4
2.5°	114.9	88.1	71.4	72.5
5°	80.7	40.8	25.2	20.4
7.5°	48.3	12.5	2.5	2.0
10°	22.7	2.0	2.3	2.7
12.5°	6.8	1.8	2.5	2.3
15°	1.8	2.0	1.1	0.7
17.5°	0.7	0.9	0.0	0.0
20°	0.5	0.0	0.0	0.0
21°	0.5	0.0	0.0	0.0
22°	0.2	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.2	0.0	0.0	0.0
67.5°	0.2	0.0	0.0	0.0
70°	0.2	0.0	0.0	0.0
72.5°	0.2	0.0	0.0	0.0
75°	0.2	0.0	0.0	0.0
77.5°	0.2	0.0	0.0	0.0
80°	0.2	0.2	0.0	0.0



TEST NUMBER: P1313936

CATALOG NUMBER: P3SQAS02R509735DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.2	0.2	0.0	0.0
85°	0.2	0.2	0.0	0.0
87.5°	0.2	0.2	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)