

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: P1314891

Luminaire Tested: P3SQAS02R409740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R409740DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

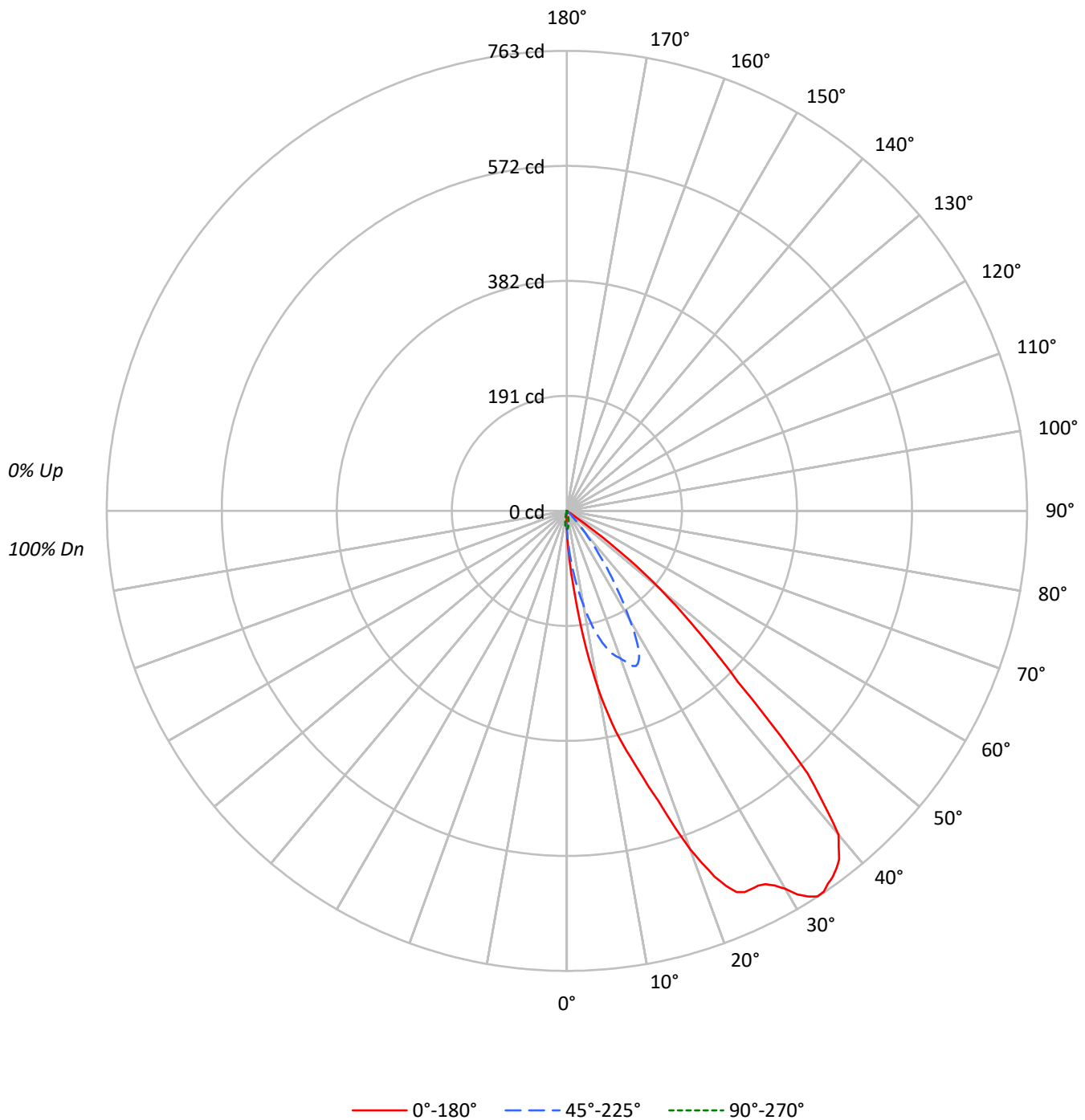
Lumens per Lamp: N/A
Luminaire Lumens: 256.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314891

CATALOG NUMBER: P3SQAS02R409740DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1314891

CATALOG NUMBER: P3SQAS02R409740DE010 E3SQCA301MMS

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	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	74	70	78	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	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5149	5149	5149	5149	5149
5°	21887	14920	4529	813	415
10°	52604	27753	2798	87	0
15°	77435	40313	1177	0	0
20°	109452	47798	440	0	0
25°	132563	53036	0	0	0
30°	143939	41483	0	0	0
35°	158714	24283	0	0	0
40°	157532	9870	0	0	0
45°	97570	2874	0	0	0
50°	54336	54	0	0	0
55°	5315	0	0	0	0
60°	0	0	69	0	0
65°	0	0	82	0	0
70°	0	101	252	0	0
75°	0	133	333	0	0
80°	0	198	496	0	0
85°	0	395	988	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 98008 cd/sqm

TEST NUMBER: P1314891

CATALOG NUMBER: P3SQAS02R409740DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	2.2
10°-20°	33.0	12.9
20°-30°	75.3	29.4
30°-40°	88.9	34.7
40°-50°	47.5	18.6
50°-60°	5.2	2.0
60°-70°	0.1	0.0
70°-80°	0.2	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°	113.9	44.5
0°-40°	202.9	79.2
0°-60°	255.5	99.8
0°-90°	256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	256.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	127	86	26	5	2	18
15°	434	226	7	0	0	129
25°	698	279	0	0	0	317
35°	755	116	0	0	0	466
45°	401	12	0	0	0	330
55°	18	0	0	0	0	50
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: P1314891

CATALOG NUMBER: P3SQAS02R409740DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
2.5°	69.8	68.4	69.3	67.4	67.4	63.2	63.4	59.9	54.7	41.7	29.7
5°	126.6	132.3	127.8	121.9	118.6	114.3	108.7	102.8	86.3	52.1	26.2
7.5°	211.9	211.5	203.9	197.6	190.3	178.9	168.3	154.0	122.8	59.6	21.7
10°	300.8	299.2	290.7	285.3	271.4	255.1	233.4	210.3	158.7	62.2	16.0
12.5°	374.9	372.7	365.7	356.5	341.1	320.6	297.3	266.9	196.4	59.4	10.4
15°	434.3	433.8	427.0	414.5	398.4	378.4	352.0	315.4	226.1	52.1	6.6
17.5°	504.8	507.6	495.3	481.9	458.8	430.7	398.4	356.7	248.0	43.1	4.2
20°	597.2	593.2	581.9	562.3	540.1	506.4	460.7	401.0	260.8	33.5	2.4
21°	625.5	623.8	612.0	593.9	569.4	535.2	488.0	423.7	266.6	29.9	1.9
22°	654.2	651.4	642.2	624.5	601.4	562.8	510.9	447.0	274.2	26.2	1.2
23°	675.7	674.5	667.4	650.0	626.2	588.7	535.7	468.7	279.4	22.6	0.7
24°	692.2	690.8	683.7	670.5	650.0	610.9	560.6	492.0	281.5	19.6	0.2
25°	697.6	698.3	694.1	683.7	666.5	627.4	579.3	510.4	279.1	16.7	0.0
26°	697.9	700.0	696.9	691.0	676.9	640.6	596.7	521.3	273.0	14.1	0.0
27°	697.9	700.0	696.9	692.4	678.5	648.1	606.1	522.4	263.6	12.0	0.0
28°	701.2	702.3	698.3	692.9	677.8	650.5	608.7	515.4	248.5	10.4	0.0
29°	710.3	709.2	702.6	695.3	677.1	650.5	601.0	501.9	229.6	8.7	0.0
30°	723.8	723.8	713.4	701.9	680.4	650.2	588.5	477.7	208.6	7.1	0.0
31°	741.9	740.3	729.9	712.7	687.5	650.2	570.1	450.8	189.3	6.1	0.0
32°	754.2	753.3	743.4	723.1	699.0	650.2	550.3	421.1	168.3	5.0	0.0
33°	762.7	760.8	749.5	728.5	706.1	646.9	528.1	389.2	149.5	4.0	0.0
34°	761.5	761.0	749.3	727.6	704.7	633.3	502.4	353.9	132.0	3.3	0.0
35°	754.9	754.9	740.5	718.1	694.6	613.2	476.9	323.7	115.5	2.4	0.0
36°	750.0	748.1	731.8	706.8	677.6	581.6	439.2	293.3	97.8	1.9	0.0
37°	742.6	739.1	721.0	694.1	653.5	547.4	399.6	266.2	82.8	1.2	0.0
38°	733.2	727.8	705.6	679.2	627.1	508.1	359.3	235.8	68.8	0.7	0.0
39°	716.0	711.5	688.7	660.1	595.5	466.6	320.2	207.2	55.6	0.2	0.0
40°	700.7	692.9	667.0	634.2	558.5	419.7	281.3	179.2	43.9	0.0	0.0
42.5°	590.8	582.6	576.7	544.1	444.9	301.3	196.4	114.8	22.9	0.0	0.0
45°	400.6	402.4	384.1	362.1	293.5	196.4	122.8	63.9	11.8	0.0	0.0
47.5°	292.1	287.2	262.2	220.7	172.1	114.8	64.1	30.9	4.7	0.0	0.0
50°	202.8	193.3	170.7	139.6	93.6	54.7	28.3	14.4	0.2	0.0	0.0
52.5°	110.1	103.5	87.7	63.7	38.9	21.0	11.3	5.9	0.0	0.0	0.0
55°	17.7	12.3	12.7	10.8	8.5	6.1	3.5	0.7	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.2
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	0.0	0.2	0.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5	0.5



TEST NUMBER: P1314891

CATALOG NUMBER: P3SQAS02R409740DE010 E3SQCA301MMS

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	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5	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: P1314891

CATALOG NUMBER: P3SQAS02R409740DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	29.9	29.9	29.9	29.9
2.5°	20.0	13.7	10.4	9.0
5°	11.6	4.7	2.6	2.4
7.5°	5.7	1.7	0.9	0.9
10°	2.4	0.5	0.0	0.0
12.5°	0.7	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	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	0.0	0.0	0.0



TEST NUMBER: P1314891

CATALOG NUMBER: P3SQAS02R409740DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)