

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: P1313919

Luminaire Tested: P3SQAS02R409735DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313919
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: P3SQAS02R409735DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

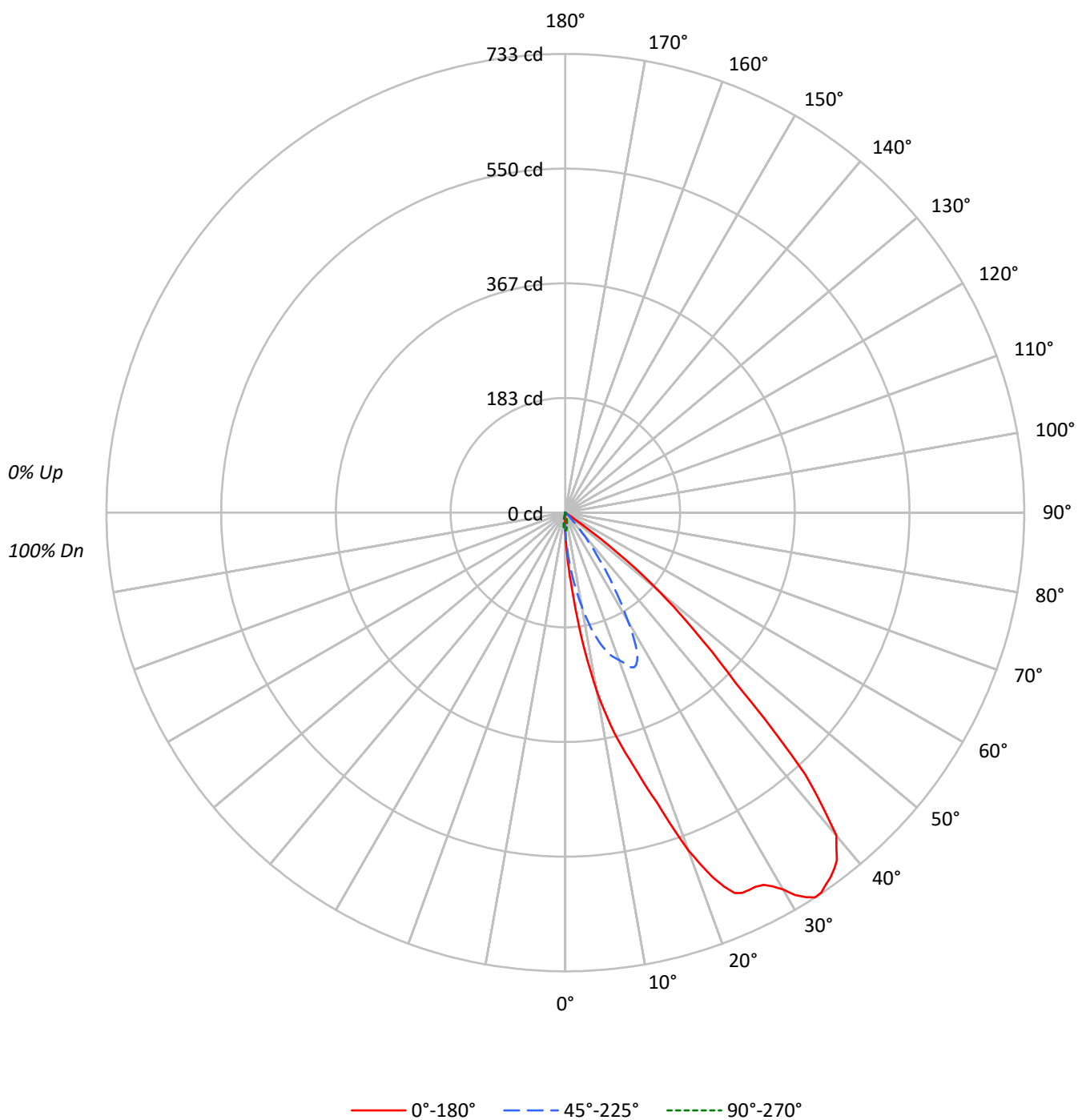
Lumens per Lamp: N/A
Luminaire Lumens: 246.0 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1313919

CATALOG NUMBER: P3SQAS02R409735DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1313919

CATALOG NUMBER: P3SQAS02R409735DE010 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°	4960	4960	4960	4960	4960
5°	21040	14332	4339	778	398
10°	50558	26669	2693	87	0
15°	74404	38744	1123	0	0
20°	105182	45929	422	0	0
25°	127394	50965	0	0	0
30°	138311	39873	0	0	0
35°	152512	23337	0	0	0
40°	151372	9465	0	0	0
45°	93746	2752	0	0	0
50°	52193	54	0	0	0
55°	5104	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: 94184 cd/sqm

TEST NUMBER: P1313919

CATALOG NUMBER: P3SQAS02R409735DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	2.2
10°-20°	31.7	12.9
20°-30°	72.4	29.4
30°-40°	85.5	34.7
40°-50°	45.7	18.6
50°-60°	5.0	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°	109.5	44.5
0°-40°	194.9	79.2
0°-60°	245.6	99.8
0°-90°	246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	246.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	122	83	25	4	2	17
15°	417	217	6	0	0	124
25°	670	268	0	0	0	304
35°	725	111	0	0	0	448
45°	385	11	0	0	0	317
55°	17	0	0	0	0	48
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: P1313919

CATALOG NUMBER: P3SQAS02R409735DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
2.5°	67.1	65.7	66.6	64.8	64.8	60.7	60.9	57.5	52.6	40.1	28.5
5°	121.7	127.1	122.8	117.1	114.0	109.9	104.4	98.8	82.9	50.1	25.1
7.5°	203.7	203.2	196.0	189.9	182.8	172.0	161.8	147.9	118.0	57.3	20.8
10°	289.1	287.5	279.3	274.1	260.8	245.1	224.3	202.1	152.5	59.8	15.4
12.5°	360.2	358.2	351.4	342.5	327.8	308.1	285.7	256.5	188.7	57.1	10.0
15°	417.3	416.9	410.3	398.3	382.9	363.6	338.2	303.1	217.3	50.1	6.3
17.5°	485.0	487.8	476.0	463.1	440.9	413.9	382.9	342.8	238.3	41.5	4.1
20°	573.9	570.0	559.1	540.3	519.0	486.6	442.7	385.4	250.6	32.2	2.3
21°	601.0	599.5	588.1	570.7	547.1	514.3	469.0	407.1	256.2	28.8	1.8
22°	628.7	626.0	617.1	600.1	577.9	540.8	490.9	429.5	263.5	25.1	1.1
23°	649.3	648.2	641.4	624.6	601.7	565.7	514.7	450.4	268.5	21.7	0.7
24°	665.2	663.8	657.0	644.3	624.6	587.0	538.7	472.8	270.5	18.8	0.2
25°	670.4	671.0	667.0	657.0	640.5	602.9	556.6	490.5	268.2	16.1	0.0
26°	670.6	672.6	669.7	664.0	650.4	615.5	573.4	500.9	262.3	13.6	0.0
27°	670.6	672.6	669.7	665.4	652.0	622.8	582.5	502.0	253.3	11.6	0.0
28°	673.8	674.9	671.0	665.8	651.3	625.1	585.0	495.2	238.8	10.0	0.0
29°	682.6	681.5	675.1	668.1	650.7	625.1	577.5	482.3	220.7	8.4	0.0
30°	695.5	695.5	685.5	674.4	653.8	624.8	565.5	459.0	200.5	6.8	0.0
31°	713.0	711.4	701.4	684.9	660.6	624.8	547.8	433.2	181.9	5.9	0.0
32°	724.7	723.8	714.3	694.8	671.7	624.8	528.8	404.6	161.8	4.8	0.0
33°	732.9	731.1	720.2	700.0	678.5	621.7	507.5	374.0	143.6	3.9	0.0
34°	731.8	731.3	720.0	699.1	677.2	608.5	482.8	340.1	126.9	3.2	0.0
35°	725.4	725.4	711.6	690.1	667.4	589.3	458.3	311.1	111.0	2.3	0.0
36°	720.7	718.8	703.2	679.2	651.1	558.9	422.1	281.8	94.0	1.8	0.0
37°	713.6	710.2	692.8	667.0	628.0	526.1	384.0	255.8	79.5	1.1	0.0
38°	704.6	699.4	678.1	652.7	602.6	488.2	345.3	226.6	66.2	0.7	0.0
39°	688.0	683.7	661.8	634.3	572.3	448.3	307.7	199.1	53.5	0.2	0.0
40°	673.3	665.8	640.9	609.4	536.7	403.3	270.3	172.2	42.1	0.0	0.0
42.5°	567.7	559.8	554.1	522.9	427.5	289.5	188.7	110.3	22.0	0.0	0.0
45°	384.9	386.7	369.1	348.0	282.1	188.7	118.0	61.4	11.3	0.0	0.0
47.5°	280.7	275.9	251.9	212.1	165.4	110.3	61.6	29.7	4.5	0.0	0.0
50°	194.8	185.8	164.0	134.1	89.9	52.6	27.2	13.8	0.2	0.0	0.0
52.5°	105.8	99.5	84.3	61.2	37.4	20.2	10.9	5.7	0.0	0.0	0.0
55°	17.0	11.8	12.2	10.4	8.2	5.9	3.4	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: P1313919

CATALOG NUMBER: P3SQAS02R409735DE010 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: P1313919

CATALOG NUMBER: P3SQAS02R409735DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	28.8	28.8	28.8	28.8
2.5°	19.3	13.1	10.0	8.6
5°	11.1	4.5	2.5	2.3
7.5°	5.4	1.6	0.9	0.9
10°	2.3	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: P1313919

CATALOG NUMBER: P3SQAS02R409735DE010 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)