

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: P1312996

Luminaire Tested: P3SQAS02R709730DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R709730DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

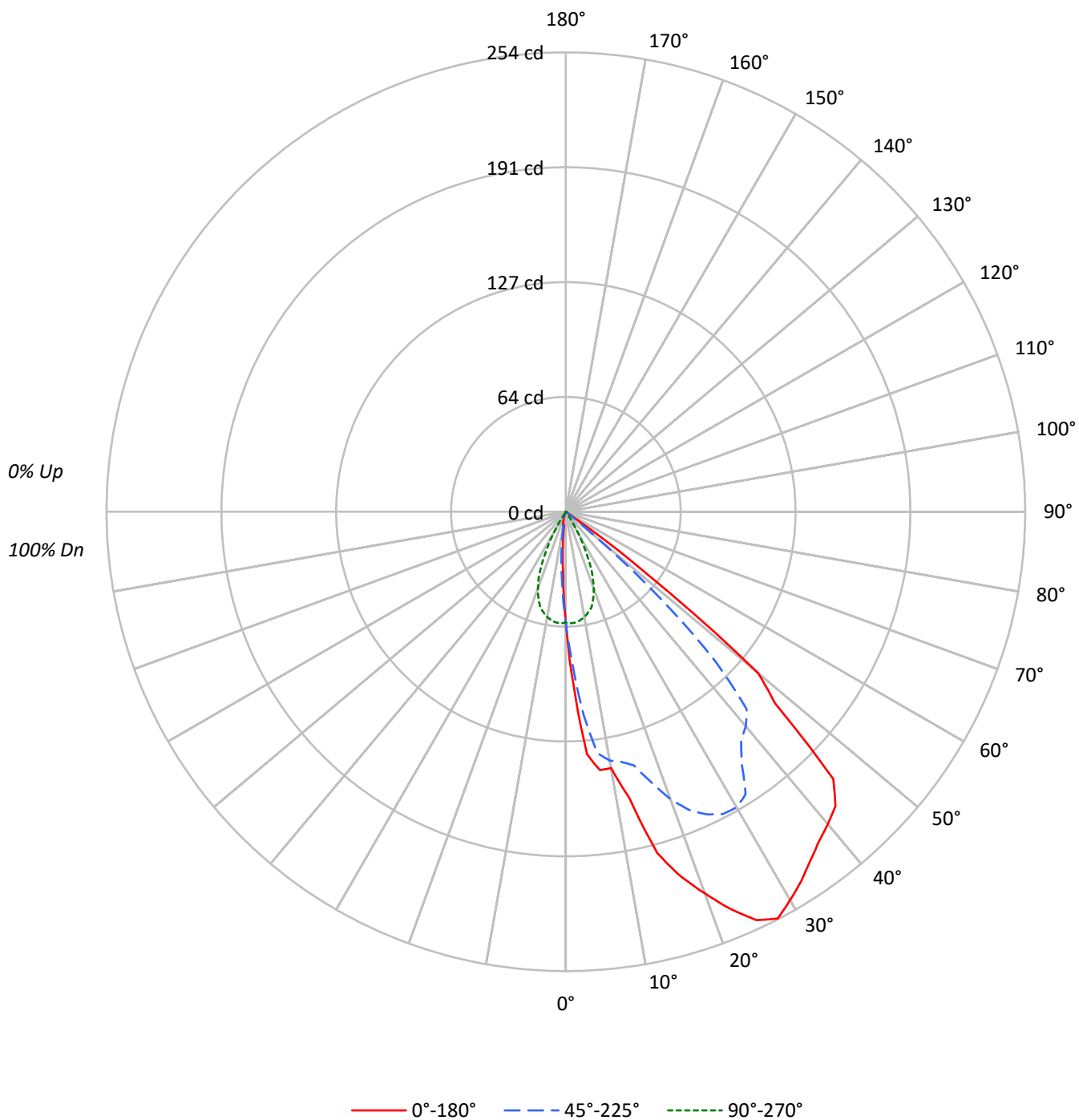
Lumens per Lamp: N/A
Luminaire Lumens: 165.0 lumens
Efficiency: N/A
Efficacy: 45.8 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1312996

CATALOG NUMBER: P3SQAS02R709730DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1312996

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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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	70	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39		
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10540	10540	10540	10540	10540
5°	23270	19518	10632	4823	3181
10°	25165	24431	10335	1347	1382
15°	34839	25871	9753	1373	998
20°	41145	30974	8284	806	293
25°	47336	35079	5834	133	0
30°	49319	37546	2685	0	0
35°	49534	35594	147	0	0
40°	50675	34802	0	0	0
45°	50928	28521	0	0	0
50°	37189	5921	0	0	0
55°	2102	0	0	0	0
60°	0	69	69	0	0
65°	0	0	82	0	0
70°	0	101	101	0	0
75°	0	133	133	0	0
80°	0	198	198	198	0
85°	0	395	395	395	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 51878 cd/sqm

TEST NUMBER: P1312996

CATALOG NUMBER: P3SQAS02R709730DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	4.1
10°-20°	22.4	13.6
20°-30°	40.2	24.4
30°-40°	48.9	29.6
40°-50°	37.7	22.9
50°-60°	8.8	5.3
60°-70°	0.0	0.0
70°-80°	0.1	0.1
80°-90°	0.1	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°	69.3	42.0
0°-40°	118.2	71.6
0°-60°	164.7	99.8
0°-90°	165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	165.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	61	61	61	61	61	
5°	135	113	62	28	18	13
15°	195	145	55	8	6	55
25°	249	185	31	1	0	113
35°	236	169	1	0	0	148
45°	209	117	0	0	0	148
55°	7	0	0	0	0	29
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: P1312996

CATALOG NUMBER: P3SQAS02R709730DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
2.5°	95.5	95.5	95.9	95.7	93.6	92.7	89.6	88.0	87.5	83.8	82.4
5°	134.6	134.8	133.7	133.4	131.1	129.5	126.9	122.9	119.0	112.9	107.6
7.5°	144.1	143.9	143.7	143.7	143.2	142.3	141.1	139.9	138.3	134.6	130.4
10°	143.9	143.9	143.7	143.7	143.4	143.7	143.4	142.7	142.0	139.7	137.4
12.5°	162.1	160.7	158.8	156.0	151.3	147.9	143.9	142.7	142.3	141.6	140.2
15°	195.4	194.2	190.2	185.3	180.7	172.8	166.5	157.9	151.1	145.1	142.0
17.5°	211.4	212.1	207.7	204.7	200.2	194.0	186.5	177.7	168.1	156.7	147.6
20°	224.5	225.2	221.4	218.4	213.3	206.8	200.2	190.7	181.6	169.0	157.2
22.5°	237.7	238.2	234.7	230.3	224.5	217.7	209.3	199.5	189.8	178.6	166.0
25°	249.1	248.7	242.9	236.6	231.0	223.8	215.6	206.1	196.8	184.6	172.8
27.5°	253.6	253.3	246.8	240.8	234.2	224.5	217.2	208.9	199.1	188.4	176.3
30°	248.0	251.7	247.5	243.1	235.2	225.4	218.4	208.4	199.3	188.8	175.1
32.5°	242.2	246.8	245.4	243.3	234.0	226.3	217.2	207.9	197.2	185.1	164.2
35°	235.6	240.5	240.8	238.4	230.0	222.4	214.0	204.2	192.1	169.3	153.9
37.5°	229.8	234.5	235.9	231.0	224.5	214.2	206.5	196.3	174.4	159.0	151.1
40°	225.4	228.9	231.0	223.3	216.8	206.8	197.9	180.0	160.2	154.8	143.7
42.5°	220.7	224.0	224.9	216.5	206.5	197.0	184.2	161.6	155.8	147.9	117.8
45°	209.1	213.0	210.7	202.6	195.1	185.1	166.0	156.2	149.9	117.1	72.4
47.5°	156.9	161.4	167.6	170.0	172.5	165.3	154.8	151.3	123.2	71.0	22.6
50°	138.8	138.1	138.1	139.2	141.3	143.7	146.7	127.6	74.0	22.1	0.0
52.5°	56.6	59.4	73.1	85.5	99.7	113.9	118.3	78.2	28.9	0.5	0.0
55°	7.0	7.0	9.8	16.8	27.7	44.7	50.3	25.1	2.1	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	1.9	5.1	3.5	0.9	0.2	0.2	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.2	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P1312996

CATALOG NUMBER: P3SQAS02R709730DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
2.5°	80.1	77.3	73.3	61.7	51.7	42.8	37.7	35.2
5°	102.5	95.7	86.6	61.5	41.9	27.9	21.0	18.4
7.5°	123.9	116.2	100.8	60.5	32.1	16.3	9.1	7.2
10°	133.2	127.6	113.9	59.1	23.3	7.7	7.7	7.9
12.5°	136.9	132.7	121.5	57.0	15.4	7.5	7.9	7.5
15°	139.5	135.5	125.3	54.7	8.8	7.7	6.3	5.6
17.5°	140.9	136.2	126.4	50.3	5.8	6.5	4.0	3.3
20°	145.3	137.8	127.4	45.2	5.6	4.4	2.1	1.6
22.5°	152.7	141.1	127.6	38.9	4.4	2.6	0.7	0.0
25°	159.5	145.5	128.3	30.7	1.4	0.7	0.0	0.0
27.5°	162.8	146.9	128.1	21.7	0.0	0.0	0.0	0.0
30°	158.8	143.4	126.0	13.5	0.0	0.0	0.0	0.0
32.5°	149.5	140.9	119.4	5.8	0.0	0.0	0.0	0.0
35°	146.5	135.3	104.5	0.7	0.0	0.0	0.0	0.0
37.5°	139.7	119.2	76.8	0.0	0.0	0.0	0.0	0.0
40°	120.1	86.2	36.6	0.0	0.0	0.0	0.0	0.0
42.5°	79.4	36.8	2.1	0.0	0.0	0.0	0.0	0.0
45°	27.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0
67.5°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
70°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
72.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
75°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
77.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
87.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)