

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: P1312024

Luminaire Tested: P3SQAS02R709727DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312024
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: P3SQAS02R709727DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

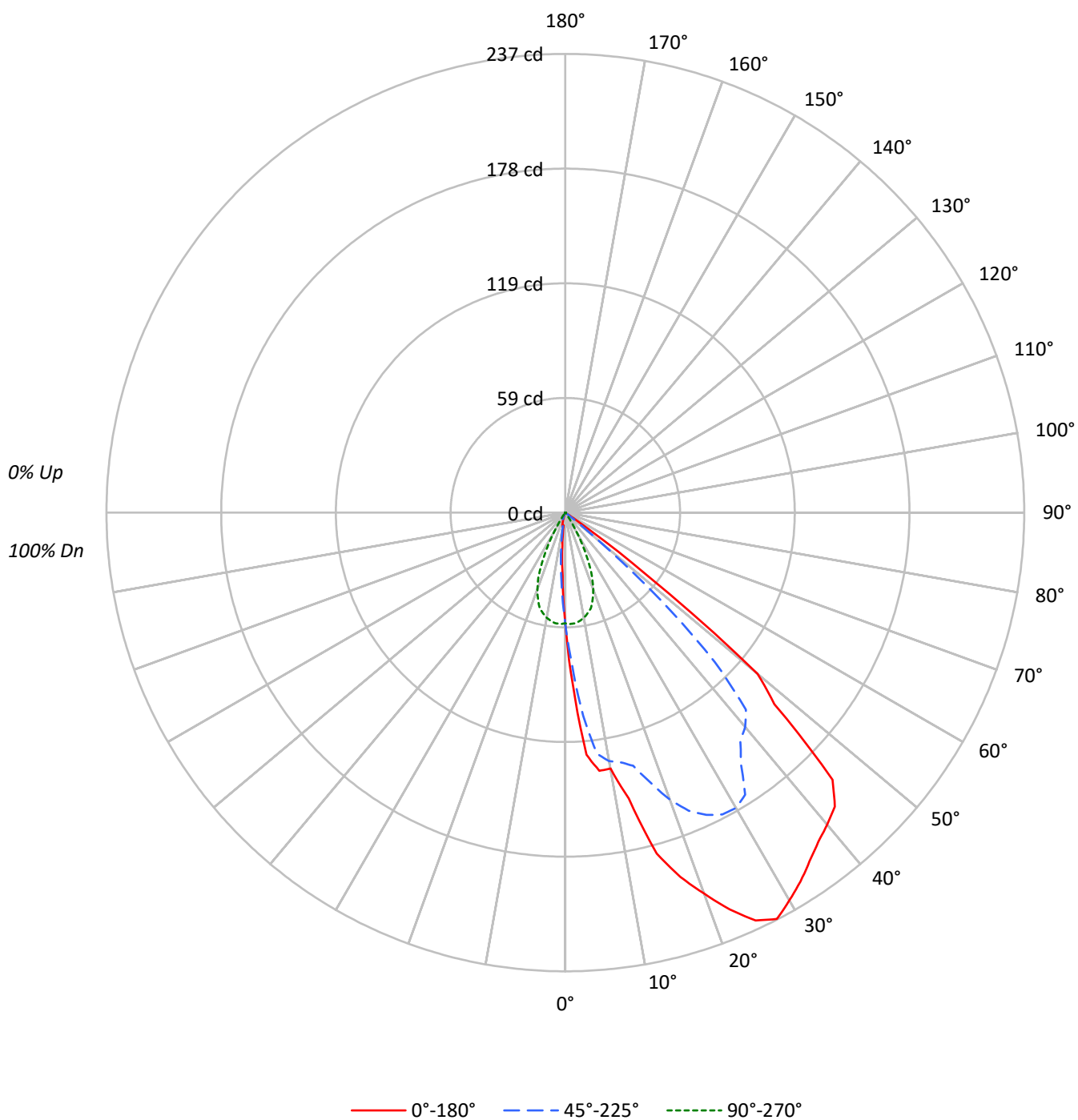
Lumens per Lamp: N/A
Luminaire Lumens: 154.0 lumens
Efficiency: N/A
Efficacy: 42.8 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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	77	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	69	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°	9851	9851	9851	9851	9851
5°	21714	18222	9923	4512	2974
10°	23486	22804	9653	1259	1294
15°	32504	24142	9111	1284	927
20°	38396	28921	7734	751	275
25°	44181	32742	5454	133	0
30°	46017	35040	2506	0	0
35°	46233	33219	147	0	0
40°	47302	32487	0	0	0
45°	47543	26621	0	0	0
50°	34697	5519	0	0	0
55°	1952	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: 48420 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	4.1
10°-20°	20.9	13.6
20°-30°	37.5	24.4
30°-40°	45.6	29.6
40°-50°	35.2	22.9
50°-60°	8.2	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°	64.7	42.0
0°-40°	110.3	71.6
0°-60°	153.7	99.8
0°-90°	154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	154.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	57	57	57	57	57	
5°	126	105	57	26	17	12
15°	182	135	51	7	5	51
25°	232	172	29	1	0	106
35°	220	158	1	0	0	138
45°	195	109	0	0	0	138
55°	6	0	0	0	0	27
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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
2.5°	89.1	89.1	89.5	89.3	87.4	86.5	83.7	82.1	81.7	78.2	76.9
5°	125.6	125.8	124.7	124.5	122.4	120.8	118.4	114.7	111.0	105.4	100.4
7.5°	134.5	134.3	134.1	134.1	133.7	132.8	131.7	130.6	129.1	125.6	121.7
10°	134.3	134.3	134.1	134.1	133.9	134.1	133.9	133.2	132.6	130.4	128.2
12.5°	151.3	149.9	148.2	145.6	141.3	138.0	134.3	133.2	132.8	132.1	130.8
15°	182.3	181.2	177.5	173.0	168.6	161.3	155.4	147.3	141.0	135.4	132.6
17.5°	197.3	198.0	193.8	191.0	186.9	181.0	174.1	165.8	156.9	146.3	137.8
20°	209.5	210.1	206.7	203.8	199.1	193.0	186.9	178.0	169.5	157.8	146.7
22.5°	221.9	222.3	219.1	214.9	209.5	203.2	195.4	186.2	177.1	166.7	154.9
25°	232.5	232.1	226.7	220.8	215.6	208.8	201.2	192.3	183.6	172.3	161.3
27.5°	236.7	236.4	230.4	224.7	218.6	209.5	202.8	194.9	185.8	175.8	164.5
30°	231.4	234.9	231.0	226.9	219.5	210.4	203.8	194.5	186.0	176.2	163.4
32.5°	226.0	230.4	229.1	227.1	218.4	211.2	202.8	194.1	184.1	172.8	153.2
35°	219.9	224.5	224.7	222.5	214.7	207.5	199.7	190.6	179.3	158.0	143.6
37.5°	214.5	218.8	220.1	215.6	209.5	199.9	192.8	183.2	162.8	148.4	141.0
40°	210.4	213.6	215.6	208.4	202.3	193.0	184.7	168.0	149.5	144.5	134.1
42.5°	206.0	209.1	209.9	202.1	192.8	183.9	171.9	150.8	145.4	138.0	110.0
45°	195.2	198.8	196.7	189.1	182.1	172.8	154.9	145.8	140.0	109.3	67.6
47.5°	146.5	150.6	156.5	158.6	161.0	154.3	144.5	141.3	115.0	66.3	21.1
50°	129.5	128.9	128.9	130.0	131.9	134.1	136.9	119.1	69.1	20.6	0.0
52.5°	52.8	55.4	68.2	79.8	93.0	106.3	110.4	73.0	26.9	0.4	0.0
55°	6.5	6.5	9.1	15.6	25.9	41.7	46.9	23.5	2.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	1.7	4.8	3.3	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

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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
2.5°	74.8	72.1	68.5	57.6	48.2	40.0	35.2	32.8
5°	95.6	89.3	80.8	57.4	39.1	26.1	19.6	17.2
7.5°	115.6	108.4	94.1	56.5	30.0	15.2	8.5	6.7
10°	124.3	119.1	106.3	55.2	21.7	7.2	7.2	7.4
12.5°	127.8	123.9	113.4	53.2	14.3	7.0	7.4	7.0
15°	130.2	126.5	116.9	51.1	8.3	7.2	5.9	5.2
17.5°	131.5	127.1	118.0	46.9	5.4	6.1	3.7	3.0
20°	135.6	128.7	118.9	42.2	5.2	4.1	2.0	1.5
22.5°	142.6	131.7	119.1	36.3	4.1	2.4	0.7	0.0
25°	148.9	135.8	119.7	28.7	1.3	0.7	0.0	0.0
27.5°	151.9	137.1	119.5	20.2	0.0	0.0	0.0	0.0
30°	148.2	133.9	117.6	12.6	0.0	0.0	0.0	0.0
32.5°	139.5	131.5	111.5	5.4	0.0	0.0	0.0	0.0
35°	136.7	126.3	97.6	0.7	0.0	0.0	0.0	0.0
37.5°	130.4	111.3	71.7	0.0	0.0	0.0	0.0	0.0
40°	112.1	80.4	34.1	0.0	0.0	0.0	0.0	0.0
42.5°	74.1	34.3	2.0	0.0	0.0	0.0	0.0	0.0
45°	26.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.4	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)