

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: P1313971

Luminaire Tested: P3SQAS02R709735DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R709735DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

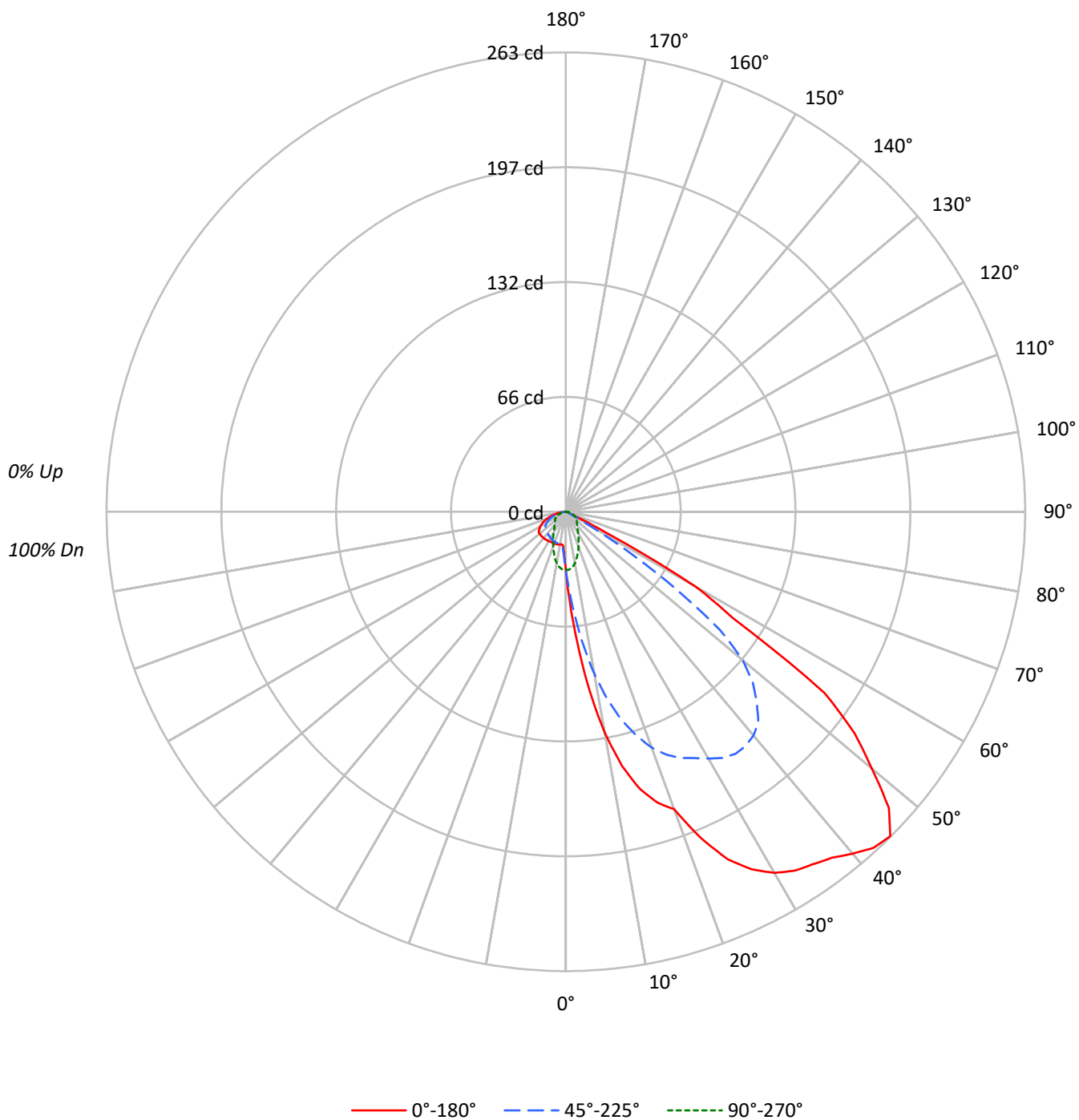
Lumens per Lamp: N/A
Luminaire Lumens: 227.0 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	64	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54	54	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47	47	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41	41	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35	35	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	31	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5701	5701	5701	5701	5701
5°	12966	10373	5636	3561	3337
10°	22455	16474	5229	3253	3323
15°	29312	22002	4564	3316	3441
20°	33210	26318	3904	3354	3574
25°	41711	29530	3268	3401	3668
30°	47469	32435	2784	3460	3878
35°	51804	35573	2439	3532	4100
40°	57442	37568	2248	3665	4429
45°	63983	37630	2216	3873	4798
50°	61276	35367	2197	4073	5225
55°	54257	22910	2252	4294	5645
60°	29726	4926	2273	4374	5856
65°	2119	1182	2201	4320	5909
70°	1007	1158	2065	4129	5690
75°	932	1198	1930	3926	5257
80°	893	1091	1785	3570	4959
85°	988	1383	1778	3162	4545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 63983 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	1.9
10°-20°	18.4	8.1
20°-30°	35.4	15.6
30°-40°	50.1	22.0
40°-50°	56.6	24.9
50°-60°	44.8	19.8
60°-70°	12.1	5.3
70°-80°	4.0	1.8
80°-90°	1.2	0.5
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°	58.2	25.6
0°-40°	108.2	47.7
0°-60°	209.7	92.4
0°-90°	227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	227.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	75	60	33	21	19	9
15°	164	123	26	19	19	46
25°	220	155	17	18	19	101
35°	246	169	12	17	20	155
45°	263	154	9	16	20	197
55°	181	76	8	14	19	147
65°	5	3	5	11	14	19
75°	1	2	3	6	8	1
85°	0	1	1	2	2	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
2.5°	51.4	51.4	51.2	50.3	49.8	48.7	47.8	45.3	39.2	33.3	28.5
5°	75.0	76.1	74.5	74.3	72.9	70.9	69.5	60.0	45.3	32.6	24.5
7.5°	102.8	103.3	102.8	100.6	98.5	95.1	92.0	77.0	51.4	31.5	21.5
10°	128.4	127.7	126.4	124.8	121.8	118.2	112.8	94.2	57.3	29.9	19.7
12.5°	149.2	149.0	147.4	145.9	142.2	137.5	132.0	109.8	62.3	27.9	18.8
15°	164.4	164.4	162.8	161.0	157.6	153.8	147.7	123.4	66.4	25.6	17.9
17.5°	174.6	174.2	173.0	171.7	169.0	165.1	160.3	134.3	69.1	23.3	17.7
20°	181.2	181.0	180.1	178.0	175.7	172.8	168.5	143.6	70.2	21.3	17.4
22.5°	202.2	200.4	197.0	192.7	187.3	180.3	174.4	150.6	69.8	19.0	17.0
25°	219.5	218.8	215.2	209.9	202.7	193.6	183.9	155.4	67.5	17.2	16.5
27.5°	230.8	229.6	226.3	220.6	212.9	204.1	195.0	159.0	64.3	15.6	15.9
30°	238.7	238.0	234.6	228.3	220.4	210.6	201.3	163.1	60.0	14.0	15.2
32.5°	243.7	243.0	239.6	234.0	226.3	216.1	205.4	167.1	54.8	12.7	14.5
35°	246.4	245.7	241.9	236.9	229.6	219.7	208.4	169.2	48.5	11.6	13.8
37.5°	249.8	248.4	243.2	237.1	229.9	220.6	209.3	169.0	42.1	10.6	13.4
40°	255.5	251.8	244.4	236.2	228.7	219.5	208.6	167.1	35.1	10.0	12.9
42.5°	260.9	255.7	244.6	234.9	226.5	217.4	206.1	163.1	27.4	9.5	12.7
45°	262.7	255.0	241.4	231.7	223.8	214.5	202.7	154.5	18.6	9.1	12.2
47.5°	250.7	245.0	233.7	226.5	219.0	209.9	197.7	145.4	10.6	8.6	11.8
50°	228.7	225.1	218.8	214.2	210.2	203.8	191.8	132.0	6.3	8.2	11.3
52.5°	208.4	207.2	202.7	199.1	196.8	193.9	183.0	111.4	5.2	7.9	10.9
55°	180.7	177.1	176.0	174.6	179.4	179.1	164.4	76.3	5.0	7.5	10.4
57.5°	113.5	115.1	120.9	131.8	144.7	152.2	151.7	40.8	4.8	7.0	9.7
60°	86.3	86.1	87.9	92.4	101.9	112.6	122.5	14.3	4.5	6.6	9.3
62.5°	25.8	26.5	31.9	46.9	56.2	69.3	63.2	3.4	4.3	5.9	8.4
65°	5.2	5.4	5.4	6.1	7.5	11.3	13.8	2.9	4.1	5.4	7.7
67.5°	2.3	2.3	2.3	2.5	2.5	2.9	2.5	2.7	3.6	4.8	6.8
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.3	3.2	4.1	5.9
72.5°	1.6	1.6	1.6	1.8	1.8	1.8	1.8	2.0	2.7	3.4	5.0
75°	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.8	2.3	2.9	4.1
77.5°	1.1	1.1	1.1	1.1	1.1	1.4	1.4	1.4	1.8	2.3	3.4
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.4	1.8	2.5
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.1	1.4	1.8
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.9	1.1
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.7
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):

	135°	157.5°	180°
0°	33.1	33.1	33.1
2.5°	25.1	23.8	23.1
5°	20.6	19.5	19.3
7.5°	19.0	18.8	18.8
10°	18.6	18.8	19.0
12.5°	18.6	19.0	19.3
15°	18.6	19.0	19.3
17.5°	18.6	19.0	19.3
20°	18.3	19.0	19.5
22.5°	18.1	19.0	19.3
25°	17.9	19.0	19.3
27.5°	17.7	18.8	19.3
30°	17.4	18.8	19.5
32.5°	17.0	18.8	19.5
35°	16.8	18.8	19.5
37.5°	16.5	18.8	19.7
40°	16.3	18.8	19.7
42.5°	16.1	18.8	19.7
45°	15.9	18.6	19.7
47.5°	15.4	18.6	19.7
50°	15.2	18.3	19.5
52.5°	14.7	18.1	19.5
55°	14.3	17.7	18.8
57.5°	13.6	17.0	17.9
60°	12.7	16.1	17.0
62.5°	11.6	14.9	15.6
65°	10.6	13.6	14.5
67.5°	9.3	12.0	12.9
70°	8.2	10.4	11.3
72.5°	7.0	8.8	9.7
75°	5.9	7.2	7.9
77.5°	4.5	5.9	6.3
80°	3.6	4.5	5.0
82.5°	2.5	3.2	3.4
85°	1.6	2.0	2.3
87.5°	0.7	0.9	0.9
90°	0.0	0.0	0.0

(END OF REPORT)