

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: P1312968

Luminaire Tested: P3SQAS02R509730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R509730DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

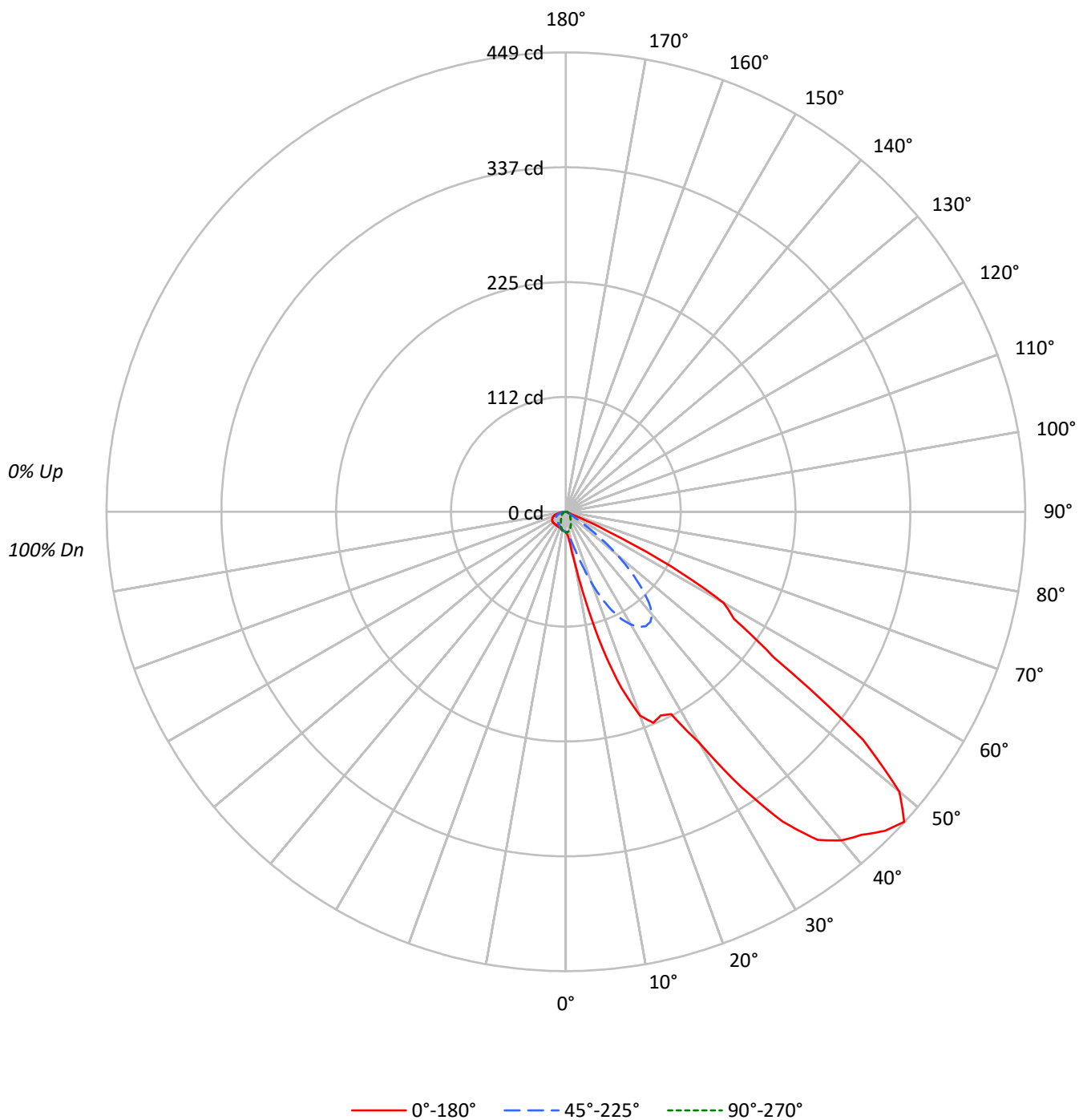
Lumens per Lamp: N/A
Luminaire Lumens: 253.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3462	3462	3462	3462	3462
5°	4115	3855	3440	3285	3250
10°	8866	4774	3288	3165	3218
15°	24552	7827	2960	3031	3156
20°	38818	13746	2566	2932	3079
25°	41730	20181	2204	2831	3116
30°	51804	25335	1909	2784	3222
35°	77728	28677	1661	2796	3406
40°	94290	29474	1484	2900	3597
45°	107410	25281	1437	3093	3946
50°	114005	17442	1474	3349	4394
55°	74465	7026	1441	3603	4864
60°	61415	1206	1447	3927	5339
65°	18542	611	1345	4197	5868
70°	755	655	1309	4280	6395
75°	732	732	1331	4392	6987
80°	694	694	1289	4364	7141
85°	395	790	1778	4347	6916

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 114358 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.8
10°-20°	12.0	4.7
20°-30°	30.8	12.2
30°-40°	55.3	21.9
40°-50°	73.9	29.2
50°-60°	56.3	22.2
60°-70°	17.1	6.7
70°-80°	4.1	1.6
80°-90°	1.5	0.6
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°	44.9	17.7
0°-40°	100.2	39.6
0°-60°	230.4	91.1
0°-90°	253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	253.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	24	22	20	19	19	3
15°	138	44	17	17	18	41
25°	220	106	12	15	16	105
35°	370	136	8	13	16	227
45°	441	104	6	13	16	337
55°	248	23	5	12	16	247
65°	46	2	3	10	14	63
75°	1	1	2	7	10	1
85°	0	0	1	2	4	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
2.5°	21.4	21.4	21.4	21.4	21.4	21.4	21.2	21.2	21.2	20.8	20.3
5°	23.8	24.0	23.8	23.8	23.4	23.4	22.9	22.9	22.3	21.0	19.9
7.5°	31.2	31.0	30.8	29.9	29.3	27.8	27.1	26.0	24.0	21.0	19.4
10°	50.7	49.4	48.5	46.5	42.4	39.8	36.3	32.8	27.3	21.0	18.8
12.5°	88.1	87.8	85.2	78.7	72.8	64.7	56.2	47.6	33.7	20.5	17.9
15°	137.7	135.7	132.0	124.3	113.9	101.2	85.9	70.8	43.9	19.9	16.6
17.5°	180.1	177.7	174.8	167.2	155.2	139.2	120.8	100.1	57.9	19.0	15.3
20°	211.8	210.2	207.8	201.7	190.3	175.9	155.4	130.2	75.0	17.9	14.0
22.5°	223.3	223.1	223.6	221.4	215.7	204.3	184.7	158.4	91.8	16.6	12.7
25°	219.6	219.4	222.2	225.1	226.4	221.8	206.7	181.2	106.2	15.5	11.6
27.5°	223.1	222.5	221.1	221.6	225.3	227.9	220.9	198.6	118.7	14.0	10.5
30°	260.5	256.8	250.9	240.8	233.4	232.7	229.7	212.4	127.4	12.5	9.6
32.5°	318.8	314.2	303.5	285.0	267.3	253.7	244.1	224.0	133.5	10.9	8.5
35°	369.7	366.5	354.0	335.7	310.3	285.0	267.5	241.0	136.4	9.6	7.9
37.5°	404.3	403.0	390.7	371.1	345.3	315.3	292.2	258.5	135.7	8.1	7.2
40°	419.4	415.4	405.1	388.5	362.5	335.7	311.2	269.7	131.1	6.6	6.6
42.5°	428.3	423.9	412.8	397.1	371.5	342.9	313.4	264.9	120.2	5.2	6.3
45°	441.0	436.4	421.8	404.9	379.1	345.9	304.8	247.8	103.8	3.9	5.9
47.5°	448.6	445.6	434.6	417.8	386.6	341.6	285.2	231.9	85.7	3.1	5.7
50°	425.5	422.4	414.3	402.7	381.8	326.9	267.9	206.1	65.1	2.4	5.5
52.5°	366.2	368.9	370.4	373.7	358.4	294.1	242.1	185.5	43.9	2.0	5.0
55°	248.0	252.0	256.3	269.4	287.4	261.8	215.0	160.4	23.4	2.0	4.8
57.5°	194.9	193.6	192.3	191.4	205.4	215.9	189.0	128.3	10.1	2.0	4.4
60°	178.3	174.4	171.8	172.4	179.4	175.3	149.7	83.7	3.5	2.0	4.2
62.5°	116.9	120.0	125.9	135.9	131.1	112.5	87.0	33.2	1.7	2.0	3.7
65°	45.5	43.9	45.5	48.3	41.7	31.0	19.4	5.9	1.5	1.7	3.3
67.5°	6.1	5.5	4.2	2.6	2.4	2.2	1.7	1.5	1.5	1.7	3.1
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.5	2.6
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.5	2.2
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	2.0
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.5
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.3
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.9	1.1
85°	0.2	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.9
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.7	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):

	112.5°	135°	157.5°	180°
0°	20.1	20.1	20.1	20.1
2.5°	19.9	19.4	19.4	19.4
5°	19.4	19.0	19.0	18.8
7.5°	18.8	18.6	18.6	18.6
10°	18.4	18.1	18.4	18.4
12.5°	17.5	17.7	17.9	17.9
15°	16.6	17.0	17.5	17.7
17.5°	15.7	16.6	17.0	17.3
20°	14.9	16.0	16.6	16.8
22.5°	14.2	15.3	16.2	16.6
25°	13.3	14.9	16.0	16.4
27.5°	12.5	14.2	15.5	16.2
30°	11.8	14.0	15.5	16.2
32.5°	11.1	13.5	15.3	16.0
35°	10.7	13.3	15.3	16.2
37.5°	10.3	13.1	15.3	16.0
40°	10.1	12.9	15.3	16.0
42.5°	9.8	12.9	15.3	16.2
45°	9.4	12.7	15.3	16.2
47.5°	9.2	12.7	15.3	16.2
50°	9.0	12.5	15.3	16.4
52.5°	8.7	12.2	15.3	16.4
55°	8.3	12.0	15.1	16.2
57.5°	8.1	11.8	14.9	15.7
60°	7.6	11.4	14.4	15.5
62.5°	7.2	10.9	14.0	14.9
65°	6.6	10.3	13.3	14.4
67.5°	5.9	9.4	12.7	13.8
70°	5.2	8.5	11.8	12.7
72.5°	4.6	7.6	10.9	11.6
75°	3.9	6.6	9.6	10.5
77.5°	3.3	5.7	8.1	8.7
80°	2.4	4.4	6.6	7.2
82.5°	2.0	3.3	4.8	5.2
85°	1.3	2.2	3.1	3.5
87.5°	0.7	1.1	1.5	1.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)