

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: P1315854

Luminaire Tested: P3SQAS02R509827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315854
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: P3SQAS02R509827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

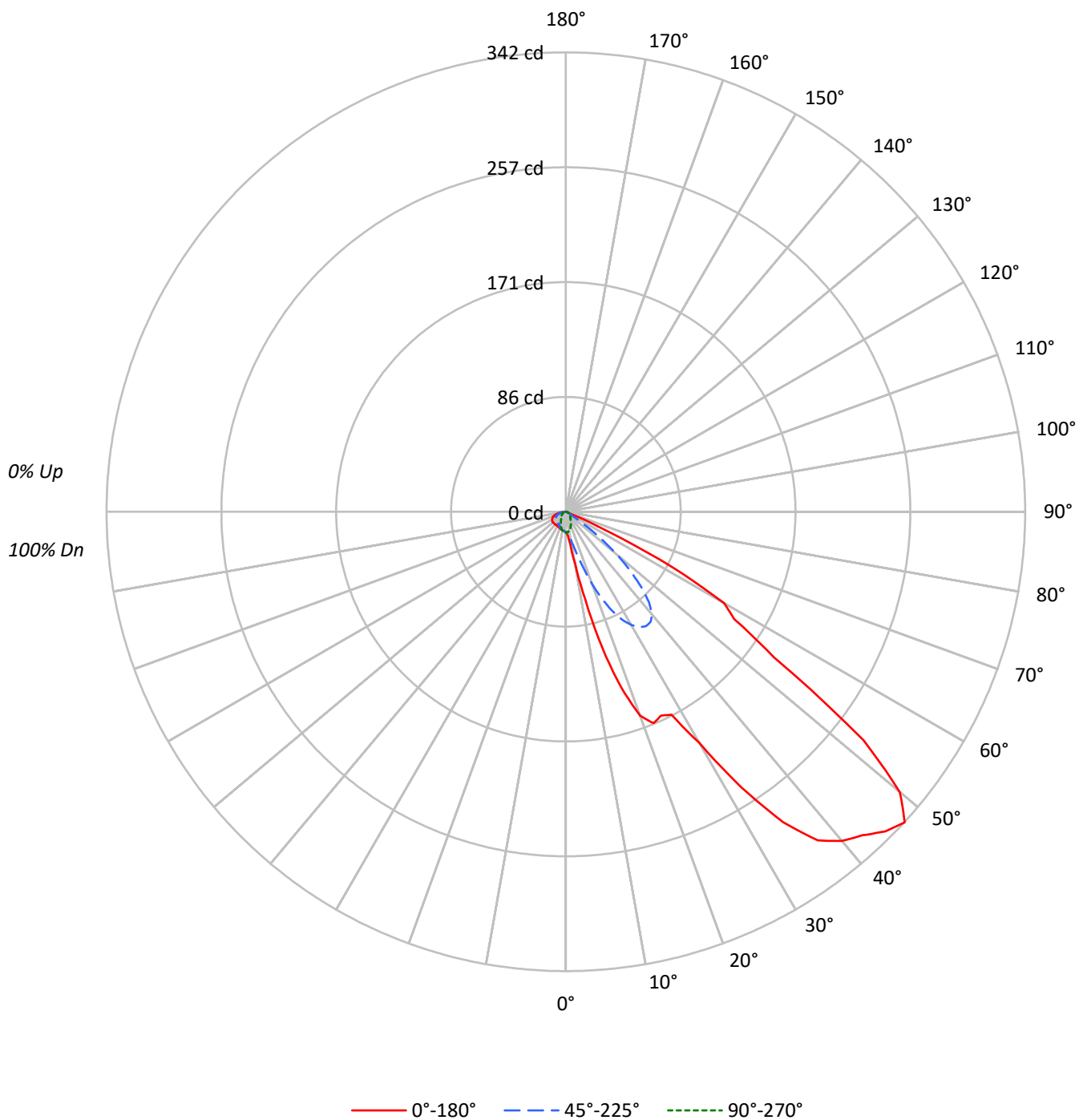
Lumens per Lamp: N/A
Luminaire Lumens: 193.0 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	56	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°	2635	2635	2635	2635	2635
5°	3146	2939	2628	2507	2472
10°	6768	3637	2501	2413	2448
15°	18721	5973	2264	2318	2407
20°	29599	10483	1961	2236	2346
25°	31829	15392	1672	2147	2375
30°	39515	19330	1452	2128	2446
35°	59310	21865	1261	2144	2586
40°	71920	22482	1124	2203	2743
45°	81933	19290	1096	2363	2996
50°	86970	13316	1125	2545	3349
55°	56809	5345	1111	2762	3693
60°	46845	930	1102	2997	4064
65°	14141	489	1019	3179	4483
70°	604	504	1007	3273	4884
75°	532	532	998	3327	5323
80°	496	496	992	3273	5455
85°	395	593	1383	3359	5335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 87234 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.8
10°-20°	9.1	4.7
20°-30°	23.5	12.2
30°-40°	42.2	21.9
40°-50°	56.4	29.2
50°-60°	42.9	22.2
60°-70°	13.0	6.8
70°-80°	3.1	1.6
80°-90°	1.1	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°	34.2	17.7
0°-40°	76.4	39.6
0°-60°	175.7	91.1
0°-90°	193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	193.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	18	17	15	14	14	2
15°	105	34	13	13	14	31
25°	168	81	9	11	12	80
35°	282	104	6	10	12	173
45°	336	79	4	10	12	257
55°	189	18	4	9	12	188
65°	35	1	2	8	11	48
75°	1	1	2	5	8	1
85°	0	0	1	2	3	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°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
2.5°	16.3	16.3	16.3	16.3	16.3	16.3	16.2	16.2	16.2	15.8	15.5
5°	18.2	18.3	18.2	18.2	17.8	17.8	17.5	17.5	17.0	16.0	15.2
7.5°	23.8	23.7	23.5	22.8	22.3	21.2	20.7	19.8	18.3	16.0	14.8
10°	38.7	37.7	37.0	35.5	32.3	30.3	27.7	25.0	20.8	16.0	14.3
12.5°	67.2	67.0	65.0	60.0	55.5	49.3	42.8	36.3	25.7	15.7	13.7
15°	105.0	103.5	100.7	94.9	86.9	77.2	65.5	54.0	33.5	15.2	12.7
17.5°	137.4	135.5	133.4	127.5	118.4	106.2	92.2	76.3	44.2	14.5	11.7
20°	161.5	160.4	158.5	153.9	145.2	134.2	118.5	99.4	57.2	13.7	10.7
22.5°	170.4	170.2	170.5	168.9	164.5	155.9	140.9	120.9	70.0	12.7	9.7
25°	167.5	167.4	169.5	171.7	172.7	169.2	157.7	138.2	81.0	11.8	8.8
27.5°	170.2	169.7	168.7	169.0	171.9	173.9	168.5	151.5	90.5	10.7	8.0
30°	198.7	195.9	191.4	183.7	178.0	177.5	175.2	162.0	97.2	9.5	7.3
32.5°	243.2	239.7	231.5	217.4	203.9	193.5	186.2	170.9	101.9	8.3	6.5
35°	282.1	279.6	270.1	256.1	236.7	217.4	204.0	183.9	104.0	7.3	6.0
37.5°	308.4	307.4	298.1	283.1	263.4	240.6	222.9	197.2	103.5	6.2	5.5
40°	319.9	316.9	309.1	296.4	276.6	256.1	237.4	205.7	100.0	5.0	5.0
42.5°	326.7	323.4	314.9	302.9	283.4	261.6	239.1	202.0	91.7	4.0	4.8
45°	336.4	332.9	321.7	308.9	289.2	263.9	232.5	189.0	79.2	3.0	4.5
47.5°	342.2	339.9	331.6	318.7	294.9	260.6	217.5	176.9	65.3	2.3	4.3
50°	324.6	322.2	316.1	307.2	291.2	249.4	204.4	157.2	49.7	1.8	4.2
52.5°	279.4	281.4	282.6	285.1	273.4	224.4	184.7	141.5	33.5	1.5	3.8
55°	189.2	192.2	195.5	205.5	219.2	199.7	164.0	122.4	17.8	1.5	3.7
57.5°	148.7	147.7	146.7	146.0	156.7	164.7	144.2	97.9	7.7	1.5	3.3
60°	136.0	133.0	131.0	131.5	136.9	133.7	114.2	63.8	2.7	1.5	3.2
62.5°	89.2	91.5	96.0	103.7	100.0	85.9	66.3	25.3	1.3	1.5	2.8
65°	34.7	33.5	34.7	36.8	31.8	23.7	14.8	4.5	1.2	1.3	2.5
67.5°	4.7	4.2	3.2	2.0	1.8	1.7	1.3	1.2	1.2	1.3	2.3
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.2	2.0
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.7
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.5
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	1.2
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	1.0
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.7	0.8
85°	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	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

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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	15.3	15.3	15.3	15.3
2.5°	15.2	14.8	14.8	14.8
5°	14.8	14.5	14.5	14.3
7.5°	14.3	14.2	14.2	14.2
10°	14.0	13.8	14.0	14.0
12.5°	13.3	13.5	13.7	13.7
15°	12.7	13.0	13.3	13.5
17.5°	12.0	12.7	13.0	13.2
20°	11.3	12.2	12.7	12.8
22.5°	10.8	11.7	12.3	12.7
25°	10.2	11.3	12.2	12.5
27.5°	9.5	10.8	11.8	12.3
30°	9.0	10.7	11.8	12.3
32.5°	8.5	10.3	11.7	12.2
35°	8.2	10.2	11.7	12.3
37.5°	7.8	10.0	11.7	12.2
40°	7.7	9.8	11.7	12.2
42.5°	7.5	9.8	11.7	12.3
45°	7.2	9.7	11.7	12.3
47.5°	7.0	9.7	11.7	12.3
50°	6.8	9.5	11.7	12.5
52.5°	6.7	9.3	11.7	12.5
55°	6.3	9.2	11.5	12.3
57.5°	6.2	9.0	11.3	12.0
60°	5.8	8.7	11.0	11.8
62.5°	5.5	8.3	10.7	11.3
65°	5.0	7.8	10.2	11.0
67.5°	4.5	7.2	9.7	10.5
70°	4.0	6.5	9.0	9.7
72.5°	3.5	5.8	8.3	8.8
75°	3.0	5.0	7.3	8.0
77.5°	2.5	4.3	6.2	6.7
80°	1.8	3.3	5.0	5.5
82.5°	1.5	2.5	3.7	4.0
85°	1.0	1.7	2.3	2.7
87.5°	0.5	0.8	1.2	1.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)