

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: P1317929

Luminaire Tested: P3SQAS09R709835DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317929
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: P3SQAS09R709835DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

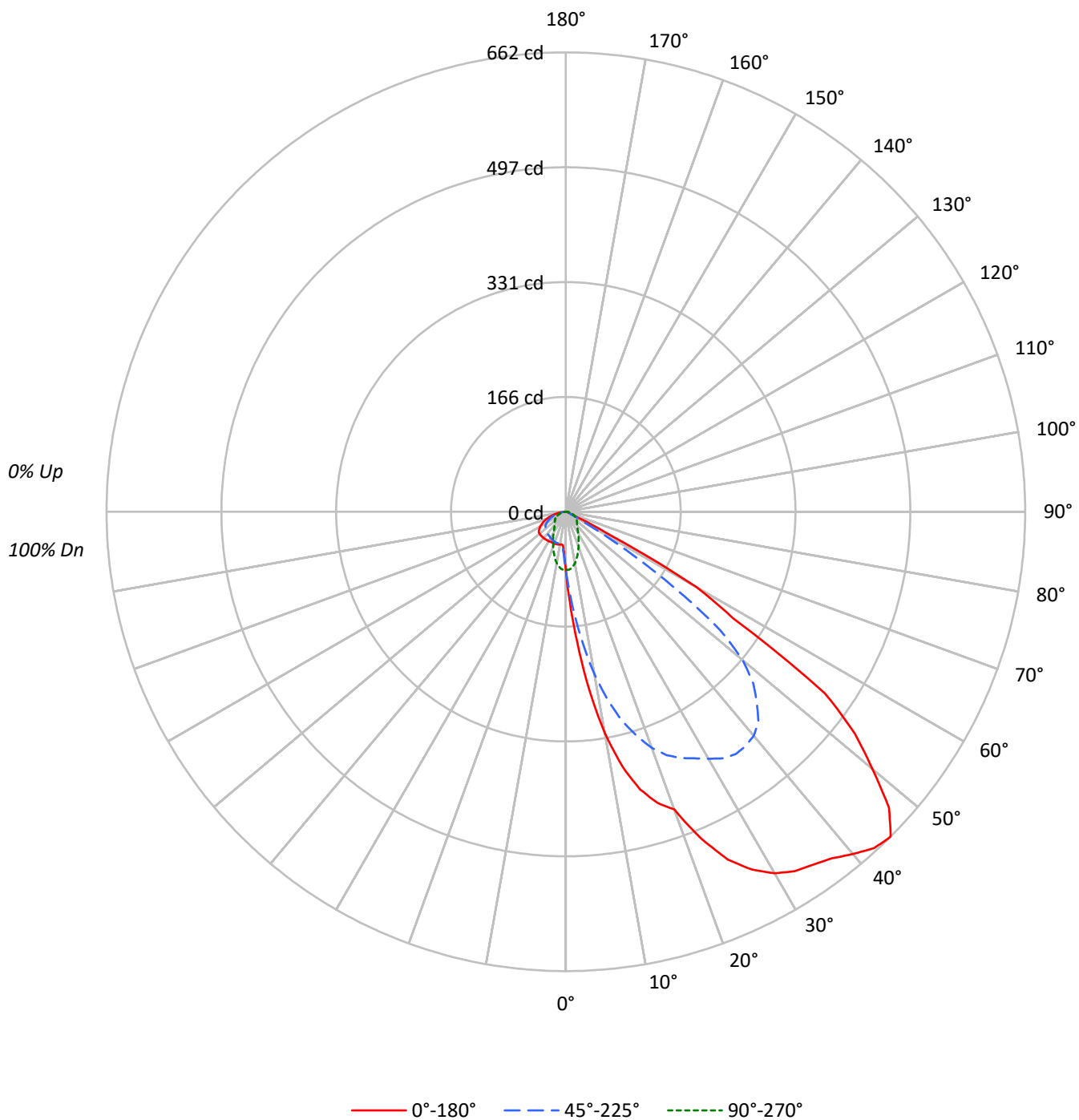
Lumens per Lamp: N/A
Luminaire Lumens: 572.0 lumens
Efficiency: N/A
Efficacy: 52.0 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75		
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54		
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31		
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28		
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14346	14346	14346	14346	14346
5°	32657	26140	14211	8972	8385
10°	56591	41516	13168	8184	8377
15°	73869	55451	11500	8344	8647
20°	83665	66309	9824	8467	8999
25°	105085	74395	8247	8570	9216
30°	119618	81714	7040	8730	9764
35°	130541	89627	6118	8872	10323
40°	144717	94694	5643	9240	11151
45°	161236	94793	5553	9718	12081
50°	154435	89141	5493	10235	13155
55°	136739	57740	5645	10809	14232
60°	74882	12400	5683	11022	14742
65°	5338	3016	5583	10921	14874
70°	2568	2870	5187	10323	14351
75°	2262	3061	4924	9848	13308
80°	2281	2876	4562	9025	12497
85°	2174	3359	4545	7904	11263

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 161236 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	1.9
10°-20°	46.5	8.1
20°-30°	89.2	15.6
30°-40°	126.1	22.0
40°-50°	142.7	24.9
50°-60°	113.0	19.8
60°-70°	30.5	5.3
70°-80°	10.1	1.8
80°-90°	3.1	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°	146.5	25.6
0°-40°	272.7	47.7
0°-60°	528.3	92.4
0°-90°	572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	572.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	83	83	83	83	83	
5°	189	151	82	52	48	22
15°	414	311	64	47	48	117
25°	553	392	43	45	48	253
35°	621	426	29	42	49	391
45°	662	389	23	40	50	495
55°	455	192	19	36	47	370
65°	13	7	14	27	36	47
75°	3	5	7	15	20	4
85°	1	2	2	4	6	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°	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
2.5°	129.5	129.5	129.0	126.7	125.6	122.7	120.4	114.1	98.7	83.9	71.9
5°	188.9	191.8	187.8	187.2	183.8	178.6	175.2	151.2	114.1	82.2	61.6
7.5°	259.1	260.2	259.1	253.4	248.2	239.7	231.7	194.0	129.5	79.3	54.2
10°	323.6	321.9	318.4	314.4	307.0	297.9	284.2	237.4	144.4	75.3	49.6
12.5°	376.1	375.5	371.5	367.5	358.4	346.4	332.7	276.8	156.9	70.2	47.4
15°	414.3	414.3	410.3	405.8	397.2	387.5	372.1	311.0	167.2	64.5	45.1
17.5°	440.0	438.9	436.0	432.6	425.7	416.0	404.0	338.4	174.1	58.8	44.5
20°	456.5	456.0	453.7	448.6	442.9	435.4	424.6	361.8	176.9	53.6	43.9
22.5°	509.6	505.1	496.5	485.7	472.0	454.3	439.4	379.5	175.8	47.9	42.8
25°	553.0	551.3	542.2	529.0	510.8	487.9	463.4	391.5	170.1	43.4	41.7
27.5°	581.5	578.7	570.1	555.8	536.4	514.2	491.4	400.6	162.1	39.4	39.9
30°	601.5	599.8	591.2	575.3	555.3	530.7	507.3	410.9	151.2	35.4	38.2
32.5°	614.1	612.3	603.8	589.5	570.1	544.4	517.6	421.2	138.1	32.0	36.5
35°	620.9	619.2	609.5	596.9	578.7	553.6	525.0	426.3	122.1	29.1	34.8
37.5°	629.5	626.0	612.9	597.5	579.2	555.8	527.3	425.7	106.1	26.8	33.7
40°	643.7	634.6	615.8	595.2	576.4	553.0	525.6	421.2	88.5	25.1	32.5
42.5°	657.4	644.3	616.3	591.8	570.7	547.9	519.3	410.9	69.1	24.0	32.0
45°	662.0	642.6	608.4	583.8	563.8	540.4	510.8	389.2	46.8	22.8	30.8
47.5°	631.7	617.5	588.9	570.7	551.9	529.0	498.2	366.4	26.8	21.7	29.7
50°	576.4	567.3	551.3	539.9	529.6	513.6	483.4	332.7	16.0	20.5	28.5
52.5°	525.0	522.2	510.8	501.6	495.9	488.5	461.1	280.8	13.1	20.0	27.4
55°	455.4	446.3	443.4	440.0	452.0	451.4	414.3	192.3	12.6	18.8	26.3
57.5°	285.9	289.9	304.7	332.1	364.7	383.5	382.4	102.7	12.0	17.7	24.5
60°	217.4	216.9	221.4	232.8	256.8	283.6	308.7	36.0	11.4	16.5	23.4
62.5°	65.1	66.8	80.5	118.1	141.5	174.6	159.2	8.6	10.8	14.8	21.1
65°	13.1	13.7	13.7	15.4	18.8	28.5	34.8	7.4	10.3	13.7	19.4
67.5°	5.7	5.7	5.7	6.3	6.3	7.4	6.3	6.8	9.1	12.0	17.1
70°	5.1	5.1	5.1	5.1	5.1	5.1	5.7	5.7	8.0	10.3	14.8
72.5°	4.0	4.0	4.0	4.6	4.6	4.6	4.6	5.1	6.8	8.6	12.6
75°	3.4	3.4	3.4	3.4	4.0	4.0	4.0	4.6	5.7	7.4	10.3
77.5°	2.9	2.9	2.9	2.9	2.9	3.4	3.4	3.4	4.6	5.7	8.6
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9	3.4	4.6	6.3
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.9	3.4	4.6
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	2.3	2.9
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.7
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°	83.3	83.3	83.3
2.5°	63.3	59.9	58.2
5°	51.9	49.1	48.5
7.5°	47.9	47.4	47.4
10°	46.8	47.4	47.9
12.5°	46.8	47.9	48.5
15°	46.8	47.9	48.5
17.5°	46.8	47.9	48.5
20°	46.2	47.9	49.1
22.5°	45.7	47.9	48.5
25°	45.1	47.9	48.5
27.5°	44.5	47.4	48.5
30°	43.9	47.4	49.1
32.5°	42.8	47.4	49.1
35°	42.2	47.4	49.1
37.5°	41.7	47.4	49.6
40°	41.1	47.4	49.6
42.5°	40.5	47.4	49.6
45°	39.9	46.8	49.6
47.5°	38.8	46.8	49.6
50°	38.2	46.2	49.1
52.5°	37.1	45.7	49.1
55°	36.0	44.5	47.4
57.5°	34.2	42.8	45.1
60°	32.0	40.5	42.8
62.5°	29.1	37.7	39.4
65°	26.8	34.2	36.5
67.5°	23.4	30.2	32.5
70°	20.5	26.3	28.5
72.5°	17.7	22.3	24.5
75°	14.8	18.3	20.0
77.5°	11.4	14.8	16.0
80°	9.1	11.4	12.6
82.5°	6.3	8.0	8.6
85°	4.0	5.1	5.7
87.5°	1.7	2.3	2.3
90°	0.0	0.0	0.0

(END OF REPORT)