

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: P1313324

Luminaire Tested: P3SQAS09R709730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313324
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: P3SQAS09R709730DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

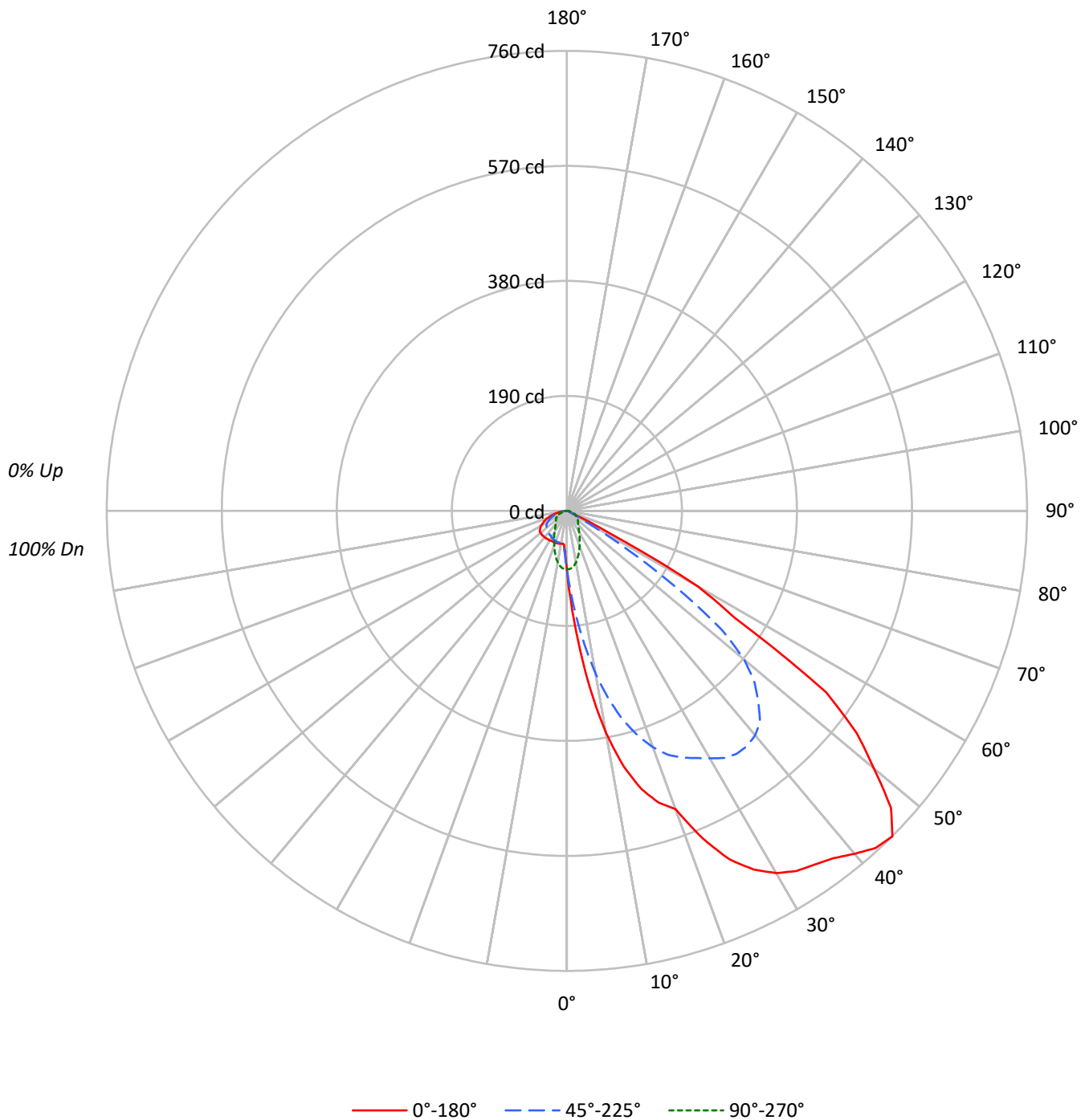
Lumens per Lamp: N/A
Luminaire Lumens: 657.0 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16482	16482	16482	16482	16482
5°	37515	30029	16320	10304	9629
10°	65003	47690	15127	9409	9636
15°	84852	63688	13212	9592	9931
20°	96110	76169	11290	9732	10337
25°	120705	85455	9463	9843	10584
30°	137396	93865	8074	10043	11216
35°	149947	102957	7022	10197	11858
40°	166232	108768	6475	10612	12815
45°	185203	108871	6381	11179	13883
50°	177370	102403	6323	11762	15111
55°	157067	66328	6486	12401	16334
60°	86008	14226	6544	12641	16947
65°	6153	3464	6398	12551	17116
70°	2971	3323	5942	11884	16516
75°	2595	3460	5656	11312	15238
80°	2579	3273	5157	10414	14282
85°	2569	3952	5138	9090	13042

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 185203 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	1.9
10°-20°	53.4	8.1
20°-30°	102.4	15.6
30°-40°	144.9	22.0
40°-50°	163.9	24.9
50°-60°	129.8	19.8
60°-70°	35.0	5.3
70°-80°	11.6	1.8
80°-90°	3.6	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°	168.3	25.6
0°-40°	313.2	47.7
0°-60°	606.8	92.4
0°-90°	657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	657.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	96	96	96	96	96	
5°	217	174	94	60	56	26
15°	476	357	74	54	56	134
25°	635	450	50	52	56	291
35°	713	490	33	48	56	449
45°	760	447	26	46	57	569
55°	523	221	22	41	54	425
65°	15	8	16	31	42	54
75°	4	5	8	17	23	4
85°	1	2	3	5	7	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°	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
2.5°	148.8	148.8	148.1	145.5	144.2	140.9	138.3	131.1	113.4	96.4	82.6
5°	217.0	220.2	215.7	215.0	211.1	205.2	201.2	173.7	131.1	94.4	70.8
7.5°	297.6	298.9	297.6	291.0	285.1	275.3	266.1	222.9	148.8	91.1	62.3
10°	371.7	369.7	365.8	361.2	352.7	342.2	326.4	272.7	165.8	86.5	57.0
12.5°	432.0	431.3	426.7	422.1	411.6	397.9	382.2	317.9	180.3	80.6	54.4
15°	475.9	475.9	471.3	466.1	456.2	445.1	427.4	357.2	192.1	74.1	51.8
17.5°	505.4	504.1	500.8	496.9	489.0	477.9	464.1	388.7	199.9	67.5	51.1
20°	524.4	523.7	521.1	515.2	508.7	500.1	487.7	415.6	203.2	61.6	50.5
22.5°	585.4	580.1	570.3	557.8	542.1	521.8	504.7	435.9	201.9	55.1	49.2
25°	635.2	633.2	622.7	607.6	586.7	560.4	532.3	449.7	195.3	49.8	47.9
27.5°	667.9	664.7	654.8	638.4	616.2	590.6	564.4	460.2	186.2	45.2	45.9
30°	690.9	688.9	679.1	660.7	637.8	609.6	582.7	472.0	173.7	40.6	43.9
32.5°	705.3	703.3	693.5	677.1	654.8	625.3	594.5	483.8	158.6	36.7	42.0
35°	713.2	711.2	700.1	685.6	664.7	635.8	603.1	489.7	140.3	33.4	40.0
37.5°	723.0	719.1	704.0	686.3	665.3	638.4	605.7	489.0	121.9	30.8	38.7
40°	739.4	728.9	707.3	683.7	662.0	635.2	603.7	483.8	101.6	28.8	37.4
42.5°	755.1	740.0	707.9	679.7	655.5	629.3	596.5	472.0	79.3	27.5	36.7
45°	760.4	738.1	698.8	670.6	647.6	620.7	586.7	447.0	53.8	26.2	35.4
47.5°	725.6	709.2	676.5	655.5	633.9	607.6	572.2	420.8	30.8	24.9	34.1
50°	662.0	651.6	633.2	620.1	608.3	589.9	555.2	382.2	18.4	23.6	32.8
52.5°	603.1	599.8	586.7	576.2	569.6	561.1	529.6	322.5	15.1	22.9	31.5
55°	523.1	512.6	509.3	505.4	519.1	518.5	475.9	220.9	14.4	21.6	30.2
57.5°	328.4	333.0	350.0	381.5	418.9	440.5	439.2	118.0	13.8	20.3	28.2
60°	249.7	249.1	254.3	267.4	295.0	325.8	354.6	41.3	13.1	19.0	26.9
62.5°	74.7	76.7	92.4	135.7	162.6	200.6	182.9	9.8	12.5	17.0	24.3
65°	15.1	15.7	15.7	17.7	21.6	32.8	40.0	8.5	11.8	15.7	22.3
67.5°	6.6	6.6	6.6	7.2	7.2	8.5	7.2	7.9	10.5	13.8	19.7
70°	5.9	5.9	5.9	5.9	5.9	5.9	6.6	6.6	9.2	11.8	17.0
72.5°	4.6	4.6	4.6	5.2	5.2	5.2	5.2	5.9	7.9	9.8	14.4
75°	3.9	3.9	3.9	3.9	4.6	4.6	4.6	5.2	6.6	8.5	11.8
77.5°	3.3	3.3	3.3	3.3	3.3	3.9	3.9	3.9	5.2	6.6	9.8
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.3	3.9	5.2	7.2
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.6	3.3	3.9	5.2
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0	2.6	3.3
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3	2.0
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°	95.7	95.7	95.7
2.5°	72.8	68.8	66.9
5°	59.6	56.4	55.7
7.5°	55.1	54.4	54.4
10°	53.8	54.4	55.1
12.5°	53.8	55.1	55.7
15°	53.8	55.1	55.7
17.5°	53.8	55.1	55.7
20°	53.1	55.1	56.4
22.5°	52.4	55.1	55.7
25°	51.8	55.1	55.7
27.5°	51.1	54.4	55.7
30°	50.5	54.4	56.4
32.5°	49.2	54.4	56.4
35°	48.5	54.4	56.4
37.5°	47.9	54.4	57.0
40°	47.2	54.4	57.0
42.5°	46.5	54.4	57.0
45°	45.9	53.8	57.0
47.5°	44.6	53.8	57.0
50°	43.9	53.1	56.4
52.5°	42.6	52.4	56.4
55°	41.3	51.1	54.4
57.5°	39.3	49.2	51.8
60°	36.7	46.5	49.2
62.5°	33.4	43.3	45.2
65°	30.8	39.3	42.0
67.5°	26.9	34.7	37.4
70°	23.6	30.2	32.8
72.5°	20.3	25.6	28.2
75°	17.0	21.0	22.9
77.5°	13.1	17.0	18.4
80°	10.5	13.1	14.4
82.5°	7.2	9.2	9.8
85°	4.6	5.9	6.6
87.5°	2.0	2.6	2.6
90°	0.0	0.0	0.0

(END OF REPORT)