

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: P1306800

Luminaire Tested: P3SQAS09R709027DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R709027DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

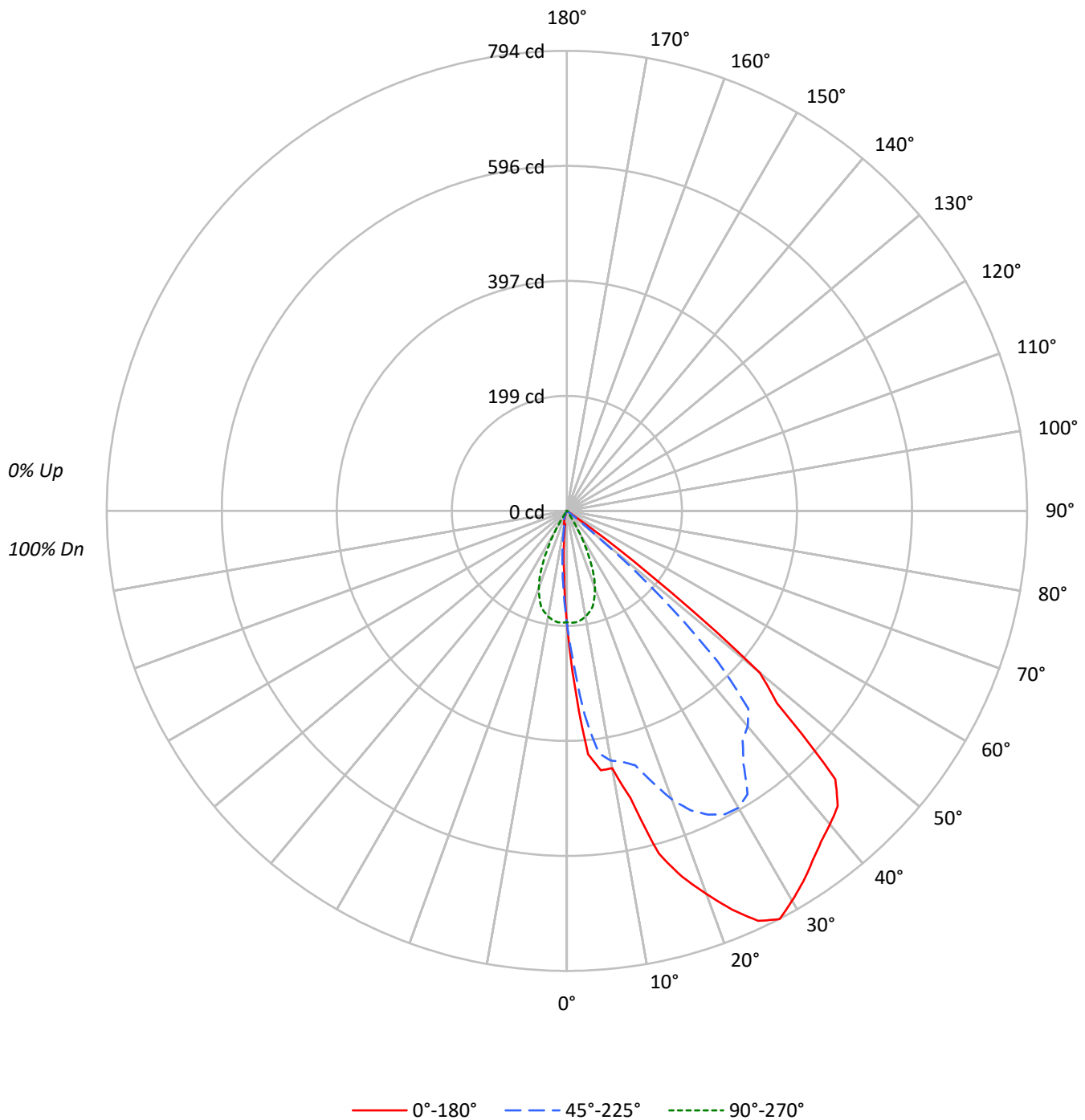
Lumens per Lamp: N/A
Luminaire Lumens: 517.0 lumens
Efficiency: N/A
Efficacy: 46.6 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39		
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	33050	33050	33050	33050	33050
5°	72904	61165	33297	15127	9958
10°	78853	76545	32405	4215	4337
15°	109136	81036	30560	4297	3120
20°	128898	97081	25933	2548	935
25°	148335	109930	18300	418	0
30°	154519	117669	8412	0	0
35°	155224	111514	463	0	0
40°	158768	109083	0	0	0
45°	159580	89386	0	0	0
50°	116496	18568	0	0	0
55°	6576	0	0	0	0
60°	0	241	241	0	0
65°	0	0	285	0	0
70°	0	352	352	0	0
75°	0	466	466	0	0
80°	0	694	694	694	0
85°	0	1383	1383	1383	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 162600 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.0	4.1
10°-20°	70.1	13.6
20°-30°	126.0	24.4
30°-40°	153.2	29.6
40°-50°	118.3	22.9
50°-60°	27.5	5.3
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.4	0.1
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°	217.1	42.0
0°-40°	370.3	71.6
0°-60°	516.0	99.8
0°-90°	517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	517.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	192	192	192	192	192	
5°	422	354	193	88	58	40
15°	612	454	171	24	18	171
25°	781	578	96	2	0	355
35°	738	530	2	0	0	464
45°	655	367	0	0	0	463
55°	22	0	0	0	0	90
65°	0	0	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	191.9	191.9	191.9	191.9	191.9	191.9	191.9	191.9	191.9	191.9	191.9
2.5°	299.1	299.1	300.6	299.9	293.3	290.4	280.9	275.8	274.3	262.6	258.3
5°	421.7	422.4	418.8	418.0	410.7	405.6	397.6	385.2	372.8	353.8	337.1
7.5°	451.6	450.9	450.1	450.1	448.7	445.8	442.1	438.5	433.4	421.7	408.6
10°	450.9	450.9	450.1	450.1	449.4	450.1	449.4	447.2	445.0	437.7	430.4
12.5°	507.8	503.4	497.6	488.8	474.2	463.3	450.9	447.2	445.8	443.6	439.2
15°	612.1	608.5	596.1	580.7	566.1	541.3	521.6	494.6	473.5	454.5	445.0
17.5°	662.4	664.6	650.8	641.3	627.4	607.7	584.4	556.7	526.7	491.0	462.5
20°	703.3	705.5	693.8	684.3	668.3	647.9	627.4	597.5	569.1	529.7	492.5
22.5°	744.9	746.3	735.4	721.5	703.3	682.1	655.9	625.2	594.6	559.6	520.2
25°	780.6	779.2	760.9	741.2	723.7	701.1	675.6	645.7	616.5	578.5	541.3
27.5°	794.5	793.8	773.3	754.4	733.9	703.3	680.7	654.4	623.8	590.2	552.3
30°	777.0	788.7	775.5	761.7	736.9	706.2	684.3	653.0	624.5	591.7	548.6
32.5°	758.8	773.3	769.0	762.4	733.2	709.1	680.7	651.5	617.9	580.0	514.3
35°	738.3	753.6	754.4	747.1	720.8	696.7	670.5	639.8	601.9	530.4	482.2
37.5°	720.1	734.7	739.1	723.7	703.3	671.2	647.1	615.0	546.4	498.3	473.5
40°	706.2	717.2	723.7	699.7	679.2	647.9	620.1	564.0	501.9	485.2	450.1
42.5°	691.6	701.8	704.8	678.5	647.1	617.2	577.1	506.3	488.1	463.3	369.2
45°	655.2	667.6	660.3	634.7	611.4	580.0	520.2	489.5	469.8	367.0	226.9
47.5°	491.7	505.6	525.3	532.6	540.6	518.0	485.2	474.2	385.9	222.5	70.8
50°	434.8	432.6	432.6	436.3	442.8	450.1	459.6	399.8	232.0	69.3	0.0
52.5°	177.3	186.0	229.1	267.8	312.3	356.8	370.6	245.1	90.5	1.5	0.0
55°	21.9	21.9	30.6	52.5	86.8	140.1	157.6	78.8	6.6	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	5.8	16.1	10.9	2.9	0.7	0.7	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	191.9	191.9	191.9	191.9	191.9	191.9	191.9	191.9
2.5°	251.0	242.2	229.8	193.3	162.0	134.2	118.2	110.2
5°	321.0	299.9	271.4	192.6	131.3	87.5	65.7	57.6
7.5°	388.1	364.1	315.9	189.7	100.7	51.1	28.5	22.6
10°	417.3	399.8	356.8	185.3	73.0	24.1	24.1	24.8
12.5°	429.0	415.9	380.8	178.7	48.2	23.3	24.8	23.3
15°	437.0	424.6	392.5	171.4	27.7	24.1	19.7	17.5
17.5°	441.4	426.8	396.2	157.6	18.2	20.4	12.4	10.2
20°	455.3	431.9	399.1	141.5	17.5	13.9	6.6	5.1
22.5°	478.6	442.1	399.8	121.8	13.9	8.0	2.2	0.0
25°	499.8	456.0	402.0	96.3	4.4	2.2	0.0	0.0
27.5°	510.0	460.4	401.3	67.8	0.0	0.0	0.0	0.0
30°	497.6	449.4	394.7	42.3	0.0	0.0	0.0	0.0
32.5°	468.4	441.4	374.3	18.2	0.0	0.0	0.0	0.0
35°	458.9	423.9	327.6	2.2	0.0	0.0	0.0	0.0
37.5°	437.7	373.5	240.8	0.0	0.0	0.0	0.0	0.0
40°	376.5	269.9	114.5	0.0	0.0	0.0	0.0	0.0
42.5°	248.8	115.3	6.6	0.0	0.0	0.0	0.0	0.0
45°	87.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0
67.5°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
70°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
72.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
75°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
77.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)