

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: P1306967

Luminaire Tested: P3SQAS13R709027DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306967
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: P3SQAS13R709027DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

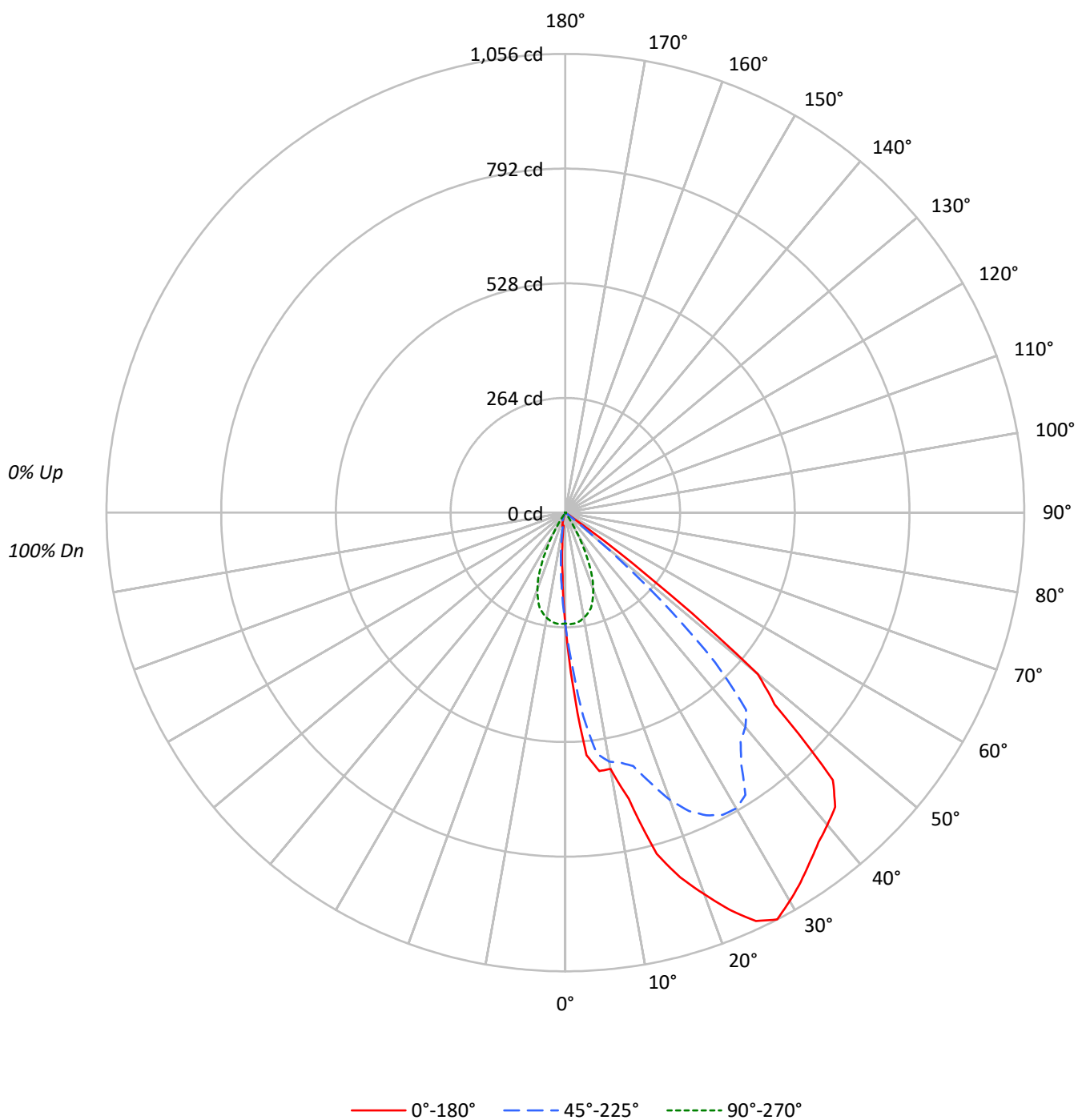
Lumens per Lamp: N/A
Luminaire Lumens: 687.0 lumens
Efficiency: N/A
Efficacy: 47.1 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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
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	90	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°	43917	43917	43917	43917	43917
5°	96882	81288	44240	20106	13243
10°	104770	101727	43055	5596	5771
15°	145028	107692	40616	5706	4154
20°	171289	128989	34474	3372	1246
25°	197115	146092	24323	551	0
30°	205329	156348	11176	0	0
35°	206271	148181	610	0	0
40°	210972	144942	0	0	0
45°	212043	118760	0	0	0
50°	154810	24676	0	0	0
55°	8738	0	0	0	0
60°	0	344	344	0	0
65°	0	0	408	0	0
70°	0	504	504	0	0
75°	0	665	665	0	0
80°	0	992	992	992	0
85°	0	1976	1976	1976	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 216062 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.9	4.1
10°-20°	93.1	13.6
20°-30°	167.4	24.4
30°-40°	203.5	29.6
40°-50°	157.2	22.9
50°-60°	36.6	5.3
60°-70°	0.2	0.0
70°-80°	0.5	0.1
80°-90°	0.5	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°	288.5	42.0
0°-40°	492.0	71.6
0°-60°	685.7	99.8
0°-90°	687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	687.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	255	255	255	255	255	
5°	560	470	256	116	77	53
15°	813	604	228	32	23	227
25°	1037	769	128	3	0	472
35°	981	705	3	0	0	616
45°	871	488	0	0	0	615
55°	29	0	0	0	0	120
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°	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0
2.5°	397.5	397.5	399.4	398.5	389.7	385.8	373.2	366.5	364.5	349.0	343.2
5°	560.4	561.3	556.5	555.5	545.8	539.0	528.4	511.9	495.4	470.2	447.9
7.5°	600.1	599.1	598.2	598.2	596.2	592.3	587.5	582.6	575.9	560.4	542.9
10°	599.1	599.1	598.2	598.2	597.2	598.2	597.2	594.3	591.4	581.7	572.0
12.5°	674.7	668.9	661.2	649.5	630.2	615.6	599.1	594.3	592.3	589.4	583.6
15°	813.4	808.5	792.1	771.7	752.3	719.3	693.2	657.3	629.2	604.0	591.4
17.5°	880.3	883.2	864.8	852.2	833.7	807.6	776.5	739.7	700.0	652.5	614.6
20°	934.6	937.5	922.0	909.4	888.0	860.9	833.7	794.0	756.2	703.8	654.4
22.5°	989.8	991.8	977.2	958.8	934.6	906.5	871.6	830.8	790.1	743.6	691.2
25°	1037.3	1035.4	1011.2	985.0	961.7	931.7	897.7	858.0	819.2	768.8	719.3
27.5°	1055.7	1054.8	1027.6	1002.4	975.3	934.6	904.5	869.6	828.9	784.3	733.9
30°	1032.5	1048.0	1030.5	1012.1	979.2	938.4	909.4	867.7	829.9	786.2	729.0
32.5°	1008.2	1027.6	1021.8	1013.1	974.3	942.3	904.5	865.7	821.1	770.7	683.5
35°	981.1	1001.5	1002.4	992.7	957.8	925.8	890.9	850.2	799.8	704.8	640.8
37.5°	956.9	976.3	982.1	961.7	934.6	891.9	859.9	817.3	726.1	662.1	629.2
40°	938.4	953.0	961.7	929.7	902.6	860.9	824.0	749.4	667.0	644.7	598.2
42.5°	919.1	932.6	936.5	901.6	859.9	820.2	766.8	672.8	648.6	615.6	490.6
45°	870.6	887.1	877.4	843.4	812.4	770.7	691.2	650.5	624.3	487.6	301.5
47.5°	653.4	671.8	698.0	707.7	718.4	688.3	644.7	630.2	512.8	295.7	94.0
50°	577.8	574.9	574.9	579.7	588.5	598.2	610.8	531.3	308.3	92.1	0.0
52.5°	235.6	247.2	304.4	355.8	414.9	474.1	492.5	325.7	120.2	1.9	0.0
55°	29.1	29.1	40.7	69.8	115.4	186.1	209.4	104.7	8.7	0.0	0.0
57.5°	0.0	0.0	0.0	1.0	7.8	21.3	14.5	3.9	1.0	1.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
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	1.0	1.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0
2.5°	333.5	321.9	305.4	256.9	215.2	178.4	157.1	146.4
5°	426.6	398.5	360.6	255.9	174.5	116.3	87.3	76.6
7.5°	515.8	483.8	419.8	252.1	133.8	67.9	37.8	30.1
10°	554.5	531.3	474.1	246.2	96.9	32.0	32.0	33.0
12.5°	570.0	552.6	506.1	237.5	64.0	31.0	33.0	31.0
15°	580.7	564.2	521.6	227.8	36.8	32.0	26.2	23.3
17.5°	586.5	567.1	526.4	209.4	24.2	27.1	16.5	13.6
20°	604.9	573.9	530.3	188.1	23.3	18.4	8.7	6.8
22.5°	636.0	587.5	531.3	161.9	18.4	10.7	2.9	0.0
25°	664.1	605.9	534.2	128.0	5.8	2.9	0.0	0.0
27.5°	677.7	611.7	533.2	90.2	0.0	0.0	0.0	0.0
30°	661.2	597.2	524.5	56.2	0.0	0.0	0.0	0.0
32.5°	622.4	586.5	497.3	24.2	0.0	0.0	0.0	0.0
35°	609.8	563.3	435.3	2.9	0.0	0.0	0.0	0.0
37.5°	581.7	496.4	319.9	0.0	0.0	0.0	0.0	0.0
40°	500.2	358.7	152.2	0.0	0.0	0.0	0.0	0.0
42.5°	330.6	153.2	8.7	0.0	0.0	0.0	0.0	0.0
45°	116.3	9.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.9	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°	1.0	1.0	1.0	1.0	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	1.0	1.0	0.0	0.0	0.0	0.0
67.5°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
70°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
72.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
75°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
77.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	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)