

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: P1317064

Luminaire Tested: P3SQAS13R159830DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R159830DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

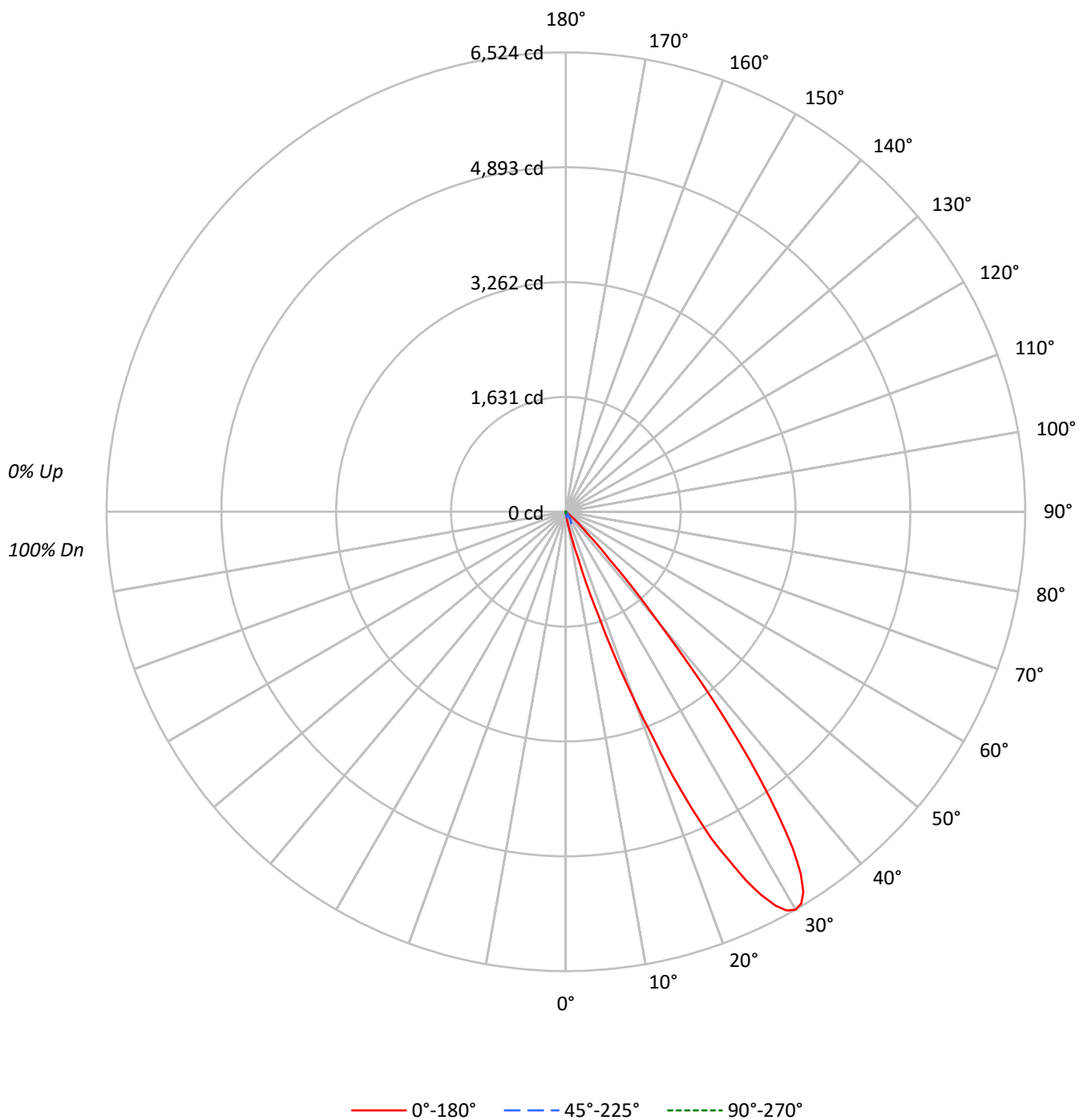
Lumens per Lamp: N/A
Luminaire Lumens: 690.0 lumens
Efficiency: N/A
Efficacy: 47.6 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45		
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4254	4254	4254	4254	4254
5°	12292	9284	3630	1504	1003
10°	31968	13833	2413	0	0
15°	127822	22644	1302	0	0
20°	522207	33374	403	0	0
25°	1032301	33084	0	0	0
30°	1297459	26111	0	0	0
35°	1107045	16021	0	0	0
40°	455757	5058	0	0	0
45°	98617	2119	0	0	0
50°	12646	0	0	0	0
55°	1081	0	210	0	0
60°	0	0	517	0	0
65°	0	0	611	0	0
70°	0	352	1108	0	0
75°	0	466	1464	0	0
80°	0	694	2182	0	0
85°	0	1383	4347	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 103196 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.5
10°-20°	48.4	7.0
20°-30°	281.8	40.8
30°-40°	302.2	43.8
40°-50°	51.0	7.4
50°-60°	1.5	0.2
60°-70°	0.5	0.1
70°-80°	0.7	0.1
80°-90°	0.6	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°	333.5	48.3
0°-40°	635.7	92.1
0°-60°	688.3	99.7
0°-90°	690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	690.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	71	54	21	9	6	10
15°	717	127	7	0	0	332
25°	5432	174	0	0	0	2458
35°	5266	76	0	0	0	3026
45°	405	9	0	0	0	478
55°	4	0	1	0	0	9
65°	0	0	2	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
2.5°	45.0	45.7	46.4	46.4	46.4	46.4	45.7	45.7	45.7	45.7	45.0
5°	71.1	71.1	71.1	71.1	71.1	71.1	70.4	70.4	70.4	70.4	70.4
7.5°	101.6	100.1	100.9	98.7	100.1	99.4	98.7	100.1	100.1	96.5	96.5
10°	182.8	182.1	174.9	176.3	177.8	177.0	177.0	172.7	172.0	169.1	166.2
12.5°	352.6	360.6	366.4	366.4	352.6	357.7	348.3	350.5	351.9	347.5	332.3
15°	716.9	729.9	716.1	729.2	724.1	705.3	684.2	655.9	666.8	647.2	640.7
17.5°	1570.1	1599.9	1587.6	1527.3	1546.9	1500.5	1471.5	1460.6	1430.1	1339.4	1301.7
20°	2849.3	2885.6	2851.5	2781.1	2803.6	2715.8	2693.3	2672.3	2537.3	2488.0	2329.8
21°	3387.7	3417.4	3430.5	3357.2	3312.2	3242.6	3184.5	3165.7	3083.7	2988.6	2826.1
22°	4037.8	4003.0	3924.6	3934.8	3868.0	3810.7	3730.2	3654.0	3562.6	3429.8	3295.5
23°	4576.2	4535.6	4498.5	4453.6	4381.7	4341.1	4225.7	4142.3	4023.3	3881.1	3751.9
24°	5077.6	5015.2	4991.9	4912.1	4891.8	4800.4	4706.8	4598.0	4454.3	4302.6	4159.7
25°	5432.4	5441.8	5421.5	5412.0	5308.3	5214.7	5121.8	4954.2	4831.6	4697.4	4477.5
26°	5812.6	5816.9	5806.8	5737.1	5643.5	5552.1	5432.4	5286.5	5108.8	4960.0	4761.2
27°	6103.5	6086.1	6071.6	5988.9	5912.0	5796.6	5687.8	5515.1	5341.7	5164.6	4933.9
28°	6335.7	6303.0	6284.9	6213.8	6123.8	5982.3	5848.8	5687.8	5514.3	5324.2	5074.7
29°	6475.7	6440.9	6420.6	6342.2	6238.5	6114.4	5979.4	5802.4	5615.9	5404.1	5153.0
30°	6524.3	6504.0	6472.1	6390.8	6283.5	6154.3	6015.7	5823.4	5628.3	5411.3	5145.8
31°	6492.4	6466.3	6435.8	6348.0	6231.9	6108.6	5947.5	5745.8	5540.5	5333.7	5052.2
32°	6365.4	6349.5	6312.5	6194.9	6100.6	5941.0	5782.1	5593.4	5369.2	5147.2	4892.5
33°	6127.5	6101.3	6069.4	5962.0	5841.6	5688.5	5530.3	5337.3	5114.6	4880.2	4600.1
34°	5764.7	5731.3	5691.4	5619.6	5465.7	5333.0	5150.1	4924.5	4740.2	4515.2	4262.0
35°	5265.5	5216.9	5169.0	5114.6	4941.9	4819.3	4695.9	4499.3	4321.5	4109.6	3823.0
36°	4705.3	4686.5	4647.3	4503.6	4447.8	4280.9	4181.5	3955.8	3812.2	3604.6	3368.1
37°	4071.9	3960.9	4017.5	3937.0	3768.6	3716.4	3598.1	3404.4	3249.1	3030.0	2858.8
38°	3392.8	3320.2	3360.1	3278.9	3191.1	3070.6	2980.7	2839.2	2665.0	2493.1	2330.5
39°	2689.0	2630.2	2673.7	2618.6	2485.1	2435.0	2355.2	2247.1	2107.1	1972.8	1819.0
40°	2027.2	1951.8	2009.8	1931.5	1870.5	1788.5	1747.9	1648.5	1561.4	1480.9	1382.9
42.5°	925.8	917.8	904.8	876.5	870.0	870.7	820.6	788.0	743.7	692.2	661.0
45°	404.9	415.0	423.7	407.8	407.0	398.3	395.4	373.7	365.0	348.3	328.0
47.5°	199.5	203.2	201.0	205.3	201.7	195.9	194.5	191.6	182.8	182.1	172.7
50°	47.2	46.4	46.4	47.2	46.4	46.4	45.7	44.3	43.5	44.3	42.1
52.5°	15.2	16.0	15.2	14.5	15.2	16.0	15.2	15.2	15.2	15.2	15.2
55°	3.6	3.6	3.6	3.6	3.6	3.6	2.9	2.9	3.6	3.6	3.6
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
2.5°	44.3	37.7	31.2	24.7	18.1	14.5	13.8	13.1
5°	66.8	53.7	35.6	21.0	12.3	8.7	6.5	5.8
7.5°	90.0	66.8	39.2	17.4	8.7	3.6	1.5	0.7
10°	129.2	79.1	40.6	13.8	4.4	0.0	0.0	0.0
12.5°	253.2	90.7	39.9	10.9	0.7	0.0	0.0	0.0
15°	420.8	127.0	37.0	7.3	0.0	0.0	0.0	0.0
17.5°	689.3	164.0	31.9	5.1	0.0	0.0	0.0	0.0
20°	1068.8	182.1	24.7	2.2	0.0	0.0	0.0	0.0
21°	1253.1	183.6	21.8	1.5	0.0	0.0	0.0	0.0
22°	1412.7	183.6	18.9	0.7	0.0	0.0	0.0	0.0
23°	1560.7	181.4	16.7	0.0	0.0	0.0	0.0	0.0
24°	1682.6	178.5	15.2	0.0	0.0	0.0	0.0	0.0
25°	1774.0	174.1	13.8	0.0	0.0	0.0	0.0	0.0
26°	1816.1	168.3	11.6	0.0	0.0	0.0	0.0	0.0
27°	1837.1	160.4	10.2	0.0	0.0	0.0	0.0	0.0
28°	1822.6	151.6	8.7	0.0	0.0	0.0	0.0	0.0
29°	1786.4	142.2	6.5	0.0	0.0	0.0	0.0	0.0
30°	1739.2	131.3	5.1	0.0	0.0	0.0	0.0	0.0
31°	1670.3	120.4	3.6	0.0	0.0	0.0	0.0	0.0
32°	1575.9	109.6	2.9	0.0	0.0	0.0	0.0	0.0
33°	1449.7	98.0	1.5	0.0	0.0	0.0	0.0	0.0
34°	1293.7	86.3	0.7	0.0	0.0	0.0	0.0	0.0
35°	1118.8	76.2	0.0	0.0	0.0	0.0	0.0	0.0
36°	968.6	65.3	0.0	0.0	0.0	0.0	0.0	0.0
37°	817.7	52.2	0.0	0.0	0.0	0.0	0.0	0.0
38°	684.9	41.4	0.0	0.0	0.0	0.0	0.0	0.0
39°	566.7	33.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	469.4	22.5	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	259.8	15.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	157.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	91.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	34.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.9	0.0	0.0	0.7	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.7	1.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.7	1.5	0.7	0.0	0.0	0.0
65°	0.0	0.0	1.5	1.5	0.7	0.0	0.0	0.0
67.5°	0.0	0.0	1.5	2.2	0.7	0.0	0.0	0.0
70°	0.0	0.7	1.5	2.2	0.7	0.0	0.0	0.0
72.5°	0.0	0.7	1.5	2.2	0.7	0.0	0.0	0.0
75°	0.0	0.7	1.5	2.2	0.7	0.0	0.0	0.0
77.5°	0.0	0.7	1.5	2.2	0.7	0.0	0.0	0.0
80°	0.0	0.7	1.5	2.2	0.7	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.7	1.5	2.2	0.7	0.0	0.0	0.0
85°	0.0	0.7	1.5	2.2	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	1.5	2.2	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)