

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: P1311099

Luminaire Tested: P3SQAS09R159050DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311099
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: P3SQAS09R159050DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

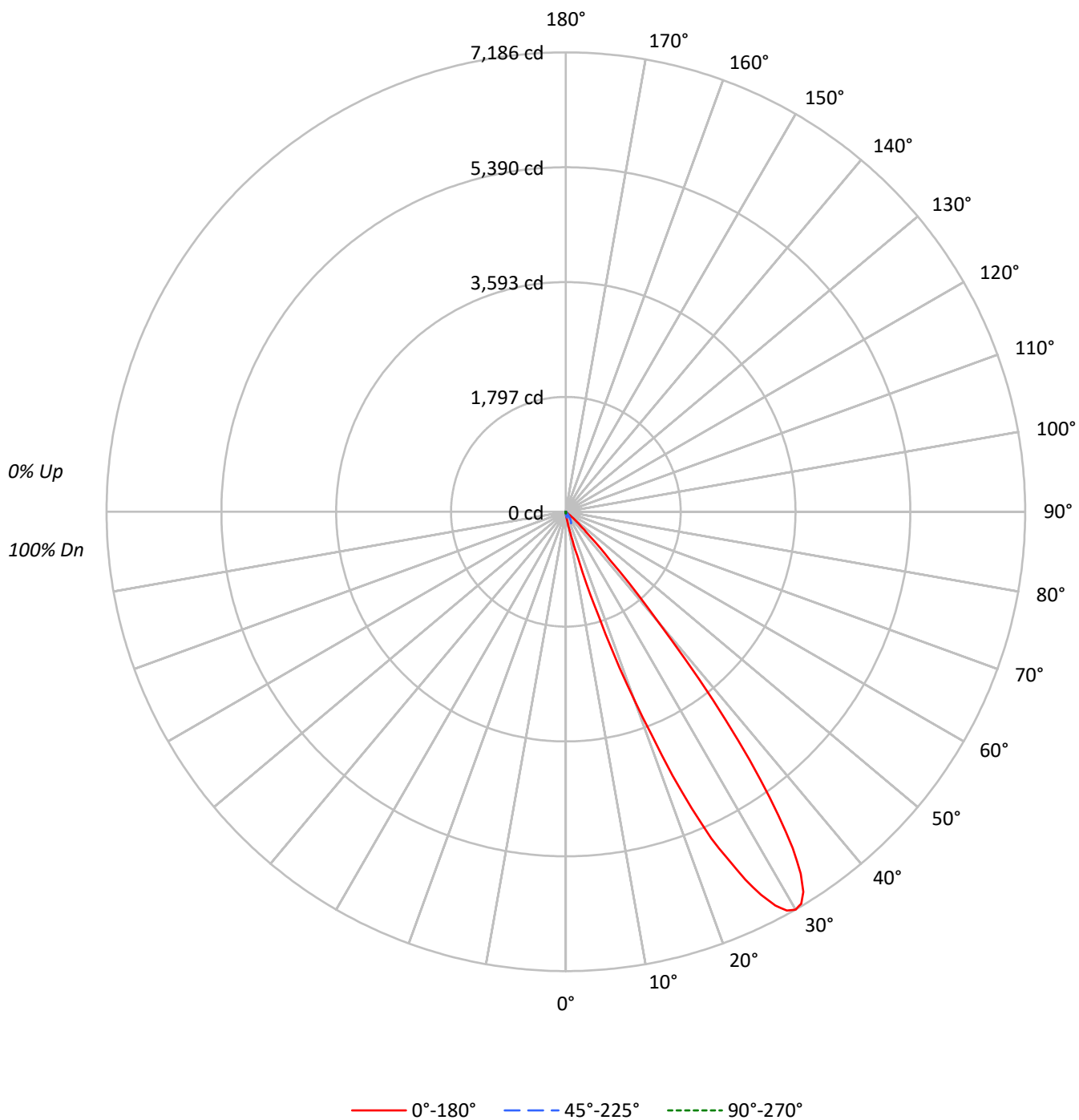
Lumens per Lamp: N/A
Luminaire Lumens: 760.0 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4684	4684	4684	4684	4684
5°	13537	10217	4011	1660	1106
10°	35221	15232	2658	0	0
15°	140784	24944	1426	0	0
20°	575192	36765	440	0	0
25°	1137025	36447	0	0	0
30°	1429088	28776	0	0	0
35°	1219358	17640	0	0	0
40°	502002	5576	0	0	0
45°	108603	2338	0	0	0
50°	13906	0	0	0	0
55°	1201	0	240	0	0
60°	0	0	551	0	0
65°	0	0	652	0	0
70°	0	403	1209	0	0
75°	0	532	1597	0	0
80°	0	793	2380	0	0
85°	0	1581	4742	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 113669 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.5
10°-20°	53.3	7.0
20°-30°	310.4	40.8
30°-40°	332.9	43.8
40°-50°	56.2	7.4
50°-60°	1.7	0.2
60°-70°	0.5	0.1
70°-80°	0.7	0.1
80°-90°	0.7	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°	367.4	48.3
0°-40°	700.2	92.1
0°-60°	758.1	99.7
0°-90°	760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	760.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	78	59	23	10	6	11
15°	790	140	8	0	0	365
25°	5984	192	0	0	0	2707
35°	5800	84	0	0	0	3333
45°	446	10	0	0	0	527
55°	4	0	1	0	0	10
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°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	49.5	50.3	51.1	51.1	51.1	51.1	50.3	50.3	50.3	50.3	49.5
5°	78.3	78.3	78.3	78.3	78.3	78.3	77.5	77.5	77.5	77.5	77.5
7.5°	111.9	110.3	111.1	108.7	110.3	109.5	108.7	110.3	110.3	106.3	106.3
10°	201.4	200.6	192.6	194.2	195.8	195.0	195.0	190.2	189.4	186.2	183.0
12.5°	388.4	397.2	403.6	403.6	388.4	394.0	383.6	386.0	387.6	382.8	366.0
15°	789.6	804.0	788.8	803.2	797.6	776.8	753.6	722.5	734.4	712.9	705.7
17.5°	1729.4	1762.2	1748.6	1682.3	1703.9	1652.7	1620.7	1608.8	1575.2	1475.3	1433.7
20°	3138.4	3178.3	3140.8	3063.3	3088.0	2991.3	2966.6	2943.4	2794.7	2740.4	2566.2
21°	3731.4	3764.1	3778.5	3697.8	3648.3	3571.5	3507.6	3486.8	3396.5	3291.8	3112.8
22°	4447.4	4409.1	4322.8	4334.0	4260.4	4197.3	4108.6	4024.7	3924.0	3777.7	3629.9
23°	5040.4	4995.7	4954.9	4905.4	4826.3	4781.5	4654.4	4562.5	4431.5	4274.8	4132.6
24°	5592.7	5523.9	5498.4	5410.5	5388.1	5287.4	5184.3	5064.4	4906.2	4739.1	4581.7
25°	5983.5	5993.9	5971.5	5961.1	5846.8	5743.7	5641.4	5456.8	5321.7	5173.9	4931.7
26°	6402.2	6407.0	6395.8	6319.1	6216.0	6115.3	5983.5	5822.8	5627.0	5463.2	5244.2
27°	6722.7	6703.5	6687.5	6596.4	6511.7	6384.7	6264.8	6074.6	5883.6	5688.6	5434.4
28°	6978.4	6942.5	6922.5	6844.2	6745.1	6589.2	6442.2	6264.8	6073.8	5864.4	5589.5
29°	7132.7	7094.3	7072.0	6985.6	6871.4	6734.7	6586.1	6391.1	6185.7	5952.3	5675.8
30°	7186.2	7163.9	7128.7	7039.2	6920.9	6778.7	6626.0	6414.2	6199.2	5960.3	5667.8
31°	7151.1	7122.3	7088.7	6992.0	6864.2	6728.3	6550.9	6328.7	6102.5	5874.8	5564.7
32°	7011.2	6993.6	6952.9	6823.4	6719.5	6543.7	6368.7	6160.9	5913.9	5669.4	5388.9
33°	6749.1	6720.3	6685.2	6566.9	6434.2	6265.6	6091.4	5878.8	5633.4	5375.3	5066.8
34°	6349.5	6312.7	6268.8	6189.7	6020.2	5874.0	5672.6	5424.0	5221.1	4973.3	4694.4
35°	5799.7	5746.1	5693.4	5633.4	5443.2	5308.2	5172.3	4955.7	4759.9	4526.6	4210.9
36°	5182.7	5161.9	5118.8	4960.5	4899.0	4715.2	4605.7	4357.1	4198.9	3970.3	3709.8
37°	4485.0	4362.7	4425.1	4336.4	4150.9	4093.4	3963.1	3749.8	3578.7	3337.4	3148.8
38°	3737.0	3657.1	3701.0	3611.5	3514.8	3382.1	3283.0	3127.2	2935.4	2746.0	2567.0
39°	2961.8	2897.0	2945.0	2884.2	2737.2	2682.1	2594.1	2475.1	2320.8	2173.0	2003.5
40°	2232.9	2149.8	2213.7	2127.4	2060.3	1970.0	1925.2	1815.7	1719.8	1631.1	1523.2
42.5°	1019.8	1011.0	996.6	965.4	958.2	959.0	903.9	867.9	819.2	762.4	728.1
45°	445.9	457.1	466.7	449.1	448.3	438.8	435.6	411.6	402.0	383.6	361.2
47.5°	219.8	223.8	221.4	226.2	222.2	215.8	214.2	211.0	201.4	200.6	190.2
50°	51.9	51.1	51.1	51.9	51.1	51.1	50.3	48.8	48.0	48.8	46.4
52.5°	16.8	17.6	16.8	16.0	16.8	17.6	16.8	16.8	16.8	16.8	16.8
55°	4.0	4.0	4.0	4.0	4.0	4.0	3.2	3.2	4.0	4.0	4.0
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°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	48.8	41.6	34.4	27.2	20.0	16.0	15.2	14.4
5°	73.5	59.1	39.2	23.2	13.6	9.6	7.2	6.4
7.5°	99.1	73.5	43.2	19.2	9.6	4.0	1.6	0.8
10°	142.3	87.1	44.8	15.2	4.8	0.0	0.0	0.0
12.5°	278.9	99.9	44.0	12.0	0.8	0.0	0.0	0.0
15°	463.5	139.9	40.8	8.0	0.0	0.0	0.0	0.0
17.5°	759.2	180.6	35.2	5.6	0.0	0.0	0.0	0.0
20°	1177.2	200.6	27.2	2.4	0.0	0.0	0.0	0.0
21°	1380.2	202.2	24.0	1.6	0.0	0.0	0.0	0.0
22°	1556.0	202.2	20.8	0.8	0.0	0.0	0.0	0.0
23°	1719.0	199.8	18.4	0.0	0.0	0.0	0.0	0.0
24°	1853.3	196.6	16.8	0.0	0.0	0.0	0.0	0.0
25°	1954.0	191.8	15.2	0.0	0.0	0.0	0.0	0.0
26°	2000.4	185.4	12.8	0.0	0.0	0.0	0.0	0.0
27°	2023.5	176.6	11.2	0.0	0.0	0.0	0.0	0.0
28°	2007.5	167.0	9.6	0.0	0.0	0.0	0.0	0.0
29°	1967.6	156.6	7.2	0.0	0.0	0.0	0.0	0.0
30°	1915.6	144.7	5.6	0.0	0.0	0.0	0.0	0.0
31°	1839.7	132.7	4.0	0.0	0.0	0.0	0.0	0.0
32°	1735.8	120.7	3.2	0.0	0.0	0.0	0.0	0.0
33°	1596.8	107.9	1.6	0.0	0.0	0.0	0.0	0.0
34°	1424.9	95.1	0.8	0.0	0.0	0.0	0.0	0.0
35°	1232.3	83.9	0.0	0.0	0.0	0.0	0.0	0.0
36°	1066.9	71.9	0.0	0.0	0.0	0.0	0.0	0.0
37°	900.7	57.5	0.0	0.0	0.0	0.0	0.0	0.0
38°	754.4	45.6	0.0	0.0	0.0	0.0	0.0	0.0
39°	624.2	36.8	0.0	0.0	0.0	0.0	0.0	0.0
40°	517.1	24.8	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	286.1	16.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	173.4	9.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	100.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
50°	38.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.2	0.0	0.0	0.8	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.8	1.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.8	1.6	0.8	0.0	0.0	0.0
65°	0.0	0.0	1.6	1.6	0.8	0.0	0.0	0.0
67.5°	0.0	0.0	1.6	2.4	0.8	0.0	0.0	0.0
70°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
72.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
75°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
77.5°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
80°	0.0	0.8	1.6	2.4	0.8	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	0.8	1.6	2.4	0.8	0.0	0.0	0.0
85°	0.0	0.8	1.6	2.4	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	1.6	2.4	0.8	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)