

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: P1312532

Luminaire Tested: P3SQAS17R159727DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312532
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: P3SQAS17R159727DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

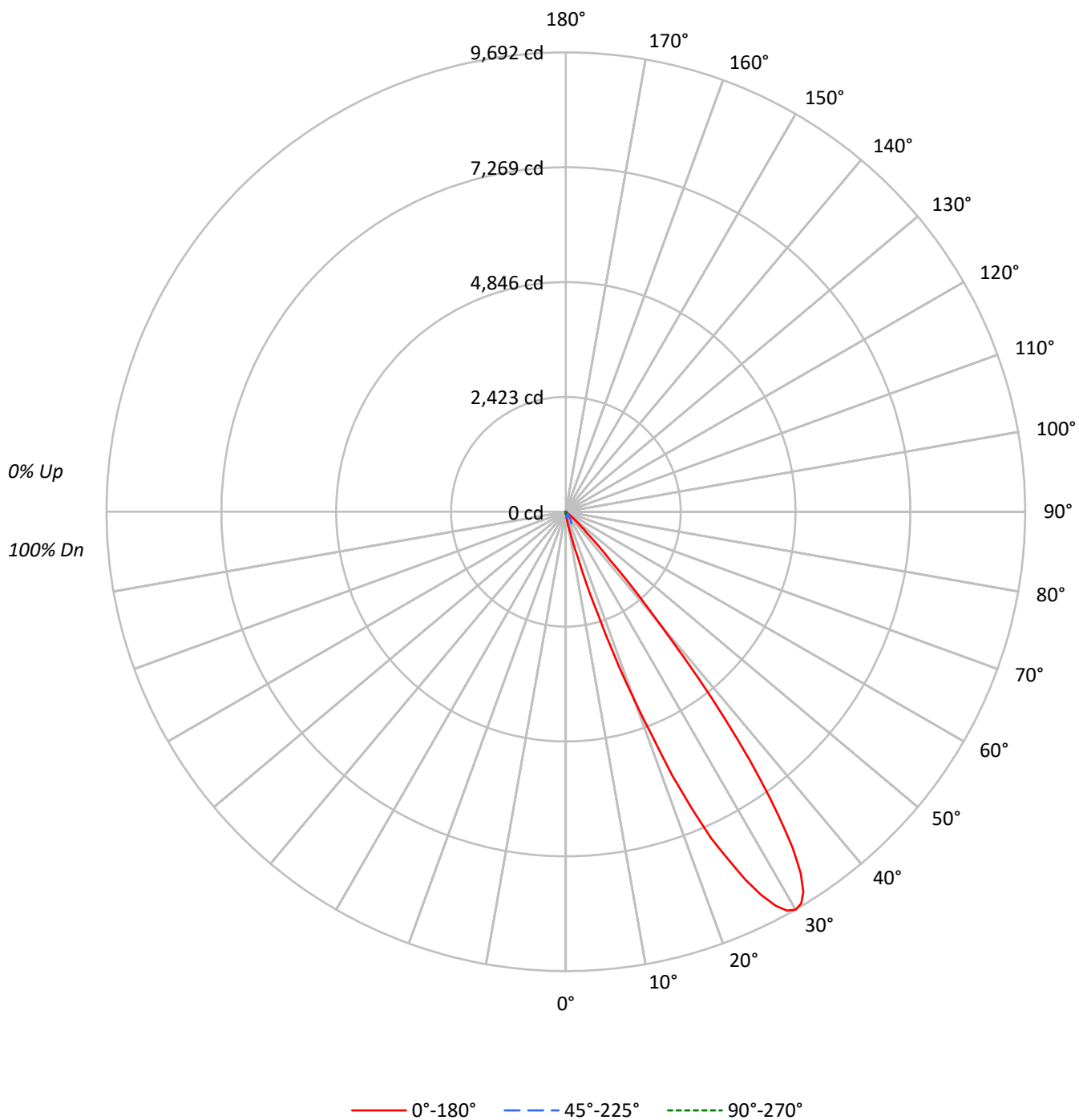
Lumens per Lamp: N/A
Luminaire Lumens: 1025.0 lumens
Efficiency: N/A
Efficacy: 48.4 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	6303	6303	6303	6303	6303
5°	18256	13796	5411	2230	1487
10°	47497	20548	3585	0	0
15°	189870	33627	1926	0	0
20°	775750	49576	586	0	0
25°	1533477	49160	0	0	0
30°	1927405	38799	0	0	0
35°	1644516	23800	0	0	0
40°	677048	7509	0	0	0
45°	146477	3142	0	0	0
50°	18782	0	0	0	0
55°	1621	0	330	0	0
60°	0	0	758	0	0
65°	0	0	897	0	0
70°	0	554	1611	0	0
75°	0	732	2129	0	0
80°	0	1091	3174	0	0
85°	0	2174	6323	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 153321 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.5
10°-20°	71.8	7.0
20°-30°	418.7	40.8
30°-40°	448.9	43.8
40°-50°	75.8	7.4
50°-60°	2.3	0.2
60°-70°	0.7	0.1
70°-80°	1.0	0.1
80°-90°	0.9	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°	495.4	48.3
0°-40°	944.4	92.1
0°-60°	1022.4	99.7
0°-90°	1025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1025.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	106	80	31	13	9	14
15°	1065	189	11	0	0	493
25°	8070	259	0	0	0	3651
35°	7822	113	0	0	0	4495
45°	601	13	0	0	0	710
55°	5	0	1	0	0	14
65°	0	0	2	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	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°	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
2.5°	66.8	67.9	69.0	69.0	69.0	69.0	67.9	67.9	67.9	67.9	66.8
5°	105.6	105.6	105.6	105.6	105.6	105.6	104.6	104.6	104.6	104.6	104.6
7.5°	150.9	148.7	149.8	146.6	148.7	147.7	146.6	148.7	148.7	143.4	143.4
10°	271.6	270.5	259.8	261.9	264.1	263.0	263.0	256.5	255.4	251.1	246.8
12.5°	523.8	535.7	544.3	544.3	523.8	531.4	517.4	520.6	522.8	516.3	493.7
15°	1064.9	1084.3	1063.8	1083.2	1075.7	1047.7	1016.4	974.4	990.5	961.4	951.7
17.5°	2332.5	2376.6	2358.3	2268.9	2298.0	2229.0	2185.9	2169.7	2124.4	1989.7	1933.7
20°	4232.7	4286.6	4235.9	4131.4	4164.8	4034.4	4001.0	3969.7	3769.2	3695.9	3461.0
21°	5032.4	5076.6	5096.0	4987.2	4920.4	4816.9	4730.7	4702.6	4580.8	4439.6	4198.2
22°	5998.2	5946.5	5830.1	5845.1	5746.0	5660.8	5541.2	5428.0	5292.2	5095.0	4895.6
23°	6798.0	6737.6	6682.6	6615.8	6509.1	6448.7	6277.4	6153.4	5976.6	5765.4	5573.5
24°	7542.7	7450.1	7415.6	7297.0	7266.8	7131.0	6992.0	6830.3	6616.9	6391.6	6179.3
25°	8069.8	8083.8	8053.6	8039.6	7885.5	7746.5	7608.5	7359.5	7177.4	6978.0	6651.4
26°	8634.6	8641.1	8626.0	8522.5	8383.5	8247.7	8069.8	7853.2	7589.1	7368.1	7072.8
27°	9066.8	9040.9	9019.4	8896.5	8782.3	8610.9	8449.2	8192.7	7935.1	7672.1	7329.3
28°	9411.7	9363.2	9336.3	9230.6	9097.0	8886.8	8688.5	8449.2	8191.6	7909.2	7538.4
29°	9619.7	9568.0	9537.8	9421.4	9267.3	9083.0	8882.5	8619.5	8342.5	8027.8	7654.8
30°	9692.0	9661.8	9614.4	9493.6	9334.1	9142.3	8936.4	8650.8	8360.8	8038.6	7644.1
31°	9644.5	9605.7	9560.5	9430.0	9257.6	9074.4	8835.1	8535.4	8230.4	7923.2	7505.0
32°	9455.9	9432.2	9377.2	9202.6	9062.5	8825.4	8589.3	8309.1	7976.0	7646.2	7267.9
33°	9102.4	9063.6	9016.2	8856.6	8677.7	8450.3	8215.3	7928.6	7597.7	7249.6	6833.5
34°	8563.5	8513.9	8454.6	8347.9	8119.4	7922.1	7650.5	7315.3	7041.5	6707.4	6331.2
35°	7821.9	7749.7	7678.6	7597.7	7341.2	7159.0	6975.8	6683.7	6419.6	6104.9	5679.2
36°	6989.8	6961.8	6903.6	6690.2	6607.2	6359.3	6211.6	5876.4	5663.0	5354.7	5003.3
37°	6048.9	5883.9	5968.0	5848.4	5598.3	5520.7	5345.0	5057.2	4826.6	4501.1	4246.7
38°	5040.0	4932.2	4991.5	4870.8	4740.4	4561.4	4427.8	4217.6	3958.9	3703.5	3462.0
39°	3994.5	3907.2	3971.9	3889.9	3691.6	3617.2	3498.7	3338.1	3130.1	2930.7	2702.2
40°	3011.5	2899.4	2985.6	2869.2	2778.7	2656.9	2596.5	2448.9	2319.5	2199.9	2054.4
42.5°	1375.3	1363.5	1344.1	1302.0	1292.3	1293.4	1219.0	1170.5	1104.8	1028.3	981.9
45°	601.4	616.5	629.5	605.7	604.7	591.7	587.4	555.1	542.2	517.4	487.2
47.5°	296.4	301.8	298.6	305.0	299.6	291.0	288.9	284.6	271.6	270.5	256.5
50°	70.1	69.0	69.0	70.1	69.0	69.0	67.9	65.7	64.7	65.7	62.5
52.5°	22.6	23.7	22.6	21.6	22.6	23.7	22.6	22.6	22.6	22.6	22.6
55°	5.4	5.4	5.4	5.4	5.4	5.4	4.3	4.3	5.4	5.4	5.4
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°	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
2.5°	65.7	56.0	46.3	36.6	26.9	21.6	20.5	19.4
5°	99.2	79.8	52.8	31.3	18.3	12.9	9.7	8.6
7.5°	133.7	99.2	58.2	25.9	12.9	5.4	2.2	1.1
10°	191.9	117.5	60.4	20.5	6.5	0.0	0.0	0.0
12.5°	376.2	134.7	59.3	16.2	1.1	0.0	0.0	0.0
15°	625.1	188.6	55.0	10.8	0.0	0.0	0.0	0.0
17.5°	1024.0	243.6	47.4	7.5	0.0	0.0	0.0	0.0
20°	1587.7	270.5	36.6	3.2	0.0	0.0	0.0	0.0
21°	1861.4	272.7	32.3	2.2	0.0	0.0	0.0	0.0
22°	2098.6	272.7	28.0	1.1	0.0	0.0	0.0	0.0
23°	2318.4	269.5	24.8	0.0	0.0	0.0	0.0	0.0
24°	2499.5	265.1	22.6	0.0	0.0	0.0	0.0	0.0
25°	2635.3	258.7	20.5	0.0	0.0	0.0	0.0	0.0
26°	2697.8	250.1	17.2	0.0	0.0	0.0	0.0	0.0
27°	2729.1	238.2	15.1	0.0	0.0	0.0	0.0	0.0
28°	2707.5	225.3	12.9	0.0	0.0	0.0	0.0	0.0
29°	2653.6	211.3	9.7	0.0	0.0	0.0	0.0	0.0
30°	2583.6	195.1	7.5	0.0	0.0	0.0	0.0	0.0
31°	2481.2	178.9	5.4	0.0	0.0	0.0	0.0	0.0
32°	2341.1	162.8	4.3	0.0	0.0	0.0	0.0	0.0
33°	2153.5	145.5	2.2	0.0	0.0	0.0	0.0	0.0
34°	1921.8	128.3	1.1	0.0	0.0	0.0	0.0	0.0
35°	1662.0	113.2	0.0	0.0	0.0	0.0	0.0	0.0
36°	1438.9	97.0	0.0	0.0	0.0	0.0	0.0	0.0
37°	1214.7	77.6	0.0	0.0	0.0	0.0	0.0	0.0
38°	1017.5	61.4	0.0	0.0	0.0	0.0	0.0	0.0
39°	841.8	49.6	0.0	0.0	0.0	0.0	0.0	0.0
40°	697.4	33.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	385.9	22.6	0.0	0.0	0.0	0.0	0.0	0.0
45°	233.9	12.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	135.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	51.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.3	0.0	0.0	1.1	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.1	2.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.1	2.2	1.1	0.0	0.0	0.0
65°	0.0	0.0	2.2	2.2	1.1	0.0	0.0	0.0
67.5°	0.0	0.0	2.2	3.2	1.1	0.0	0.0	0.0
70°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
72.5°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
75°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
77.5°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
80°	0.0	1.1	2.2	3.2	1.1	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	1.1	2.2	3.2	1.1	0.0	0.0	0.0
85°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
87.5°	0.0	1.1	2.2	3.2	1.1	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)