

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: P1319275

Luminaire Tested: P3SQAS02R15B2750DE010 E3SQCA451MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R15B2750DE010 E3SQCA451MMS_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

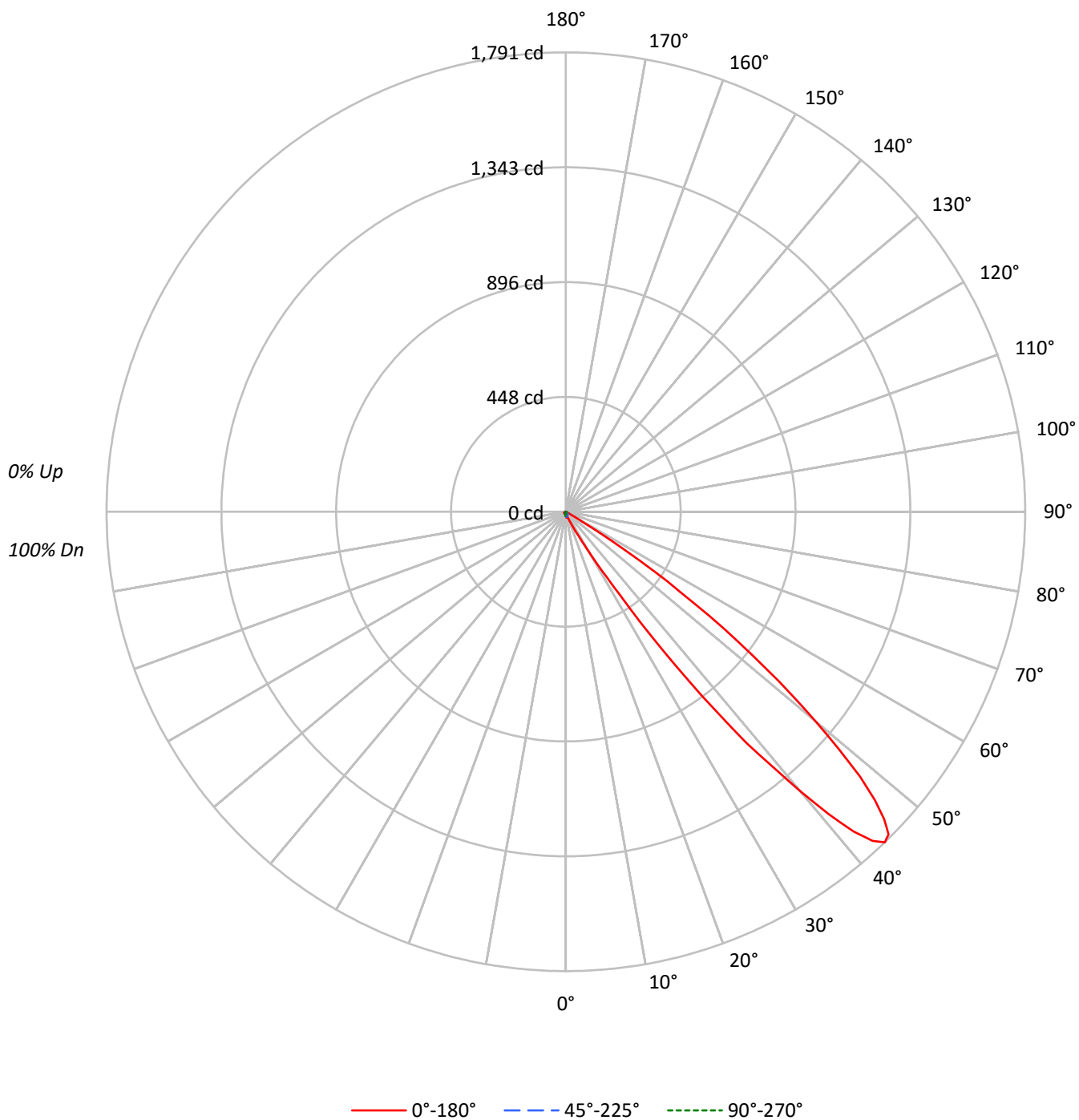
Lumens per Lamp: N/A
Luminaire Lumens: 200.1 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.48 / 1.09
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 2.9
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



TEST NUMBER: P1319275

CATALOG NUMBER: P3SQA02R15B2750DE010 E3SQA451MMS_3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	110	106	102	99	107	104	100	97	100	97	94		96	93	91		92	90	89		87
2	101	93	87	81	98	91	85	80	87	83	78		84	80	77		81	78	75		73
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63		61
4	83	71	62	55	80	69	61	55	67	60	54		64	58	53		62	57	53		50
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55	49	44		42
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	42	37		35
7	62	47	38	32	60	47	38	32	45	37	31		44	36	31		42	36	31		29
8	56	42	33	27	55	41	33	27	40	32	26		39	31	26		37	31	26		24
9	52	37	28	22	50	37	28	22	35	28	22		34	27	22		33	27	22		20
10	48	33	25	19	46	33	25	19	32	24	19		31	24	19		30	23	19		17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3048	3048	3048	3048	3048
5°	3786	3371	2766	2420	2386
10°	3725	2903	2134	1889	1924
15°	3085	2068	1533	1569	1676
20°	5370	1649	1173	1356	1540
25°	11972	1976	950	1254	1444
30°	35816	2426	835	1233	1511
35°	137858	2733	757	1261	1598
40°	319987	2383	719	1304	1709
45°	433390	1802	633	1413	1851
50°	339817	1072	643	1500	2036
55°	163102	480	601	1621	2222
60°	14914	69	551	1722	2480
65°	1630	0	489	1793	2690
70°	403	0	604	1913	2921
75°	399	133	799	2129	3327
80°	397	397	992	2182	3570
85°	395	395	1581	1976	3952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 433390 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.8
10°-20°	3.2	1.6
20°-30°	7.6	3.8
30°-40°	41.4	20.7
40°-50°	100.2	50.1
50°-60°	40.0	20.0
60°-70°	3.5	1.7
70°-80°	2.0	1.0
80°-90°	0.9	0.4
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°	12.2	6.1
0°-40°	53.6	26.8
0°-60°	193.8	96.9
0°-90°	200.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	200.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	22	20	16	14	14	2
15°	17	12	9	9	9	6
25°	63	10	5	7	8	38
35°	656	13	4	6	8	463
45°	1779	7	3	6	8	1255
55°	543	2	2	5	7	506
65°	4	0	1	4	7	10
75°	1	0	1	3	5	1
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
2.5°	19.9	19.9	20.1	19.9	19.9	19.9	19.9	19.7	19.7	19.7	19.1
5°	21.9	21.9	21.9	21.9	21.7	21.7	21.7	21.5	21.5	21.3	19.5
7.5°	22.7	22.7	22.5	22.5	22.3	22.3	22.1	21.9	21.7	21.5	18.7
10°	21.3	21.3	21.3	21.1	21.1	20.9	20.7	20.5	20.3	19.9	16.6
12.5°	18.9	18.9	19.1	18.9	18.7	18.5	18.1	17.9	17.7	17.3	13.8
15°	17.3	17.3	17.3	17.2	17.0	16.6	16.4	16.0	15.8	15.2	11.6
17.5°	22.1	22.1	21.9	21.5	20.7	20.1	19.1	18.3	17.3	16.2	10.0
20°	29.3	29.3	28.9	28.5	27.5	26.5	24.9	23.5	21.9	20.5	9.0
22.5°	42.5	43.1	41.9	40.5	39.1	36.7	34.5	32.3	29.5	27.1	9.2
25°	63.0	63.6	63.0	59.8	57.2	54.0	49.9	45.5	40.7	36.3	10.4
27.5°	102.1	102.5	101.5	93.7	89.5	81.2	73.8	66.6	58.6	50.7	11.4
30°	180.1	180.3	173.9	158.3	144.6	126.2	110.7	95.7	83.2	70.4	12.2
31°	237.1	231.5	218.0	199.2	177.3	152.6	131.2	111.9	93.1	79.4	12.4
32°	301.1	300.3	277.8	245.3	216.0	185.1	153.0	128.2	106.7	87.9	12.6
33°	385.9	386.3	350.8	312.5	264.4	223.0	180.9	147.0	121.0	98.1	13.0
34°	518.3	487.2	445.5	393.7	328.2	265.8	211.2	168.7	134.0	107.9	13.0
35°	655.7	624.4	578.5	499.9	410.2	322.9	247.3	192.0	149.6	118.5	13.0
36°	809.6	783.1	713.7	613.4	498.9	376.7	285.6	219.0	164.9	128.0	12.8
37°	976.0	937.1	860.1	750.6	597.5	452.5	332.2	245.7	180.3	138.4	12.4
38°	1144.9	1109.8	1012.6	880.0	715.1	532.4	378.9	271.4	194.4	146.2	11.8
39°	1272.9	1253.7	1157.4	1009.3	809.0	608.2	427.0	298.9	209.4	154.0	11.2
40°	1423.3	1392.3	1301.0	1117.7	920.1	685.4	474.0	323.3	221.8	160.1	10.6
41°	1560.5	1521.4	1406.1	1229.0	1009.1	754.8	518.7	348.4	231.7	163.7	10.2
42°	1678.1	1632.6	1512.2	1324.3	1083.4	810.2	554.4	366.3	241.1	166.7	9.6
43°	1754.3	1715.0	1596.5	1395.9	1147.1	861.1	587.7	385.1	246.9	168.7	8.8
44°	1791.4	1751.7	1637.0	1440.8	1186.1	891.6	609.2	398.0	253.3	171.3	8.2
45°	1779.4	1739.1	1628.3	1441.6	1198.3	902.6	618.4	403.8	256.7	173.7	7.4
46°	1724.6	1696.3	1584.6	1404.1	1175.2	890.8	613.2	399.4	255.5	173.7	6.6
47°	1647.6	1615.3	1509.0	1339.7	1119.1	860.5	592.3	386.1	248.1	169.7	5.8
48°	1542.7	1515.2	1403.5	1237.4	1033.2	794.5	545.0	364.3	236.5	161.9	5.0
49°	1411.1	1372.8	1268.9	1106.6	921.1	700.8	483.0	327.6	218.0	151.0	4.4
50°	1268.3	1221.0	1140.9	975.6	805.3	600.8	401.4	277.0	191.8	136.6	4.0
51°	1128.5	1080.5	1004.1	863.5	681.6	498.5	323.9	221.2	157.9	116.9	3.4
52°	983.5	943.3	857.7	747.2	583.5	404.0	269.8	187.1	131.2	98.1	2.8
53°	839.2	811.6	730.3	618.4	468.8	330.0	220.4	160.1	114.5	84.0	2.2
54°	694.6	664.5	602.6	502.9	377.9	260.4	186.9	134.0	99.3	73.2	2.0
55°	543.2	527.7	470.6	383.5	286.4	207.8	151.6	115.3	83.2	61.2	1.6
56°	418.4	400.8	348.8	278.2	212.8	162.7	122.6	94.1	70.4	51.3	1.2
57°	274.0	256.1	221.6	194.2	154.9	118.7	93.7	74.2	57.2	42.5	1.0
58°	161.9	145.6	140.2	119.7	103.3	80.6	69.2	55.2	42.3	33.5	0.6
59°	74.4	75.6	67.2	63.0	57.2	51.3	42.1	36.9	28.9	24.1	0.4
60°	43.3	40.9	39.9	35.7	31.7	28.1	25.3	22.3	18.1	15.6	0.2
62.5°	14.8	14.2	14.6	13.2	12.4	12.0	11.0	9.4	7.8	6.4	0.0
65°	4.0	4.0	3.8	3.6	3.4	3.2	3.0	2.6	2.4	2.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	1.4	1.4	1.2	1.2	1.0	1.0	0.8	0.8	0.6	0.6	0.0
70°	0.8	0.8	0.8	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.0
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.2
75°	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	17.7	17.7	17.7	17.7	17.7	17.7
2.5°	18.3	17.5	16.6	16.0	15.8	15.6
5°	17.5	16.0	14.8	14.0	13.8	13.8
7.5°	15.8	14.0	12.8	12.4	12.2	12.2
10°	13.8	12.2	11.2	10.8	11.0	11.0
12.5°	11.6	10.2	9.8	9.8	10.0	10.2
15°	9.4	8.6	8.6	8.8	9.2	9.4
17.5°	7.8	7.4	7.6	8.0	8.4	8.8
20°	6.4	6.4	6.8	7.4	8.0	8.4
22.5°	5.4	5.6	6.2	6.8	7.6	8.0
25°	4.6	5.0	5.6	6.6	7.4	7.6
27.5°	4.0	4.6	5.4	6.4	7.2	7.6
30°	3.4	4.2	5.2	6.2	7.2	7.6
31°	3.2	4.0	5.0	6.2	7.2	7.6
32°	3.0	4.0	5.0	6.2	7.2	7.6
33°	2.8	3.8	5.0	6.0	7.2	7.6
34°	2.6	3.8	5.0	6.2	7.2	7.6
35°	2.4	3.6	4.8	6.0	7.0	7.6
36°	2.2	3.6	4.8	6.0	7.2	7.6
37°	2.0	3.6	4.8	6.0	7.0	7.6
38°	2.0	3.4	4.6	6.0	7.0	7.6
39°	1.8	3.2	4.6	6.0	7.0	7.6
40°	1.6	3.2	4.4	5.8	7.0	7.6
41°	1.4	3.0	4.4	5.8	7.0	7.6
42°	1.2	3.0	4.4	5.8	7.0	7.6
43°	1.0	2.8	4.2	5.8	7.0	7.6
44°	1.0	2.8	4.2	5.8	7.0	7.6
45°	0.8	2.6	4.0	5.8	7.0	7.6
46°	0.8	2.6	4.0	5.6	7.0	7.6
47°	0.6	2.6	4.0	5.6	7.0	7.6
48°	0.6	2.4	4.0	5.6	7.0	7.6
49°	0.4	2.4	4.0	5.6	7.0	7.6
50°	0.4	2.4	3.8	5.6	7.0	7.6
51°	0.4	2.4	3.8	5.6	7.0	7.6
52°	0.4	2.2	3.8	5.6	7.0	7.6
53°	0.4	2.2	3.8	5.6	7.0	7.6
54°	0.4	2.2	3.6	5.6	7.0	7.6
55°	0.4	2.0	3.6	5.4	7.0	7.4
56°	0.4	2.0	3.6	5.4	7.0	7.4
57°	0.4	2.0	3.4	5.4	7.0	7.4
58°	0.4	1.8	3.4	5.2	6.8	7.4
59°	0.4	1.8	3.2	5.2	6.8	7.2
60°	0.4	1.6	3.2	5.0	6.6	7.2
62.5°	0.4	1.4	2.8	4.8	6.4	6.8
65°	0.4	1.2	2.6	4.4	6.2	6.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	1.2	2.4	4.2	5.8	6.4
70°	0.4	1.2	2.2	3.8	5.6	5.8
72.5°	0.6	1.2	2.0	3.6	5.2	5.4
75°	0.8	1.2	1.8	3.2	4.8	5.0
77.5°	0.8	1.2	1.6	2.8	4.2	4.4
80°	0.8	1.0	1.4	2.2	3.4	3.6
82.5°	0.8	1.0	1.0	1.8	2.6	2.8
85°	0.6	0.8	0.8	1.0	1.8	2.0
87.5°	0.6	0.8	0.4	0.6	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)