

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: P1319334

Luminaire Tested: P3SQAS02R20B2750DE010 E3SQCA301MB_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R20B2750DE010 E3SQCA301MB_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

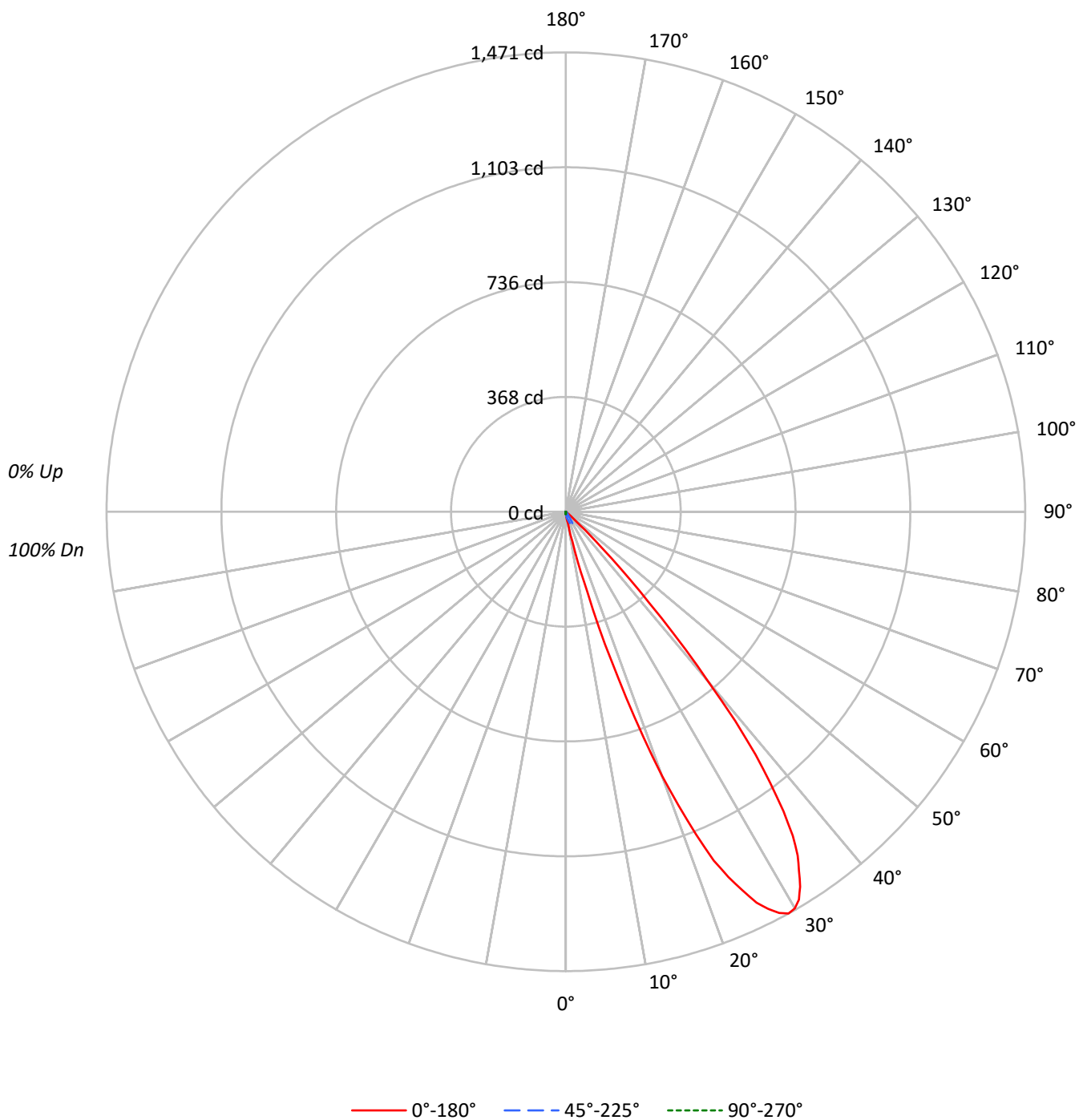
Lumens per Lamp: N/A
Luminaire Lumens: 203.0 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1319334

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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	93	92		
2	106	100	96	92	104	98	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1257	1257	1257	1257	1257
5°	2714	1919	1158	519	380
10°	6785	3393	804	105	0
15°	47695	4636	464	0	0
20°	164838	7808	183	0	0
25°	254085	9976	76	0	0
30°	291636	7716	0	0	0
35°	266359	2922	0	0	0
40°	159690	1371	0	0	0
45°	39237	633	0	0	0
50°	4340	161	0	0	0
55°	601	0	60	0	0
60°	0	0	138	0	0
65°	0	0	163	0	0
70°	0	101	302	0	0
75°	0	133	399	0	0
80°	0	198	595	0	0
85°	0	395	1186	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 41844 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.4
10°-20°	15.9	7.8
20°-30°	80.2	39.5
30°-40°	86.8	42.7
40°-50°	18.3	9.0
50°-60°	0.5	0.3
60°-70°	0.1	0.1
70°-80°	0.2	0.1
80°-90°	0.2	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°	96.9	47.7
0°-40°	183.6	90.5
0°-60°	202.5	99.8
0°-90°	203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	203.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	16	11	7	3	2	2
15°	268	26	3	0	0	112
25°	1337	52	0	0	0	604
35°	1267	14	0	0	0	747
45°	161	3	0	0	0	177
55°	2	0	0	0	0	4
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	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°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
2.5°	9.9	9.7	9.9	9.7	9.9	9.9	9.9	9.7	9.7	9.7	9.7
5°	15.7	15.7	15.5	15.7	15.7	15.7	15.7	15.5	15.5	15.3	15.3
7.5°	24.8	24.8	24.6	24.6	24.8	25.0	24.2	24.6	24.6	24.6	24.4
10°	38.8	39.6	38.8	39.8	39.0	38.4	39.4	38.4	38.4	38.2	37.6
12.5°	97.7	95.5	94.1	90.6	94.1	91.5	92.1	91.5	89.4	86.8	85.2
15°	267.5	267.5	259.6	270.1	262.5	265.3	250.7	251.0	243.5	235.4	231.0
17.5°	559.2	564.3	559.0	555.8	548.9	539.0	535.0	524.7	511.2	495.4	493.6
20°	899.4	878.2	888.1	879.0	873.4	861.3	847.7	839.3	827.3	807.4	777.9
21°	1006.4	1005.6	1005.4	1005.2	996.9	977.2	964.8	947.9	931.1	910.5	885.9
22°	1114.2	1118.1	1119.7	1108.0	1091.0	1082.1	1073.7	1050.4	1024.0	1013.3	984.0
23°	1213.2	1209.5	1199.0	1193.6	1180.5	1177.8	1152.6	1137.9	1112.0	1100.3	1065.6
24°	1280.6	1278.8	1273.9	1265.9	1255.4	1239.2	1224.1	1200.8	1179.6	1160.5	1128.2
25°	1337.1	1338.7	1329.9	1324.4	1313.1	1294.9	1276.4	1250.9	1231.1	1208.7	1171.4
26°	1393.0	1381.7	1374.7	1366.6	1354.3	1333.5	1315.5	1292.7	1268.7	1243.6	1207.1
27°	1427.6	1417.5	1406.8	1398.9	1384.8	1365.0	1345.8	1320.6	1293.7	1268.5	1230.9
28°	1454.8	1443.7	1433.2	1423.7	1407.6	1386.4	1363.4	1337.7	1309.9	1283.8	1245.5
29°	1471.0	1457.9	1446.5	1435.8	1421.1	1398.1	1374.9	1347.4	1320.6	1293.3	1254.1
30°	1466.5	1455.2	1444.3	1433.4	1418.5	1396.9	1373.9	1347.6	1320.6	1293.7	1253.9
31°	1449.2	1435.2	1427.4	1416.5	1403.5	1381.5	1361.8	1333.1	1308.7	1279.6	1239.8
32°	1415.9	1407.0	1396.5	1388.0	1375.5	1352.1	1332.7	1309.3	1280.4	1256.6	1214.8
33°	1370.6	1362.4	1357.1	1347.2	1335.1	1319.0	1295.7	1274.3	1241.8	1217.4	1175.6
34°	1327.4	1316.9	1303.8	1301.0	1290.5	1269.7	1248.7	1226.9	1197.8	1166.7	1124.5
35°	1266.9	1256.0	1243.8	1244.9	1232.3	1208.1	1186.7	1162.3	1134.6	1098.1	1058.1
36°	1185.9	1178.6	1176.8	1172.0	1157.6	1128.8	1108.4	1077.7	1054.5	1009.9	975.5
37°	1087.2	1089.8	1076.7	1070.4	1053.7	1033.5	1022.0	982.6	955.5	922.0	875.6
38°	987.4	983.6	968.1	971.9	948.9	927.9	895.4	872.0	841.7	810.6	773.4
39°	862.9	853.4	834.8	835.6	818.3	794.6	763.1	735.5	717.3	687.4	651.9
40°	710.3	706.2	699.8	689.1	666.2	655.9	627.9	598.0	582.7	541.3	523.9
42.5°	394.1	388.6	377.7	373.9	361.8	349.7	333.3	313.3	303.6	291.3	263.9
45°	161.1	171.8	169.2	166.2	156.9	157.5	145.8	147.2	136.5	129.2	124.2
47.5°	35.5	38.6	38.8	37.3	38.8	37.6	36.9	35.9	36.1	36.7	35.3
50°	16.2	15.9	16.4	16.2	15.9	15.7	15.5	14.9	15.3	14.9	14.5
52.5°	6.3	6.5	6.5	6.1	6.3	6.3	6.3	6.1	6.1	6.1	6.1
55°	2.0	2.0	2.0	1.8	1.8	2.0	2.0	2.0	2.0	2.0	1.8
57.5°	0.2	0.4	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.4
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

TEST NUMBER: P1319334

CATALOG NUMBER: P3SQAS02R20B2750DE010 E3SQCA301MB_2700K

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
2.5°	9.3	8.5	7.9	7.3	6.1	5.0	4.6	4.6
5°	14.3	11.1	8.3	6.7	4.6	3.0	2.4	2.2
7.5°	21.6	14.9	8.7	5.7	3.0	1.6	1.0	0.8
10°	31.3	19.4	9.1	4.6	1.8	0.6	0.0	0.0
12.5°	54.7	23.2	9.1	3.6	0.8	0.0	0.0	0.0
15°	125.4	26.0	8.7	2.6	0.2	0.0	0.0	0.0
17.5°	260.4	32.7	7.7	1.8	0.0	0.0	0.0	0.0
20°	415.9	42.6	6.1	1.0	0.0	0.0	0.0	0.0
21°	479.9	46.0	5.5	0.8	0.0	0.0	0.0	0.0
22°	525.9	49.3	4.8	0.6	0.0	0.0	0.0	0.0
23°	576.6	51.3	4.2	0.4	0.0	0.0	0.0	0.0
24°	613.9	52.5	3.6	0.4	0.0	0.0	0.0	0.0
25°	637.2	52.5	3.2	0.4	0.0	0.0	0.0	0.0
26°	650.9	51.3	2.8	0.2	0.0	0.0	0.0	0.0
27°	654.1	49.3	2.4	0.2	0.0	0.0	0.0	0.0
28°	650.1	46.6	2.0	0.0	0.0	0.0	0.0	0.0
29°	637.4	42.8	1.8	0.0	0.0	0.0	0.0	0.0
30°	623.6	38.8	1.4	0.0	0.0	0.0	0.0	0.0
31°	600.2	33.3	1.2	0.0	0.0	0.0	0.0	0.0
32°	573.2	27.7	1.0	0.0	0.0	0.0	0.0	0.0
33°	537.0	21.8	0.8	0.0	0.0	0.0	0.0	0.0
34°	483.7	17.2	0.8	0.0	0.0	0.0	0.0	0.0
35°	435.9	13.9	0.6	0.0	0.0	0.0	0.0	0.0
36°	373.3	11.1	0.6	0.0	0.0	0.0	0.0	0.0
37°	319.8	9.3	0.6	0.0	0.0	0.0	0.0	0.0
38°	267.7	7.9	0.4	0.0	0.0	0.0	0.0	0.0
39°	217.2	6.9	0.4	0.0	0.0	0.0	0.0	0.0
40°	173.2	6.1	0.4	0.0	0.0	0.0	0.0	0.0
42.5°	93.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	51.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	22.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	7.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.8	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.4	0.2	0.0	0.0	0.0
65°	0.0	0.0	0.4	0.4	0.2	0.0	0.0	0.0
67.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.4	0.6	0.2	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	0.2	0.4	0.6	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.4	0.6	0.2	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)