

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: P1319338

Luminaire Tested: P3SQAS02R20B2750DE010 E3SQCA301MB_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319338
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_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 80CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

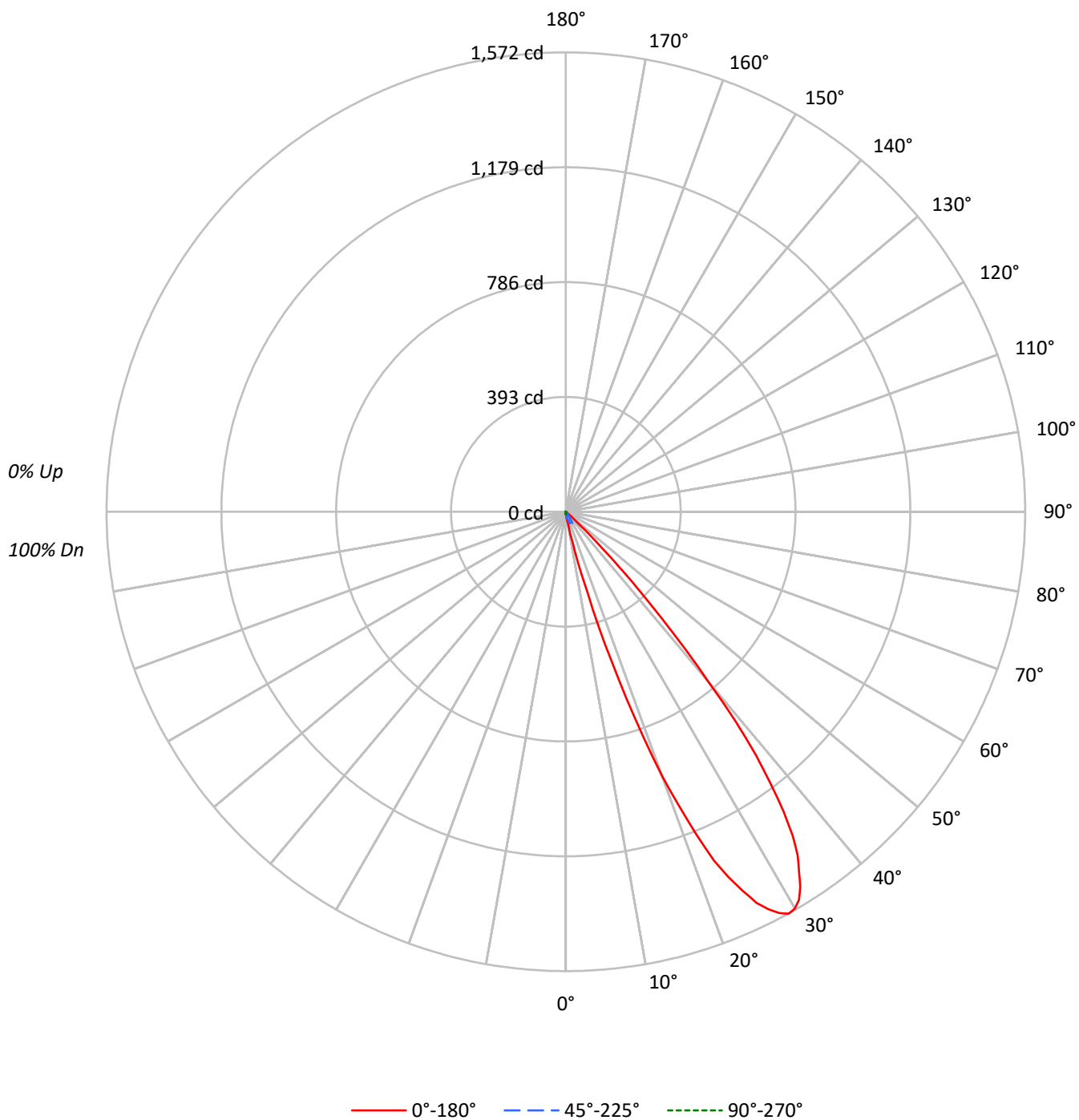
Lumens per Lamp: N/A
Luminaire Lumens: 217.0 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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



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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°	1343	1343	1343	1343	1343
5°	2904	2057	1227	553	415
10°	7240	3620	874	105	0
15°	50993	4957	499	0	0
20°	176219	8339	202	0	0
25°	271605	10660	76	0	0
30°	311762	8233	0	0	0
35°	284714	3133	0	0	0
40°	170684	1461	0	0	0
45°	41941	682	0	0	0
50°	4635	161	0	0	0
55°	661	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: 44742 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.4
10°-20°	16.9	7.8
20°-30°	85.7	39.5
30°-40°	92.7	42.7
40°-50°	19.6	9.0
50°-60°	0.6	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°	103.6	47.7
0°-40°	196.3	90.5
0°-60°	216.5	99.8
0°-90°	217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	217.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	17	12	7	3	2	2
15°	286	28	3	0	0	119
25°	1429	56	0	0	0	646
35°	1354	15	0	0	0	799
45°	172	3	0	0	0	189
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°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
2.5°	10.6	10.4	10.6	10.4	10.6	10.6	10.6	10.4	10.4	10.4	10.4
5°	16.8	16.8	16.6	16.8	16.8	16.8	16.8	16.6	16.6	16.4	16.4
7.5°	26.5	26.5	26.3	26.3	26.5	26.8	25.9	26.3	26.3	26.3	26.1
10°	41.4	42.3	41.4	42.5	41.7	41.0	42.1	41.0	41.0	40.8	40.1
12.5°	104.5	102.1	100.6	96.9	100.6	97.8	98.4	97.8	95.6	92.8	91.1
15°	286.0	286.0	277.5	288.8	280.6	283.6	268.0	268.3	260.3	251.6	246.9
17.5°	597.8	603.2	597.6	594.1	586.8	576.2	571.9	560.9	546.4	529.6	527.7
20°	961.5	938.8	949.4	939.7	933.6	920.7	906.2	897.1	884.4	863.0	831.5
21°	1075.8	1075.0	1074.8	1074.5	1065.7	1044.5	1031.4	1013.2	995.3	973.3	947.0
22°	1191.1	1195.2	1196.9	1184.4	1166.3	1156.8	1147.7	1122.9	1094.6	1083.2	1051.9
23°	1296.8	1292.9	1281.7	1275.9	1261.9	1259.1	1232.1	1216.3	1188.7	1176.2	1139.1
24°	1368.9	1367.0	1361.8	1353.2	1341.9	1324.7	1308.5	1283.7	1261.0	1240.5	1206.0
25°	1429.3	1431.1	1421.6	1415.7	1403.7	1384.2	1364.4	1337.2	1316.0	1292.1	1252.2
26°	1489.1	1477.0	1469.5	1460.8	1447.7	1425.5	1406.2	1381.9	1356.2	1329.4	1290.4
27°	1526.0	1515.2	1503.8	1495.4	1480.3	1459.1	1438.6	1411.6	1382.9	1356.0	1315.8
28°	1555.2	1543.3	1532.1	1521.9	1504.7	1482.0	1457.4	1430.0	1400.2	1372.4	1331.4
29°	1572.4	1558.4	1546.3	1534.9	1519.1	1494.5	1469.7	1440.3	1411.6	1382.5	1340.6
30°	1567.7	1555.6	1543.9	1532.3	1516.3	1493.2	1468.6	1440.6	1411.6	1382.9	1340.4
31°	1549.1	1534.2	1525.8	1514.2	1500.3	1476.8	1455.7	1425.0	1398.9	1367.8	1325.3
32°	1513.5	1504.0	1492.8	1483.7	1470.3	1445.3	1424.6	1399.6	1368.7	1343.2	1298.6
33°	1465.2	1456.3	1450.7	1440.1	1427.2	1409.9	1385.1	1362.2	1327.5	1301.4	1256.7
34°	1419.0	1407.8	1393.7	1390.7	1379.5	1357.3	1334.8	1311.5	1280.4	1247.2	1202.1
35°	1354.2	1342.6	1329.6	1330.7	1317.3	1291.4	1268.6	1242.4	1212.9	1173.8	1131.1
36°	1267.7	1259.9	1258.0	1252.8	1237.5	1206.6	1184.8	1152.0	1127.2	1079.5	1042.8
37°	1162.2	1165.0	1150.9	1144.2	1126.3	1104.8	1092.5	1050.4	1021.4	985.6	936.0
38°	1055.5	1051.4	1034.8	1038.9	1014.3	991.9	957.1	932.1	899.7	866.5	826.8
39°	922.4	912.2	892.4	893.3	874.7	849.4	815.8	786.2	766.8	734.8	696.9
40°	759.2	754.9	748.0	736.6	712.2	701.2	671.2	639.2	622.8	578.6	560.0
42.5°	421.3	415.4	403.8	399.7	386.7	373.8	356.3	334.9	324.6	311.4	282.1
45°	172.2	183.7	180.9	177.6	167.7	168.3	155.8	157.3	145.9	138.1	132.7
47.5°	38.0	41.2	41.4	39.9	41.4	40.1	39.5	38.4	38.6	39.3	37.8
50°	17.3	17.0	17.5	17.3	17.0	16.8	16.6	16.0	16.4	16.0	15.5
52.5°	6.7	6.9	6.9	6.5	6.7	6.7	6.7	6.5	6.5	6.5	6.5
55°	2.2	2.2	2.2	1.9	1.9	2.2	2.2	2.2	2.2	2.2	1.9
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

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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
2.5°	9.9	9.1	8.4	7.8	6.5	5.4	5.0	5.0
5°	15.3	11.9	8.8	7.1	5.0	3.2	2.6	2.4
7.5°	23.1	16.0	9.3	6.0	3.2	1.7	1.1	0.9
10°	33.5	20.7	9.7	5.0	1.9	0.6	0.0	0.0
12.5°	58.5	24.8	9.7	3.9	0.9	0.0	0.0	0.0
15°	134.0	27.8	9.3	2.8	0.2	0.0	0.0	0.0
17.5°	278.4	35.0	8.2	1.9	0.0	0.0	0.0	0.0
20°	444.6	45.5	6.5	1.1	0.0	0.0	0.0	0.0
21°	513.0	49.2	5.8	0.9	0.0	0.0	0.0	0.0
22°	562.2	52.7	5.2	0.6	0.0	0.0	0.0	0.0
23°	616.4	54.8	4.5	0.4	0.0	0.0	0.0	0.0
24°	656.3	56.1	3.9	0.4	0.0	0.0	0.0	0.0
25°	681.1	56.1	3.5	0.4	0.0	0.0	0.0	0.0
26°	695.8	54.8	3.0	0.2	0.0	0.0	0.0	0.0
27°	699.2	52.7	2.6	0.2	0.0	0.0	0.0	0.0
28°	694.9	49.9	2.2	0.0	0.0	0.0	0.0	0.0
29°	681.3	45.8	1.9	0.0	0.0	0.0	0.0	0.0
30°	666.6	41.4	1.5	0.0	0.0	0.0	0.0	0.0
31°	641.6	35.6	1.3	0.0	0.0	0.0	0.0	0.0
32°	612.7	29.6	1.1	0.0	0.0	0.0	0.0	0.0
33°	574.1	23.3	0.9	0.0	0.0	0.0	0.0	0.0
34°	517.1	18.3	0.9	0.0	0.0	0.0	0.0	0.0
35°	465.9	14.9	0.6	0.0	0.0	0.0	0.0	0.0
36°	399.0	11.9	0.6	0.0	0.0	0.0	0.0	0.0
37°	341.8	9.9	0.6	0.0	0.0	0.0	0.0	0.0
38°	286.2	8.4	0.4	0.0	0.0	0.0	0.0	0.0
39°	232.2	7.3	0.4	0.0	0.0	0.0	0.0	0.0
40°	185.2	6.5	0.4	0.0	0.0	0.0	0.0	0.0
42.5°	99.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	55.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	24.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	8.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.9	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)