

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: P1319340

Luminaire Tested: P3SQAS02R20B2750DE010 E3SQCA301MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319340
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 E3SQCA301MMS_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

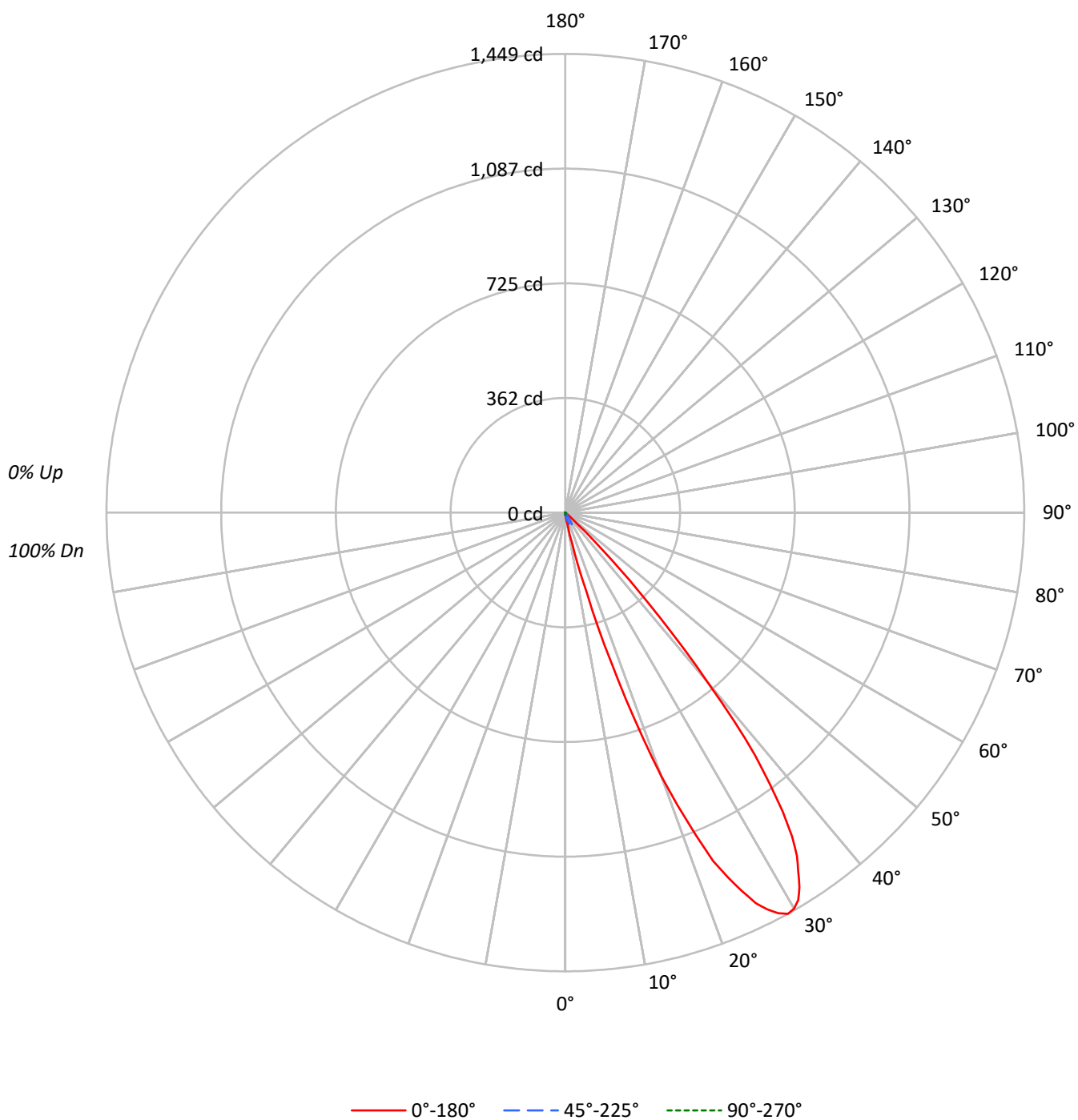
Lumens per Lamp: N/A
Luminaire Lumens: 200.0 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1319340

CATALOG NUMBER: P3SQAS02R20B2750DE010 E3SQCA301MMS_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1319340

CATALOG NUMBER: P3SQA02R20B2750DE010 E3SQA301MMS_3000K

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°	1240	1240	1240	1240	1240
5°	2680	1884	1141	519	380
10°	6680	3340	804	105	0
15°	46999	4582	464	0	0
20°	162400	7698	183	0	0
25°	250341	9824	76	0	0
30°	287341	7597	0	0	0
35°	262407	2880	0	0	0
40°	157330	1349	0	0	0
45°	38653	633	0	0	0
50°	4260	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: 41235 cd/sqm

TEST NUMBER: P1319340

CATALOG NUMBER: P3SQAS02R20B2750DE010 E3SQCA301MMS_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.4
10°-20°	15.6	7.8
20°-30°	79.0	39.5
30°-40°	85.5	42.7
40°-50°	18.1	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°	95.4	47.7
0°-40°	180.9	90.5
0°-60°	199.5	99.8
0°-90°	200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	200.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	16	11	7	3	2	2
15°	264	26	3	0	0	110
25°	1317	52	0	0	0	595
35°	1248	14	0	0	0	736
45°	159	3	0	0	0	175
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	

TEST NUMBER: P1319340

CATALOG NUMBER: P3SQAS02R20B2750DE010 E3SQCA301MMS_3000K

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
2.5°	9.7	9.5	9.7	9.5	9.7	9.7	9.7	9.5	9.5	9.5	9.5
5°	15.5	15.5	15.3	15.5	15.5	15.5	15.5	15.3	15.3	15.1	15.1
7.5°	24.5	24.5	24.3	24.3	24.5	24.7	23.9	24.3	24.3	24.3	24.1
10°	38.2	39.0	38.2	39.2	38.4	37.8	38.8	37.8	37.8	37.6	37.0
12.5°	96.3	94.1	92.7	89.3	92.7	90.1	90.7	90.1	88.1	85.5	83.9
15°	263.6	263.6	255.8	266.1	258.6	261.4	247.0	247.2	239.9	231.9	227.5
17.5°	551.0	555.9	550.8	547.6	540.8	531.1	527.1	517.0	503.6	488.1	486.3
20°	886.1	865.2	875.0	866.0	860.5	848.5	835.2	826.9	815.1	795.4	766.4
21°	991.6	990.8	990.6	990.4	982.2	962.7	950.6	933.9	917.4	897.1	872.8
22°	1097.8	1101.5	1103.1	1091.6	1074.9	1066.1	1057.8	1034.9	1008.9	998.3	969.5
23°	1195.2	1191.7	1181.3	1175.9	1163.0	1160.4	1135.6	1121.0	1095.6	1084.0	1049.8
24°	1261.7	1259.9	1255.1	1247.1	1236.8	1220.9	1206.0	1183.1	1162.2	1143.3	1111.5
25°	1317.4	1319.0	1310.2	1304.8	1293.7	1275.8	1257.5	1232.4	1212.9	1190.9	1154.1
26°	1372.5	1361.3	1354.4	1346.4	1334.3	1313.8	1296.1	1273.6	1249.9	1225.3	1189.3
27°	1406.5	1396.5	1386.0	1378.2	1364.3	1344.8	1325.9	1301.1	1274.6	1249.7	1212.7
28°	1433.3	1422.4	1412.0	1402.7	1386.8	1365.9	1343.2	1318.0	1290.5	1264.8	1227.1
29°	1449.2	1436.3	1425.2	1414.6	1400.1	1377.4	1354.6	1327.5	1301.1	1274.2	1235.6
30°	1444.9	1433.7	1423.0	1412.2	1397.5	1376.2	1353.6	1327.7	1301.1	1274.6	1235.4
31°	1427.8	1414.0	1406.3	1395.5	1382.8	1361.1	1341.6	1313.4	1289.3	1260.7	1221.5
32°	1394.9	1386.2	1375.8	1367.5	1355.2	1332.1	1313.0	1289.9	1261.5	1238.0	1196.8
33°	1350.4	1342.2	1337.1	1327.3	1315.4	1299.5	1276.6	1255.5	1223.5	1199.4	1158.2
34°	1307.8	1297.5	1284.5	1281.8	1271.4	1250.9	1230.2	1208.8	1180.1	1149.5	1107.9
35°	1248.1	1237.4	1225.5	1226.5	1214.1	1190.3	1169.2	1145.1	1117.9	1081.9	1042.5
36°	1168.4	1161.2	1159.4	1154.7	1140.5	1112.1	1092.0	1061.8	1038.9	994.9	961.1
37°	1071.1	1073.7	1060.8	1054.6	1038.1	1018.2	1006.9	968.1	941.4	908.4	862.7
38°	972.9	969.1	953.8	957.5	934.9	914.2	882.2	859.1	829.2	798.6	762.0
39°	850.1	840.8	822.5	823.3	806.2	782.9	751.9	724.6	706.7	677.3	642.3
40°	699.8	695.8	689.4	678.9	656.4	646.2	618.6	589.2	574.0	533.3	516.2
42.5°	388.3	382.9	372.2	368.4	356.4	344.5	328.4	308.7	299.2	287.0	260.0
45°	158.7	169.3	166.7	163.7	154.6	155.1	143.6	145.0	134.5	127.3	122.3
47.5°	35.0	38.0	38.2	36.8	38.2	37.0	36.4	35.4	35.6	36.2	34.8
50°	15.9	15.7	16.1	15.9	15.7	15.5	15.3	14.7	15.1	14.7	14.3
52.5°	6.2	6.4	6.4	6.0	6.2	6.2	6.2	6.0	6.0	6.0	6.0
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: P1319340

CATALOG NUMBER: P3SQA02R20B2750DE010 E3SQA301MMS_3000K

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
2.5°	9.1	8.4	7.8	7.2	6.0	5.0	4.6	4.6
5°	14.1	10.9	8.2	6.6	4.6	3.0	2.4	2.2
7.5°	21.3	14.7	8.6	5.6	3.0	1.6	1.0	0.8
10°	30.8	19.1	9.0	4.6	1.8	0.6	0.0	0.0
12.5°	53.9	22.9	9.0	3.6	0.8	0.0	0.0	0.0
15°	123.5	25.7	8.6	2.6	0.2	0.0	0.0	0.0
17.5°	256.6	32.2	7.6	1.8	0.0	0.0	0.0	0.0
20°	409.7	42.0	6.0	1.0	0.0	0.0	0.0	0.0
21°	472.8	45.4	5.4	0.8	0.0	0.0	0.0	0.0
22°	518.2	48.5	4.8	0.6	0.0	0.0	0.0	0.0
23°	568.1	50.5	4.2	0.4	0.0	0.0	0.0	0.0
24°	604.9	51.7	3.6	0.4	0.0	0.0	0.0	0.0
25°	627.8	51.7	3.2	0.4	0.0	0.0	0.0	0.0
26°	641.3	50.5	2.8	0.2	0.0	0.0	0.0	0.0
27°	644.5	48.5	2.4	0.2	0.0	0.0	0.0	0.0
28°	640.5	45.9	2.0	0.0	0.0	0.0	0.0	0.0
29°	627.9	42.2	1.8	0.0	0.0	0.0	0.0	0.0
30°	614.4	38.2	1.4	0.0	0.0	0.0	0.0	0.0
31°	591.4	32.8	1.2	0.0	0.0	0.0	0.0	0.0
32°	564.7	27.3	1.0	0.0	0.0	0.0	0.0	0.0
33°	529.1	21.5	0.8	0.0	0.0	0.0	0.0	0.0
34°	476.6	16.9	0.8	0.0	0.0	0.0	0.0	0.0
35°	429.4	13.7	0.6	0.0	0.0	0.0	0.0	0.0
36°	367.8	10.9	0.6	0.0	0.0	0.0	0.0	0.0
37°	315.1	9.1	0.6	0.0	0.0	0.0	0.0	0.0
38°	263.8	7.8	0.4	0.0	0.0	0.0	0.0	0.0
39°	214.0	6.8	0.4	0.0	0.0	0.0	0.0	0.0
40°	170.7	6.0	0.4	0.0	0.0	0.0	0.0	0.0
42.5°	92.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	50.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	22.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	7.6	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)