

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: P1319342

Luminaire Tested: P3SQAS02R20B2750DE010 E3SQCA301MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319342
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_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 80CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

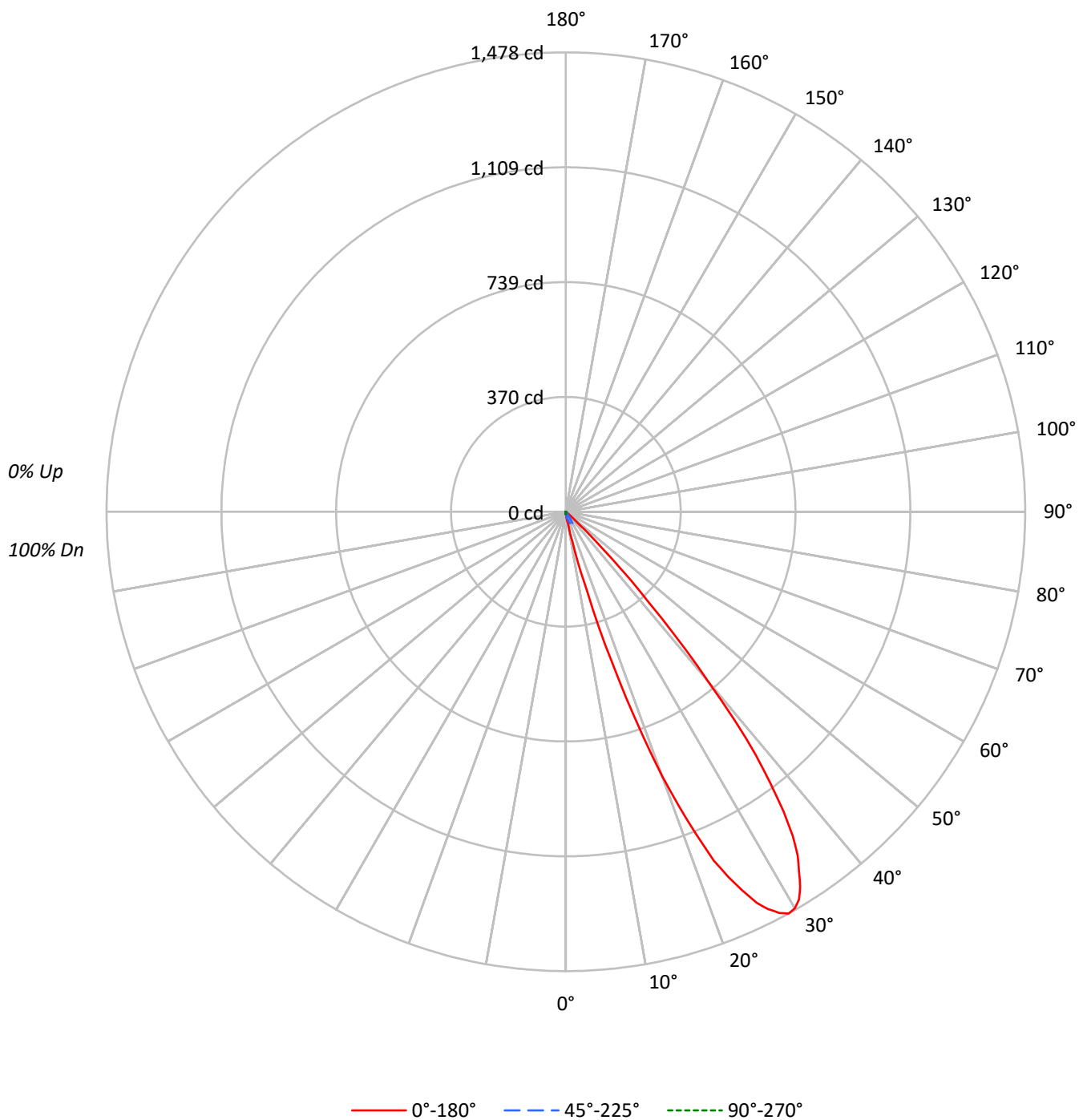
Lumens per Lamp: N/A
Luminaire Lumens: 204.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.43 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1319342

CATALOG NUMBER: P3SQAS02R20B2750DE010 E3SQCA301MMS_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1319342

CATALOG NUMBER: P3SQA02R20B2750DE010 E3SQA301MMS_4000K

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°	2732	1936	1158	519	380
10°	6820	3410	822	105	0
15°	47927	4671	464	0	0
20°	165663	7844	183	0	0
25°	255339	10033	76	0	0
30°	293088	7756	0	0	0
35°	267663	2943	0	0	0
40°	160477	1371	0	0	0
45°	39432	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: 42063 cd/sqm

TEST NUMBER: P1319342

CATALOG NUMBER: P3SQAS02R20B2750DE010 E3SQCA301MMS_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.4
10°-20°	15.9	7.8
20°-30°	80.6	39.5
30°-40°	87.2	42.7
40°-50°	18.4	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°	97.3	47.7
0°-40°	184.5	90.5
0°-60°	203.5	99.8
0°-90°	204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	204.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	16	11	7	3	2	2
15°	269	26	3	0	0	112
25°	1344	53	0	0	0	607
35°	1273	14	0	0	0	751
45°	162	3	0	0	0	178
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: P1319342

CATALOG NUMBER: P3SQAS02R20B2750DE010 E3SQCA301MMS_4000K

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°	15.8	15.8	15.6	15.8	15.8	15.8	15.8	15.6	15.6	15.4	15.4
7.5°	25.0	25.0	24.8	24.8	25.0	25.2	24.3	24.8	24.8	24.8	24.5
10°	39.0	39.8	39.0	40.0	39.2	38.5	39.6	38.5	38.5	38.3	37.7
12.5°	98.2	96.0	94.5	91.1	94.5	91.9	92.5	91.9	89.9	87.2	85.6
15°	268.8	268.8	260.9	271.5	263.8	266.6	252.0	252.2	244.7	236.6	232.1
17.5°	562.0	567.1	561.8	558.5	551.6	541.7	537.6	527.3	513.7	497.9	496.1
20°	903.9	882.6	892.5	883.4	877.7	865.5	851.9	843.4	831.4	811.3	781.7
21°	1011.4	1010.6	1010.4	1010.2	1001.8	982.0	969.6	952.5	935.7	915.0	890.3
22°	1119.7	1123.6	1125.2	1113.4	1096.4	1087.5	1078.9	1055.6	1029.0	1018.3	988.9
23°	1219.1	1215.5	1204.9	1199.5	1186.3	1183.6	1158.3	1143.5	1117.5	1105.7	1070.8
24°	1286.9	1285.1	1280.2	1272.1	1261.5	1245.3	1230.1	1206.8	1185.5	1166.2	1133.7
25°	1343.7	1345.3	1336.4	1330.9	1319.6	1301.3	1282.6	1257.1	1237.2	1214.7	1177.1
26°	1399.9	1388.5	1381.4	1373.3	1361.0	1340.1	1322.0	1299.1	1274.9	1249.8	1213.1
27°	1434.6	1424.5	1413.7	1405.8	1391.6	1371.7	1352.4	1327.1	1300.1	1274.7	1237.0
28°	1462.0	1450.8	1440.3	1430.7	1414.5	1393.2	1370.1	1344.3	1316.3	1290.1	1251.6
29°	1478.2	1465.0	1453.7	1442.9	1428.1	1405.0	1381.6	1354.1	1327.1	1299.7	1260.3
30°	1473.8	1462.4	1451.4	1440.5	1425.5	1403.8	1380.6	1354.3	1327.1	1300.1	1260.1
31°	1456.3	1442.3	1434.4	1423.4	1410.5	1388.3	1368.5	1339.7	1315.1	1285.9	1245.9
32°	1422.8	1413.9	1403.4	1394.8	1382.3	1358.7	1339.2	1315.7	1286.7	1262.8	1220.8
33°	1377.4	1369.1	1363.8	1353.9	1341.7	1325.4	1302.1	1280.6	1247.9	1223.4	1181.4
34°	1334.0	1323.4	1310.2	1307.4	1296.8	1275.9	1254.8	1232.9	1203.7	1172.5	1130.1
35°	1273.1	1262.1	1250.0	1251.0	1238.4	1214.1	1192.6	1168.0	1140.2	1103.5	1063.3
36°	1191.7	1184.4	1182.6	1177.7	1163.3	1134.3	1113.8	1083.0	1059.7	1014.8	980.3
37°	1092.5	1095.2	1082.0	1075.7	1058.9	1038.6	1027.0	987.4	960.3	926.6	879.9
38°	992.3	988.5	972.8	976.7	953.6	932.5	899.8	876.3	845.8	814.6	777.3
39°	867.1	857.6	838.9	839.7	822.3	798.6	766.9	739.1	720.9	690.8	655.1
40°	713.8	709.7	703.2	692.4	669.5	659.2	631.0	600.9	585.5	543.9	526.5
42.5°	396.0	390.6	379.6	375.7	363.6	351.4	335.0	314.9	305.1	292.8	265.2
45°	161.9	172.7	170.0	167.0	157.6	158.3	146.5	147.9	137.2	129.8	124.8
47.5°	35.7	38.8	39.0	37.5	39.0	37.7	37.1	36.1	36.3	36.9	35.5
50°	16.2	16.0	16.4	16.2	16.0	15.8	15.6	15.0	15.4	15.0	14.6
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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CATALOG NUMBER: P3SQAS02R20B2750DE010 E3SQCA301MMS_4000K

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: P1319342

CATALOG NUMBER: P3SQA02R20B2750DE010 E3SQA301MMS_4000K

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	5.1	4.7	4.7
5°	14.4	11.2	8.3	6.7	4.7	3.0	2.4	2.2
7.5°	21.7	15.0	8.7	5.7	3.0	1.6	1.0	0.8
10°	31.4	19.5	9.1	4.7	1.8	0.6	0.0	0.0
12.5°	55.0	23.3	9.1	3.7	0.8	0.0	0.0	0.0
15°	126.0	26.2	8.7	2.6	0.2	0.0	0.0	0.0
17.5°	261.7	32.9	7.7	1.8	0.0	0.0	0.0	0.0
20°	417.9	42.8	6.1	1.0	0.0	0.0	0.0	0.0
21°	482.3	46.3	5.5	0.8	0.0	0.0	0.0	0.0
22°	528.5	49.5	4.9	0.6	0.0	0.0	0.0	0.0
23°	579.4	51.5	4.3	0.4	0.0	0.0	0.0	0.0
24°	617.0	52.8	3.7	0.4	0.0	0.0	0.0	0.0
25°	640.3	52.8	3.2	0.4	0.0	0.0	0.0	0.0
26°	654.1	51.5	2.8	0.2	0.0	0.0	0.0	0.0
27°	657.3	49.5	2.4	0.2	0.0	0.0	0.0	0.0
28°	653.3	46.9	2.0	0.0	0.0	0.0	0.0	0.0
29°	640.5	43.0	1.8	0.0	0.0	0.0	0.0	0.0
30°	626.7	39.0	1.4	0.0	0.0	0.0	0.0	0.0
31°	603.2	33.5	1.2	0.0	0.0	0.0	0.0	0.0
32°	576.0	27.8	1.0	0.0	0.0	0.0	0.0	0.0
33°	539.7	21.9	0.8	0.0	0.0	0.0	0.0	0.0
34°	486.1	17.2	0.8	0.0	0.0	0.0	0.0	0.0
35°	438.0	14.0	0.6	0.0	0.0	0.0	0.0	0.0
36°	375.1	11.2	0.6	0.0	0.0	0.0	0.0	0.0
37°	321.4	9.3	0.6	0.0	0.0	0.0	0.0	0.0
38°	269.0	7.9	0.4	0.0	0.0	0.0	0.0	0.0
39°	218.3	6.9	0.4	0.0	0.0	0.0	0.0	0.0
40°	174.1	6.1	0.4	0.0	0.0	0.0	0.0	0.0
42.5°	93.9	4.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	51.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	22.9	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°	3.9	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)