

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: P1319345

Luminaire Tested: P3SQAS02R20B2750DE010 E3SQCA301MW_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R20B2750DE010 E3SQCA301MW_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

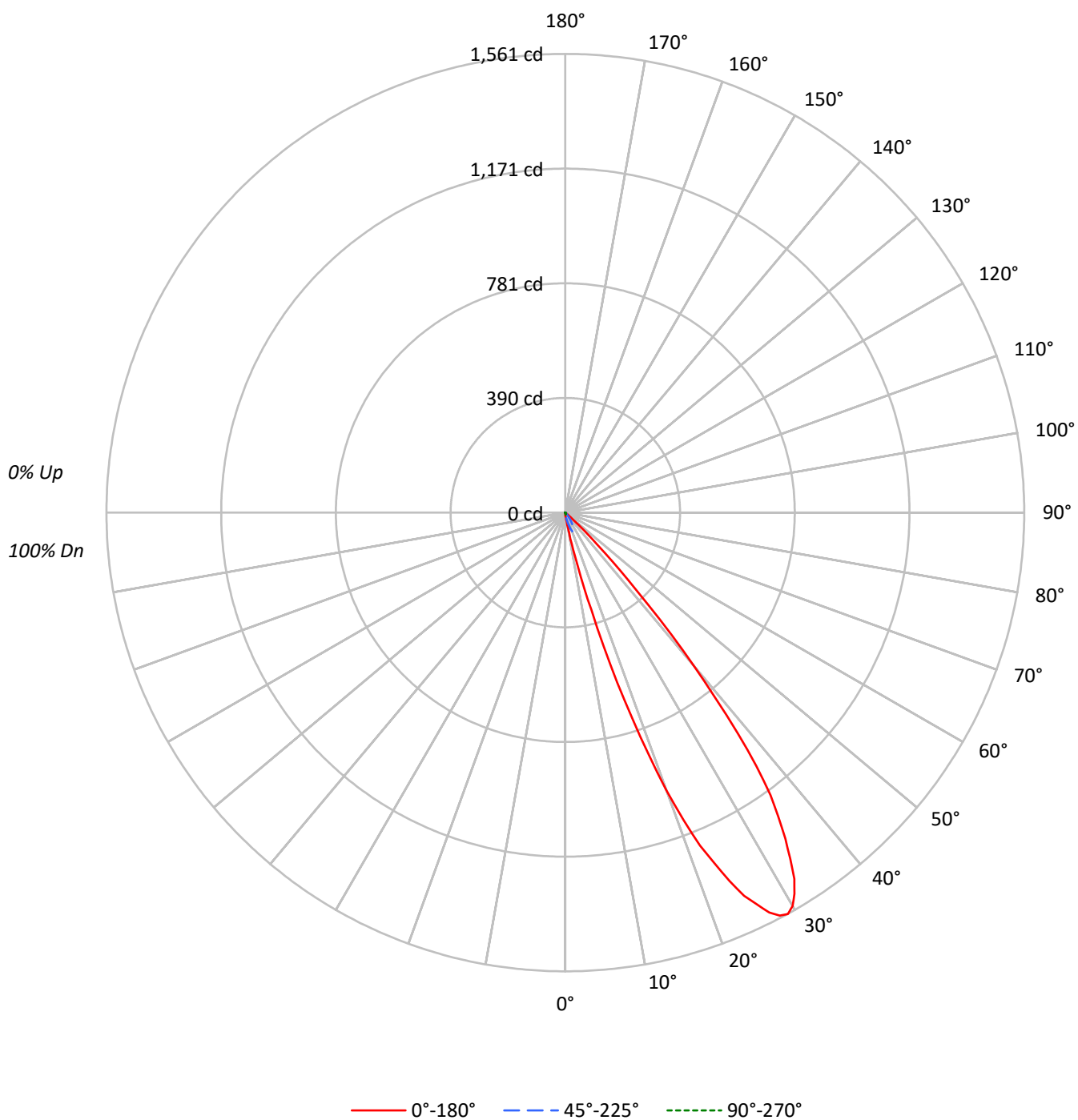
Lumens per Lamp: N/A
Luminaire Lumens: 219.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	96	92	104	99	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	78	73	91	83	77	72	81	76	71		79	74	71		77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64		72	68	64		71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		62	56	52		60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1309	1309	1309	1309	1309
5°	2991	2230	1245	761	657
10°	9409	3900	1014	420	315
15°	60996	7185	749	143	36
20°	184119	12316	513	0	0
25°	273429	12428	304	0	0
30°	307486	9446	119	0	0
35°	265287	5635	84	0	0
40°	152766	1911	0	0	0
45°	37265	779	49	0	49
50°	4474	214	54	54	161
55°	601	0	120	120	240
60°	69	0	207	207	344
65°	82	82	326	326	489
70°	101	101	403	403	504
75°	0	133	532	399	532
80°	0	198	595	397	595
85°	0	395	1186	395	395

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 37508 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	20.3	9.3
20°-30°	88.5	40.4
30°-40°	89.1	40.7
40°-50°	17.9	8.2
50°-60°	0.9	0.4
60°-70°	0.6	0.3
70°-80°	0.5	0.2
80°-90°	0.3	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°	109.8	50.1
0°-40°	198.9	90.8
0°-60°	217.6	99.4
0°-90°	219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	219.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	17	13	7	4	4	3
15°	342	40	4	1	0	134
25°	1439	65	2	0	0	649
35°	1262	27	0	0	0	751
45°	153	3	0	0	0	167
55°	2	0	0	0	1	4
65°	0	0	1	1	1	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	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°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
2.5°	11.3	11.3	11.1	11.1	10.9	11.1	10.7	10.9	10.9	10.7	9.7
5°	17.3	17.7	17.5	17.5	17.3	17.5	17.1	16.7	16.3	16.3	12.9
7.5°	28.4	28.2	27.8	28.0	27.4	27.0	26.6	26.4	25.2	24.6	16.9
10°	53.8	55.0	54.0	53.8	50.3	50.1	47.7	44.3	41.3	39.7	22.3
12.5°	148.2	154.6	144.6	139.9	137.1	126.4	121.8	110.1	98.7	90.2	28.2
15°	342.1	357.8	337.8	339.2	322.5	291.9	265.0	242.0	214.8	187.4	40.3
17.5°	670.4	657.6	646.7	628.2	594.3	549.4	491.5	432.9	382.3	329.2	56.2
20°	1004.6	993.2	968.4	928.1	884.7	818.2	749.4	661.4	576.2	496.3	67.2
21°	1119.6	1115.8	1075.1	1050.2	983.5	919.9	840.6	746.5	650.5	555.9	68.9
22°	1222.3	1199.7	1177.8	1141.0	1074.7	1005.5	917.3	818.2	714.1	609.0	69.1
23°	1293.4	1283.1	1262.4	1220.9	1155.0	1073.7	980.7	877.0	767.3	646.5	68.5
24°	1372.1	1359.0	1328.8	1280.3	1213.8	1133.5	1027.4	924.5	805.3	678.1	67.0
25°	1438.9	1418.4	1382.6	1330.4	1257.7	1174.8	1068.1	955.1	831.7	699.4	65.4
26°	1482.2	1471.1	1425.2	1368.3	1290.5	1205.0	1096.1	978.5	848.8	709.1	62.8
27°	1527.3	1506.8	1461.7	1396.4	1311.9	1224.7	1112.0	989.8	854.7	709.5	59.6
28°	1553.1	1530.9	1479.8	1411.1	1325.8	1235.6	1121.2	993.4	853.6	703.3	55.8
29°	1561.3	1533.3	1483.4	1413.4	1329.2	1236.4	1119.8	988.3	843.0	688.2	51.5
30°	1546.2	1517.6	1470.3	1402.1	1318.5	1226.5	1106.9	971.2	824.3	666.6	47.5
31°	1513.2	1488.9	1443.2	1374.9	1294.6	1203.2	1077.7	943.2	792.6	637.6	42.9
32°	1469.7	1445.8	1400.9	1339.1	1257.5	1165.3	1037.7	899.4	755.2	594.3	38.3
33°	1404.3	1390.6	1350.3	1291.3	1209.6	1111.0	984.1	847.2	702.0	546.2	34.4
34°	1338.1	1320.9	1292.6	1228.1	1140.3	1041.9	914.1	775.1	637.0	492.3	30.6
35°	1261.8	1251.5	1207.2	1155.6	1067.3	966.8	839.8	704.9	561.3	432.3	26.8
36°	1187.9	1172.0	1121.6	1066.9	981.3	872.6	747.3	620.5	495.9	376.1	22.8
37°	1080.6	1056.4	1020.4	962.8	862.7	770.1	655.7	538.0	415.5	315.3	18.5
38°	954.5	943.2	893.3	835.3	752.4	664.6	551.4	451.6	342.7	263.3	14.1
39°	805.7	805.5	757.8	715.9	634.8	555.7	453.6	366.6	282.9	212.0	10.9
40°	679.5	656.1	626.7	574.0	511.8	444.7	355.2	286.9	219.5	170.9	8.5
42.5°	356.2	354.3	337.0	297.4	262.7	223.1	177.4	147.8	115.6	94.2	5.4
45°	153.0	154.0	142.1	136.1	122.6	106.1	89.6	74.7	64.0	51.9	3.2
47.5°	38.7	37.2	36.8	38.1	38.1	37.0	33.2	31.2	28.8	26.4	1.8
50°	16.7	16.3	15.9	15.9	14.9	14.3	13.3	12.1	11.1	9.9	0.8
52.5°	6.2	6.4	6.6	6.4	6.4	6.2	6.2	6.0	5.4	4.8	0.4
55°	2.0	2.0	2.0	2.2	2.2	2.4	2.4	2.4	2.4	2.2	0.0
57.5°	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

TEST NUMBER: P1319345

CATALOG NUMBER: P3SQAS02R20B2750DE010 E3SQCA301MW_3000K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	7.6	7.6	7.6	7.6	7.6	7.6
2.5°	8.7	7.7	6.6	5.6	5.4	5.2
5°	9.7	7.2	5.4	4.4	4.0	3.8
7.5°	10.5	6.6	4.4	3.2	2.8	2.6
10°	10.9	5.8	3.6	2.4	1.8	1.8
12.5°	11.1	5.0	2.6	1.6	1.0	1.0
15°	10.9	4.2	2.0	0.8	0.2	0.2
17.5°	9.9	3.4	1.2	0.2	0.0	0.0
20°	8.5	2.8	0.8	0.0	0.0	0.0
21°	8.1	2.4	0.6	0.0	0.0	0.0
22°	7.6	2.2	0.4	0.0	0.0	0.0
23°	7.0	2.0	0.4	0.0	0.0	0.0
24°	6.4	1.8	0.2	0.0	0.0	0.0
25°	6.0	1.6	0.2	0.0	0.0	0.0
26°	5.6	1.4	0.2	0.0	0.0	0.0
27°	5.0	1.2	0.0	0.0	0.0	0.0
28°	4.6	1.0	0.0	0.0	0.0	0.0
29°	4.0	0.8	0.0	0.0	0.0	0.0
30°	3.4	0.6	0.0	0.0	0.0	0.0
31°	2.8	0.6	0.0	0.0	0.0	0.0
32°	2.4	0.4	0.0	0.0	0.0	0.0
33°	2.0	0.4	0.0	0.0	0.0	0.0
34°	1.8	0.4	0.0	0.0	0.0	0.0
35°	1.6	0.4	0.0	0.0	0.0	0.0
36°	1.2	0.2	0.0	0.0	0.0	0.0
37°	1.0	0.2	0.0	0.0	0.0	0.0
38°	0.8	0.2	0.0	0.0	0.0	0.0
39°	0.6	0.0	0.0	0.0	0.0	0.0
40°	0.6	0.0	0.0	0.0	0.0	0.0
42.5°	0.2	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.2	0.0	0.0	0.2	0.2
47.5°	0.0	0.2	0.0	0.0	0.2	0.4
50°	0.0	0.2	0.2	0.2	0.4	0.6
52.5°	0.0	0.4	0.2	0.2	0.6	0.6
55°	0.2	0.4	0.2	0.4	0.8	0.8
57.5°	0.2	0.4	0.4	0.6	0.8	1.0
60°	0.4	0.6	0.6	0.6	1.0	1.0
62.5°	0.4	0.6	0.8	0.8	1.0	1.2
65°	0.4	0.8	0.8	0.8	1.0	1.2
67.5°	0.6	0.8	0.8	0.8	1.0	1.2
70°	0.6	0.8	0.8	0.8	1.0	1.0
72.5°	0.6	0.8	0.6	0.8	0.8	1.0
75°	0.6	0.8	0.6	0.6	0.8	0.8
77.5°	0.4	0.6	0.6	0.4	0.6	0.6
80°	0.4	0.6	0.4	0.4	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.6	0.4	0.2	0.4	0.4
85°	0.4	0.6	0.4	0.2	0.2	0.2
87.5°	0.4	0.6	0.4	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)