

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: P1317503

Luminaire Tested: P3SQAS02R159835DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R159835DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

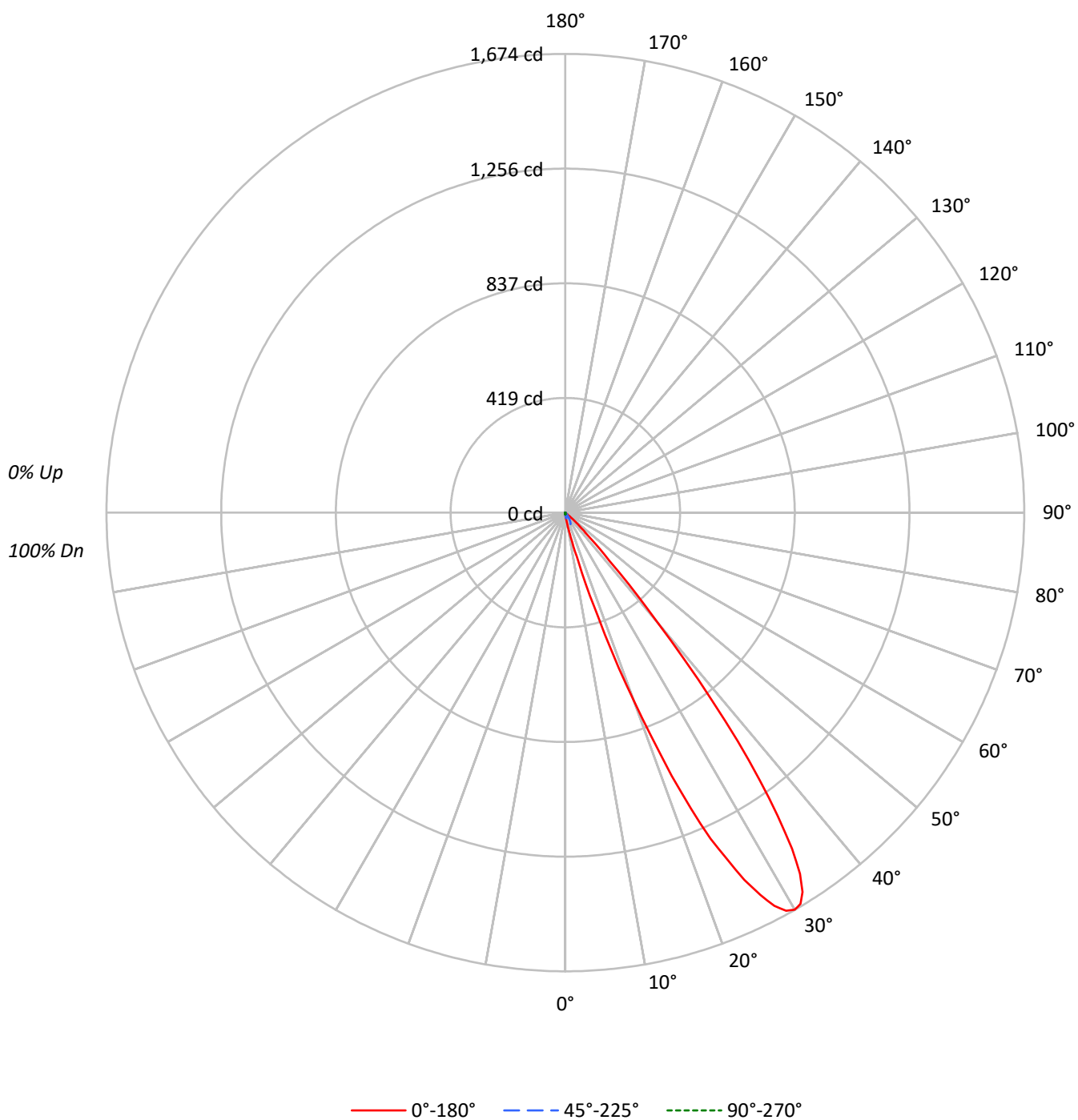
Lumens per Lamp: N/A
Luminaire Lumens: 177.0 lumens
Efficiency: N/A
Efficacy: 49.2 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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: P1317503

CATALOG NUMBER: P3SQAS02R159835DE010 E3SQCA301MMS

Luminous Intensity Polar Plot





TEST NUMBER: P1317503

CATALOG NUMBER: P3SQAS02R159835DE010 E3SQCA301MMS

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	94		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	75	71		79	74	70		77	73	70		68			
5	87	77	70	65		85	76	70	65		74	68	64		72	67	63		71	66	63		61			
6	81	71	63	58		79	70	63	58		68	62	58		67	61	57		65	60	57		55			
7	76	65	57	52		74	64	57	52		63	56	52		61	56	52		60	55	51		50			
8	71	59	52	47		69	59	52	47		58	51	47		56	51	47		55	50	46		45			
9	66	55	47	43		65	54	47	43		53	47	42		52	46	42		51	46	42		40			
10	62	50	43	39		61	50	43	39		49	43	38		48	42	38		47	42	38		37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1085	1085	1085	1085	1085
5°	3146	2386	934	380	259
10°	8202	3550	612	0	0
15°	32789	5813	339	0	0
20°	133956	8559	110	0	0
25°	264802	8494	0	0	0
30°	332821	6702	0	0	0
35°	283978	4100	0	0	0
40°	116907	1304	0	0	0
45°	25306	536	0	0	0
50°	3242	0	0	0	0
55°	270	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: 2°

Vertical Angle: 45°

Luminance: 26475 cd/sqm

TEST NUMBER: P1317503

CATALOG NUMBER: P3SQAS02R159835DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.5
10°-20°	12.4	7.0
20°-30°	72.3	40.8
30°-40°	77.5	43.8
40°-50°	13.1	7.4
50°-60°	0.4	0.2
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°	85.6	48.3
0°-40°	163.1	92.1
0°-60°	176.6	99.7
0°-90°	177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	177.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	18	14	5	2	2	3
15°	184	33	2	0	0	85
25°	1394	45	0	0	0	630
35°	1351	20	0	0	0	776
45°	104	2	0	0	0	123
55°	1	0	0	0	0	2
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: P1317503

CATALOG NUMBER: P3SQAS02R159835DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
2.5°	11.5	11.7	11.9	11.9	11.9	11.9	11.7	11.7	11.7	11.7	11.5
5°	18.2	18.2	18.2	18.2	18.2	18.2	18.1	18.1	18.1	18.1	18.1
7.5°	26.1	25.7	25.9	25.3	25.7	25.5	25.3	25.7	25.7	24.8	24.8
10°	46.9	46.7	44.9	45.2	45.6	45.4	45.4	44.3	44.1	43.4	42.6
12.5°	90.5	92.5	94.0	94.0	90.5	91.8	89.3	89.9	90.3	89.2	85.2
15°	183.9	187.2	183.7	187.1	185.8	180.9	175.5	168.3	171.0	166.0	164.3
17.5°	402.8	410.4	407.2	391.8	396.8	384.9	377.5	374.7	366.9	343.6	333.9
20°	730.9	740.2	731.5	713.4	719.2	696.7	690.9	685.5	650.9	638.2	597.6
21°	869.0	876.6	880.0	861.2	849.7	831.8	816.9	812.1	791.0	766.6	725.0
22°	1035.8	1026.9	1006.8	1009.4	992.2	977.5	956.9	937.3	913.9	879.8	845.4
23°	1173.9	1163.5	1154.0	1142.4	1124.0	1113.6	1084.0	1062.6	1032.1	995.6	962.5
24°	1302.5	1286.5	1280.5	1260.1	1254.9	1231.4	1207.4	1179.5	1142.6	1103.7	1067.1
25°	1393.5	1395.9	1390.7	1388.3	1361.7	1337.7	1313.9	1270.9	1239.4	1205.0	1148.6
26°	1491.0	1492.2	1489.6	1471.7	1447.7	1424.2	1393.5	1356.1	1310.5	1272.4	1221.4
27°	1565.7	1561.2	1557.5	1536.3	1516.5	1487.0	1459.0	1414.7	1370.3	1324.8	1265.7
28°	1625.2	1616.9	1612.2	1594.0	1570.9	1534.6	1500.4	1459.0	1414.6	1365.8	1301.8
29°	1661.2	1652.2	1647.0	1626.9	1600.3	1568.5	1533.9	1488.4	1440.6	1386.3	1321.9
30°	1673.6	1668.4	1660.2	1639.4	1611.8	1578.7	1543.2	1493.8	1443.8	1388.1	1320.0
31°	1665.4	1658.7	1650.9	1628.4	1598.6	1567.0	1525.7	1473.9	1421.3	1368.2	1296.0
32°	1632.9	1628.8	1619.3	1589.1	1564.9	1524.0	1483.2	1434.8	1377.3	1320.4	1255.0
33°	1571.8	1565.1	1556.9	1529.4	1498.5	1459.2	1418.6	1369.1	1312.0	1251.9	1180.0
34°	1478.8	1470.2	1460.0	1441.5	1402.1	1368.0	1321.1	1263.2	1216.0	1158.3	1093.3
35°	1350.7	1338.2	1326.0	1312.0	1267.7	1236.2	1204.6	1154.2	1108.6	1054.2	980.7
36°	1207.0	1202.2	1192.1	1155.3	1140.9	1098.1	1072.6	1014.8	977.9	924.7	864.0
37°	1044.5	1016.1	1030.6	1009.9	966.7	953.3	923.0	873.3	833.5	777.3	733.3
38°	870.3	851.7	861.9	841.1	818.6	787.7	764.6	728.3	683.6	639.5	597.8
39°	689.8	674.7	685.9	671.7	637.5	624.6	604.2	576.4	540.5	506.1	466.6
40°	520.0	500.7	515.6	495.5	479.8	458.8	448.4	422.9	400.5	379.9	354.8
42.5°	237.5	235.4	232.1	224.8	223.2	223.4	210.5	202.1	190.8	177.6	169.6
45°	103.9	106.5	108.7	104.6	104.4	102.2	101.4	95.9	93.6	89.3	84.1
47.5°	51.2	52.1	51.6	52.7	51.7	50.3	49.9	49.1	46.9	46.7	44.3
50°	12.1	11.9	11.9	12.1	11.9	11.9	11.7	11.4	11.2	11.4	10.8
52.5°	3.9	4.1	3.9	3.7	3.9	4.1	3.9	3.9	3.9	3.9	3.9
55°	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.7	0.9	0.9	0.9
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



TEST NUMBER: P1317503

CATALOG NUMBER: P3SQAS02R159835DE010 E3SQCA301MMS

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: P1317503

CATALOG NUMBER: P3SQAS02R159835DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
2.5°	11.4	9.7	8.0	6.3	4.7	3.7	3.5	3.4
5°	17.1	13.8	9.1	5.4	3.2	2.2	1.7	1.5
7.5°	23.1	17.1	10.1	4.5	2.2	0.9	0.4	0.2
10°	33.1	20.3	10.4	3.5	1.1	0.0	0.0	0.0
12.5°	65.0	23.3	10.2	2.8	0.2	0.0	0.0	0.0
15°	108.0	32.6	9.5	1.9	0.0	0.0	0.0	0.0
17.5°	176.8	42.1	8.2	1.3	0.0	0.0	0.0	0.0
20°	274.2	46.7	6.3	0.6	0.0	0.0	0.0	0.0
21°	321.4	47.1	5.6	0.4	0.0	0.0	0.0	0.0
22°	362.4	47.1	4.8	0.2	0.0	0.0	0.0	0.0
23°	400.4	46.5	4.3	0.0	0.0	0.0	0.0	0.0
24°	431.6	45.8	3.9	0.0	0.0	0.0	0.0	0.0
25°	455.1	44.7	3.5	0.0	0.0	0.0	0.0	0.0
26°	465.9	43.2	3.0	0.0	0.0	0.0	0.0	0.0
27°	471.3	41.1	2.6	0.0	0.0	0.0	0.0	0.0
28°	467.5	38.9	2.2	0.0	0.0	0.0	0.0	0.0
29°	458.2	36.5	1.7	0.0	0.0	0.0	0.0	0.0
30°	446.1	33.7	1.3	0.0	0.0	0.0	0.0	0.0
31°	428.5	30.9	0.9	0.0	0.0	0.0	0.0	0.0
32°	404.3	28.1	0.7	0.0	0.0	0.0	0.0	0.0
33°	371.9	25.1	0.4	0.0	0.0	0.0	0.0	0.0
34°	331.9	22.1	0.2	0.0	0.0	0.0	0.0	0.0
35°	287.0	19.5	0.0	0.0	0.0	0.0	0.0	0.0
36°	248.5	16.8	0.0	0.0	0.0	0.0	0.0	0.0
37°	209.8	13.4	0.0	0.0	0.0	0.0	0.0	0.0
38°	175.7	10.6	0.0	0.0	0.0	0.0	0.0	0.0
39°	145.4	8.6	0.0	0.0	0.0	0.0	0.0	0.0
40°	120.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	66.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	40.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	23.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.0	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	0.0	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



TEST NUMBER: P1317503

CATALOG NUMBER: P3SQAS02R159835DE010 E3SQCA301MMS

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)