

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: P1313793

Luminaire Tested: P3SQAS20R709730D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R709730D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

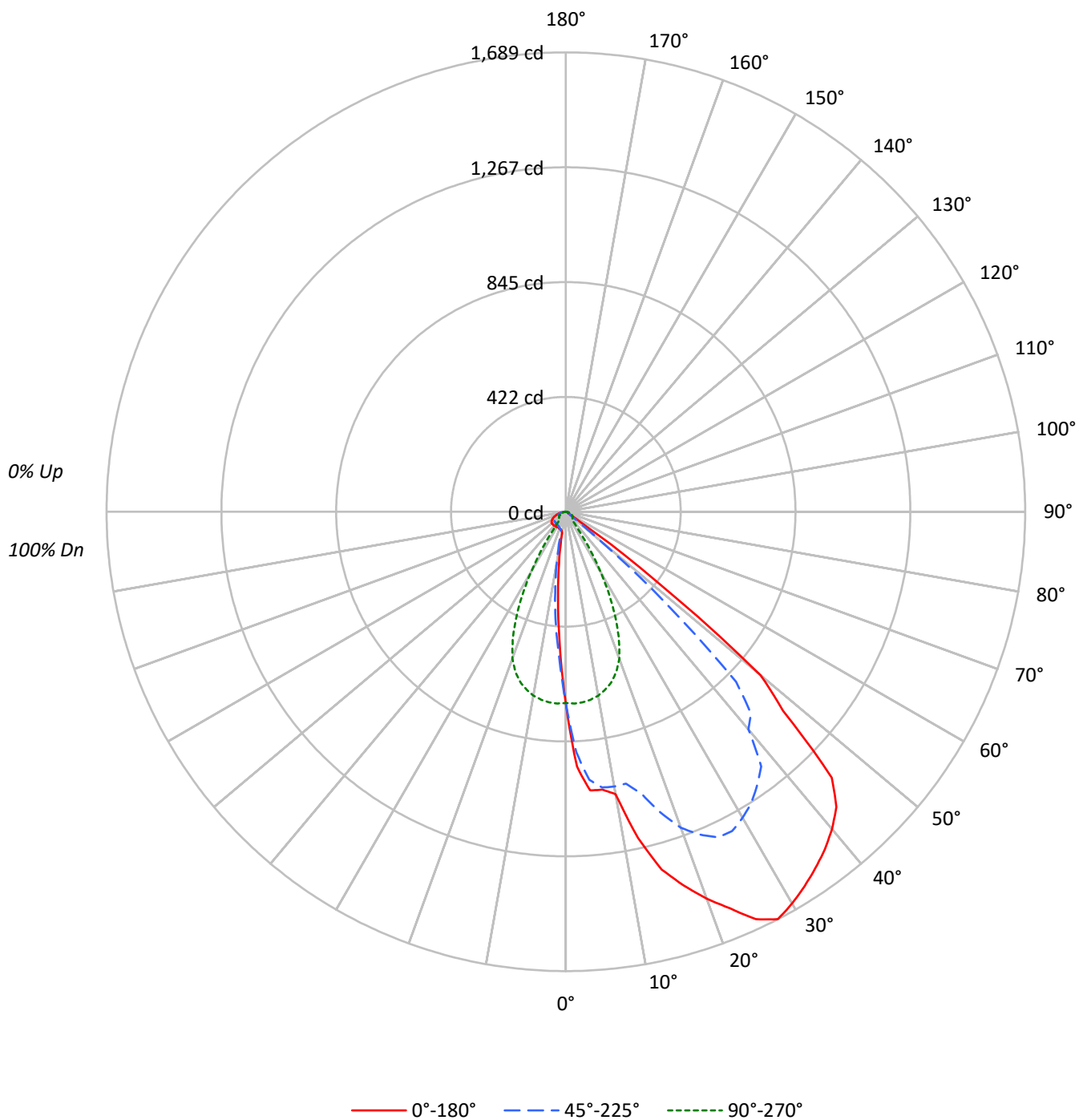
Lumens per Lamp: N/A
Luminaire Lumens: 1335.0 lumens
Efficiency: N/A
Efficacy: 46.4 lumens/watt
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1313793

CATALOG NUMBER: P3SQAS20R709730D010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1313793

CATALOG NUMBER: P3SQAS20R709730D010 E3SQCA301MW

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	121055	121055	121055	121055	121055
5°	177825	171013	121518	72541	56826
10°	184375	179339	120002	34696	14043
15°	242806	191225	115591	12427	12160
20°	277351	226547	105218	11931	12224
25°	314057	251006	82624	11516	12086
30°	330773	258466	51208	11455	12946
35°	336308	257971	16883	11774	13687
40°	342267	234645	8183	12590	14996
45°	336843	215477	8476	13274	16245
50°	250408	39788	8520	14602	17871
55°	20027	5465	9098	15463	19097
60°	4168	5752	8887	15638	19840
65°	4320	5542	8639	15445	20376
70°	3827	5338	8409	14502	19840
75°	2994	5057	7053	14107	19164
80°	2975	4463	7538	13488	18051
85°	2964	5928	8892	12054	15018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 340910 cd/sqm

TEST NUMBER: P1313793

CATALOG NUMBER: P3SQAS20R709730D010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	4.8
10°-20°	179.9	13.5
20°-30°	302.0	22.6
30°-40°	363.2	27.2
40°-50°	287.9	21.6
50°-60°	92.1	6.9
60°-70°	25.7	1.9
70°-80°	15.4	1.2
80°-90°	4.8	0.4
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°	545.9	40.9
0°-40°	909.1	68.1
0°-60°	1289.1	96.6
0°-90°	1335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1335.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	703	703	703	703	703	
5°	1029	989	703	420	329	97
15°	1362	1072	648	70	68	383
25°	1653	1321	435	61	64	756
35°	1600	1227	80	56	65	1002
45°	1383	885	35	54	67	993
55°	67	18	30	52	64	209
65°	11	14	21	38	50	10
75°	4	8	11	21	29	5
85°	2	3	4	6	8	1
90°	0	0	0	0	0	

TEST NUMBER: P1313793

CATALOG NUMBER: P3SQAS20R709730D010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9
2.5°	937.7	943.7	943.7	936.2	939.2	927.1	918.0	904.3	901.3	884.7	863.4
5°	1028.6	1025.5	1025.5	1019.5	1022.5	1018.0	1013.4	1010.4	1001.3	989.2	977.1
7.5°	1030.1	1033.1	1034.6	1033.1	1039.2	1034.6	1034.6	1034.6	1028.6	1022.5	1010.4
10°	1054.3	1049.8	1045.2	1034.6	1028.6	1024.0	1024.0	1025.5	1028.6	1025.5	1018.0
12.5°	1228.5	1211.8	1204.3	1178.5	1158.8	1125.5	1087.6	1058.9	1033.1	1024.0	1018.0
15°	1361.8	1358.8	1343.6	1319.4	1295.2	1255.8	1211.8	1167.9	1121.0	1072.5	1037.6
17.5°	1440.6	1434.5	1419.4	1393.6	1364.8	1328.5	1293.6	1260.3	1214.9	1160.3	1104.3
20°	1513.3	1499.7	1480.0	1449.7	1420.9	1386.1	1348.2	1316.4	1278.5	1236.1	1170.9
22.5°	1578.4	1566.3	1534.5	1493.6	1464.8	1431.5	1398.2	1367.9	1333.0	1284.6	1225.5
25°	1652.7	1625.4	1573.9	1520.9	1486.0	1458.8	1434.5	1410.3	1373.9	1320.9	1251.2
27.5°	1689.0	1651.1	1595.1	1542.1	1508.8	1480.0	1454.2	1430.0	1389.1	1323.9	1243.7
30°	1663.3	1642.1	1602.7	1561.8	1534.5	1507.2	1476.9	1440.6	1375.4	1299.7	1225.5
32.5°	1633.0	1622.4	1604.2	1579.9	1563.3	1536.0	1493.6	1434.5	1343.6	1269.4	1189.1
35°	1599.6	1595.1	1589.0	1578.4	1567.8	1542.1	1489.1	1402.7	1311.8	1227.0	1149.7
37.5°	1564.8	1560.3	1564.8	1563.3	1554.2	1520.9	1440.6	1360.3	1266.4	1180.0	1030.1
40°	1522.4	1519.4	1526.9	1534.5	1523.9	1480.0	1393.6	1296.7	1213.4	1043.7	992.2
42.5°	1472.4	1470.9	1484.5	1490.6	1475.4	1410.3	1308.8	1237.6	1061.9	1007.3	886.2
45°	1383.0	1386.1	1392.1	1399.7	1390.6	1319.4	1227.0	1096.7	1019.5	884.7	504.4
47.5°	1083.1	1086.1	1116.4	1180.0	1224.0	1199.7	1121.0	1024.0	911.9	505.9	159.1
50°	934.6	931.6	933.1	948.3	983.1	1016.4	992.2	939.2	543.8	148.5	19.7
52.5°	410.5	456.0	504.4	640.8	728.6	821.0	839.2	587.7	177.2	19.7	19.7
55°	66.7	69.7	87.9	128.8	231.8	349.9	424.1	196.9	18.2	18.2	18.2
57.5°	13.6	13.6	13.6	15.1	22.7	48.5	56.0	16.7	16.7	16.7	18.2
60°	12.1	12.1	12.1	12.1	13.6	13.6	13.6	15.1	15.1	16.7	16.7
62.5°	12.1	12.1	12.1	12.1	12.1	12.1	13.6	13.6	15.1	15.1	16.7
65°	10.6	10.6	10.6	10.6	12.1	12.1	12.1	12.1	13.6	13.6	15.1
67.5°	9.1	9.1	9.1	9.1	10.6	10.6	10.6	12.1	12.1	12.1	13.6
70°	7.6	7.6	7.6	7.6	9.1	9.1	9.1	9.1	10.6	10.6	10.6
72.5°	6.1	6.1	6.1	6.1	7.6	7.6	7.6	7.6	9.1	9.1	9.1
75°	4.5	4.5	6.1	6.1	6.1	6.1	6.1	6.1	7.6	7.6	7.6
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.1	6.1	6.1	6.1
80°	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	4.5	4.5	4.5
82.5°	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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: P1313793

CATALOG NUMBER: P3SQAS20R709730D010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9
2.5°	849.8	828.6	799.8	705.9	619.6	540.8	501.4	496.9
5°	957.4	937.7	889.2	702.9	537.8	419.6	348.4	328.7
7.5°	998.3	981.6	939.2	696.8	460.5	301.4	221.2	190.9
10°	1008.9	998.3	961.9	686.2	380.2	198.4	104.5	80.3
12.5°	1013.4	1005.8	971.0	669.5	299.9	103.0	71.2	71.2
15°	1021.0	1013.4	980.1	648.3	221.2	69.7	68.2	68.2
17.5°	1054.3	1030.1	992.2	616.5	145.4	66.7	66.7	66.7
20°	1108.8	1055.8	998.3	574.1	90.9	65.1	65.1	66.7
22.5°	1154.3	1083.1	996.7	510.5	66.7	62.1	63.6	65.1
25°	1174.0	1095.2	983.1	434.8	57.6	60.6	63.6	63.6
27.5°	1170.9	1099.8	971.0	348.4	54.5	59.1	62.1	65.1
30°	1154.3	1087.6	943.7	257.5	51.5	57.6	62.1	65.1
32.5°	1125.5	1040.7	889.2	166.6	50.0	57.6	62.1	65.1
35°	1031.6	964.9	810.4	80.3	48.5	56.0	63.6	65.1
37.5°	977.1	884.7	618.0	39.4	47.0	56.0	63.6	65.1
40°	889.2	660.5	278.7	36.4	47.0	56.0	63.6	66.7
42.5°	559.0	271.2	45.4	34.8	45.4	56.0	63.6	66.7
45°	204.5	36.4	24.2	34.8	45.4	54.5	63.6	66.7
47.5°	21.2	21.2	22.7	33.3	43.9	54.5	63.6	66.7
50°	19.7	21.2	22.7	31.8	42.4	54.5	62.1	66.7
52.5°	19.7	21.2	22.7	31.8	40.9	53.0	62.1	66.7
55°	19.7	21.2	21.2	30.3	39.4	51.5	60.6	63.6
57.5°	18.2	19.7	21.2	28.8	37.9	48.5	59.1	62.1
60°	18.2	19.7	21.2	25.8	36.4	45.4	56.0	57.6
62.5°	16.7	18.2	19.7	24.2	33.3	42.4	51.5	54.5
65°	16.7	16.7	18.2	21.2	30.3	37.9	47.0	50.0
67.5°	13.6	15.1	15.1	18.2	25.8	33.3	42.4	45.4
70°	12.1	12.1	13.6	16.7	22.7	28.8	36.4	39.4
72.5°	10.6	10.6	10.6	13.6	19.7	25.8	31.8	34.8
75°	9.1	9.1	9.1	10.6	16.7	21.2	27.3	28.8
77.5°	7.6	7.6	7.6	9.1	13.6	18.2	21.2	24.2
80°	6.1	6.1	6.1	7.6	10.6	13.6	16.7	18.2
82.5°	4.5	4.5	4.5	6.1	7.6	9.1	12.1	12.1
85°	3.0	3.0	3.0	4.5	4.5	6.1	7.6	7.6
87.5°	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)