

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: P1316461

Luminaire Tested: P3SQAS17R659827DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R659827DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 98CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

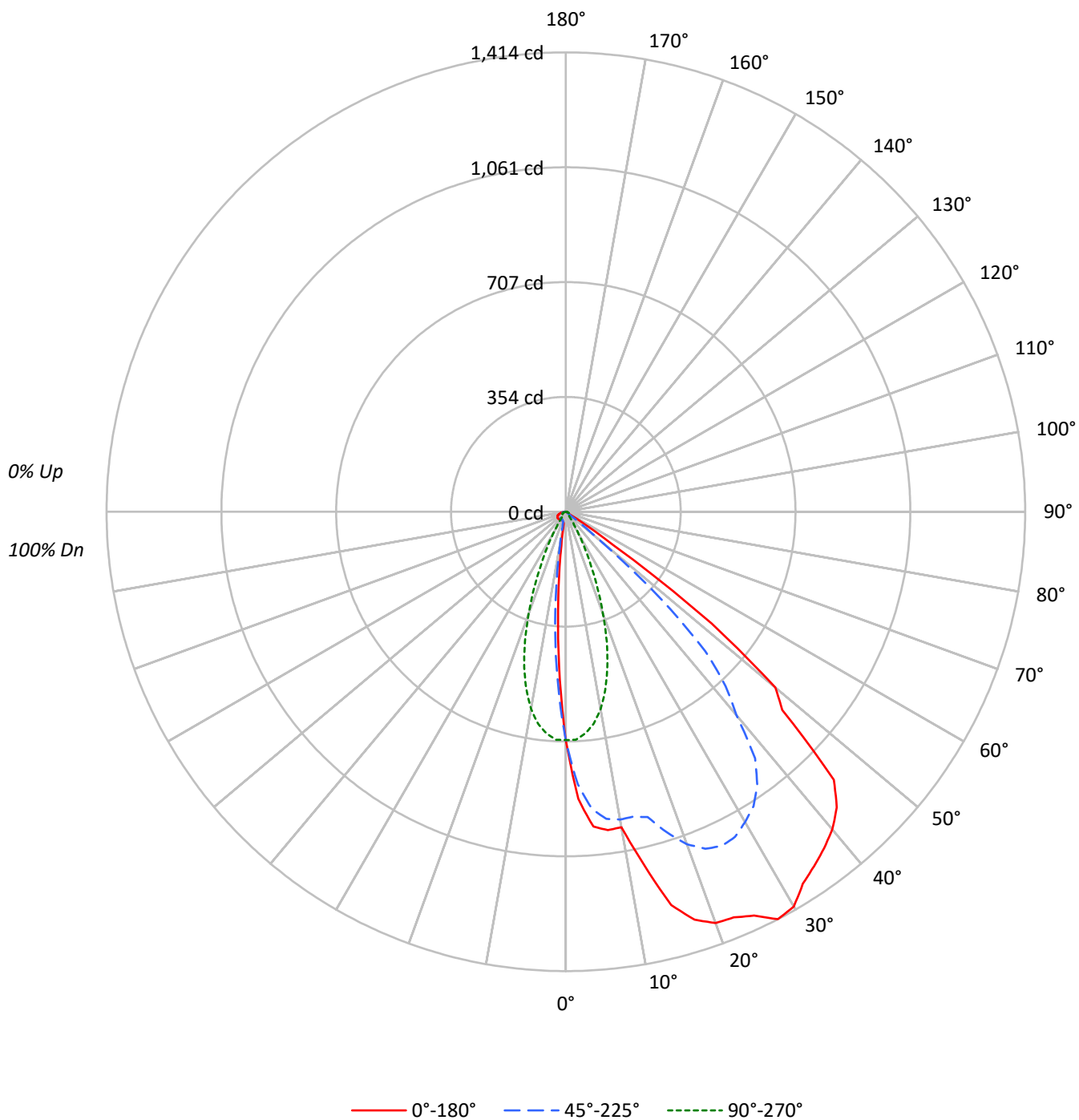
Lumens per Lamp: N/A
Luminaire Lumens: 1053.1 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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: P1316461

CATALOG NUMBER: P3SQAS17R659827DE010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1316461

CATALOG NUMBER: P3SQAS17R659827DE010 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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	92	92	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	83	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	74	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	67	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	60	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	54	54	53
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	49	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	45	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	41	41	40
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	38	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	120986	120986	120986	120986	120986
5°	168178	158722	118423	65072	45779
10°	172414	168217	107743	18187	6698
15°	223407	173448	88186	5848	5652
20°	246890	199550	61361	5223	5407
25°	260546	215642	34718	4998	5416
30°	278989	219349	15671	5011	5668
35°	279983	216027	5067	5298	6202
40°	286849	183521	3440	5665	6880
45°	284112	147914	3459	6138	7453
50°	225464	34885	3510	6752	8493
55°	53567	1982	3603	7567	9518
60°	1894	2273	4133	7922	10161
65°	2241	2241	3994	8476	11166
70°	1662	2216	3877	8258	11582
75°	1464	2196	3660	8717	11645
80°	1091	2182	4364	8728	11901
85°	2174	4347	4347	8695	10868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 45°

Luminance: 284648 cd/sqm

TEST NUMBER: P1316461

CATALOG NUMBER: P3SQAS17R659827DE010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	5.6
10°-20°	154.4	14.7
20°-30°	242.5	23.0
30°-40°	277.5	26.3
40°-50°	223.0	21.2
50°-60°	72.5	6.9
60°-70°	12.9	1.2
70°-80°	8.5	0.8
80°-90°	3.1	0.3
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°	455.6	43.3
0°-40°	733.0	69.6
0°-60°	1028.6	97.7
0°-90°	1053.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1053.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	702	702	702	702	702	
5°	973	918	685	376	265	92
15°	1253	973	495	33	32	349
25°	1371	1135	183	26	28	639
35°	1332	1028	24	25	30	836
45°	1166	607	14	25	31	839
55°	178	7	12	25	32	255
65°	6	6	10	21	27	5
75°	2	3	6	13	18	3
85°	1	2	2	4	6	1
90°	0	0	0	0	0	

TEST NUMBER: P1316461

CATALOG NUMBER: P3SQAS17R659827DE010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	702.5	702.5	702.5	702.5	702.5	702.5	702.5	702.5	702.5	702.5	702.5
2.5°	884.2	880.9	885.3	877.6	876.5	868.9	864.5	862.3	852.4	839.3	827.3
5°	972.8	959.7	963.0	961.9	956.4	953.1	948.7	943.3	930.1	918.1	902.8
7.5°	988.1	977.2	979.4	980.5	977.2	976.1	975.0	972.8	964.1	953.1	940.0
10°	985.9	975.0	973.9	970.6	967.3	968.4	968.4	968.4	966.3	961.9	957.5
12.5°	1112.9	1097.6	1094.3	1071.3	1050.5	1014.4	991.4	969.5	959.7	960.8	957.5
15°	1253.0	1251.9	1240.9	1219.0	1184.0	1151.2	1098.7	1059.3	1008.9	972.8	957.5
17.5°	1316.4	1315.3	1305.5	1286.9	1261.7	1231.1	1192.8	1146.8	1091.0	1035.2	989.2
20°	1347.1	1354.7	1343.8	1328.5	1304.4	1275.9	1239.8	1198.2	1145.7	1088.8	1034.1
22.5°	1351.4	1361.3	1351.4	1340.5	1323.0	1304.4	1273.7	1231.1	1177.4	1122.7	1069.1
25°	1371.1	1374.4	1353.6	1339.4	1323.0	1309.9	1285.8	1248.6	1193.9	1134.8	1082.2
27.5°	1413.8	1399.6	1355.8	1336.1	1320.8	1308.8	1285.8	1247.5	1188.4	1128.2	1073.5
30°	1402.9	1397.4	1359.1	1340.5	1327.4	1315.3	1286.9	1237.6	1166.5	1103.0	1046.1
32.5°	1358.0	1368.9	1355.8	1349.2	1342.7	1327.4	1285.8	1219.0	1139.1	1074.6	998.0
35°	1331.7	1344.9	1346.0	1346.0	1338.3	1315.3	1266.1	1191.7	1111.8	1027.5	924.7
37.5°	1305.5	1316.4	1323.0	1327.4	1316.4	1283.6	1221.2	1154.5	1066.9	956.4	775.8
40°	1275.9	1283.6	1289.1	1291.3	1274.8	1232.2	1175.3	1099.8	1001.3	816.3	692.7
42.5°	1234.3	1238.7	1237.6	1236.5	1219.0	1172.0	1118.4	1039.6	844.8	727.7	577.8
45°	1166.5	1162.1	1168.7	1168.7	1145.7	1110.7	1039.6	886.4	756.1	607.3	372.1
47.5°	903.9	907.2	938.9	990.3	1022.1	1012.2	915.9	775.8	635.8	398.3	123.7
50°	841.5	838.2	839.3	844.8	848.1	820.7	751.8	655.5	420.2	130.2	8.8
52.5°	564.6	567.9	593.1	651.1	669.7	650.0	584.3	437.7	153.2	8.8	7.7
55°	178.4	190.4	204.6	235.3	288.9	322.8	316.2	155.4	9.8	6.6	7.7
57.5°	6.6	6.6	8.8	15.3	29.5	48.1	50.3	9.8	7.7	7.7	7.7
60°	5.5	5.5	5.5	5.5	5.5	5.5	6.6	6.6	6.6	6.6	6.6
62.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.6	6.6	6.6	6.6
65°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.6
67.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.5	5.5	5.5	5.5
70°	3.3	3.3	3.3	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.5
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4	4.4	4.4
75°	2.2	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3	3.3
80°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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: P1316461

CATALOG NUMBER: P3SQAS17R659827DE010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	702.5	702.5	702.5	702.5	702.5	702.5	702.5	702.5
2.5°	820.7	807.6	781.3	702.5	620.5	538.4	487.0	473.8
5°	885.3	870.0	832.7	685.0	518.7	376.4	295.5	264.8
7.5°	924.7	906.1	862.3	657.7	403.8	218.9	131.3	105.1
10°	942.2	925.8	876.5	616.1	292.2	104.0	46.0	38.3
12.5°	949.8	936.7	882.0	561.4	190.4	46.0	33.9	32.8
15°	953.1	938.9	879.8	494.6	108.3	32.8	31.7	31.7
17.5°	956.4	940.0	866.7	418.0	60.2	30.6	29.5	30.6
20°	982.7	935.6	843.7	334.8	39.4	28.5	28.5	29.5
22.5°	1008.9	934.5	803.2	256.1	30.6	27.4	28.5	28.5
25°	1017.7	923.6	751.8	182.7	26.3	26.3	27.4	28.5
27.5°	1001.3	891.8	682.8	123.7	23.0	26.3	27.4	28.5
30°	963.0	838.2	599.7	78.8	21.9	25.2	27.4	28.5
32.5°	891.8	732.1	506.7	47.1	20.8	25.2	28.5	28.5
35°	749.6	613.9	401.6	24.1	20.8	25.2	28.5	29.5
37.5°	655.5	512.1	280.1	16.4	20.8	25.2	28.5	29.5
40°	543.9	369.9	117.1	15.3	20.8	25.2	28.5	30.6
42.5°	376.4	160.9	18.6	14.2	19.7	25.2	29.5	30.6
45°	135.7	20.8	8.8	14.2	19.7	25.2	29.5	30.6
47.5°	12.0	7.7	8.8	14.2	19.7	25.2	29.5	31.7
50°	7.7	7.7	7.7	13.1	19.7	25.2	29.5	31.7
52.5°	7.7	7.7	7.7	13.1	18.6	25.2	30.6	31.7
55°	7.7	7.7	7.7	12.0	18.6	25.2	29.5	31.7
57.5°	7.7	7.7	8.8	12.0	18.6	24.1	29.5	30.6
60°	7.7	7.7	7.7	12.0	17.5	23.0	28.5	29.5
62.5°	6.6	7.7	7.7	10.9	16.4	21.9	27.4	28.5
65°	6.6	6.6	7.7	9.8	15.3	20.8	25.2	27.4
67.5°	5.5	6.6	6.6	8.8	13.1	18.6	23.0	25.2
70°	5.5	5.5	5.5	7.7	12.0	16.4	21.9	23.0
72.5°	4.4	5.5	5.5	6.6	9.8	14.2	18.6	20.8
75°	4.4	4.4	4.4	5.5	8.8	13.1	16.4	17.5
77.5°	3.3	3.3	4.4	4.4	7.7	9.8	14.2	15.3
80°	3.3	3.3	3.3	4.4	5.5	8.8	10.9	12.0
82.5°	2.2	2.2	2.2	3.3	4.4	5.5	7.7	8.8
85°	2.2	2.2	2.2	2.2	3.3	4.4	5.5	5.5
87.5°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)