

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: P1316607

Luminaire Tested: P3SQAS20R659827D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316607
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: P3SQAS20R659827D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 98CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

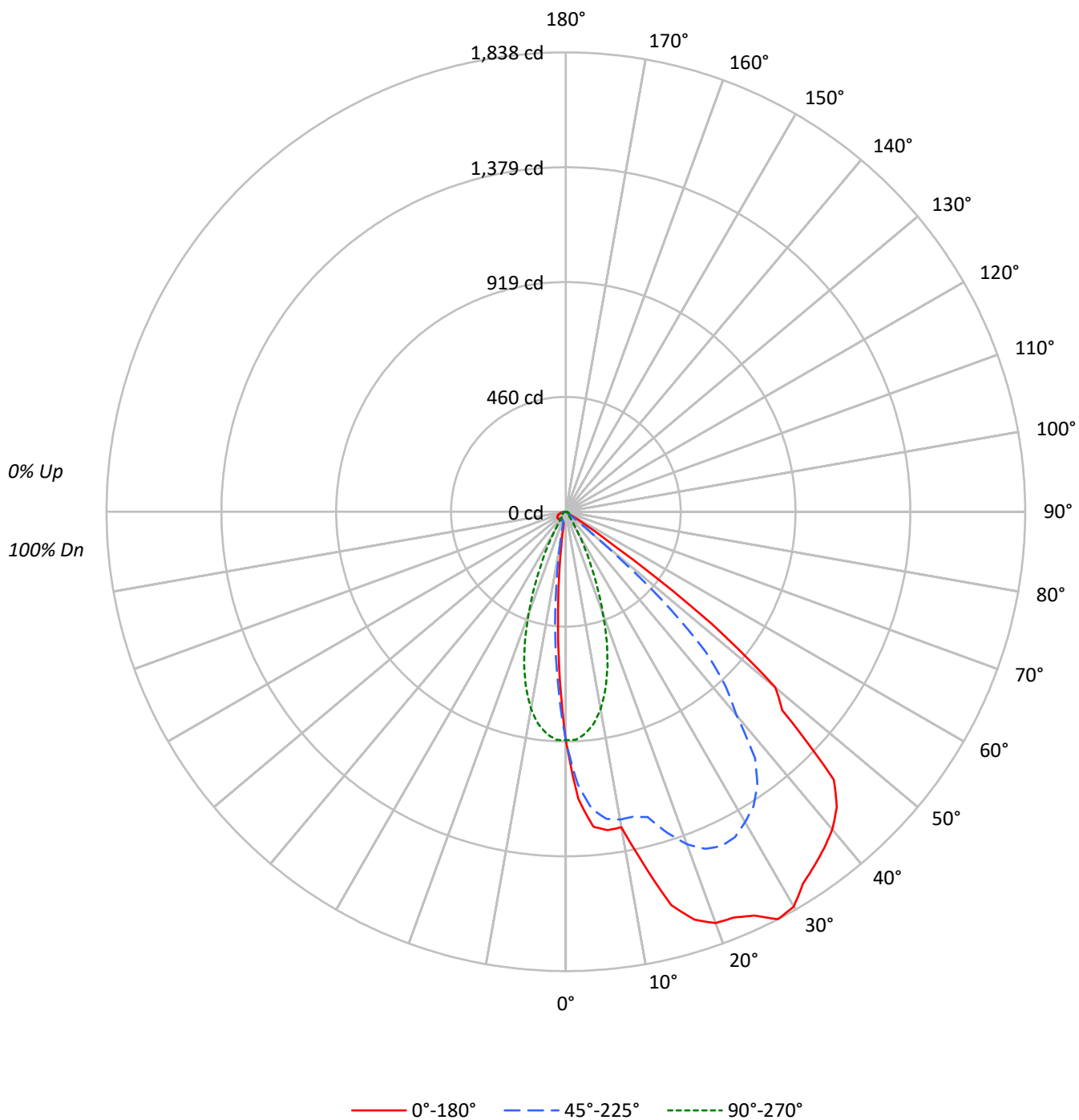
Lumens per Lamp: N/A
Luminaire Lumens: 1369.0 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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: P1316607

CATALOG NUMBER: P3SQAS20R659827D010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1316607

CATALOG NUMBER: P3SQAS20R659827D010 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	100		
1	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	90		
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53		
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48		
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43		
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40		
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	157308	157308	157308	157308	157308
5°	218659	206350	153967	84608	59523
10°	224160	218687	140078	23644	8709
15°	290447	225511	114646	7613	7364
20°	320970	259445	79780	6781	7038
25°	338742	280346	45150	6480	7031
30°	362711	285193	20364	6503	7358
35°	364018	280866	6581	6875	8073
40°	372933	238602	4474	7352	8948
45°	369382	192315	4506	7964	9694
50°	293116	45361	4582	8761	11066
55°	69631	2552	4684	9819	12401
60°	2446	2928	5373	10299	13227
65°	2893	2893	5216	11003	14507
70°	2165	2870	5035	10726	15056
75°	1863	2861	4724	11379	15172
80°	1389	2777	5653	11306	15472
85°	2766	5533	5533	11263	14030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 45°

Luminance: 370064 cd/sqm

TEST NUMBER: P1316607

CATALOG NUMBER: P3SQAS20R659827D010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	5.6
10°-20°	200.7	14.7
20°-30°	315.3	23.0
30°-40°	360.7	26.3
40°-50°	289.9	21.2
50°-60°	94.3	6.9
60°-70°	16.8	1.2
70°-80°	11.1	0.8
80°-90°	3.9	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°	592.3	43.3
0°-40°	953.0	69.6
0°-60°	1337.2	97.7
0°-90°	1369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1369.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	913	913	913	913	913	
5°	1265	1194	891	489	344	119
15°	1629	1265	643	43	41	454
25°	1783	1475	238	34	37	831
35°	1731	1336	31	33	38	1087
45°	1517	790	18	33	40	1091
55°	232	8	16	33	41	331
65°	7	7	13	27	36	6
75°	3	4	7	17	23	3
85°	1	3	3	6	7	1
90°	0	0	0	0	0	

TEST NUMBER: P1316607

CATALOG NUMBER: P3SQAS20R659827D010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	913.4	913.4	913.4	913.4	913.4	913.4	913.4	913.4	913.4	913.4	913.4
2.5°	1149.5	1145.2	1150.9	1141.0	1139.6	1129.6	1123.9	1121.1	1108.3	1091.2	1075.5
5°	1264.8	1247.7	1251.9	1250.5	1243.4	1239.1	1233.5	1226.3	1209.3	1193.6	1173.7
7.5°	1284.7	1270.4	1273.3	1274.7	1270.4	1269.0	1267.6	1264.8	1253.4	1239.1	1222.1
10°	1281.8	1267.6	1266.2	1261.9	1257.6	1259.1	1259.1	1259.1	1256.2	1250.5	1244.8
12.5°	1446.9	1426.9	1422.7	1392.8	1365.8	1318.8	1288.9	1260.5	1247.7	1249.1	1244.8
15°	1629.0	1627.5	1613.3	1584.9	1539.3	1496.6	1428.4	1377.1	1311.7	1264.8	1244.8
17.5°	1711.5	1710.0	1697.2	1673.1	1640.3	1600.5	1550.7	1491.0	1418.4	1345.8	1286.1
20°	1751.3	1761.3	1747.0	1727.1	1695.8	1658.8	1611.9	1557.8	1489.5	1415.6	1344.4
22.5°	1757.0	1769.8	1757.0	1742.8	1720.0	1695.8	1656.0	1600.5	1530.8	1459.7	1389.9
25°	1782.6	1786.9	1759.8	1741.3	1720.0	1702.9	1671.6	1623.3	1552.1	1475.3	1407.0
27.5°	1838.1	1819.6	1762.7	1737.1	1717.2	1701.5	1671.6	1621.8	1545.0	1466.8	1395.6
30°	1823.9	1816.7	1767.0	1742.8	1725.7	1710.0	1673.1	1609.0	1516.6	1434.1	1360.1
32.5°	1765.5	1779.8	1762.7	1754.2	1745.6	1725.7	1671.6	1584.9	1481.0	1397.1	1297.5
35°	1731.4	1748.5	1749.9	1749.9	1739.9	1710.0	1646.0	1549.3	1445.4	1335.9	1202.2
37.5°	1697.2	1711.5	1720.0	1725.7	1711.5	1668.8	1587.7	1500.9	1387.1	1243.4	1008.7
40°	1658.8	1668.8	1675.9	1678.7	1657.4	1601.9	1527.9	1429.8	1301.7	1061.3	900.5
42.5°	1604.8	1610.5	1609.0	1607.6	1584.9	1523.7	1454.0	1351.5	1098.3	946.1	751.2
45°	1516.6	1510.9	1519.4	1519.4	1489.5	1444.0	1351.5	1152.4	983.1	789.6	483.7
47.5°	1175.1	1179.4	1220.7	1287.5	1328.8	1316.0	1190.8	1008.7	826.6	517.9	160.8
50°	1094.0	1089.8	1091.2	1098.3	1102.6	1067.0	977.4	852.2	546.3	169.3	11.4
52.5°	734.1	738.4	771.1	846.5	870.7	845.1	759.7	569.1	199.2	11.4	10.0
55°	231.9	247.5	266.0	305.9	375.6	419.7	411.2	202.0	12.8	8.5	10.0
57.5°	8.5	8.5	11.4	19.9	38.4	62.6	65.4	12.8	10.0	10.0	10.0
60°	7.1	7.1	7.1	7.1	7.1	7.1	8.5	8.5	8.5	8.5	8.5
62.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.5	8.5	8.5	8.5
65°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.5
67.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.1	7.1	7.1	7.1
70°	4.3	4.3	4.3	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.1
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.7	5.7	5.7
75°	2.8	2.8	2.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3	4.3
80°	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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: P1316607

CATALOG NUMBER: P3SQAS20R659827D010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	913.4	913.4	913.4	913.4	913.4	913.4	913.4	913.4
2.5°	1067.0	1049.9	1015.8	913.4	806.7	700.0	633.1	616.0
5°	1150.9	1131.0	1082.7	890.6	674.3	489.4	384.1	344.3
7.5°	1202.2	1178.0	1121.1	855.0	525.0	284.5	170.7	136.6
10°	1224.9	1203.6	1139.6	801.0	379.9	135.2	59.8	49.8
12.5°	1234.9	1217.8	1146.7	729.8	247.5	59.8	44.1	42.7
15°	1239.1	1220.7	1143.8	643.0	140.8	42.7	41.3	41.3
17.5°	1243.4	1222.1	1126.8	543.5	78.2	39.8	38.4	39.8
20°	1277.6	1216.4	1096.9	435.3	51.2	37.0	37.0	38.4
22.5°	1311.7	1215.0	1044.2	332.9	39.8	35.6	37.0	37.0
25°	1323.1	1200.7	977.4	237.6	34.1	34.1	35.6	37.0
27.5°	1301.7	1159.5	887.7	160.8	29.9	34.1	35.6	37.0
30°	1251.9	1089.8	779.6	102.4	28.5	32.7	35.6	37.0
32.5°	1159.5	951.8	658.7	61.2	27.0	32.7	37.0	37.0
35°	974.5	798.1	522.1	31.3	27.0	32.7	37.0	38.4
37.5°	852.2	665.8	364.2	21.3	27.0	32.7	37.0	38.4
40°	707.1	480.9	152.2	19.9	27.0	32.7	37.0	39.8
42.5°	489.4	209.1	24.2	18.5	25.6	32.7	38.4	39.8
45°	176.4	27.0	11.4	18.5	25.6	32.7	38.4	39.8
47.5°	15.6	10.0	11.4	18.5	25.6	32.7	38.4	41.3
50°	10.0	10.0	10.0	17.1	25.6	32.7	38.4	41.3
52.5°	10.0	10.0	10.0	17.1	24.2	32.7	39.8	41.3
55°	10.0	10.0	10.0	15.6	24.2	32.7	38.4	41.3
57.5°	10.0	10.0	11.4	15.6	24.2	31.3	38.4	39.8
60°	10.0	10.0	10.0	15.6	22.8	29.9	37.0	38.4
62.5°	8.5	10.0	10.0	14.2	21.3	28.5	35.6	37.0
65°	8.5	8.5	10.0	12.8	19.9	27.0	32.7	35.6
67.5°	7.1	8.5	8.5	11.4	17.1	24.2	29.9	32.7
70°	7.1	7.1	7.1	10.0	15.6	21.3	28.5	29.9
72.5°	5.7	7.1	7.1	8.5	12.8	18.5	24.2	27.0
75°	5.7	5.7	5.7	7.1	11.4	17.1	21.3	22.8
77.5°	4.3	4.3	5.7	5.7	10.0	12.8	18.5	19.9
80°	4.3	4.3	4.3	5.7	7.1	11.4	14.2	15.6
82.5°	2.8	2.8	2.8	4.3	5.7	7.1	10.0	11.4
85°	2.8	2.8	2.8	2.8	4.3	5.7	7.1	7.1
87.5°	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)