

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: P1308390

Luminaire Tested: P3SQAS20R709030D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308390
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: P3SQAS20R709030D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

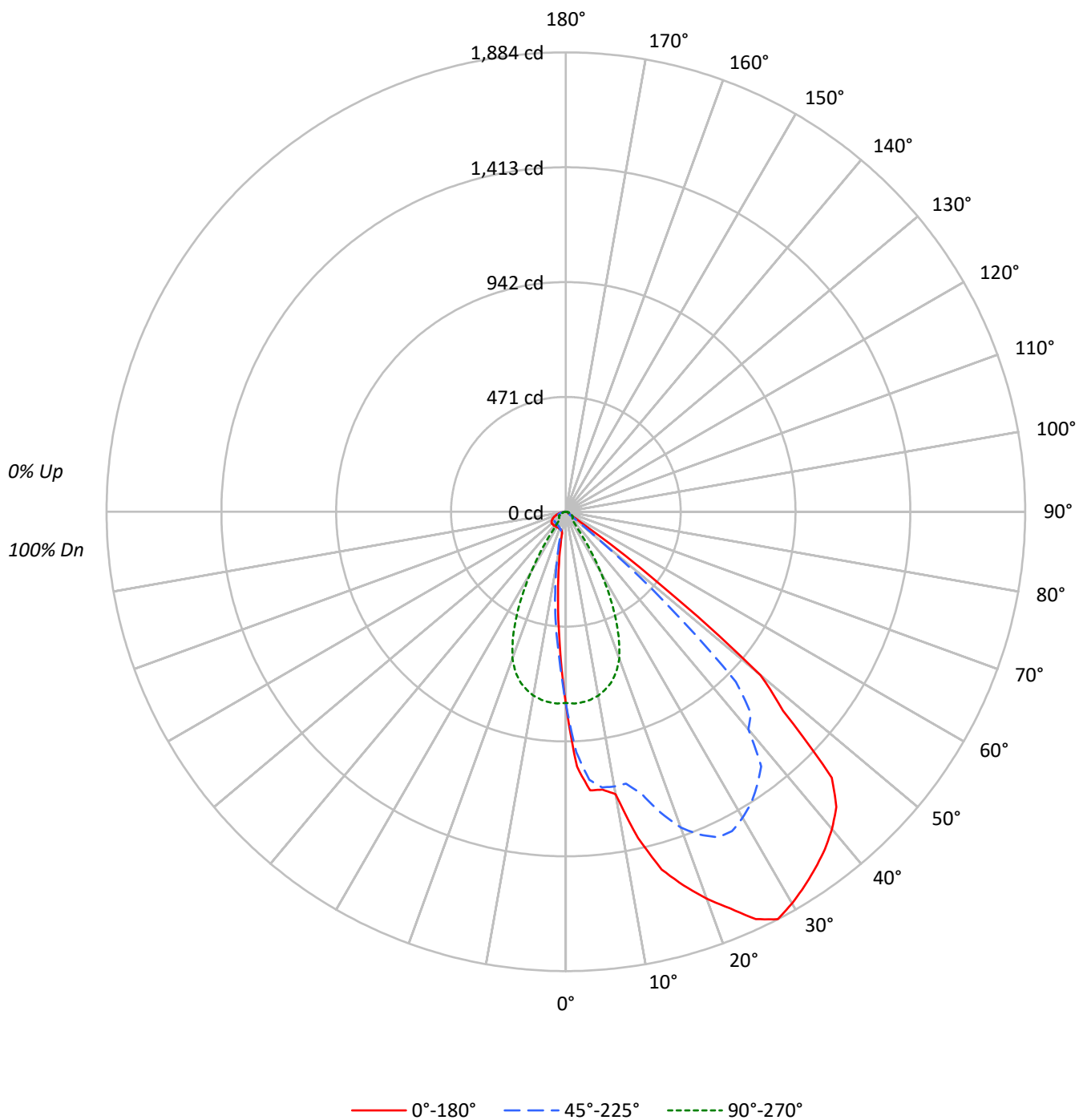
Lumens per Lamp: N/A
Luminaire Lumens: 1489.0 lumens
Efficiency: N/A
Efficacy: 51.7 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64	64	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57	57	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51	51	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46	46	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42	42	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	135023	135023	135023	135023	135023
5°	198329	190739	135538	80908	63378
10°	205641	200027	133853	38701	15652
15°	270817	213280	128927	13854	13551
20°	309351	252682	117351	13324	13617
25°	350276	279966	92144	12846	13492
30°	368916	288276	57114	12767	14458
35°	375119	287720	18817	13140	15285
40°	381746	261714	9105	14051	16704
45°	375715	240320	9474	14808	18096
50°	279318	44369	9512	16290	19907
55°	22309	6095	10149	17235	21319
60°	4650	6407	9886	17463	22113
65°	4809	6194	9658	17197	22739
70°	4230	5942	9366	16164	22106
75°	3394	5590	7852	15770	21360
80°	3372	5058	8331	15075	20133
85°	3359	6719	10078	13437	16599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 380221 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	4.8
10°-20°	200.6	13.5
20°-30°	336.8	22.6
30°-40°	405.1	27.2
40°-50°	321.1	21.6
50°-60°	102.7	6.9
60°-70°	28.7	1.9
70°-80°	17.1	1.1
80°-90°	5.4	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°	608.8	40.9
0°-40°	1013.9	68.1
0°-60°	1437.8	96.6
0°-90°	1489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1489.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	784	784	784	784	784	
5°	1147	1103	784	468	367	108
15°	1519	1196	723	78	76	427
25°	1843	1473	485	68	71	843
35°	1784	1368	90	62	73	1117
45°	1543	987	39	61	74	1108
55°	74	20	34	57	71	233
65°	12	15	24	42	56	11
75°	5	8	12	24	32	6
85°	2	3	5	7	8	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0
2.5°	1045.8	1052.6	1052.6	1044.1	1047.5	1034.0	1023.9	1008.7	1005.3	986.7	963.0
5°	1147.2	1143.8	1143.8	1137.1	1140.4	1135.4	1130.3	1126.9	1116.8	1103.3	1089.8
7.5°	1148.9	1152.3	1154.0	1152.3	1159.0	1154.0	1154.0	1154.0	1147.2	1140.4	1126.9
10°	1175.9	1170.9	1165.8	1154.0	1147.2	1142.1	1142.1	1143.8	1147.2	1143.8	1135.4
12.5°	1370.2	1351.6	1343.2	1314.5	1292.5	1255.3	1213.1	1181.0	1152.3	1142.1	1135.4
15°	1518.9	1515.5	1498.6	1471.6	1444.6	1400.6	1351.6	1302.6	1250.3	1196.2	1157.3
17.5°	1606.8	1600.0	1583.1	1554.4	1522.3	1481.7	1442.9	1405.7	1355.0	1294.2	1231.7
20°	1687.9	1672.7	1650.7	1616.9	1584.8	1545.9	1503.7	1468.2	1426.0	1378.7	1306.0
22.5°	1760.5	1747.0	1711.5	1665.9	1633.8	1596.6	1559.5	1525.7	1486.8	1432.7	1366.8
25°	1843.3	1812.9	1755.4	1696.3	1657.5	1627.0	1600.0	1573.0	1532.4	1473.3	1395.6
27.5°	1883.9	1841.6	1779.1	1720.0	1682.8	1650.7	1622.0	1594.9	1549.3	1476.7	1387.1
30°	1855.1	1831.5	1787.5	1741.9	1711.5	1681.1	1647.3	1606.8	1534.1	1449.6	1366.8
32.5°	1821.3	1809.5	1789.2	1762.2	1743.6	1713.2	1665.9	1600.0	1498.6	1415.8	1326.3
35°	1784.2	1779.1	1772.3	1760.5	1748.7	1720.0	1660.8	1564.5	1463.2	1368.5	1282.4
37.5°	1745.3	1740.2	1745.3	1743.6	1733.5	1696.3	1606.8	1517.2	1412.5	1316.2	1148.9
40°	1698.0	1694.6	1703.1	1711.5	1699.7	1650.7	1554.4	1446.3	1353.3	1164.1	1106.7
42.5°	1642.2	1640.6	1655.8	1662.5	1645.6	1573.0	1459.8	1380.4	1184.4	1123.6	988.4
45°	1542.6	1545.9	1552.7	1561.1	1551.0	1471.6	1368.5	1223.2	1137.1	986.7	562.6
47.5°	1208.0	1211.4	1245.2	1316.2	1365.2	1338.1	1250.3	1142.1	1017.1	564.3	177.4
50°	1042.5	1039.1	1040.8	1057.7	1096.5	1133.7	1106.7	1047.5	606.5	165.6	22.0
52.5°	457.9	508.6	562.6	714.7	812.7	915.7	936.0	655.5	197.7	22.0	22.0
55°	74.3	77.7	98.0	143.6	258.5	390.3	473.1	219.6	20.3	20.3	20.3
57.5°	15.2	15.2	15.2	16.9	25.3	54.1	62.5	18.6	18.6	18.6	20.3
60°	13.5	13.5	13.5	13.5	15.2	15.2	15.2	16.9	16.9	18.6	18.6
62.5°	13.5	13.5	13.5	13.5	13.5	13.5	15.2	15.2	16.9	16.9	18.6
65°	11.8	11.8	11.8	11.8	13.5	13.5	13.5	13.5	15.2	15.2	16.9
67.5°	10.1	10.1	10.1	10.1	11.8	11.8	11.8	13.5	13.5	13.5	15.2
70°	8.4	8.4	8.4	8.4	10.1	10.1	10.1	10.1	11.8	11.8	11.8
72.5°	6.8	6.8	6.8	6.8	8.4	8.4	8.4	8.4	10.1	10.1	10.1
75°	5.1	5.1	6.8	6.8	6.8	6.8	6.8	6.8	8.4	8.4	8.4
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.8	6.8	6.8	6.8
80°	3.4	3.4	3.4	3.4	3.4	3.4	5.1	5.1	5.1	5.1	5.1
82.5°	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4
87.5°	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	784.0	784.0	784.0	784.0	784.0	784.0	784.0	784.0
2.5°	947.8	924.2	892.1	787.3	691.0	603.2	559.2	554.2
5°	1067.8	1045.8	991.8	784.0	599.8	468.0	388.6	366.6
7.5°	1113.4	1094.8	1047.5	777.2	513.6	336.2	246.7	212.9
10°	1125.2	1113.4	1072.9	765.4	424.1	221.3	116.6	89.5
12.5°	1130.3	1121.9	1083.0	746.8	334.5	114.9	79.4	79.4
15°	1138.8	1130.3	1093.1	723.1	246.7	77.7	76.0	76.0
17.5°	1175.9	1148.9	1106.7	687.6	162.2	74.3	74.3	74.3
20°	1236.8	1177.6	1113.4	640.3	101.4	72.7	72.7	74.3
22.5°	1287.4	1208.0	1111.7	569.4	74.3	69.3	71.0	72.7
25°	1309.4	1221.5	1096.5	484.9	64.2	67.6	71.0	71.0
27.5°	1306.0	1226.6	1083.0	388.6	60.8	65.9	69.3	72.7
30°	1287.4	1213.1	1052.6	287.2	57.4	64.2	69.3	72.7
32.5°	1255.3	1160.7	991.8	185.9	55.8	64.2	69.3	72.7
35°	1150.6	1076.2	903.9	89.5	54.1	62.5	71.0	72.7
37.5°	1089.8	986.7	689.3	43.9	52.4	62.5	71.0	72.7
40°	991.8	736.6	310.9	40.5	52.4	62.5	71.0	74.3
42.5°	623.4	302.4	50.7	38.9	50.7	62.5	71.0	74.3
45°	228.1	40.5	27.0	38.9	50.7	60.8	71.0	74.3
47.5°	23.7	23.7	25.3	37.2	49.0	60.8	71.0	74.3
50°	22.0	23.7	25.3	35.5	47.3	60.8	69.3	74.3
52.5°	22.0	23.7	25.3	35.5	45.6	59.1	69.3	74.3
55°	22.0	23.7	23.7	33.8	43.9	57.4	67.6	71.0
57.5°	20.3	22.0	23.7	32.1	42.2	54.1	65.9	69.3
60°	20.3	22.0	23.7	28.7	40.5	50.7	62.5	64.2
62.5°	18.6	20.3	22.0	27.0	37.2	47.3	57.4	60.8
65°	18.6	18.6	20.3	23.7	33.8	42.2	52.4	55.8
67.5°	15.2	16.9	16.9	20.3	28.7	37.2	47.3	50.7
70°	13.5	13.5	15.2	18.6	25.3	32.1	40.5	43.9
72.5°	11.8	11.8	11.8	15.2	22.0	28.7	35.5	38.9
75°	10.1	10.1	10.1	11.8	18.6	23.7	30.4	32.1
77.5°	8.4	8.4	8.4	10.1	15.2	20.3	23.7	27.0
80°	6.8	6.8	6.8	8.4	11.8	15.2	18.6	20.3
82.5°	5.1	5.1	5.1	6.8	8.4	10.1	13.5	13.5
85°	3.4	3.4	3.4	5.1	5.1	6.8	8.4	8.4
87.5°	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)