

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: P1307272

Luminaire Tested: P3SQAS20R709027D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307272
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: P3SQAS20R709027D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

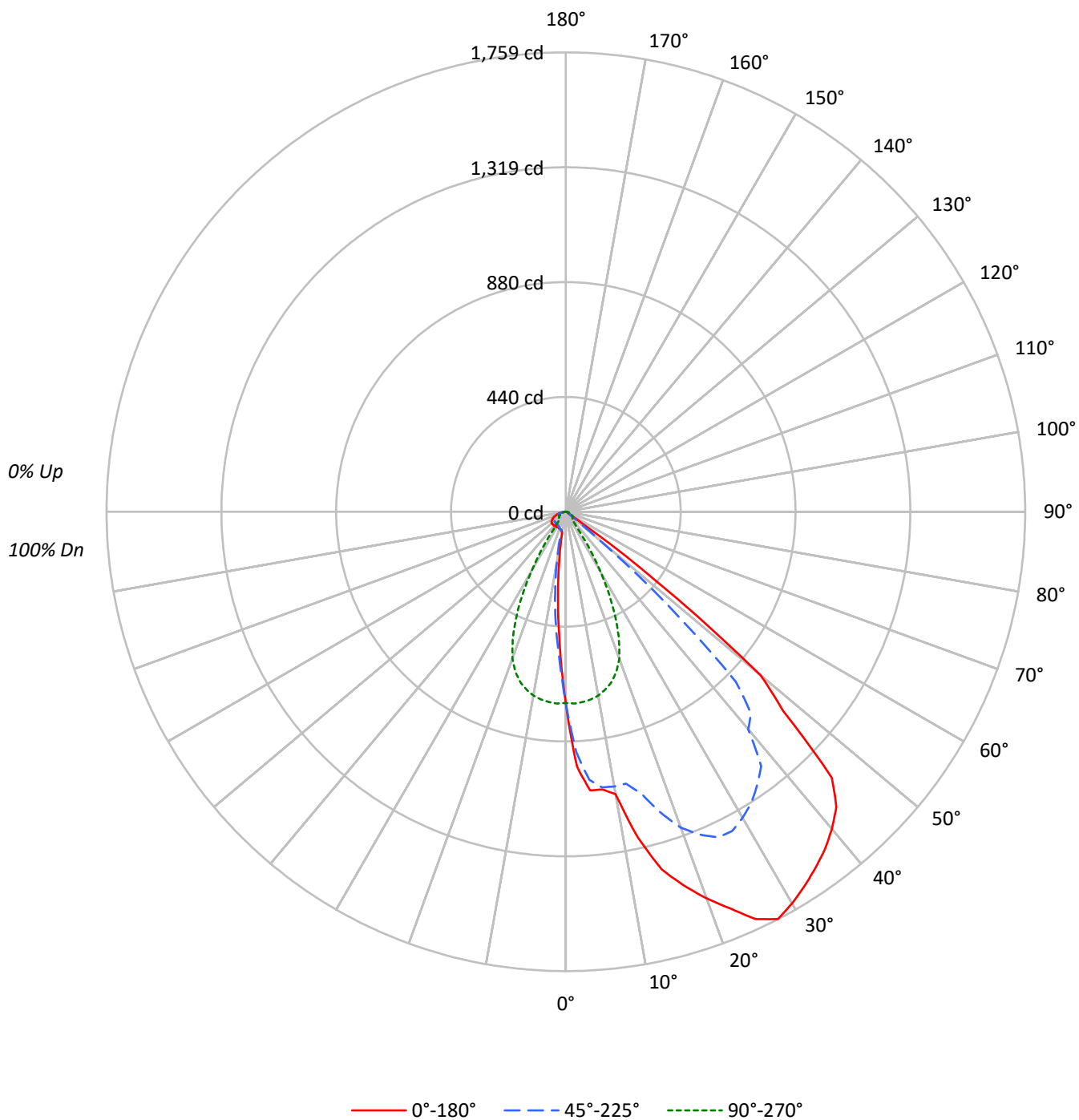
Lumens per Lamp: N/A
Luminaire Lumens: 1390.0 lumens
Efficiency: N/A
Efficacy: 48.3 lumens/watt
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	126033	126033	126033	126033	126033
5°	185138	178050	126514	75531	59177
10°	191965	186736	124951	36130	14620
15°	252809	199105	120369	12944	12659
20°	288769	235876	109562	12426	12719
25°	326979	261344	86025	11991	12580
30°	344395	269125	53316	11912	13483
35°	350163	268588	17576	12278	14255
40°	356363	244313	8521	13130	15603
45°	350726	224343	8841	13834	16903
50°	260724	41422	8869	15218	18594
55°	20838	5675	9458	16094	19877
60°	4340	5959	9231	16292	20632
65°	4483	5787	9006	16056	21191
70°	3978	5539	8711	15106	20645
75°	3127	5257	7320	14706	19963
80°	3174	4661	7835	14083	18745
85°	3162	6323	9287	12449	15611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 354964 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	4.8
10°-20°	187.3	13.5
20°-30°	314.4	22.6
30°-40°	378.2	27.2
40°-50°	299.8	21.6
50°-60°	95.9	6.9
60°-70°	26.8	1.9
70°-80°	16.0	1.1
80°-90°	5.0	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°	568.4	40.9
0°-40°	946.5	68.1
0°-60°	1342.2	96.6
0°-90°	1390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1390.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	732	732	732	732	732	
5°	1071	1030	732	437	342	101
15°	1418	1117	675	73	71	399
25°	1721	1375	453	63	66	787
35°	1666	1278	84	58	68	1043
45°	1440	921	36	57	69	1034
55°	69	19	32	54	66	217
65°	11	14	22	39	52	11
75°	5	8	11	22	30	6
85°	2	3	5	6	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°	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8
2.5°	976.3	982.6	982.6	974.7	977.9	965.3	955.8	941.6	938.4	921.1	899.0
5°	1070.9	1067.8	1067.8	1061.5	1064.6	1059.9	1055.2	1052.0	1042.5	1029.9	1017.3
7.5°	1072.5	1075.7	1077.2	1075.7	1082.0	1077.2	1077.2	1077.2	1070.9	1064.6	1052.0
10°	1097.7	1093.0	1088.3	1077.2	1070.9	1066.2	1066.2	1067.8	1070.9	1067.8	1059.9
12.5°	1279.1	1261.8	1253.9	1227.1	1206.6	1171.9	1132.4	1102.5	1075.7	1066.2	1059.9
15°	1417.9	1414.8	1399.0	1373.8	1348.5	1307.5	1261.8	1216.0	1167.1	1116.7	1080.4
17.5°	1499.9	1493.6	1477.9	1451.0	1421.1	1383.2	1346.9	1312.2	1264.9	1208.2	1149.8
20°	1575.6	1561.4	1540.9	1509.4	1479.4	1443.2	1403.7	1370.6	1331.2	1287.0	1219.2
22.5°	1643.5	1630.8	1597.7	1555.1	1525.2	1490.5	1455.8	1424.2	1388.0	1337.5	1276.0
25°	1720.7	1692.4	1638.7	1583.5	1547.3	1518.9	1493.6	1468.4	1430.5	1375.3	1302.8
27.5°	1758.6	1719.2	1660.8	1605.6	1570.9	1540.9	1514.1	1488.9	1446.3	1378.5	1294.9
30°	1731.8	1709.7	1668.7	1626.1	1597.7	1569.3	1537.8	1499.9	1432.1	1353.3	1276.0
32.5°	1700.2	1689.2	1670.3	1645.0	1627.7	1599.3	1555.1	1493.6	1399.0	1321.7	1238.1
35°	1665.5	1660.8	1654.5	1643.5	1632.4	1605.6	1550.4	1460.5	1365.9	1277.5	1197.1
37.5°	1629.3	1624.5	1629.3	1627.7	1618.2	1583.5	1499.9	1416.3	1318.6	1228.7	1072.5
40°	1585.1	1582.0	1589.8	1597.7	1586.7	1540.9	1451.0	1350.1	1263.4	1086.7	1033.1
42.5°	1533.1	1531.5	1545.7	1552.0	1536.2	1468.4	1362.7	1288.6	1105.6	1048.9	922.7
45°	1440.0	1443.2	1449.5	1457.4	1447.9	1373.8	1277.5	1141.9	1061.5	921.1	525.2
47.5°	1127.7	1130.9	1162.4	1228.7	1274.4	1249.2	1167.1	1066.2	949.5	526.8	165.6
50°	973.1	970.0	971.6	987.3	1023.6	1058.3	1033.1	977.9	566.2	154.6	20.5
52.5°	427.4	474.7	525.2	667.2	758.6	854.9	873.8	612.0	184.5	20.5	20.5
55°	69.4	72.6	91.5	134.1	241.3	364.3	441.6	205.0	18.9	18.9	18.9
57.5°	14.2	14.2	14.2	15.8	23.7	50.5	58.4	17.3	17.3	17.3	18.9
60°	12.6	12.6	12.6	12.6	14.2	14.2	14.2	15.8	15.8	17.3	17.3
62.5°	12.6	12.6	12.6	12.6	12.6	12.6	14.2	14.2	15.8	15.8	17.3
65°	11.0	11.0	11.0	11.0	12.6	12.6	12.6	12.6	14.2	14.2	15.8
67.5°	9.5	9.5	9.5	9.5	11.0	11.0	11.0	12.6	12.6	12.6	14.2
70°	7.9	7.9	7.9	7.9	9.5	9.5	9.5	9.5	11.0	11.0	11.0
72.5°	6.3	6.3	6.3	6.3	7.9	7.9	7.9	7.9	9.5	9.5	9.5
75°	4.7	4.7	6.3	6.3	6.3	6.3	6.3	6.3	7.9	7.9	7.9
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	6.3	6.3	6.3	6.3
80°	3.2	3.2	3.2	3.2	3.2	3.2	4.7	4.7	4.7	4.7	4.7
82.5°	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	3.2
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8
2.5°	884.8	862.7	832.8	735.0	645.1	563.1	522.1	517.3
5°	996.8	976.3	925.8	731.8	559.9	436.9	362.8	342.3
7.5°	1039.4	1022.0	977.9	725.5	479.5	313.9	230.3	198.7
10°	1050.4	1039.4	1001.5	714.5	395.9	206.6	108.8	83.6
12.5°	1055.2	1047.3	1011.0	697.1	312.3	107.3	74.1	74.1
15°	1063.0	1055.2	1020.5	675.1	230.3	72.6	71.0	71.0
17.5°	1097.7	1072.5	1033.1	641.9	151.4	69.4	69.4	69.4
20°	1154.5	1099.3	1039.4	597.8	94.6	67.8	67.8	69.4
22.5°	1201.8	1127.7	1037.8	531.5	69.4	64.7	66.2	67.8
25°	1222.3	1140.3	1023.6	452.7	59.9	63.1	66.2	66.2
27.5°	1219.2	1145.1	1011.0	362.8	56.8	61.5	64.7	67.8
30°	1201.8	1132.4	982.6	268.1	53.6	59.9	64.7	67.8
32.5°	1171.9	1083.5	925.8	173.5	52.0	59.9	64.7	67.8
35°	1074.1	1004.7	843.8	83.6	50.5	58.4	66.2	67.8
37.5°	1017.3	921.1	643.5	41.0	48.9	58.4	66.2	67.8
40°	925.8	687.7	290.2	37.9	48.9	58.4	66.2	69.4
42.5°	582.0	282.3	47.3	36.3	47.3	58.4	66.2	69.4
45°	212.9	37.9	25.2	36.3	47.3	56.8	66.2	69.4
47.5°	22.1	22.1	23.7	34.7	45.7	56.8	66.2	69.4
50°	20.5	22.1	23.7	33.1	44.2	56.8	64.7	69.4
52.5°	20.5	22.1	23.7	33.1	42.6	55.2	64.7	69.4
55°	20.5	22.1	22.1	31.5	41.0	53.6	63.1	66.2
57.5°	18.9	20.5	22.1	30.0	39.4	50.5	61.5	64.7
60°	18.9	20.5	22.1	26.8	37.9	47.3	58.4	59.9
62.5°	17.3	18.9	20.5	25.2	34.7	44.2	53.6	56.8
65°	17.3	17.3	18.9	22.1	31.5	39.4	48.9	52.0
67.5°	14.2	15.8	15.8	18.9	26.8	34.7	44.2	47.3
70°	12.6	12.6	14.2	17.3	23.7	30.0	37.9	41.0
72.5°	11.0	11.0	11.0	14.2	20.5	26.8	33.1	36.3
75°	9.5	9.5	9.5	11.0	17.3	22.1	28.4	30.0
77.5°	7.9	7.9	7.9	9.5	14.2	18.9	22.1	25.2
80°	6.3	6.3	6.3	7.9	11.0	14.2	17.3	18.9
82.5°	4.7	4.7	4.7	6.3	7.9	9.5	12.6	12.6
85°	3.2	3.2	3.2	4.7	4.7	6.3	7.9	7.9
87.5°	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)