

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: P1316611

Luminaire Tested: P3SQAS20R709827D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R709827D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

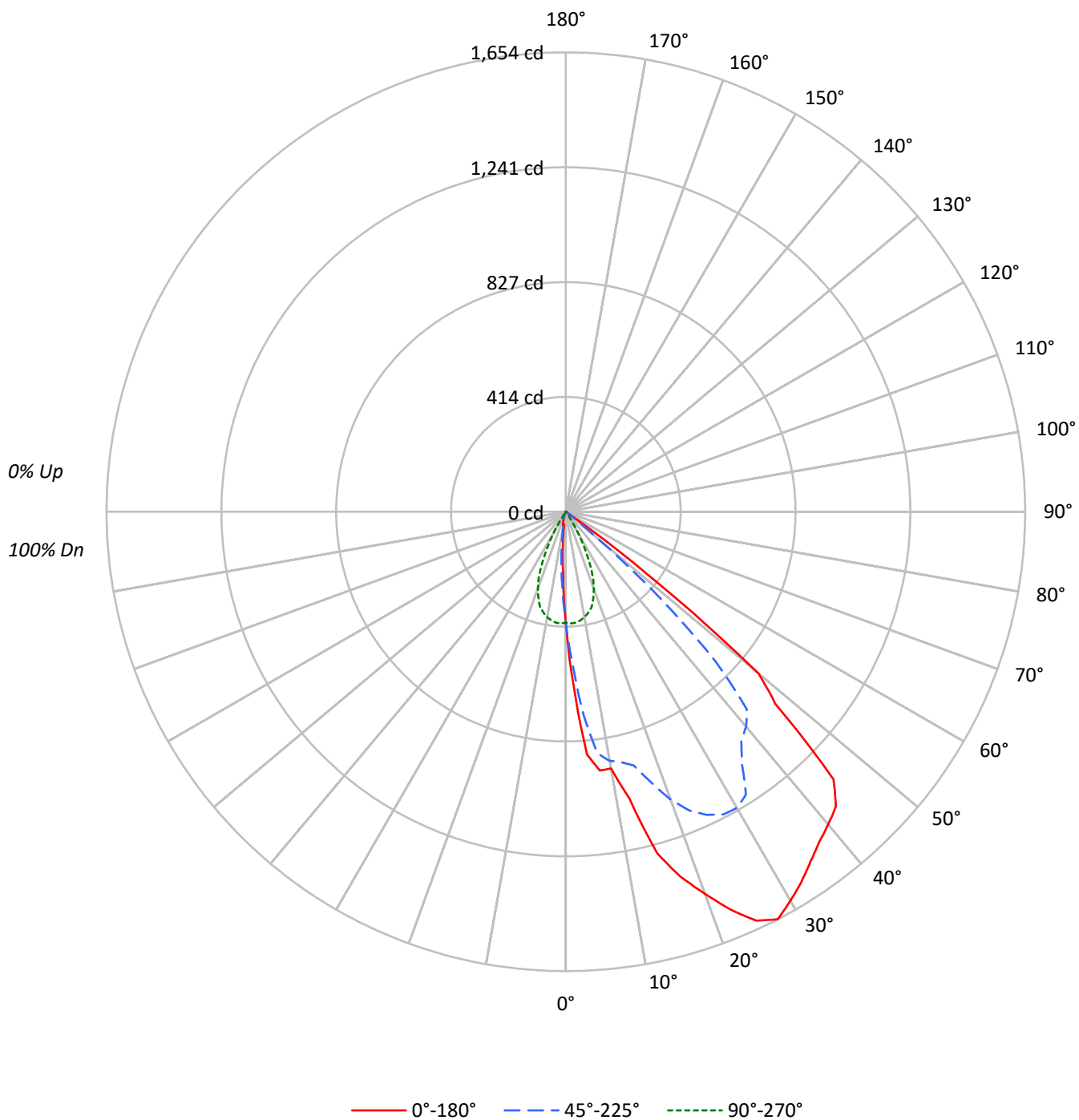
Lumens per Lamp: N/A
Luminaire Lumens: 1076.0 lumens
Efficiency: N/A
Efficacy: 39.3 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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	100		
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39		
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	68769	68769	68769	68769	68769
5°	151720	127309	69308	31499	20746
10°	164107	159315	67451	8761	9024
15°	227134	168670	63617	8933	6490
20°	268260	202043	53993	5278	1943
25°	308736	228811	38081	874	0
30°	321586	244883	17520	0	0
35°	323063	232089	967	0	0
40°	330441	227001	0	0	0
45°	332094	186031	0	0	0
50°	242477	38636	0	0	0
55°	13692	0	0	0	0
60°	0	517	517	0	0
65°	0	0	611	0	0
70°	0	755	755	0	0
75°	0	998	998	0	0
80°	0	1488	1488	1488	0
85°	0	2964	2964	2964	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 338377 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	4.1
10°-20°	145.9	13.6
20°-30°	262.2	24.4
30°-40°	318.8	29.6
40°-50°	246.2	22.9
50°-60°	57.3	5.3
60°-70°	0.4	0.0
70°-80°	0.8	0.1
80°-90°	0.8	0.1
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°	451.8	42.0
0°-40°	770.6	71.6
0°-60°	1074.0	99.8
0°-90°	1076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1076.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	399	399	399	399	399	
5°	878	736	401	182	120	83
15°	1274	946	357	50	36	356
25°	1625	1204	200	5	0	739
35°	1537	1104	5	0	0	965
45°	1364	764	0	0	0	964
55°	46	0	0	0	0	187
65°	0	0	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	2	2	0	0
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°	399.3	399.3	399.3	399.3	399.3	399.3	399.3	399.3	399.3	399.3	399.3
2.5°	622.5	622.5	625.6	624.1	610.4	604.3	584.6	574.0	570.9	546.6	537.5
5°	877.6	879.2	871.6	870.0	854.9	844.2	827.5	801.7	775.9	736.4	701.5
7.5°	939.9	938.4	936.9	936.9	933.8	927.7	920.2	912.6	901.9	877.6	850.3
10°	938.4	938.4	936.9	936.9	935.3	936.9	935.3	930.8	926.2	911.0	895.9
12.5°	1056.8	1047.7	1035.6	1017.3	987.0	964.2	938.4	930.8	927.7	923.2	914.1
15°	1273.9	1266.4	1240.5	1208.7	1178.3	1126.7	1085.7	1029.5	985.4	946.0	926.2
17.5°	1378.7	1383.3	1354.4	1334.7	1305.8	1264.8	1216.2	1158.5	1096.3	1021.9	962.7
20°	1463.7	1468.3	1444.0	1424.3	1390.9	1348.3	1305.8	1243.6	1184.4	1102.4	1024.9
22.5°	1550.3	1553.3	1530.6	1501.7	1463.7	1419.7	1365.0	1301.3	1237.5	1164.6	1082.6
25°	1624.7	1621.7	1583.7	1542.7	1506.3	1459.2	1406.0	1343.8	1283.1	1204.1	1126.7
27.5°	1653.5	1652.0	1609.5	1570.0	1527.5	1463.7	1416.7	1362.0	1298.2	1228.4	1149.4
30°	1617.1	1641.4	1614.1	1585.2	1533.6	1469.8	1424.3	1359.0	1299.8	1231.4	1141.8
32.5°	1579.1	1609.5	1600.4	1586.7	1526.0	1475.9	1416.7	1355.9	1286.1	1207.1	1070.5
35°	1536.6	1568.5	1570.0	1554.8	1500.2	1450.1	1395.4	1331.6	1252.7	1103.9	1003.7
37.5°	1498.7	1529.0	1538.1	1506.3	1463.7	1396.9	1346.8	1280.0	1137.3	1037.1	985.4
40°	1469.8	1492.6	1506.3	1456.2	1413.6	1348.3	1290.6	1173.7	1044.7	1009.7	936.9
42.5°	1439.5	1460.7	1466.8	1412.1	1346.8	1284.6	1201.1	1053.8	1015.8	964.2	768.3
45°	1363.5	1389.3	1374.2	1321.0	1272.4	1207.1	1082.6	1018.9	977.9	763.8	472.2
47.5°	1023.4	1052.3	1093.3	1108.4	1125.1	1078.1	1009.7	987.0	803.2	463.1	147.3
50°	905.0	900.4	900.4	908.0	921.7	936.9	956.6	832.1	482.9	144.2	0.0
52.5°	369.0	387.2	476.8	557.3	649.9	742.5	771.4	510.2	188.3	3.0	0.0
55°	45.6	45.6	63.8	109.3	180.7	291.5	328.0	164.0	13.7	0.0	0.0
57.5°	0.0	0.0	0.0	1.5	12.1	33.4	22.8	6.1	1.5	1.5	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	399.3	399.3	399.3	399.3	399.3	399.3	399.3	399.3
2.5°	522.3	504.1	478.3	402.4	337.1	279.4	246.0	229.3
5°	668.1	624.1	564.8	400.9	273.3	182.2	136.7	120.0
7.5°	807.8	757.7	657.5	394.8	209.5	106.3	59.2	47.1
10°	868.5	832.1	742.5	385.7	151.8	50.1	50.1	51.6
12.5°	892.8	865.5	792.6	372.0	100.2	48.6	51.6	48.6
15°	909.5	883.7	816.9	356.8	57.7	50.1	41.0	36.4
17.5°	918.6	888.3	824.5	328.0	38.0	42.5	25.8	21.3
20°	947.5	898.9	830.6	294.6	36.4	28.8	13.7	10.6
22.5°	996.1	920.2	832.1	253.6	28.8	16.7	4.6	0.0
25°	1040.1	949.0	836.6	200.4	9.1	4.6	0.0	0.0
27.5°	1061.4	958.1	835.1	141.2	0.0	0.0	0.0	0.0
30°	1035.6	935.3	821.5	88.1	0.0	0.0	0.0	0.0
32.5°	974.8	918.6	778.9	38.0	0.0	0.0	0.0	0.0
35°	955.1	882.2	681.8	4.6	0.0	0.0	0.0	0.0
37.5°	911.0	777.4	501.1	0.0	0.0	0.0	0.0	0.0
40°	783.5	561.8	238.4	0.0	0.0	0.0	0.0	0.0
42.5°	517.8	239.9	13.7	0.0	0.0	0.0	0.0	0.0
45°	182.2	15.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	1.5	1.5	0.0	0.0	0.0	0.0
67.5°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0
70°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
72.5°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
75°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
77.5°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0
85°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)