

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: P1306298

Luminaire Tested: P3SQASS20R709024D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306298
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: P3SQASS20R709024D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

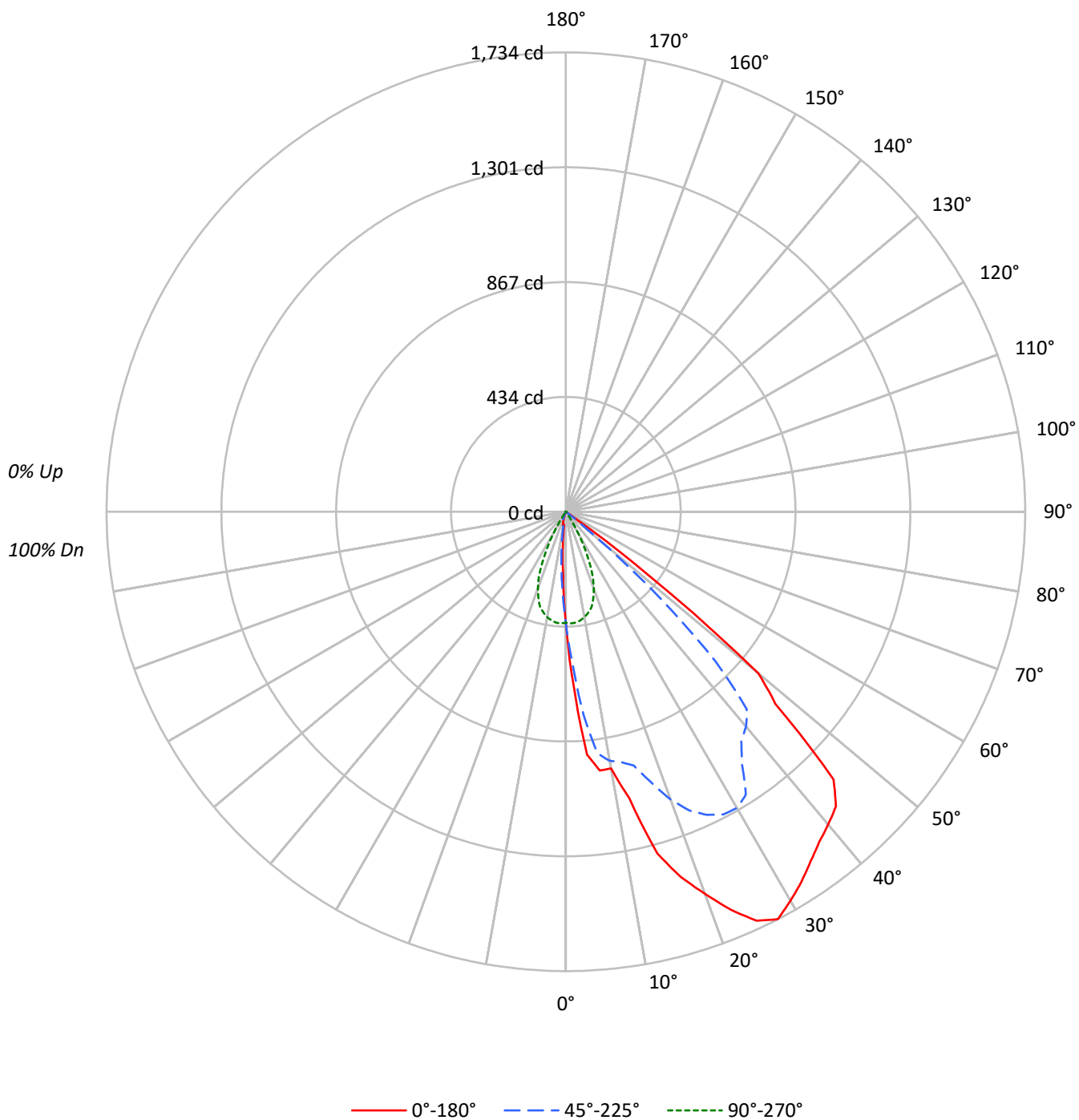
Lumens per Lamp: N/A
Luminaire Lumens: 1128.0 lumens
Efficiency: N/A
Efficacy: 39.2 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	72092	72092	72092	72092	72092
5°	159067	133464	72644	33020	21748
10°	172029	167027	70704	9181	9461
15°	238117	176818	66701	9361	6811
20°	281236	211793	56595	5535	2034
25°	323653	239871	39925	912	0
30°	337137	256716	18355	0	0
35°	338684	243296	1009	0	0
40°	346426	237973	0	0	0
45°	348144	195018	0	0	0
50°	254186	40511	0	0	0
55°	14352	0	0	0	0
60°	0	551	551	0	0
65°	0	0	652	0	0
70°	0	806	806	0	0
75°	0	1065	1065	0	0
80°	0	1587	1587	1587	0
85°	0	3162	3162	3162	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 354745 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	4.1
10°-20°	152.9	13.6
20°-30°	274.9	24.4
30°-40°	334.2	29.6
40°-50°	258.1	22.9
50°-60°	60.0	5.3
60°-70°	0.4	0.0
70°-80°	0.9	0.1
80°-90°	0.9	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°	473.6	42.0
0°-40°	807.8	71.6
0°-60°	1125.9	99.8
0°-90°	1128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1128.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	419	419	419	419	419	
5°	920	772	420	191	126	87
15°	1336	992	374	52	38	373
25°	1703	1262	210	5	0	775
35°	1611	1157	5	0	0	1012
45°	1429	801	0	0	0	1010
55°	48	0	0	0	0	196
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°	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6
2.5°	652.6	652.6	655.8	654.2	639.9	633.5	612.8	601.7	598.5	573.0	563.5
5°	920.1	921.6	913.7	912.1	896.2	885.0	867.5	840.5	813.4	772.0	735.4
7.5°	985.3	983.7	982.1	982.1	978.9	972.6	964.6	956.7	945.5	920.1	891.4
10°	983.7	983.7	982.1	982.1	980.5	982.1	980.5	975.8	971.0	955.1	939.2
12.5°	1107.9	1098.3	1085.6	1066.5	1034.7	1010.8	983.7	975.8	972.6	967.8	958.3
15°	1335.5	1327.6	1300.5	1267.1	1235.2	1181.1	1138.1	1079.2	1033.1	991.7	971.0
17.5°	1445.3	1450.1	1419.9	1399.2	1368.9	1326.0	1275.0	1214.5	1149.3	1071.3	1009.2
20°	1534.5	1539.3	1513.8	1493.1	1458.1	1413.5	1368.9	1303.7	1241.6	1155.6	1074.5
22.5°	1625.2	1628.4	1604.5	1574.3	1534.5	1488.3	1431.0	1364.2	1297.3	1220.9	1134.9
25°	1703.2	1700.0	1660.2	1617.3	1579.1	1529.7	1474.0	1408.7	1345.1	1262.3	1181.1
27.5°	1733.5	1731.9	1687.3	1645.9	1601.3	1534.5	1485.1	1427.8	1361.0	1287.8	1205.0
30°	1695.3	1720.7	1692.1	1661.8	1607.7	1540.9	1493.1	1424.7	1362.6	1290.9	1197.0
32.5°	1655.5	1687.3	1677.7	1663.4	1599.7	1547.2	1485.1	1421.5	1348.2	1265.5	1122.2
35°	1610.9	1644.3	1645.9	1630.0	1572.7	1520.2	1462.9	1396.0	1313.2	1157.2	1052.2
37.5°	1571.1	1602.9	1612.5	1579.1	1534.5	1464.4	1411.9	1341.9	1192.2	1087.2	1033.1
40°	1540.9	1564.7	1579.1	1526.5	1482.0	1413.5	1353.0	1230.5	1095.2	1058.5	982.1
42.5°	1509.0	1531.3	1537.7	1480.4	1411.9	1346.7	1259.1	1104.7	1064.9	1010.8	805.4
45°	1429.4	1456.5	1440.6	1384.9	1333.9	1265.5	1134.9	1068.1	1025.1	800.7	495.0
47.5°	1072.9	1103.1	1146.1	1162.0	1179.5	1130.2	1058.5	1034.7	842.1	485.5	154.4
50°	948.7	943.9	943.9	951.9	966.2	982.1	1002.8	872.3	506.2	151.2	0.0
52.5°	386.8	405.9	499.8	584.2	681.3	778.4	808.6	534.8	197.4	3.2	0.0
55°	47.8	47.8	66.9	114.6	189.4	305.6	343.8	171.9	14.3	0.0	0.0
57.5°	0.0	0.0	0.0	1.6	12.7	35.0	23.9	6.4	1.6	1.6	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
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	1.6	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6
2.5°	547.6	528.5	501.4	421.8	353.4	292.9	257.9	240.4
5°	700.4	654.2	592.1	420.2	286.5	191.0	143.3	125.8
7.5°	846.8	794.3	689.2	413.9	219.7	111.4	62.1	49.3
10°	910.5	872.3	778.4	404.3	159.2	52.5	52.5	54.1
12.5°	936.0	907.3	830.9	390.0	105.1	50.9	54.1	50.9
15°	953.5	926.4	856.4	374.1	60.5	52.5	43.0	38.2
17.5°	963.0	931.2	864.3	343.8	39.8	44.6	27.1	22.3
20°	993.3	942.3	870.7	308.8	38.2	30.2	14.3	11.1
22.5°	1044.2	964.6	872.3	265.8	30.2	17.5	4.8	0.0
25°	1090.4	994.9	877.1	210.1	9.6	4.8	0.0	0.0
27.5°	1112.7	1004.4	875.5	148.0	0.0	0.0	0.0	0.0
30°	1085.6	980.5	861.2	92.3	0.0	0.0	0.0	0.0
32.5°	1021.9	963.0	816.6	39.8	0.0	0.0	0.0	0.0
35°	1001.2	924.8	714.7	4.8	0.0	0.0	0.0	0.0
37.5°	955.1	815.0	525.3	0.0	0.0	0.0	0.0	0.0
40°	821.4	589.0	249.9	0.0	0.0	0.0	0.0	0.0
42.5°	542.8	251.5	14.3	0.0	0.0	0.0	0.0	0.0
45°	191.0	15.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3.2	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°	1.6	1.6	1.6	1.6	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	1.6	1.6	0.0	0.0	0.0	0.0
67.5°	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
70°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
72.5°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
75°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
77.5°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
80°	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0
85°	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	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)