

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: P1307270

Luminaire Tested: P3SQAS20R709027D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307270
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: P3SQAS20R709027D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

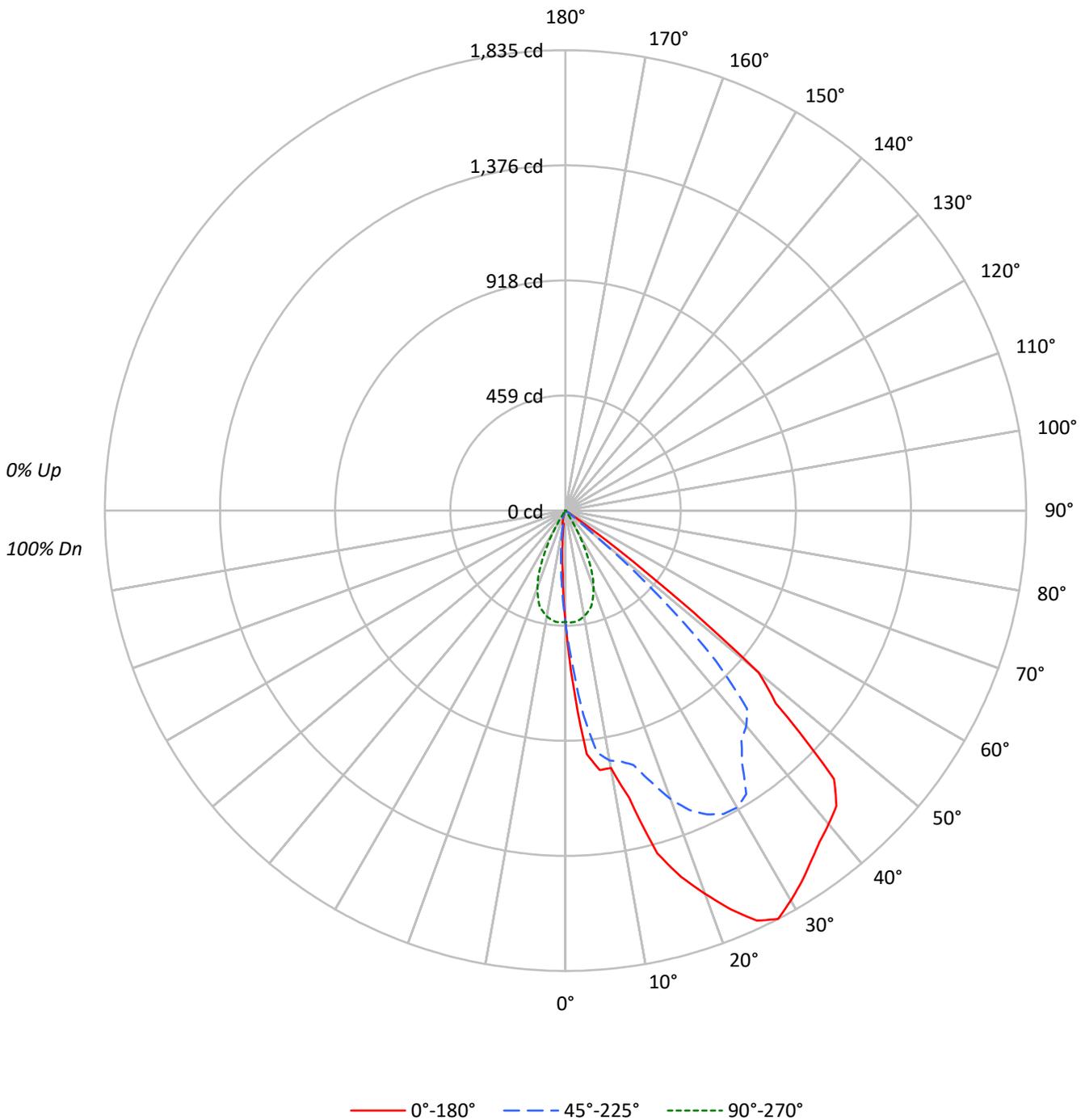
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1194.0 lumens
Efficiency: N/A
Efficacy: 41.5 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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	66
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	63	58	55	53
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	58	53	49	48
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	50	45	41	39
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	76312	76312	76312	76312	76312
5°	168368	141278	76897	34956	23010
10°	182102	176803	74848	9723	10021
15°	252060	187159	70606	9913	7203
20°	297694	224201	59913	5865	2163
25°	342599	253895	42262	969	0
30°	356844	271750	19429	0	0
35°	358489	257529	1072	0	0
40°	366683	251912	0	0	0
45°	368530	206417	0	0	0
50°	269056	42896	0	0	0
55°	15163	0	0	0	0
60°	0	586	586	0	0
65°	0	0	693	0	0
70°	0	856	856	0	0
75°	0	1131	1131	0	0
80°	0	1686	1686	1686	0
85°	0	3359	3359	3359	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°
 Vertical Angle: 45°
 Luminance: 375496 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	4.1
10°-20°	161.9	13.6
20°-30°	291.0	24.4
30°-40°	353.7	29.6
40°-50°	273.1	22.9
50°-60°	63.5	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°	501.3	42.0
0°-40°	855.1	71.6
0°-60°	1191.8	99.8
0°-90°	1194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1194.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	443	443	443	443	443	
5°	974	817	445	202	133	92
15°	1414	1050	396	56	40	395
25°	1803	1336	222	5	0	820
35°	1705	1225	5	0	0	1071
45°	1513	848	0	0	0	1069
55°	50	0	0	0	0	208
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°	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1
2.5°	690.8	690.8	694.2	692.5	677.3	670.6	648.7	636.9	633.5	606.6	596.5
5°	973.9	975.6	967.1	965.5	948.6	936.8	918.3	889.6	861.0	817.2	778.4
7.5°	1043.0	1041.3	1039.6	1039.6	1036.2	1029.5	1021.1	1012.6	1000.8	973.9	943.6
10°	1041.3	1041.3	1039.6	1039.6	1037.9	1039.6	1037.9	1032.9	1027.8	1011.0	994.1
12.5°	1172.7	1162.6	1149.1	1128.9	1095.2	1069.9	1041.3	1032.9	1029.5	1024.4	1014.3
15°	1413.7	1405.2	1376.6	1341.2	1307.5	1250.2	1204.7	1142.4	1093.5	1049.7	1027.8
17.5°	1529.9	1535.0	1503.0	1481.0	1449.0	1403.5	1349.6	1285.6	1216.5	1134.0	1068.2
20°	1624.3	1629.3	1602.4	1580.5	1543.4	1496.2	1449.0	1380.0	1314.2	1223.3	1137.3
22.5°	1720.3	1723.7	1698.4	1666.4	1624.3	1575.4	1514.7	1444.0	1373.2	1292.3	1201.4
25°	1802.9	1799.5	1757.4	1711.9	1671.4	1619.2	1560.2	1491.2	1423.8	1336.1	1250.2
27.5°	1834.9	1833.2	1786.0	1742.2	1695.0	1624.3	1572.0	1511.4	1440.6	1363.1	1275.5
30°	1794.4	1821.4	1791.1	1759.1	1701.8	1631.0	1580.5	1508.0	1442.3	1366.5	1267.1
32.5°	1752.3	1786.0	1775.9	1760.7	1693.3	1637.7	1572.0	1504.6	1427.1	1339.5	1187.9
35°	1705.1	1740.5	1742.2	1725.4	1664.7	1609.1	1548.4	1477.7	1390.1	1224.9	1113.7
37.5°	1663.0	1696.7	1706.8	1671.4	1624.3	1550.1	1494.5	1420.4	1262.0	1150.8	1093.5
40°	1631.0	1656.3	1671.4	1615.8	1568.7	1496.2	1432.2	1302.4	1159.2	1120.5	1039.6
42.5°	1597.3	1620.9	1627.6	1567.0	1494.5	1425.4	1332.8	1169.3	1127.2	1069.9	852.6
45°	1513.1	1541.7	1524.9	1465.9	1412.0	1339.5	1201.4	1130.6	1085.1	847.5	524.0
47.5°	1135.6	1167.7	1213.1	1230.0	1248.5	1196.3	1120.5	1095.2	891.3	513.9	163.4
50°	1004.2	999.2	999.2	1007.6	1022.7	1039.6	1061.5	923.3	535.8	160.1	0.0
52.5°	409.4	429.7	529.1	618.4	721.1	823.9	855.9	566.1	208.9	3.4	0.0
55°	50.5	50.5	70.8	121.3	200.5	323.5	363.9	182.0	15.2	0.0	0.0
57.5°	0.0	0.0	0.0	1.7	13.5	37.1	25.3	6.7	1.7	1.7	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
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	1.7	1.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1
2.5°	579.6	559.4	530.8	446.5	374.1	310.0	273.0	254.4
5°	741.4	692.5	626.8	444.8	303.3	202.2	151.6	133.1
7.5°	896.4	840.8	729.6	438.1	232.5	117.9	65.7	52.2
10°	963.8	923.3	823.9	428.0	168.5	55.6	55.6	57.3
12.5°	990.7	960.4	879.5	412.8	111.2	53.9	57.3	53.9
15°	1009.3	980.6	906.5	396.0	64.0	55.6	45.5	40.4
17.5°	1019.4	985.7	914.9	363.9	42.1	47.2	28.6	23.6
20°	1051.4	997.5	921.7	326.9	40.4	32.0	15.2	11.8
22.5°	1105.3	1021.1	923.3	281.4	32.0	18.5	5.1	0.0
25°	1154.2	1053.1	928.4	222.4	10.1	5.1	0.0	0.0
27.5°	1177.8	1063.2	926.7	156.7	0.0	0.0	0.0	0.0
30°	1149.1	1037.9	911.5	97.7	0.0	0.0	0.0	0.0
32.5°	1081.7	1019.4	864.4	42.1	0.0	0.0	0.0	0.0
35°	1059.8	978.9	756.5	5.1	0.0	0.0	0.0	0.0
37.5°	1011.0	862.7	556.0	0.0	0.0	0.0	0.0	0.0
40°	869.4	623.4	264.5	0.0	0.0	0.0	0.0	0.0
42.5°	574.6	266.2	15.2	0.0	0.0	0.0	0.0	0.0
45°	202.2	16.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3.4	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°	1.7	1.7	1.7	1.7	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	1.7	1.7	0.0	0.0	0.0	0.0
67.5°	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0
70°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
72.5°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
75°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
77.5°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
80°	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0
85°	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	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)