

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: P1310625

Luminaire Tested: P3SQAS20R709040D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310625
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: P3SQAS20R709040D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

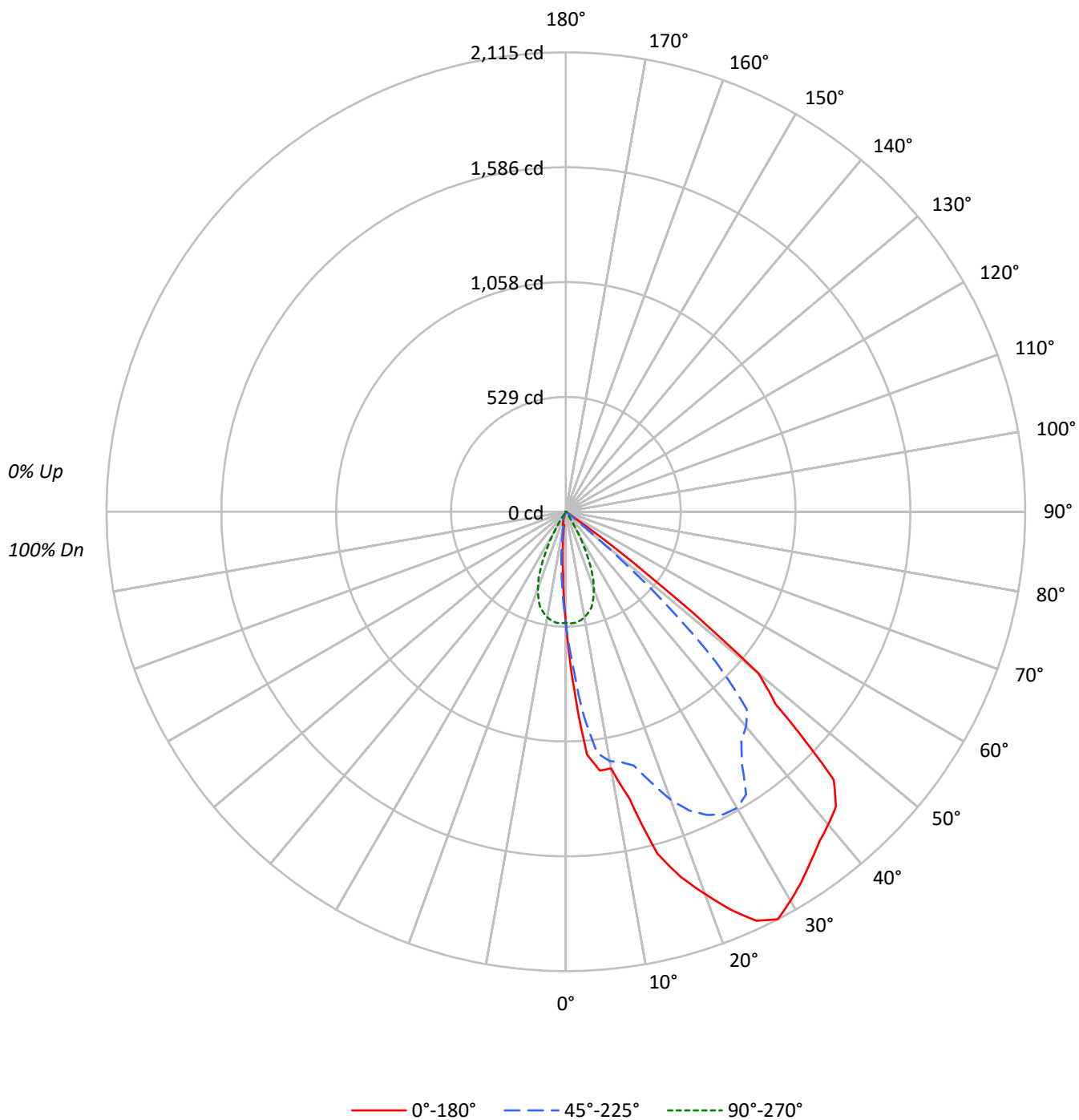
Lumens per Lamp: N/A
Luminaire Lumens: 1375.9 lumens
Efficiency: N/A
Efficacy: 47.8 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	87954	87954	87954	87954	87954
5°	194024	162819	88619	40281	26520
10°	209855	203752	86251	11210	11542
15°	290465	215687	81357	11429	8309
20°	343073	258363	69040	6763	2493
25°	394818	292603	48704	1102	0
30°	411254	313174	22392	0	0
35°	413152	296803	1219	0	0
40°	422573	290311	0	0	0
45°	424695	237885	0	0	0
50°	310076	49433	0	0	0
55°	17505	0	0	0	0
60°	0	654	654	0	0
65°	0	0	774	0	0
70°	0	957	957	0	0
75°	0	1264	1264	0	0
80°	0	1884	1884	1884	0
85°	0	3754	3754	3754	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 432732 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	4.1
10°-20°	186.6	13.6
20°-30°	335.3	24.4
30°-40°	407.7	29.6
40°-50°	314.8	22.9
50°-60°	73.2	5.3
60°-70°	0.5	0.0
70°-80°	1.0	0.1
80°-90°	1.0	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°	577.8	42.0
0°-40°	985.4	71.6
0°-60°	1373.4	99.8
0°-90°	1375.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1375.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	511	511	511	511	511	
5°	1122	942	513	233	153	106
15°	1629	1210	456	64	47	456
25°	2078	1540	256	6	0	946
35°	1965	1412	6	0	0	1234
45°	1744	977	0	0	0	1232
55°	58	0	0	0	0	239
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°	510.7	510.7	510.7	510.7	510.7	510.7	510.7	510.7	510.7	510.7	510.7
2.5°	796.1	796.1	800.0	798.1	780.6	772.8	747.6	734.0	730.1	699.0	687.4
5°	1122.3	1124.3	1114.6	1112.6	1093.2	1079.6	1058.3	1025.2	992.2	941.8	897.1
7.5°	1201.9	1200.0	1198.1	1198.1	1194.2	1186.4	1176.7	1167.0	1153.4	1122.3	1087.4
10°	1200.0	1200.0	1198.1	1198.1	1196.1	1198.1	1196.1	1190.3	1184.5	1165.1	1145.6
12.5°	1351.5	1339.8	1324.3	1301.0	1262.1	1233.0	1200.0	1190.3	1186.4	1180.6	1168.9
15°	1629.1	1619.4	1586.4	1545.6	1506.8	1440.8	1388.4	1316.5	1260.2	1209.7	1184.5
17.5°	1763.1	1768.9	1732.0	1706.8	1669.9	1617.5	1555.3	1481.6	1401.9	1306.8	1231.1
20°	1871.9	1877.7	1846.6	1821.4	1778.6	1724.3	1669.9	1590.3	1514.6	1409.7	1310.7
22.5°	1982.5	1986.4	1957.3	1920.4	1871.9	1815.5	1745.6	1664.1	1582.5	1489.3	1384.5
25°	2077.7	2073.8	2025.3	1972.8	1926.2	1866.0	1798.1	1718.5	1640.8	1539.8	1440.8
27.5°	2114.6	2112.6	2058.3	2007.8	1953.4	1871.9	1811.7	1741.8	1660.2	1570.9	1469.9
30°	2068.0	2099.0	2064.1	2027.2	1961.2	1879.6	1821.4	1737.9	1662.1	1574.8	1460.2
32.5°	2019.4	2058.3	2046.6	2029.1	1951.5	1887.4	1811.7	1734.0	1644.7	1543.7	1368.9
35°	1965.1	2005.8	2007.8	1988.4	1918.5	1854.4	1784.5	1702.9	1601.9	1411.7	1283.5
37.5°	1916.5	1955.3	1967.0	1926.2	1871.9	1786.4	1722.3	1636.9	1454.4	1326.2	1260.2
40°	1879.6	1908.7	1926.2	1862.1	1807.8	1724.3	1650.5	1501.0	1335.9	1291.3	1198.1
42.5°	1840.8	1868.0	1875.7	1805.8	1722.3	1642.7	1535.9	1347.6	1299.0	1233.0	982.5
45°	1743.7	1776.7	1757.3	1689.3	1627.2	1543.7	1384.5	1302.9	1250.5	976.7	603.9
47.5°	1308.7	1345.6	1398.1	1417.5	1438.8	1378.6	1291.3	1262.1	1027.2	592.2	188.4
50°	1157.3	1151.5	1151.5	1161.2	1178.6	1198.1	1223.3	1064.1	617.5	184.5	0.0
52.5°	471.8	495.1	609.7	712.6	831.1	949.5	986.4	652.4	240.8	3.9	0.0
55°	58.3	58.3	81.6	139.8	231.1	372.8	419.4	209.7	17.5	0.0	0.0
57.5°	0.0	0.0	0.0	1.9	15.5	42.7	29.1	7.8	1.9	1.9	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
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	1.9	1.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9
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°	510.7	510.7	510.7	510.7	510.7	510.7	510.7	510.7
2.5°	668.0	644.7	611.7	514.6	431.1	357.3	314.6	293.2
5°	854.4	798.1	722.3	512.6	349.5	233.0	174.8	153.4
7.5°	1033.0	968.9	840.8	504.9	268.0	135.9	75.7	60.2
10°	1110.7	1064.1	949.5	493.2	194.2	64.1	64.1	66.0
12.5°	1141.8	1106.8	1013.6	475.7	128.2	62.1	66.0	62.1
15°	1163.1	1130.1	1044.7	456.3	73.8	64.1	52.4	46.6
17.5°	1174.8	1135.9	1054.4	419.4	48.5	54.4	33.0	27.2
20°	1211.7	1149.5	1062.1	376.7	46.6	36.9	17.5	13.6
22.5°	1273.8	1176.7	1064.1	324.3	36.9	21.4	5.8	0.0
25°	1330.1	1213.6	1069.9	256.3	11.7	5.8	0.0	0.0
27.5°	1357.3	1225.2	1068.0	180.6	0.0	0.0	0.0	0.0
30°	1324.3	1196.1	1050.5	112.6	0.0	0.0	0.0	0.0
32.5°	1246.6	1174.8	996.1	48.5	0.0	0.0	0.0	0.0
35°	1221.4	1128.2	871.8	5.8	0.0	0.0	0.0	0.0
37.5°	1165.1	994.2	640.8	0.0	0.0	0.0	0.0	0.0
40°	1001.9	718.4	304.9	0.0	0.0	0.0	0.0	0.0
42.5°	662.1	306.8	17.5	0.0	0.0	0.0	0.0	0.0
45°	233.0	19.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3.9	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°	1.9	1.9	1.9	1.9	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	1.9	1.9	0.0	0.0	0.0	0.0
67.5°	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0
70°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0
72.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0
75°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0
77.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0
80°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0
85°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0
87.5°	1.9	1.9	1.9	1.9	1.9	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)