

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: P1316589

Luminaire Tested: P3SQAS20R559827D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R559827D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

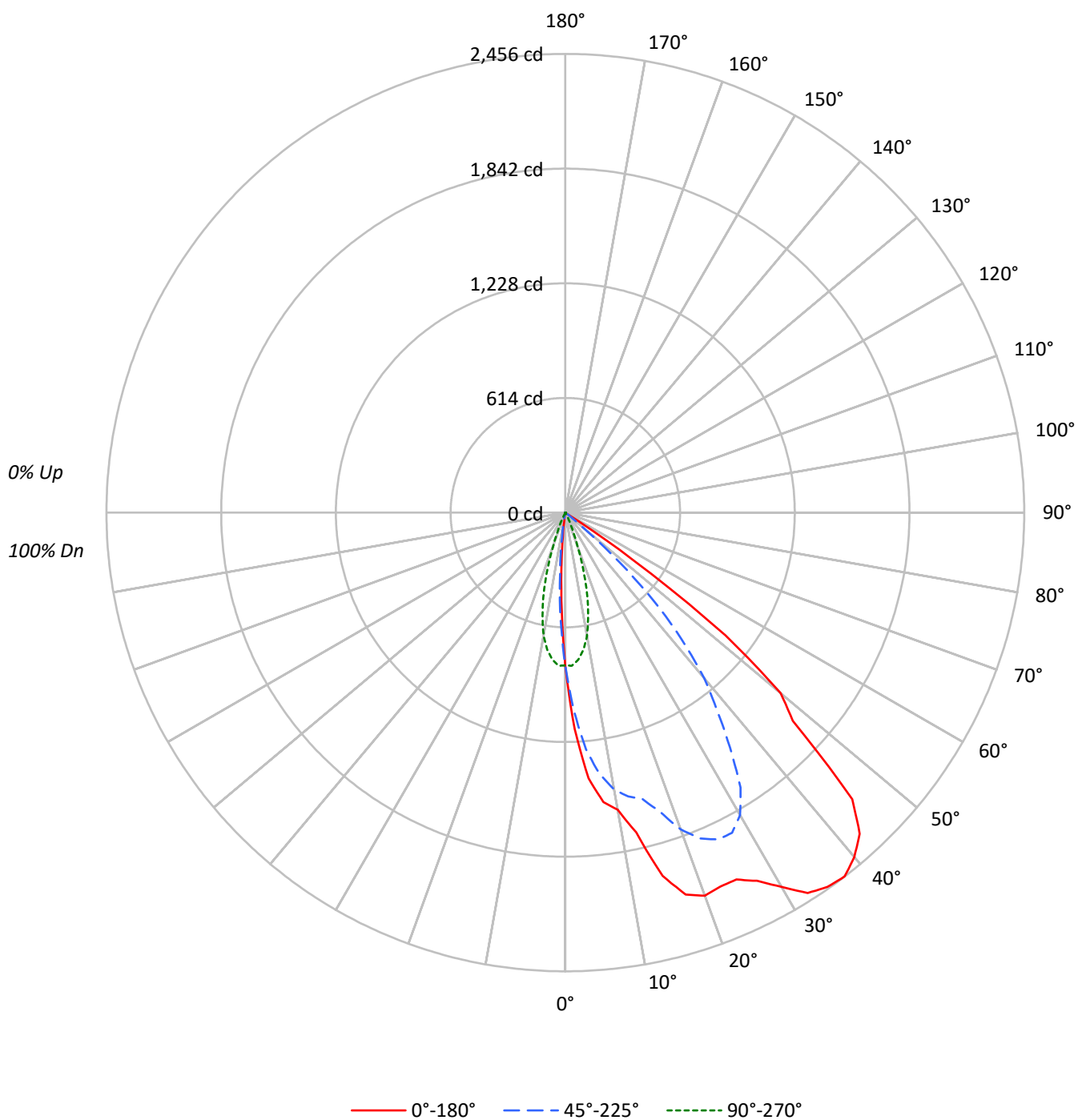
Lumens per Lamp: N/A
Luminaire Lumens: 1513.0 lumens
Efficiency: N/A
Efficacy: 55.2 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82		
3	98	91	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73		
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66		
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59		
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	44		
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	140809	140809	140809	140809	140809
5°	246787	219990	136662	56774	32692
10°	282465	263316	116872	6208	2238
15°	358967	282674	80109	1266	767
20°	399999	330684	35171	0	0
25°	411769	366922	9995	0	0
30°	460036	371819	1412	0	0
35°	514175	322852	0	0	0
40°	540874	259893	0	0	0
45°	528817	164159	0	0	0
50°	402673	33518	0	0	0
55°	131905	0	0	0	0
60°	0	0	0	0	0
65°	0	571	571	0	0
70°	0	705	705	0	0
75°	0	932	932	0	0
80°	0	1389	2777	1389	0
85°	0	2766	2766	2766	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 528817 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	4.9
10°-20°	218.9	14.5
20°-30°	356.0	23.5
30°-40°	423.1	28.0
40°-50°	346.0	22.9
50°-60°	91.7	6.1
60°-70°	0.6	0.0
70°-80°	0.9	0.1
80°-90°	1.1	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°	649.6	42.9
0°-40°	1072.7	70.9
0°-60°	1510.4	99.8
0°-90°	1513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1513.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	818	818	818	818	818	
5°	1428	1272	790	328	189	140
15°	2013	1585	449	7	4	563
25°	2167	1931	53	0	0	1020
35°	2446	1536	0	0	0	1521
45°	2171	674	0	0	0	1558
55°	439	0	0	0	0	494
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	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°	67.5°
0°	817.6	817.6	817.6	817.6	817.6	817.6	817.6	817.6	817.6	817.6	817.6
2.5°	1160.2	1151.7	1153.1	1148.8	1153.1	1134.6	1114.7	1096.2	1082.0	1062.1	941.3
5°	1427.5	1413.3	1409.0	1403.4	1397.7	1374.9	1356.4	1333.7	1306.7	1272.5	1050.7
7.5°	1562.6	1551.2	1545.5	1548.4	1535.6	1527.1	1502.9	1477.3	1448.9	1411.9	1133.2
10°	1615.2	1603.8	1602.4	1601.0	1599.6	1593.9	1582.5	1559.8	1534.2	1505.7	1180.1
12.5°	1753.1	1727.5	1710.5	1690.6	1666.4	1635.1	1609.5	1589.6	1579.7	1556.9	1201.5
15°	2013.3	1989.2	1970.7	1945.1	1899.6	1832.8	1771.6	1693.4	1625.2	1585.4	1192.9
17.5°	2144.1	2132.8	2117.1	2100.1	2068.8	2020.4	1957.9	1875.4	1788.7	1676.4	1151.7
20°	2182.5	2176.8	2165.5	2158.4	2137.0	2102.9	2060.2	1996.3	1915.2	1804.3	1087.7
22.5°	2166.9	2171.2	2176.8	2195.3	2198.2	2174.0	2134.2	2073.0	1990.6	1888.2	989.6
25°	2166.9	2164.0	2164.0	2202.4	2226.6	2215.2	2186.8	2131.3	2047.5	1930.9	868.7
27.5°	2222.3	2205.3	2169.7	2209.5	2249.4	2245.1	2219.5	2154.1	2060.2	1932.3	720.9
30°	2313.3	2276.4	2218.1	2255.0	2292.0	2276.4	2235.1	2151.2	2031.8	1869.7	540.3
32.5°	2414.3	2397.2	2367.4	2391.5	2385.9	2323.3	2249.4	2132.8	1973.5	1744.6	364.0
35°	2445.6	2448.4	2428.5	2424.2	2391.5	2327.6	2249.4	2080.2	1851.2	1535.6	216.1
37.5°	2455.5	2456.9	2425.7	2385.9	2337.5	2262.2	2168.3	1972.1	1625.2	1333.7	115.2
40°	2405.8	2404.3	2353.1	2304.8	2250.8	2176.8	2040.3	1744.6	1410.5	1156.0	41.2
42.5°	2331.8	2313.3	2265.0	2205.3	2139.9	2047.5	1834.2	1473.0	1225.6	925.6	2.8
45°	2171.2	2154.1	2115.7	2051.7	1979.2	1848.4	1511.4	1265.4	996.7	674.0	0.0
47.5°	1650.8	1642.2	1682.0	1690.6	1689.1	1539.9	1261.2	1032.3	732.2	392.4	0.0
50°	1502.9	1491.5	1451.7	1400.5	1309.5	1184.4	1010.9	765.0	429.4	125.1	0.0
52.5°	1079.2	1116.1	1124.7	1086.3	1001.0	877.3	696.7	440.8	149.3	0.0	0.0
55°	439.3	416.6	433.7	455.0	472.1	433.7	321.3	156.4	1.4	0.0	0.0
57.5°	0.0	1.4	8.5	19.9	32.7	41.2	44.1	2.8	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.4	1.4	1.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
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):

	90°	112.5°	135°	157.5°	180°
0°	817.6	817.6	817.6	817.6	817.6
2.5°	820.4	693.9	571.6	504.8	472.1
5°	790.5	530.3	328.4	227.5	189.1
7.5°	740.8	364.0	130.8	54.0	38.4
10°	668.3	209.0	35.5	14.2	12.8
12.5°	564.5	95.3	12.8	10.0	10.0
15°	449.3	32.7	7.1	5.7	4.3
17.5°	315.6	8.5	2.8	0.0	0.0
20°	191.9	1.4	0.0	0.0	0.0
22.5°	106.6	0.0	0.0	0.0	0.0
25°	52.6	0.0	0.0	0.0	0.0
27.5°	22.7	0.0	0.0	0.0	0.0
30°	7.1	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	1.4	0.0	0.0	0.0	0.0
65°	1.4	1.4	0.0	0.0	0.0
67.5°	1.4	1.4	0.0	0.0	0.0
70°	1.4	1.4	0.0	0.0	0.0
72.5°	1.4	1.4	0.0	0.0	0.0
75°	1.4	1.4	0.0	0.0	0.0
77.5°	2.8	1.4	1.4	0.0	0.0
80°	2.8	1.4	1.4	0.0	0.0
82.5°	2.8	1.4	1.4	0.0	0.0
85°	1.4	1.4	1.4	0.0	0.0
87.5°	2.8	1.4	1.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)