

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: P1313771

Luminaire Tested: P3SQAS20R559730D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R559730D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

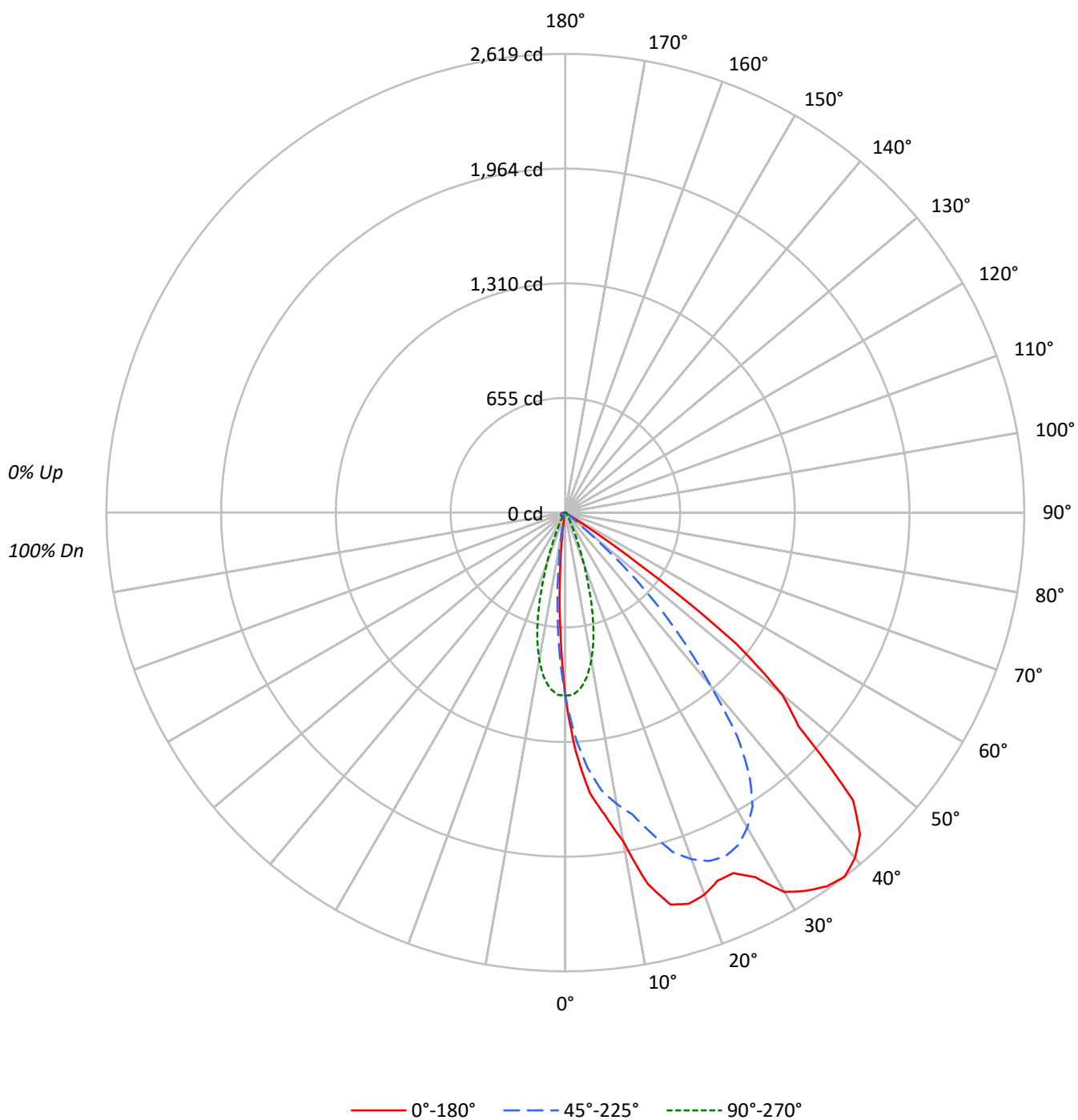
Lumens per Lamp: N/A
Luminaire Lumens: 1743.9 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	100	98	99	97	95	95	94	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	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	57	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	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	180024	180024	180024	180024	180024
5°	277612	252734	173900	89310	58658
10°	333548	295389	149679	22524	9006
15°	412992	337358	106961	6205	4868
20°	425364	385923	55258	4160	4160
25°	431532	411085	22157	3744	4314
30°	497383	413044	9645	3918	4514
35°	547499	385064	4142	4142	5088
40°	578306	289839	2383	4766	5441
45°	565643	177117	2216	5163	6649
50°	432682	37751	2438	6082	7716
55°	158748	1351	2732	6816	8648
60°	1550	1550	3134	7819	9920
65°	1834	1834	3708	8028	10514
70°	1511	2266	3827	9165	12186
75°	998	1996	4059	10048	14107
80°	1488	2975	4463	10513	14976
85°	0	2964	5928	12054	15018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 565643 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	5.3
10°-20°	263.5	15.1
20°-30°	404.3	23.2
30°-40°	471.1	27.0
40°-50°	376.4	21.6
50°-60°	111.4	6.4
60°-70°	11.9	0.7
70°-80°	9.3	0.5
80°-90°	4.0	0.2
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°	759.8	43.6
0°-40°	1230.9	70.6
0°-60°	1718.7	98.6
0°-90°	1743.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1743.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1045	1045	1045	1045	1045	
5°	1606	1462	1006	517	339	160
15°	2316	1892	600	35	27	639
25°	2271	2163	117	20	23	1079
35°	2604	1832	20	20	24	1622
45°	2322	727	9	21	27	1674
55°	529	4	9	23	29	560
65°	4	4	9	20	26	4
75°	2	3	6	15	21	2
85°	0	2	3	6	8	1
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°	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3
2.5°	1363.4	1363.4	1358.9	1360.4	1357.4	1340.7	1337.7	1316.5	1298.3	1278.6	1261.9
5°	1605.8	1608.8	1604.3	1595.2	1583.1	1571.0	1545.2	1525.5	1499.8	1461.9	1427.1
7.5°	1743.7	1740.6	1733.1	1730.0	1722.5	1708.8	1690.6	1669.4	1639.1	1601.3	1560.4
10°	1907.3	1881.5	1874.0	1861.8	1837.6	1810.3	1778.5	1749.7	1724.0	1689.1	1645.2
12.5°	2170.9	2166.3	2136.0	2113.3	2080.0	2019.4	1964.8	1901.2	1825.5	1764.9	1707.3
15°	2316.3	2319.3	2305.7	2287.5	2266.3	2216.3	2161.8	2087.6	1998.2	1892.1	1798.2
17.5°	2342.1	2346.6	2339.0	2331.5	2325.4	2296.6	2263.3	2210.3	2128.5	2030.0	1890.6
20°	2320.9	2329.9	2331.5	2340.5	2352.7	2340.5	2313.3	2276.9	2208.8	2105.7	1972.4
22.5°	2273.9	2290.6	2302.7	2334.5	2366.3	2366.3	2349.6	2320.9	2254.2	2152.7	2016.4
25°	2270.9	2273.9	2278.4	2329.9	2379.9	2390.5	2375.4	2345.1	2272.4	2163.3	2014.8
27.5°	2346.6	2326.9	2296.6	2348.1	2407.2	2416.3	2395.1	2354.2	2267.8	2139.1	1963.3
30°	2501.1	2457.2	2393.6	2431.4	2472.3	2461.7	2419.3	2354.2	2237.5	2077.0	1866.4
32.5°	2560.2	2536.0	2513.2	2554.2	2561.7	2517.8	2442.0	2345.1	2189.1	1989.1	1707.3
35°	2604.1	2605.7	2596.6	2604.1	2567.8	2505.7	2422.4	2295.1	2098.2	1831.5	1496.7
37.5°	2619.3	2622.3	2602.6	2575.4	2520.8	2449.6	2349.6	2204.2	1946.7	1614.9	1178.6
40°	2572.3	2563.2	2531.4	2493.6	2434.5	2361.8	2252.7	2036.1	1720.9	1289.2	919.6
42.5°	2489.0	2473.9	2436.0	2390.5	2328.4	2236.0	2061.8	1799.7	1398.3	1005.9	643.8
45°	2322.4	2311.8	2264.8	2231.5	2157.2	2037.6	1813.4	1483.1	1081.7	727.2	372.7
47.5°	1804.3	1805.8	1842.1	1858.8	1833.1	1737.6	1474.0	1127.1	789.3	433.3	125.7
50°	1614.9	1607.3	1571.0	1521.0	1437.7	1295.3	1081.7	796.8	466.6	140.9	18.2
52.5°	1225.6	1225.6	1207.4	1181.6	1093.8	955.9	731.7	440.8	163.6	24.2	4.5
55°	528.7	501.4	516.6	545.4	522.6	454.5	342.4	131.8	28.8	4.5	4.5
57.5°	7.6	18.2	27.3	43.9	59.1	71.2	37.9	13.6	4.5	4.5	4.5
60°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
62.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
65°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
67.5°	3.0	3.0	3.0	4.5	3.0	4.5	4.5	4.5	4.5	4.5	4.5
70°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
75°	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	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°	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3
2.5°	1237.7	1211.9	1169.5	1040.7	907.4	784.7	696.9	663.5
5°	1387.7	1340.7	1269.5	1005.9	740.8	516.6	389.3	339.3
7.5°	1505.8	1445.2	1342.2	945.3	543.9	275.7	165.1	130.3
10°	1584.6	1517.9	1383.1	855.9	360.6	128.8	62.1	51.5
12.5°	1642.2	1558.9	1398.3	740.8	212.1	59.1	33.3	30.3
15°	1684.6	1577.0	1380.1	599.9	116.6	34.8	27.3	27.3
17.5°	1743.7	1586.1	1336.2	442.4	66.7	25.8	25.8	25.8
20°	1789.1	1586.1	1252.8	301.5	40.9	22.7	22.7	22.7
22.5°	1811.8	1561.9	1151.3	190.9	28.8	21.2	22.7	22.7
25°	1789.1	1502.8	1021.1	116.6	22.7	19.7	21.2	22.7
27.5°	1705.8	1384.6	846.8	74.2	18.2	19.7	21.2	22.7
30°	1566.4	1213.4	649.9	48.5	16.7	19.7	21.2	22.7
32.5°	1369.5	958.9	421.1	31.8	15.1	19.7	21.2	22.7
35°	1069.5	678.7	254.5	19.7	15.1	19.7	22.7	24.2
37.5°	801.4	453.0	137.9	12.1	15.1	19.7	22.7	24.2
40°	556.0	263.6	59.1	10.6	15.1	21.2	24.2	24.2
42.5°	322.7	104.5	15.1	9.1	15.1	21.2	24.2	25.8
45°	118.2	21.2	4.5	9.1	16.7	21.2	24.2	27.3
47.5°	16.7	4.5	4.5	9.1	16.7	21.2	25.8	27.3
50°	4.5	4.5	4.5	9.1	16.7	22.7	27.3	28.8
52.5°	4.5	4.5	4.5	9.1	16.7	22.7	27.3	28.8
55°	4.5	4.5	4.5	9.1	16.7	22.7	27.3	28.8
57.5°	4.5	4.5	4.5	9.1	16.7	22.7	27.3	28.8
60°	4.5	4.5	4.5	9.1	15.1	22.7	27.3	28.8
62.5°	4.5	4.5	4.5	9.1	15.1	21.2	25.8	27.3
65°	4.5	4.5	4.5	9.1	13.6	19.7	25.8	25.8
67.5°	4.5	4.5	4.5	7.6	13.6	19.7	24.2	25.8
70°	4.5	4.5	4.5	7.6	12.1	18.2	22.7	24.2
72.5°	4.5	4.5	4.5	6.1	10.6	16.7	21.2	22.7
75°	3.0	4.5	4.5	6.1	10.6	15.1	19.7	21.2
77.5°	3.0	4.5	4.5	4.5	9.1	12.1	16.7	18.2
80°	3.0	3.0	4.5	4.5	7.6	10.6	13.6	15.1
82.5°	3.0	3.0	3.0	4.5	6.1	7.6	10.6	10.6
85°	3.0	3.0	3.0	3.0	4.5	6.1	7.6	7.6
87.5°	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)