

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: P1310456

Luminaire Tested: P3SQAS17R559040DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310456
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: P3SQAS17R559040DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

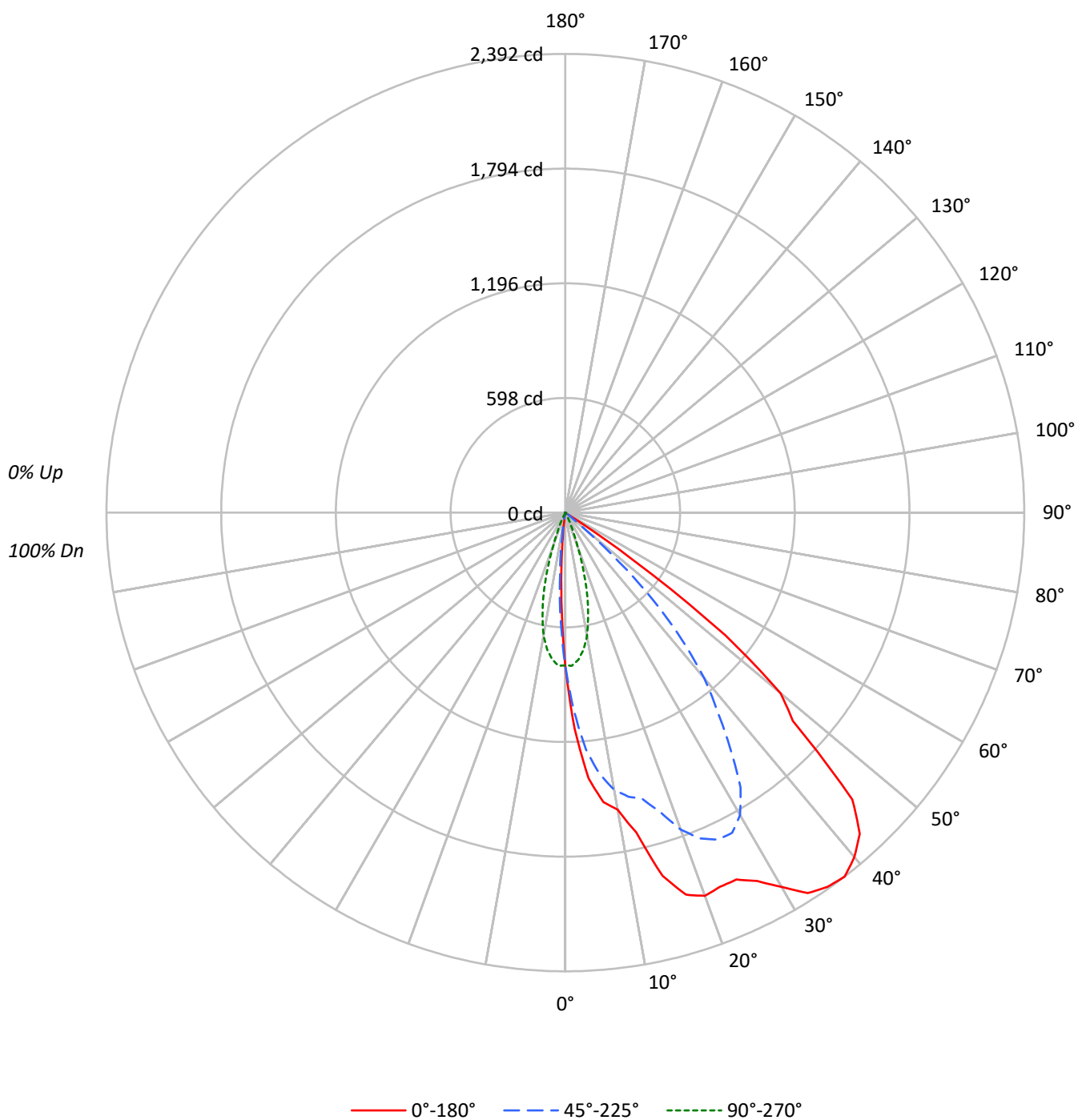
Lumens per Lamp: N/A
Luminaire Lumens: 1474.0 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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

TEST NUMBER: P1310456

CATALOG NUMBER: P3SQAS17R559040DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1310456

CATALOG NUMBER: P3SQAS17R559040DE010 E3SQCA301MB

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	90	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°	137175	137175	137175	137175	137175
5°	240425	214320	133153	55322	31845
10°	275190	256531	113847	6051	2186
15°	349714	275381	78041	1230	749
20°	389699	322162	34273	0	0
25°	401146	357459	9748	0	0
30°	448183	362234	1372	0	0
35°	500909	314527	0	0	0
40°	526912	253193	0	0	0
45°	515177	159921	0	0	0
50°	392278	32661	0	0	0
55°	128512	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: 515177 cd/sqm

TEST NUMBER: P1310456

CATALOG NUMBER: P3SQAS17R559040DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	4.9
10°-20°	213.3	14.5
20°-30°	346.8	23.5
30°-40°	412.2	28.0
40°-50°	337.1	22.9
50°-60°	89.3	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°	632.9	42.9
0°-40°	1045.1	70.9
0°-60°	1471.5	99.8
0°-90°	1474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1474.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	796	796	796	796	796	
5°	1391	1240	770	320	184	136
15°	1961	1544	438	7	4	548
25°	2111	1881	51	0	0	994
35°	2382	1496	0	0	0	1481
45°	2115	657	0	0	0	1518
55°	428	0	0	0	0	481
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	

TEST NUMBER: P1310456

CATALOG NUMBER: P3SQAS17R559040DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	796.5	796.5	796.5	796.5	796.5	796.5	796.5	796.5	796.5	796.5	796.5
2.5°	1130.3	1122.0	1123.4	1119.2	1123.4	1105.4	1086.0	1068.0	1054.1	1034.7	917.0
5°	1390.7	1376.9	1372.7	1367.2	1361.6	1339.5	1321.5	1299.3	1273.0	1239.7	1023.7
7.5°	1522.3	1511.2	1505.7	1508.5	1496.0	1487.7	1464.1	1439.2	1411.5	1375.5	1104.0
10°	1573.6	1562.5	1561.1	1559.7	1558.3	1552.8	1541.7	1519.6	1494.6	1466.9	1149.7
12.5°	1707.9	1683.0	1666.4	1647.0	1623.4	1593.0	1568.0	1548.6	1538.9	1516.8	1170.5
15°	1961.4	1937.9	1919.9	1894.9	1850.6	1785.5	1725.9	1649.8	1583.3	1544.5	1162.2
17.5°	2088.9	2077.8	2062.6	2045.9	2015.5	1968.4	1907.4	1827.1	1742.6	1633.1	1122.0
20°	2126.3	2120.7	2109.6	2102.7	2081.9	2048.7	2007.1	1944.8	1865.9	1757.8	1059.7
22.5°	2111.0	2115.2	2120.7	2138.7	2141.5	2118.0	2079.2	2019.6	1939.3	1839.5	964.1
25°	2111.0	2108.3	2108.3	2145.7	2169.2	2158.1	2130.4	2076.4	1994.7	1881.1	846.4
27.5°	2165.1	2148.4	2113.8	2152.6	2191.4	2187.2	2162.3	2098.6	2007.1	1882.5	702.3
30°	2253.7	2217.7	2160.9	2196.9	2232.9	2217.7	2177.5	2095.8	1979.4	1821.5	526.4
32.5°	2352.1	2335.4	2306.3	2329.9	2324.4	2263.4	2191.4	2077.8	1922.6	1699.6	354.6
35°	2382.5	2385.3	2365.9	2361.8	2329.9	2267.6	2191.4	2026.5	1803.5	1496.0	210.5
37.5°	2392.2	2393.6	2363.1	2324.4	2277.3	2203.8	2112.4	1921.3	1583.3	1299.3	112.2
40°	2343.7	2342.4	2292.5	2245.4	2192.8	2120.7	1987.8	1699.6	1374.1	1126.2	40.2
42.5°	2271.7	2253.7	2206.6	2148.4	2084.7	1994.7	1786.9	1435.1	1194.0	901.8	2.8
45°	2115.2	2098.6	2061.2	1998.8	1928.2	1800.7	1472.5	1232.8	971.0	656.6	0.0
47.5°	1608.2	1599.9	1638.7	1647.0	1645.6	1500.2	1228.7	1005.6	713.4	382.3	0.0
50°	1464.1	1453.1	1414.3	1364.4	1275.8	1153.9	984.9	745.2	418.3	121.9	0.0
52.5°	1051.4	1087.4	1095.7	1058.3	975.2	854.7	678.7	429.4	145.4	0.0	0.0
55°	428.0	405.9	422.5	443.3	459.9	422.5	313.1	152.4	1.4	0.0	0.0
57.5°	0.0	1.4	8.3	19.4	31.9	40.2	42.9	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



TEST NUMBER: P1310456

CATALOG NUMBER: P3SQAS17R559040DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	796.5	796.5	796.5	796.5	796.5
2.5°	799.3	676.0	556.8	491.7	459.9
5°	770.2	516.7	320.0	221.6	184.2
7.5°	721.7	354.6	127.4	52.6	37.4
10°	651.0	203.6	34.6	13.9	12.5
12.5°	549.9	92.8	12.5	9.7	9.7
15°	437.7	31.9	6.9	5.5	4.2
17.5°	307.5	8.3	2.8	0.0	0.0
20°	187.0	1.4	0.0	0.0	0.0
22.5°	103.9	0.0	0.0	0.0	0.0
25°	51.3	0.0	0.0	0.0	0.0
27.5°	22.2	0.0	0.0	0.0	0.0
30°	6.9	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)