

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: P1308537

Luminaire Tested: P3SQAS24R709030D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R709030D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

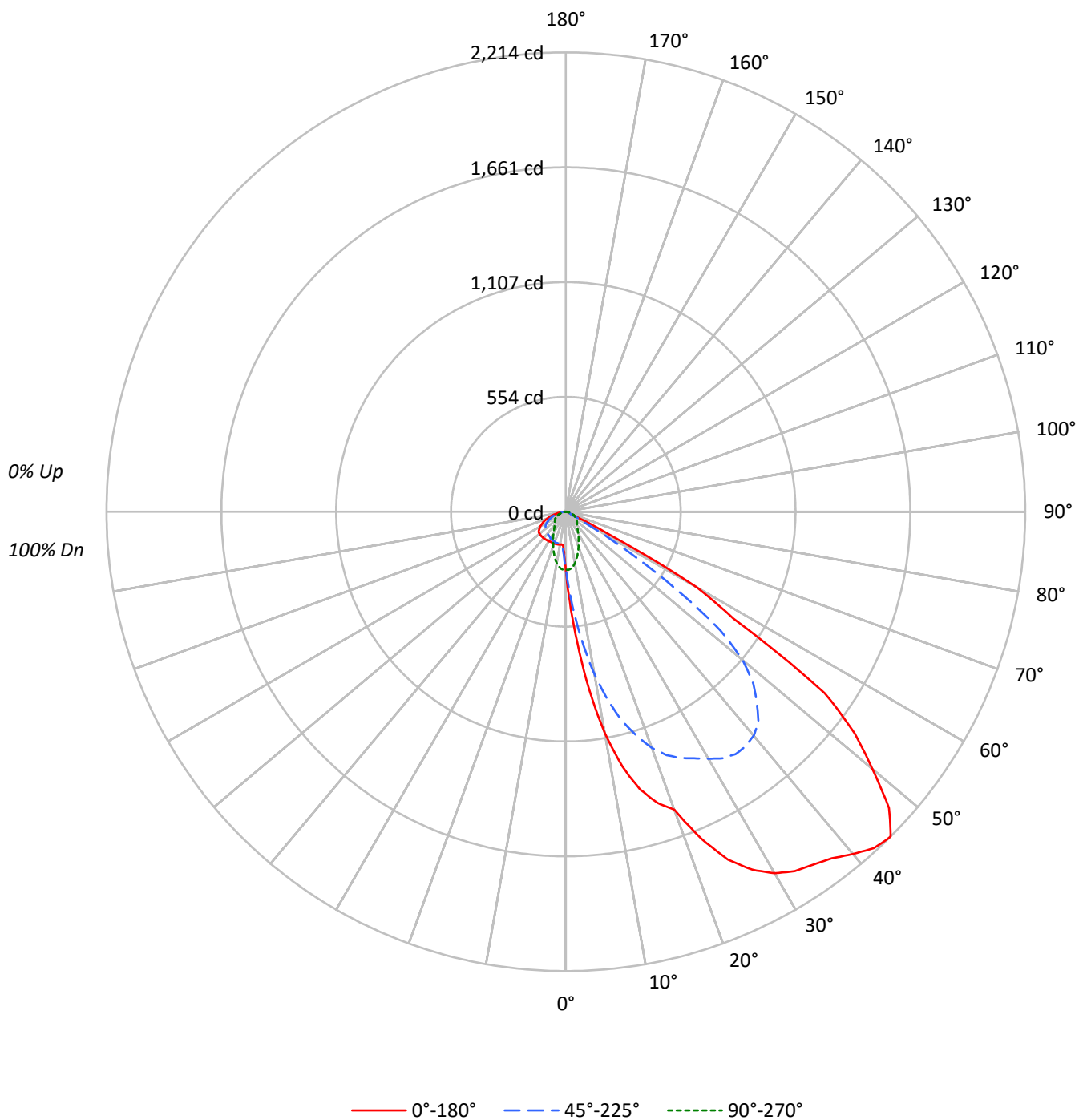
Lumens per Lamp: N/A
Luminaire Lumens: 1913.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1308537

CATALOG NUMBER: P3SQAS24R709030D010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1308537

CATALOG NUMBER: P3SQAS24R709030D010 E3SQCA451MB

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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	47998	47998	47998	47998	47998
5°	109209	87443	47508	30029	28041
10°	189255	138854	44052	27369	28033
15°	247050	185466	38459	27904	28920
20°	279843	221782	32880	28334	30076
25°	351435	248802	27573	28656	30822
30°	400058	273281	23526	29233	32634
35°	436595	299746	20457	29687	34501
40°	484016	316660	18885	30890	37320
45°	539241	317042	18584	32540	40431
50°	516490	298127	18407	34268	43967
55°	457328	193128	18916	36091	47561
60°	250481	41402	19048	36821	49290
65°	17890	10106	18664	36554	49798
70°	8661	9618	17322	34594	48038
75°	7652	10181	16502	33005	44450
80°	7538	9422	15174	30250	41655
85°	7509	11263	15018	26479	37742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 539241 cd/sqm

TEST NUMBER: P1308537

CATALOG NUMBER: P3SQAS24R709030D010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	1.9
10°-20°	155.5	8.1
20°-30°	298.3	15.6
30°-40°	421.8	22.0
40°-50°	477.1	24.9
50°-60°	377.9	19.8
60°-70°	101.9	5.3
70°-80°	33.8	1.8
80°-90°	10.3	0.5
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°	490.1	25.6
0°-40°	911.9	47.7
0°-60°	1766.9	92.4
0°-90°	1913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1913.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	279	279	279	279	279	
5°	632	506	275	174	162	75
15°	1386	1040	216	156	162	390
25°	1849	1309	145	151	162	848
35°	2077	1426	97	141	164	1308
45°	2214	1302	76	134	166	1656
55°	1523	643	63	120	158	1236
65°	44	25	46	90	122	158
75°	12	15	25	50	67	12
85°	4	6	8	13	19	4
90°	0	0	0	0	0	

TEST NUMBER: P1308537

CATALOG NUMBER: P3SQAS24R709030D010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	278.7	278.7	278.7	278.7	278.7	278.7	278.7	278.7	278.7	278.7	278.7
2.5°	433.3	433.3	431.3	423.7	419.9	410.3	402.7	381.7	330.2	280.6	240.5
5°	631.7	641.3	627.9	626.0	614.6	597.4	585.9	505.8	381.7	274.8	206.1
7.5°	866.5	870.3	866.5	847.4	830.2	801.6	774.9	648.9	433.3	265.3	181.3
10°	1082.2	1076.5	1065.0	1051.6	1026.8	996.3	950.5	794.0	482.9	251.9	166.0
12.5°	1257.8	1255.9	1242.5	1229.1	1198.6	1158.5	1112.7	925.7	524.9	234.8	158.4
15°	1385.6	1385.6	1372.3	1357.0	1328.4	1295.9	1244.4	1040.2	559.2	215.7	150.8
17.5°	1471.5	1467.7	1458.2	1446.7	1423.8	1391.4	1351.3	1131.8	582.1	196.6	148.9
20°	1526.9	1525.0	1517.3	1500.2	1481.1	1456.3	1420.0	1210.1	591.7	179.4	147.0
22.5°	1704.4	1689.1	1660.5	1624.2	1578.4	1519.2	1469.6	1269.2	587.8	160.3	143.1
25°	1849.4	1843.7	1813.2	1769.3	1708.2	1631.9	1549.8	1309.3	568.8	145.1	139.3
27.5°	1944.9	1935.3	1906.7	1859.0	1794.1	1719.7	1643.3	1339.8	542.0	131.7	133.6
30°	2011.7	2005.9	1977.3	1923.9	1857.1	1775.0	1696.7	1374.2	505.8	118.3	127.9
32.5°	2053.7	2047.9	2019.3	1971.6	1906.7	1820.8	1731.1	1408.5	461.9	106.9	122.2
35°	2076.6	2070.8	2038.4	1996.4	1935.3	1851.3	1755.9	1425.7	408.4	97.3	116.4
37.5°	2105.2	2093.7	2049.8	1998.3	1937.2	1859.0	1763.5	1423.8	355.0	89.7	112.6
40°	2152.9	2122.4	2059.4	1990.7	1927.7	1849.4	1757.8	1408.5	295.8	84.0	108.8
42.5°	2198.7	2154.8	2061.3	1979.2	1908.6	1832.3	1736.8	1374.2	230.9	80.2	106.9
45°	2214.0	2149.1	2034.6	1952.5	1885.7	1807.4	1708.2	1301.7	156.5	76.3	103.1
47.5°	2112.8	2065.1	1969.7	1908.6	1845.6	1769.3	1666.2	1225.3	89.7	72.5	99.2
50°	1927.7	1897.2	1843.7	1805.5	1771.2	1717.7	1616.6	1112.7	53.4	68.7	95.4
52.5°	1755.9	1746.4	1708.2	1677.7	1658.6	1633.8	1542.2	939.0	43.9	66.8	91.6
55°	1523.1	1492.5	1483.0	1471.5	1511.6	1509.7	1385.6	643.2	42.0	63.0	87.8
57.5°	956.2	969.6	1019.2	1110.8	1219.6	1282.6	1278.8	343.5	40.1	59.2	82.1
60°	727.2	725.3	740.5	778.7	858.9	948.6	1032.6	120.2	38.2	55.3	78.3
62.5°	217.6	223.3	269.1	395.1	473.3	584.0	532.5	28.6	36.3	49.6	70.6
65°	43.9	45.8	45.8	51.5	63.0	95.4	116.4	24.8	34.4	45.8	64.9
67.5°	19.1	19.1	19.1	21.0	21.0	24.8	21.0	22.9	30.5	40.1	57.3
70°	17.2	17.2	17.2	17.2	17.2	17.2	19.1	19.1	26.7	34.4	49.6
72.5°	13.4	13.4	13.4	15.3	15.3	15.3	15.3	17.2	22.9	28.6	42.0
75°	11.5	11.5	11.5	11.5	13.4	13.4	13.4	15.3	19.1	24.8	34.4
77.5°	9.5	9.5	9.5	9.5	9.5	11.5	11.5	11.5	15.3	19.1	28.6
80°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	9.5	11.5	15.3	21.0
82.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.6	9.5	11.5	15.3
85°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.7	5.7	7.6	9.5
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	3.8	5.7
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: P1308537

CATALOG NUMBER: P3SQAS24R709030D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	278.7	278.7	278.7
2.5°	211.9	200.4	194.7
5°	173.7	164.1	162.2
7.5°	160.3	158.4	158.4
10°	156.5	158.4	160.3
12.5°	156.5	160.3	162.2
15°	156.5	160.3	162.2
17.5°	156.5	160.3	162.2
20°	154.6	160.3	164.1
22.5°	152.7	160.3	162.2
25°	150.8	160.3	162.2
27.5°	148.9	158.4	162.2
30°	147.0	158.4	164.1
32.5°	143.1	158.4	164.1
35°	141.2	158.4	164.1
37.5°	139.3	158.4	166.0
40°	137.4	158.4	166.0
42.5°	135.5	158.4	166.0
45°	133.6	156.5	166.0
47.5°	129.8	156.5	166.0
50°	127.9	154.6	164.1
52.5°	124.1	152.7	164.1
55°	120.2	148.9	158.4
57.5°	114.5	143.1	150.8
60°	106.9	135.5	143.1
62.5°	97.3	126.0	131.7
65°	89.7	114.5	122.2
67.5°	78.3	101.2	108.8
70°	68.7	87.8	95.4
72.5°	59.2	74.4	82.1
75°	49.6	61.1	66.8
77.5°	38.2	49.6	53.4
80°	30.5	38.2	42.0
82.5°	21.0	26.7	28.6
85°	13.4	17.2	19.1
87.5°	5.7	7.6	7.6
90°	0.0	0.0	0.0

(END OF REPORT)