

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: P1308832

Luminaire Tested: P3SQAS05R409035DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R409035DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

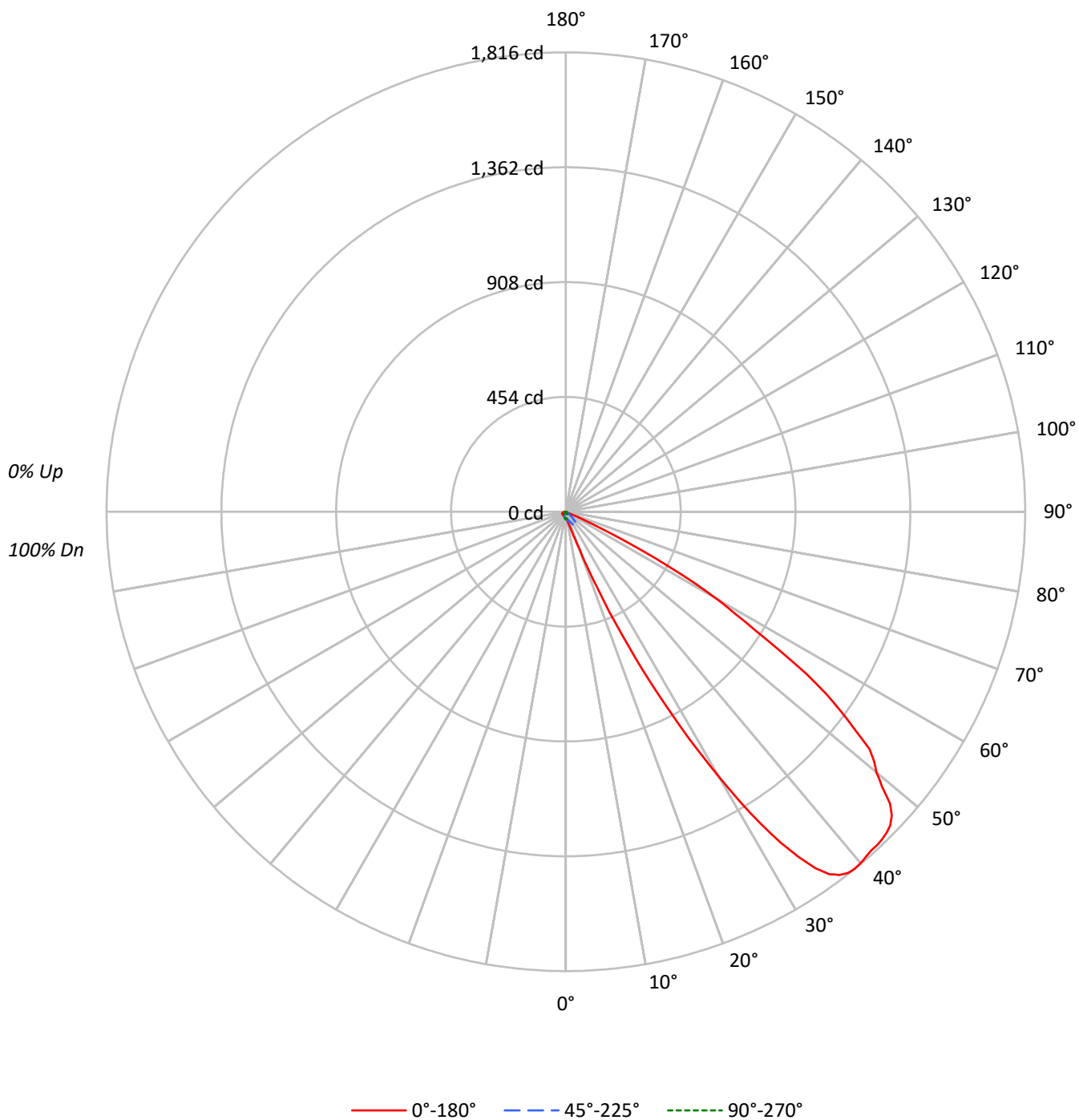
Lumens per Lamp: N/A
Luminaire Lumens: 561.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1308832

CATALOG NUMBER: P3SQAS05R409035DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1308832

CATALOG NUMBER: P3SQAS05R409035DE010 E3SQCA451MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94		96	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	62	60
4	82	70	62	55	80	69	61	54	67	59	54		64	58	53		62	57	52	50
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	68	54	45	38	66	53	44	38	51	43	38		50	43	37		48	42	37	35
7	62	48	39	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	57	42	33	27	55	42	33	27	40	32	27		39	32	27		38	31	26	24
9	52	38	29	23	51	37	29	23	36	28	23		35	28	23		34	27	23	21
10	48	34	25	20	47	33	25	20	32	25	20		31	24	20		30	24	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4977	4977	4977	4977	4977
5°	5515	5342	4893	4460	4357
10°	6663	5684	4512	4057	3970
15°	10930	6151	3851	3584	3673
20°	28903	7276	3207	3207	3501
25°	111413	9007	2546	2945	3420
30°	240369	11992	2048	2864	3381
35°	361790	14192	1724	2817	3469
40°	407600	14254	1506	2900	3710
45°	437043	11033	1388	3020	4019
50°	429574	6913	1232	3162	4421
55°	377909	3393	1231	3543	4954
60°	239217	723	1412	3892	5511
65°	48902	204	1467	4197	6072
70°	1057	252	1561	4683	6999
75°	998	665	1730	5124	7852
80°	992	496	2083	5653	9224
85°	988	988	4150	6126	10275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 444952 cd/sqm

TEST NUMBER: P1308832

CATALOG NUMBER: P3SQAS05R409035DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.5
10°-20°	8.9	1.6
20°-30°	43.6	7.8
30°-40°	141.7	25.3
40°-50°	195.4	34.8
50°-60°	136.1	24.3
60°-70°	25.8	4.6
70°-80°	4.7	0.8
80°-90°	2.1	0.4
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°	55.2	9.8
0°-40°	196.9	35.1
0°-60°	528.4	94.2
0°-90°	561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	561.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	32	31	28	26	25	3
15°	61	34	22	20	21	22
25°	586	47	13	16	18	302
35°	1721	68	8	13	16	1040
45°	1794	45	6	12	16	1365
55°	1259	11	4	12	16	1076
65°	120	0	4	10	15	212
75°	2	1	3	8	12	1
85°	0	0	2	3	5	0
90°	0	0	0	0	0	

TEST NUMBER: P1308832

CATALOG NUMBER: P3SQAS05R409035DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
2.5°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.4	28.9
5°	31.9	31.9	31.9	31.9	31.4	31.4	31.4	30.9	30.9	29.9	28.3
7.5°	34.0	34.0	34.0	34.0	33.5	33.0	32.5	32.5	31.9	29.4	27.3
10°	38.1	38.1	37.6	37.1	36.6	35.5	35.0	34.0	32.5	28.9	25.8
12.5°	46.4	45.3	44.8	43.8	42.2	40.2	38.1	36.6	33.0	27.8	24.2
15°	61.3	60.3	58.2	55.1	52.0	47.9	44.3	40.7	34.5	26.3	21.6
17.5°	87.6	84.5	81.4	76.2	68.5	61.3	53.6	46.9	36.6	24.7	19.6
20°	157.7	155.6	137.0	122.6	99.4	82.9	67.5	56.2	39.7	23.2	17.5
22.5°	325.1	303.5	273.1	223.6	174.1	128.3	93.3	70.6	42.8	21.1	15.5
25°	586.3	552.3	486.9	391.6	289.0	204.5	135.0	92.2	47.4	19.1	13.4
27.5°	887.7	853.2	751.7	620.3	452.9	308.6	192.7	122.1	53.6	17.0	11.8
30°	1208.7	1179.3	1050.5	868.6	638.3	432.3	258.1	152.5	60.3	14.9	10.3
31°	1338.0	1300.4	1161.3	967.5	725.4	483.3	284.4	165.4	62.9	14.4	9.8
32°	1457.0	1414.2	1270.0	1062.3	796.0	538.4	313.2	176.7	64.9	13.4	9.3
33°	1559.5	1509.5	1370.4	1152.0	873.8	589.9	343.1	187.5	66.5	12.4	8.8
34°	1646.6	1603.3	1453.9	1242.1	942.8	639.4	372.5	198.4	67.5	11.8	8.2
35°	1720.8	1681.6	1533.8	1310.7	1010.3	687.3	399.3	208.7	67.5	10.8	8.2
36°	1770.7	1736.7	1602.8	1380.7	1067.0	728.0	421.9	217.9	67.5	9.8	7.7
37°	1798.0	1765.1	1648.1	1438.4	1122.6	768.2	442.6	225.1	67.0	9.3	7.2
38°	1812.0	1783.1	1681.6	1485.3	1161.3	797.0	460.6	230.8	66.5	8.2	7.2
39°	1815.6	1791.4	1702.7	1519.3	1198.9	825.9	473.5	233.9	64.9	7.7	6.7
40°	1813.0	1791.9	1714.1	1549.7	1227.7	848.5	482.7	234.9	63.4	6.7	6.7
41°	1807.8	1791.4	1722.3	1570.8	1250.9	863.0	486.3	232.9	61.3	5.7	6.2
42°	1803.2	1785.2	1725.9	1585.3	1266.9	870.2	485.8	228.7	58.2	5.2	6.2
43°	1803.2	1782.6	1726.4	1594.5	1274.6	870.7	479.7	221.0	54.1	4.6	5.7
44°	1800.1	1781.0	1729.0	1600.7	1276.7	866.1	469.9	212.8	49.5	4.1	5.7
45°	1794.4	1774.4	1728.5	1601.2	1273.1	854.7	453.9	202.0	45.3	3.1	5.7
46°	1783.6	1765.6	1723.9	1597.6	1262.2	838.2	434.8	191.1	40.7	2.6	5.2
47°	1762.0	1748.1	1711.5	1585.3	1245.8	814.0	412.2	178.8	37.1	2.1	5.2
48°	1724.9	1715.1	1690.4	1558.0	1214.3	784.1	387.9	165.4	33.5	2.1	5.2
49°	1656.9	1649.2	1634.7	1514.2	1174.1	747.6	361.7	150.4	29.9	1.5	5.2
50°	1603.3	1595.1	1565.7	1440.5	1116.4	701.2	332.8	135.5	25.8	1.0	4.6
51°	1567.8	1554.4	1508.0	1355.0	1032.5	639.4	301.4	120.6	21.6	1.0	4.6
52°	1522.9	1502.8	1445.1	1278.2	955.7	577.5	267.4	105.6	19.1	1.0	4.6
53°	1429.2	1422.0	1364.8	1195.8	878.9	518.3	232.4	93.3	16.5	1.0	4.6
54°	1347.2	1336.4	1258.6	1081.4	795.5	452.3	196.3	82.4	13.9	1.0	4.6
55°	1258.6	1237.5	1168.5	985.1	697.6	391.6	161.8	71.1	11.3	1.0	4.1
56°	1146.8	1128.3	1054.1	882.0	607.4	329.7	135.5	58.2	8.8	1.0	4.1
57°	1010.8	993.8	936.6	755.3	513.7	269.4	110.3	46.9	6.7	1.0	4.1
58°	879.4	860.4	795.0	633.7	414.7	213.8	92.2	38.1	5.2	1.0	4.1
59°	778.5	752.7	668.2	532.2	324.6	162.3	73.2	30.4	3.6	1.0	4.1
60°	694.5	673.4	585.8	443.1	254.5	119.5	54.1	23.2	2.1	1.0	4.1
62.5°	402.4	396.7	317.9	228.2	120.0	55.6	26.8	10.8	1.0	1.5	4.1
65°	120.0	104.6	81.4	48.4	30.9	18.5	9.8	3.6	0.5	1.5	3.6



TEST NUMBER: P1308832

CATALOG NUMBER: P3SQAS05R409035DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	3.6	3.6	3.6	3.6	3.6	3.6	2.1	1.0	0.5	1.5	3.6
70°	2.1	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	1.5	3.1
72.5°	1.5	1.5	1.5	1.5	1.0	1.0	1.0	0.5	1.0	1.5	2.6
75°	1.5	1.0	1.0	1.0	1.0	0.5	0.5	0.5	1.0	1.5	2.6
77.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.5	2.6
80°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.1
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.1
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	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

TEST NUMBER: P1308832

CATALOG NUMBER: P3SQAS05R409035DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	28.9	28.9	28.9	28.9
2.5°	27.8	27.3	26.8	26.8
5°	26.8	25.8	25.8	25.2
7.5°	25.2	24.2	24.2	24.2
10°	23.7	23.2	23.2	22.7
12.5°	21.6	21.6	21.6	21.6
15°	20.1	20.1	20.6	20.6
17.5°	18.0	18.5	19.6	20.1
20°	16.5	17.5	18.5	19.1
22.5°	15.5	16.5	18.0	18.5
25°	13.9	15.5	17.5	18.0
27.5°	12.9	14.9	16.5	17.5
30°	11.8	14.4	16.0	17.0
31°	11.8	13.9	16.0	17.0
32°	11.3	13.4	16.0	16.5
33°	11.3	13.4	16.0	16.5
34°	10.8	13.4	15.5	16.5
35°	10.8	13.4	15.5	16.5
36°	10.3	12.9	15.5	16.5
37°	10.3	12.9	15.5	16.5
38°	9.8	12.9	15.5	16.5
39°	9.8	12.9	15.5	16.5
40°	9.8	12.9	15.5	16.5
41°	9.3	12.9	15.5	16.5
42°	9.3	12.9	15.5	16.5
43°	9.3	12.4	15.5	16.5
44°	9.3	12.4	15.5	16.5
45°	8.8	12.4	15.5	16.5
46°	8.8	12.4	15.5	16.5
47°	8.8	12.4	15.5	16.5
48°	8.8	12.4	15.5	16.5
49°	8.8	12.4	15.5	16.5
50°	8.2	11.8	15.5	16.5
51°	8.2	11.8	15.5	16.5
52°	8.2	11.8	15.5	16.5
53°	8.2	11.8	15.5	16.5
54°	7.7	11.8	15.5	16.5
55°	7.7	11.8	15.5	16.5
56°	7.7	11.8	15.5	16.0
57°	7.7	11.8	14.9	16.0
58°	7.7	11.3	14.9	16.0
59°	7.7	11.3	14.9	16.0
60°	7.7	11.3	14.9	16.0
62.5°	7.2	11.3	14.4	15.5
65°	6.7	10.3	14.4	14.9



TEST NUMBER: P1308832

CATALOG NUMBER: P3SQAS05R409035DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	6.7	9.8	13.4	14.4
70°	6.2	9.3	12.9	13.9
72.5°	5.2	8.8	11.8	12.9
75°	4.6	7.7	10.8	11.8
77.5°	4.1	6.7	9.8	10.3
80°	3.6	5.7	8.2	9.3
82.5°	2.6	4.1	6.7	7.2
85°	2.1	3.1	4.6	5.2
87.5°	1.5	1.5	2.6	2.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)