

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: P1313794

Luminaire Tested: P3SQAS20R709730D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313794
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: P3SQAS20R709730D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

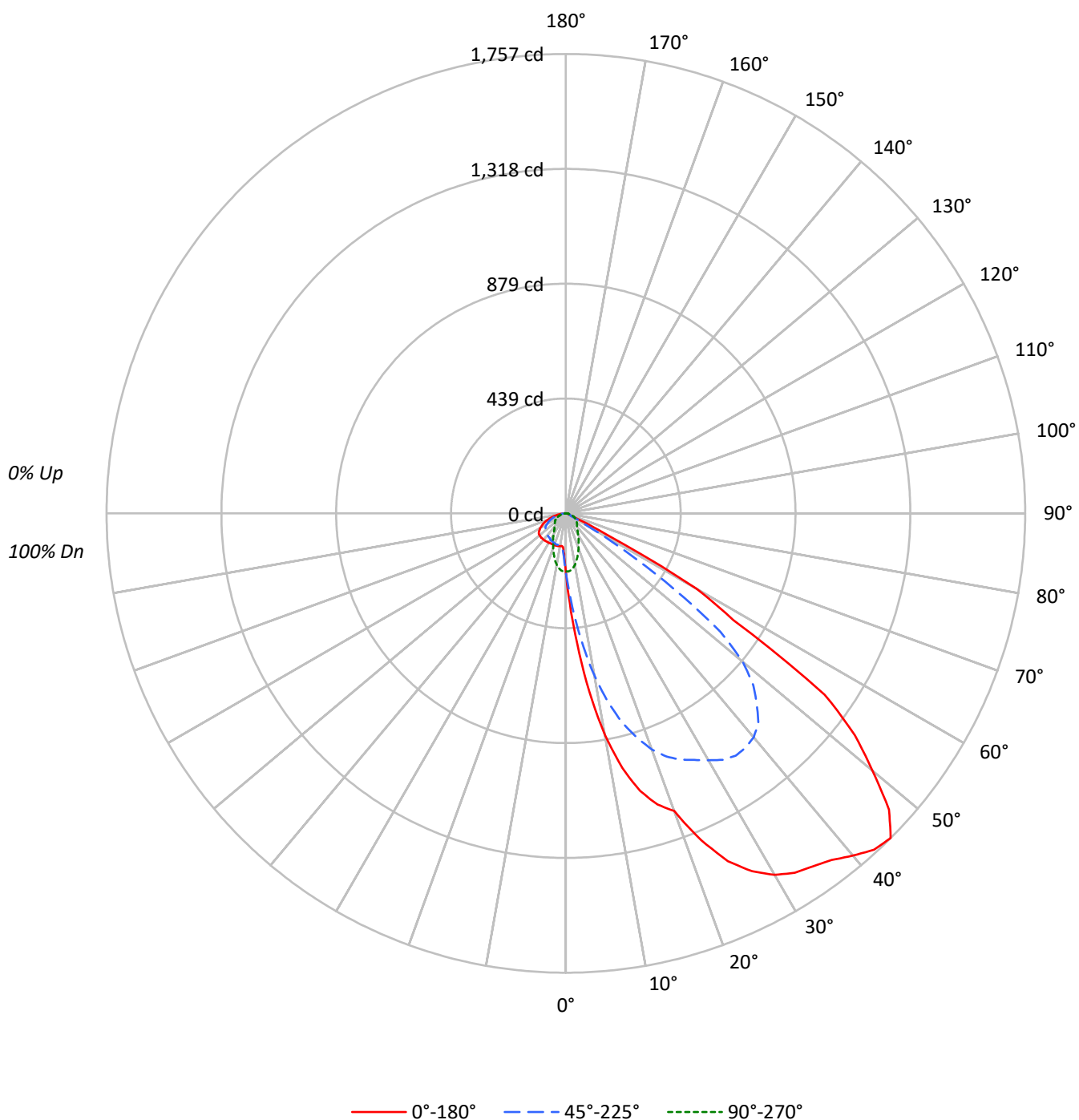
Lumens per Lamp: N/A
Luminaire Lumens: 1518.0 lumens
Efficiency: N/A
Efficacy: 52.7 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1313794

CATALOG NUMBER: P3SQAS20R709730D010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1313794

CATALOG NUMBER: P3SQAS20R709730D010 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°	38078	38078	38078	38078	38078
5°	86665	69377	37705	23823	22250
10°	150169	110174	34958	21720	22245
15°	196039	147167	30507	22145	22947
20°	222057	175981	26098	22488	23862
25°	278883	197438	21872	22727	24456
30°	317449	216843	18673	23188	25892
35°	346442	237850	16231	23568	27374
40°	384084	251282	14973	24505	29631
45°	427885	251573	14760	25817	32101
50°	409854	236583	14602	27195	34885
55°	362895	153253	15013	28645	37743
60°	198745	32860	15121	29209	39129
65°	14181	8028	14793	29015	39488
70°	6848	7604	13747	27443	38118
75°	6055	8052	13109	26217	35267
80°	6050	7538	12001	24001	33027
85°	5928	8892	12054	20946	29838

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 427885 cd/sqm

TEST NUMBER: P1313794

CATALOG NUMBER: P3SQAS20R709730D010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	1.9
10°-20°	123.4	8.1
20°-30°	236.7	15.6
30°-40°	334.7	22.0
40°-50°	378.6	24.9
50°-60°	299.9	19.8
60°-70°	80.8	5.3
70°-80°	26.8	1.8
80°-90°	8.2	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°	388.9	25.6
0°-40°	723.6	47.7
0°-60°	1402.1	92.4
0°-90°	1518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1518.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	221	221	221	221	221	
5°	501	401	218	138	129	59
15°	1100	825	171	124	129	310
25°	1468	1039	115	120	129	673
35°	1648	1131	77	112	130	1038
45°	1757	1033	61	106	132	1314
55°	1209	510	50	95	126	981
65°	35	20	36	71	97	126
75°	9	12	20	39	53	10
85°	3	4	6	11	15	3
90°	0	0	0	0	0	

TEST NUMBER: P1313794

CATALOG NUMBER: P3SQAS20R709730D010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1
2.5°	343.8	343.8	342.3	336.2	333.2	325.6	319.6	302.9	262.0	222.6	190.8
5°	501.3	508.9	498.3	496.8	487.7	474.0	465.0	401.3	302.9	218.1	163.6
7.5°	687.6	690.6	687.6	672.4	658.8	636.1	614.9	514.9	343.8	210.5	143.9
10°	858.7	854.2	845.1	834.5	814.8	790.6	754.2	630.0	383.2	199.9	131.8
12.5°	998.1	996.5	985.9	975.3	951.1	919.3	883.0	734.5	416.5	186.3	125.7
15°	1099.5	1099.5	1088.9	1076.8	1054.1	1028.4	987.5	825.4	443.8	171.1	119.6
17.5°	1167.7	1164.7	1157.1	1148.0	1129.8	1104.1	1072.3	898.1	461.9	156.0	118.1
20°	1211.6	1210.1	1204.0	1190.4	1175.3	1155.6	1126.8	960.2	469.5	142.4	116.6
22.5°	1352.5	1340.3	1317.6	1288.8	1252.5	1205.6	1166.2	1007.1	466.5	127.2	113.6
25°	1467.6	1463.0	1438.8	1404.0	1355.5	1294.9	1229.8	1039.0	451.3	115.1	110.6
27.5°	1543.3	1535.7	1513.0	1475.1	1423.6	1364.6	1304.0	1063.2	430.1	104.5	106.0
30°	1596.3	1591.8	1569.0	1526.6	1473.6	1408.5	1346.4	1090.4	401.3	93.9	101.5
32.5°	1629.6	1625.1	1602.4	1564.5	1513.0	1444.8	1373.7	1117.7	366.5	84.8	96.9
35°	1647.8	1643.2	1617.5	1584.2	1535.7	1469.1	1393.3	1131.3	324.1	77.2	92.4
37.5°	1670.5	1661.4	1626.6	1585.7	1537.2	1475.1	1399.4	1129.8	281.7	71.2	89.4
40°	1708.4	1684.1	1634.2	1579.6	1529.7	1467.6	1394.9	1117.7	234.7	66.6	86.3
42.5°	1744.7	1709.9	1635.7	1570.5	1514.5	1453.9	1378.2	1090.4	183.3	63.6	84.8
45°	1756.8	1705.3	1614.5	1549.3	1496.3	1434.2	1355.5	1032.9	124.2	60.6	81.8
47.5°	1676.6	1638.7	1563.0	1514.5	1464.5	1404.0	1322.2	972.3	71.2	57.6	78.8
50°	1529.7	1505.4	1463.0	1432.7	1405.5	1363.1	1282.8	883.0	42.4	54.5	75.7
52.5°	1393.3	1385.8	1355.5	1331.3	1316.1	1296.4	1223.7	745.1	34.8	53.0	72.7
55°	1208.6	1184.3	1176.8	1167.7	1199.5	1198.0	1099.5	510.4	33.3	50.0	69.7
57.5°	758.8	769.4	808.7	881.4	967.8	1017.8	1014.7	272.6	31.8	46.9	65.1
60°	577.0	575.5	587.6	617.9	681.5	752.7	819.4	95.4	30.3	43.9	62.1
62.5°	172.7	177.2	213.5	313.5	375.6	463.4	422.5	22.7	28.8	39.4	56.0
65°	34.8	36.3	36.3	40.9	50.0	75.7	92.4	19.7	27.3	36.3	51.5
67.5°	15.1	15.1	15.1	16.7	16.7	19.7	16.7	18.2	24.2	31.8	45.4
70°	13.6	13.6	13.6	13.6	13.6	13.6	15.1	15.1	21.2	27.3	39.4
72.5°	10.6	10.6	10.6	12.1	12.1	12.1	12.1	13.6	18.2	22.7	33.3
75°	9.1	9.1	9.1	9.1	10.6	10.6	10.6	12.1	15.1	19.7	27.3
77.5°	7.6	7.6	7.6	7.6	7.6	9.1	9.1	9.1	12.1	15.1	22.7
80°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.6	9.1	12.1	16.7
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.1	7.6	9.1	12.1
85°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	6.1	7.6
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	4.5
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: P1313794

CATALOG NUMBER: P3SQAS20R709730D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	221.1	221.1	221.1
2.5°	168.1	159.0	154.5
5°	137.8	130.2	128.7
7.5°	127.2	125.7	125.7
10°	124.2	125.7	127.2
12.5°	124.2	127.2	128.7
15°	124.2	127.2	128.7
17.5°	124.2	127.2	128.7
20°	122.7	127.2	130.2
22.5°	121.2	127.2	128.7
25°	119.6	127.2	128.7
27.5°	118.1	125.7	128.7
30°	116.6	125.7	130.2
32.5°	113.6	125.7	130.2
35°	112.1	125.7	130.2
37.5°	110.6	125.7	131.8
40°	109.0	125.7	131.8
42.5°	107.5	125.7	131.8
45°	106.0	124.2	131.8
47.5°	103.0	124.2	131.8
50°	101.5	122.7	130.2
52.5°	98.4	121.2	130.2
55°	95.4	118.1	125.7
57.5°	90.9	113.6	119.6
60°	84.8	107.5	113.6
62.5°	77.2	100.0	104.5
65°	71.2	90.9	96.9
67.5°	62.1	80.3	86.3
70°	54.5	69.7	75.7
72.5°	46.9	59.1	65.1
75°	39.4	48.5	53.0
77.5°	30.3	39.4	42.4
80°	24.2	30.3	33.3
82.5°	16.7	21.2	22.7
85°	10.6	13.6	15.1
87.5°	4.5	6.1	6.1
90°	0.0	0.0	0.0

(END OF REPORT)