

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: P1307115

Luminaire Tested: P3SQAS17R609027DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R609027DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

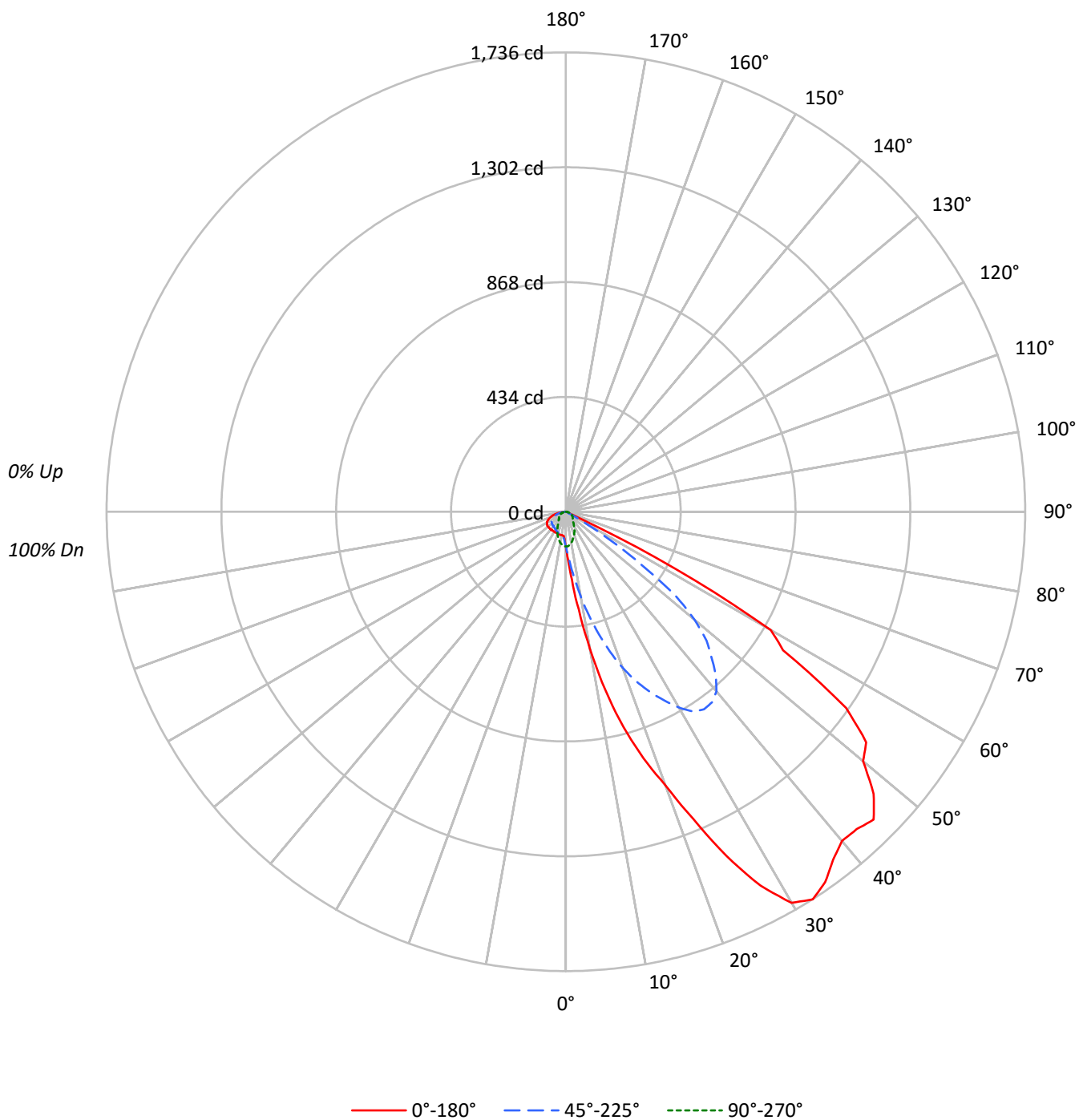
Lumens per Lamp: N/A
Luminaire Lumens: 1322.0 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	31	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	27	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22561	22561	22561	22561	22561
5°	44465	34697	22232	16821	15991
10°	91829	56539	20811	15337	15547
15°	150198	84852	18632	15423	15851
20°	201530	114969	16733	15413	16073
25°	272650	142729	14613	15297	16665
30°	339344	169911	12190	15293	17441
35°	359267	191512	10365	15663	18186
40°	364996	199124	9465	16210	19717
45°	400680	189660	9085	17268	21360
50°	392813	170002	9002	18353	23498
55°	388237	104281	9008	19847	25973
60°	307969	24835	9507	21114	28141
65°	19601	4401	9291	21557	30360
70°	4230	4834	9064	22408	32076
75°	3993	4791	7985	21560	32805
80°	3570	4761	8331	21423	30944
85°	2371	4742	9485	18970	30826

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 422917 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.4	1.2
10°-20°	82.4	6.2
20°-30°	191.2	14.5
30°-40°	297.2	22.5
40°-50°	338.6	25.6
50°-60°	285.2	21.6
60°-70°	82.7	6.3
70°-80°	21.2	1.6
80°-90°	7.2	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°	289.9	21.9
0°-40°	587.1	44.4
0°-60°	1210.9	91.6
0°-90°	1322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1322.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	131	131	131	131	131	
5°	257	201	129	97	92	33
15°	842	476	104	86	89	244
25°	1435	751	77	80	88	666
35°	1709	911	49	74	86	1062
45°	1645	779	37	71	88	1237
55°	1293	347	30	66	86	1088
65°	48	11	23	53	74	238
75°	6	7	12	32	49	6
85°	1	2	5	10	16	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0
2.5°	176.7	175.5	175.5	174.2	173.0	171.8	168.2	167.0	159.8	145.4	131.0
5°	257.2	256.0	252.4	251.2	245.1	236.7	228.3	219.9	200.7	159.8	128.6
7.5°	372.5	374.9	372.5	359.3	350.9	337.7	312.4	294.4	256.0	174.2	123.8
10°	525.1	525.1	521.5	501.1	483.1	457.9	425.4	394.2	323.3	187.5	119.0
12.5°	691.0	694.6	676.6	659.7	627.3	596.1	551.6	504.7	400.2	198.3	113.0
15°	842.4	840.0	822.0	800.3	766.7	723.4	676.6	616.5	475.9	205.5	104.5
17.5°	977.0	972.2	956.6	932.5	891.7	843.6	783.5	718.6	554.0	211.5	98.5
20°	1099.6	1082.7	1064.7	1039.5	999.8	949.4	886.9	813.6	627.3	211.5	91.3
22.5°	1254.6	1237.8	1212.5	1174.1	1121.2	1058.7	985.4	902.5	692.2	206.7	84.1
25°	1434.8	1421.6	1378.4	1329.1	1260.6	1186.1	1100.8	989.0	751.1	199.5	76.9
27.5°	1592.3	1577.9	1534.6	1462.5	1379.6	1290.6	1200.5	1086.4	802.7	186.3	68.5
30°	1706.4	1688.4	1654.8	1586.3	1485.3	1377.2	1270.2	1160.9	854.4	170.6	61.3
32.5°	1736.5	1734.1	1708.8	1658.4	1568.2	1449.3	1321.9	1202.9	895.3	150.2	55.3
35°	1708.8	1712.4	1707.6	1682.4	1616.3	1499.7	1355.5	1225.7	910.9	129.8	49.3
37.5°	1658.4	1663.2	1671.6	1675.2	1633.1	1529.8	1374.8	1235.4	907.3	109.4	45.7
40°	1623.5	1621.1	1621.1	1645.1	1636.7	1543.0	1377.2	1228.2	885.7	87.7	42.1
42.5°	1627.1	1600.7	1582.7	1621.1	1633.1	1537.0	1361.5	1208.9	838.8	67.3	38.5
45°	1645.1	1588.7	1557.4	1606.7	1625.9	1516.6	1332.7	1180.1	778.7	46.9	37.3
47.5°	1577.9	1540.6	1535.8	1605.5	1612.7	1481.7	1288.2	1134.4	721.0	32.4	34.8
50°	1466.1	1460.1	1485.3	1557.4	1558.6	1424.0	1237.8	1051.5	634.5	22.8	33.6
52.5°	1431.2	1434.8	1457.7	1494.9	1460.1	1326.7	1146.4	981.8	525.1	18.0	32.4
55°	1293.0	1299.1	1320.7	1343.5	1318.3	1207.7	1035.9	897.7	347.3	16.8	30.0
57.5°	973.4	989.0	1028.7	1049.1	1051.5	984.2	938.5	773.9	195.9	16.8	28.8
60°	894.1	873.6	855.6	813.6	775.1	766.7	771.5	580.4	72.1	15.6	27.6
62.5°	467.5	457.9	485.5	503.5	508.3	534.8	499.9	306.4	15.6	15.6	25.2
65°	48.1	48.1	58.9	78.1	129.8	173.0	164.6	88.9	10.8	14.4	22.8
67.5°	14.4	14.4	14.4	16.8	21.6	21.6	18.0	13.2	10.8	13.2	20.4
70°	8.4	8.4	8.4	8.4	8.4	8.4	9.6	8.4	9.6	12.0	18.0
72.5°	7.2	7.2	7.2	7.2	8.4	8.4	8.4	8.4	8.4	10.8	15.6
75°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.2	7.2	8.4	12.0
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	6.0	6.0	6.0	7.2	9.6
80°	3.6	3.6	3.6	3.6	3.6	4.8	4.8	4.8	4.8	6.0	8.4
82.5°	2.4	2.4	2.4	2.4	3.6	3.6	3.6	3.6	3.6	4.8	6.0
85°	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	4.8
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.6
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):

	112.5°	135°	157.5°	180°
0°	131.0	131.0	131.0	131.0
2.5°	119.0	110.6	105.8	103.3
5°	108.2	97.3	93.7	92.5
7.5°	98.5	91.3	90.1	90.1
10°	92.5	87.7	88.9	88.9
12.5°	88.9	87.7	88.9	90.1
15°	85.3	86.5	88.9	88.9
17.5°	82.9	85.3	87.7	88.9
20°	79.3	84.1	87.7	87.7
22.5°	76.9	82.9	86.5	87.7
25°	74.5	80.5	85.3	87.7
27.5°	70.9	79.3	85.3	86.5
30°	67.3	76.9	84.1	87.7
32.5°	63.7	75.7	84.1	86.5
35°	61.3	74.5	84.1	86.5
37.5°	58.9	73.3	84.1	87.7
40°	57.7	72.1	82.9	87.7
42.5°	55.3	72.1	82.9	87.7
45°	54.1	70.9	82.9	87.7
47.5°	52.9	69.7	82.9	87.7
50°	50.5	68.5	81.7	87.7
52.5°	49.3	67.3	81.7	87.7
55°	46.9	66.1	80.5	86.5
57.5°	45.7	63.7	79.3	84.1
60°	43.3	61.3	76.9	81.7
62.5°	39.7	57.7	73.3	79.3
65°	36.1	52.9	69.7	74.5
67.5°	32.4	49.3	64.9	69.7
70°	28.8	44.5	58.9	63.7
72.5°	25.2	38.5	52.9	56.5
75°	21.6	32.4	44.5	49.3
77.5°	16.8	26.4	37.3	40.9
80°	13.2	21.6	28.8	31.2
82.5°	10.8	15.6	21.6	22.8
85°	7.2	9.6	13.2	15.6
87.5°	3.6	4.8	6.0	7.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)