

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: P1309359

Luminaire Tested: P3SQAS17R659035DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R659035DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

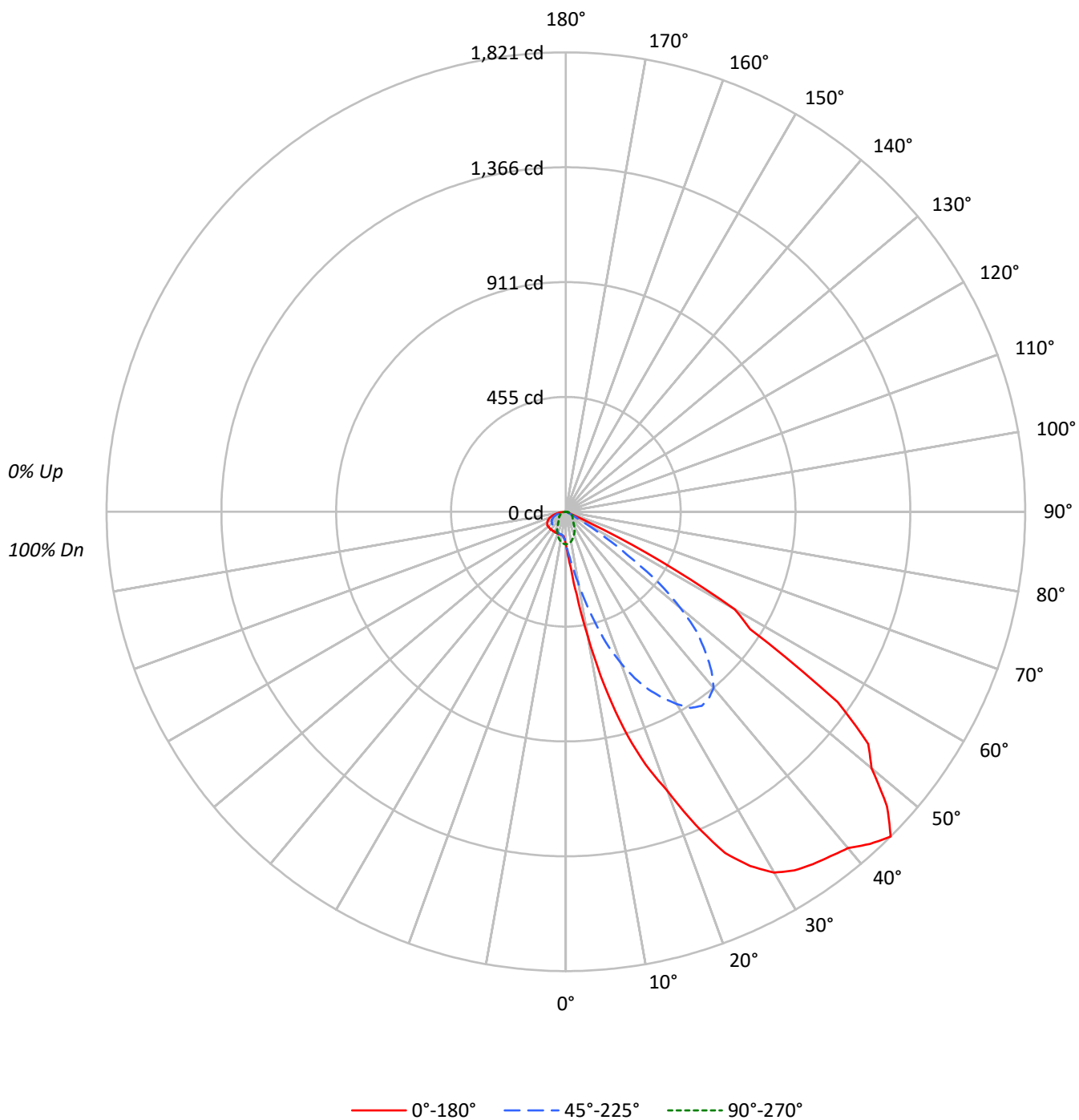
Lumens per Lamp: N/A
Luminaire Lumens: 1321.0 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	108	104	100	97	100	97	94		96	94	91		92	90	89	87
2	101	93	87	82	98	92	86	81	88	83	79		85	81	77		82	79	76	74
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73	68	65	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	57	49	42	69	57	48	42	55	47	42		53	46	41		51	46	41	39
7	65	52	43	37	63	51	42	36	49	42	36		48	41	36		46	40	36	34
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	42	34	28	54	41	33	28	40	33	28		39	33	28		38	32	28	26
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22131	22131	22131	22131	22131
5°	38691	31603	21748	17634	16942
10°	87562	50960	20846	16211	16439
15°	159167	81946	19363	16296	16760
20°	215807	117003	17484	16257	16990
25°	283653	147746	15354	15848	17368
30°	328466	175161	13165	15810	18176
35°	358678	197441	11143	16147	19216
40°	391278	204879	9825	16974	20549
45°	443571	190001	9353	18072	22261
50°	423733	158642	9217	19157	24489
55°	394903	89087	9548	20688	27054
60°	265981	19151	9576	21907	29209
65°	41037	4849	9169	22658	31827
70°	4683	4683	8661	23365	34040
75°	4392	4392	7918	22890	34402
80°	3967	5256	7835	21026	34118
85°	2569	5138	7904	20946	31419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 443571 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.6	1.2
10°-20°	84.0	6.4
20°-30°	197.3	14.9
30°-40°	298.2	22.6
40°-50°	342.7	25.9
50°-60°	272.1	20.6
60°-70°	81.5	6.2
70°-80°	22.1	1.7
80°-90°	7.4	0.6
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°	296.9	22.5
0°-40°	595.1	45.0
0°-60°	1209.9	91.6
0°-90°	1321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1321.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	128	128	128	128	128	
5°	224	183	126	102	98	30
15°	893	460	109	91	94	257
25°	1493	778	81	83	91	681
35°	1706	939	53	77	91	1071
45°	1821	780	38	74	91	1353
55°	1315	297	32	69	90	1084
65°	101	12	22	56	78	226
75°	7	7	12	34	52	7
85°	1	3	4	11	16	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5
2.5°	162.9	164.2	162.9	162.9	161.6	160.3	151.0	140.4	128.5	119.2	112.6
5°	223.8	225.2	221.2	221.2	218.5	214.6	182.8	152.3	125.8	111.3	102.0
7.5°	331.1	336.4	329.8	321.9	307.3	304.6	227.8	164.2	123.2	103.3	95.4
10°	500.7	496.7	490.1	474.2	449.0	437.1	291.4	176.2	119.2	98.0	92.7
12.5°	706.0	695.4	687.4	658.3	623.8	604.0	370.9	186.8	113.9	92.7	91.4
15°	892.7	884.8	866.2	838.4	796.0	780.1	459.6	193.4	108.6	88.7	91.4
17.5°	1050.3	1042.4	1031.8	1004.0	960.3	936.4	558.9	197.4	102.0	86.1	90.1
20°	1177.5	1172.2	1157.6	1135.1	1091.4	1068.9	638.4	197.4	95.4	83.4	88.7
22.5°	1341.7	1329.8	1311.3	1278.2	1223.9	1189.4	713.9	193.4	88.7	80.8	86.1
25°	1492.7	1484.8	1460.9	1421.2	1362.9	1328.5	777.5	185.4	80.8	76.8	83.4
27.5°	1582.8	1577.5	1555.0	1513.9	1449.0	1422.5	830.5	173.5	72.8	72.8	82.1
30°	1651.7	1641.1	1618.6	1578.8	1512.6	1480.8	880.8	158.9	66.2	68.9	79.5
32.5°	1686.1	1682.1	1662.3	1627.8	1562.9	1527.2	921.9	140.4	58.3	66.2	78.1
35°	1706.0	1702.0	1686.1	1653.0	1592.1	1557.6	939.1	123.2	53.0	63.6	76.8
37.5°	1721.9	1717.9	1698.0	1664.9	1604.0	1568.2	931.1	104.6	47.7	60.9	75.5
40°	1740.4	1725.9	1695.4	1662.3	1606.6	1572.2	911.3	87.4	43.7	59.6	75.5
42.5°	1785.5	1735.1	1687.4	1657.0	1604.0	1564.3	854.3	68.9	39.7	57.0	74.2
45°	1821.2	1732.5	1671.5	1647.7	1593.4	1548.4	780.1	50.3	38.4	55.6	74.2
47.5°	1727.2	1672.9	1645.1	1631.8	1573.5	1524.5	703.3	34.4	37.1	54.3	72.8
50°	1581.5	1574.9	1564.3	1565.6	1512.6	1472.9	592.1	23.8	34.4	53.0	71.5
52.5°	1511.3	1503.3	1484.8	1471.5	1418.6	1384.1	468.9	18.5	33.1	51.7	70.2
55°	1315.2	1320.5	1300.7	1308.6	1292.7	1275.5	296.7	17.2	31.8	49.0	68.9
57.5°	866.2	892.7	939.1	994.7	1045.0	1079.5	160.3	17.2	29.1	47.7	66.2
60°	772.2	765.6	764.2	774.8	797.4	815.9	55.6	15.9	27.8	43.7	63.6
62.5°	422.5	419.9	459.6	527.2	566.9	570.9	15.9	15.9	25.2	41.1	59.6
65°	100.7	104.6	116.6	145.7	172.2	189.4	11.9	14.6	22.5	38.4	55.6
67.5°	15.9	17.2	17.2	21.2	23.8	23.8	10.6	13.2	19.9	34.4	51.7
70°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	11.9	17.2	30.5	46.4
72.5°	7.9	7.9	7.9	7.9	7.9	7.9	9.3	10.6	14.6	26.5	39.7
75°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	9.3	11.9	21.2	34.4
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	6.6	7.9	10.6	17.2	27.8
80°	4.0	4.0	4.0	4.0	4.0	4.0	5.3	6.6	7.9	13.2	21.2
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	4.0	5.3	6.6	10.6	15.9
85°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	4.0	4.0	6.6	10.6
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6	4.0	5.3
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):

	157.5°	180°
0°	128.5	128.5
2.5°	108.6	107.3
5°	98.0	98.0
7.5°	94.0	94.0
10°	92.7	94.0
12.5°	92.7	94.0
15°	92.7	94.0
17.5°	92.7	94.0
20°	91.4	92.7
22.5°	90.1	91.4
25°	88.7	91.4
27.5°	87.4	91.4
30°	87.4	91.4
32.5°	87.4	91.4
35°	86.1	91.4
37.5°	86.1	91.4
40°	86.1	91.4
42.5°	86.1	91.4
45°	86.1	91.4
47.5°	86.1	91.4
50°	86.1	91.4
52.5°	84.8	91.4
55°	84.8	90.1
57.5°	82.1	87.4
60°	79.5	84.8
62.5°	76.8	82.1
65°	72.8	78.1
67.5°	68.9	72.8
70°	62.3	67.6
72.5°	55.6	59.6
75°	47.7	51.7
77.5°	39.7	43.7
80°	31.8	34.4
82.5°	22.5	25.2
85°	14.6	15.9
87.5°	6.6	6.6
90°	0.0	0.0

(END OF REPORT)