

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: P1309333

Luminaire Tested: P3SQAS17R509035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R509035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

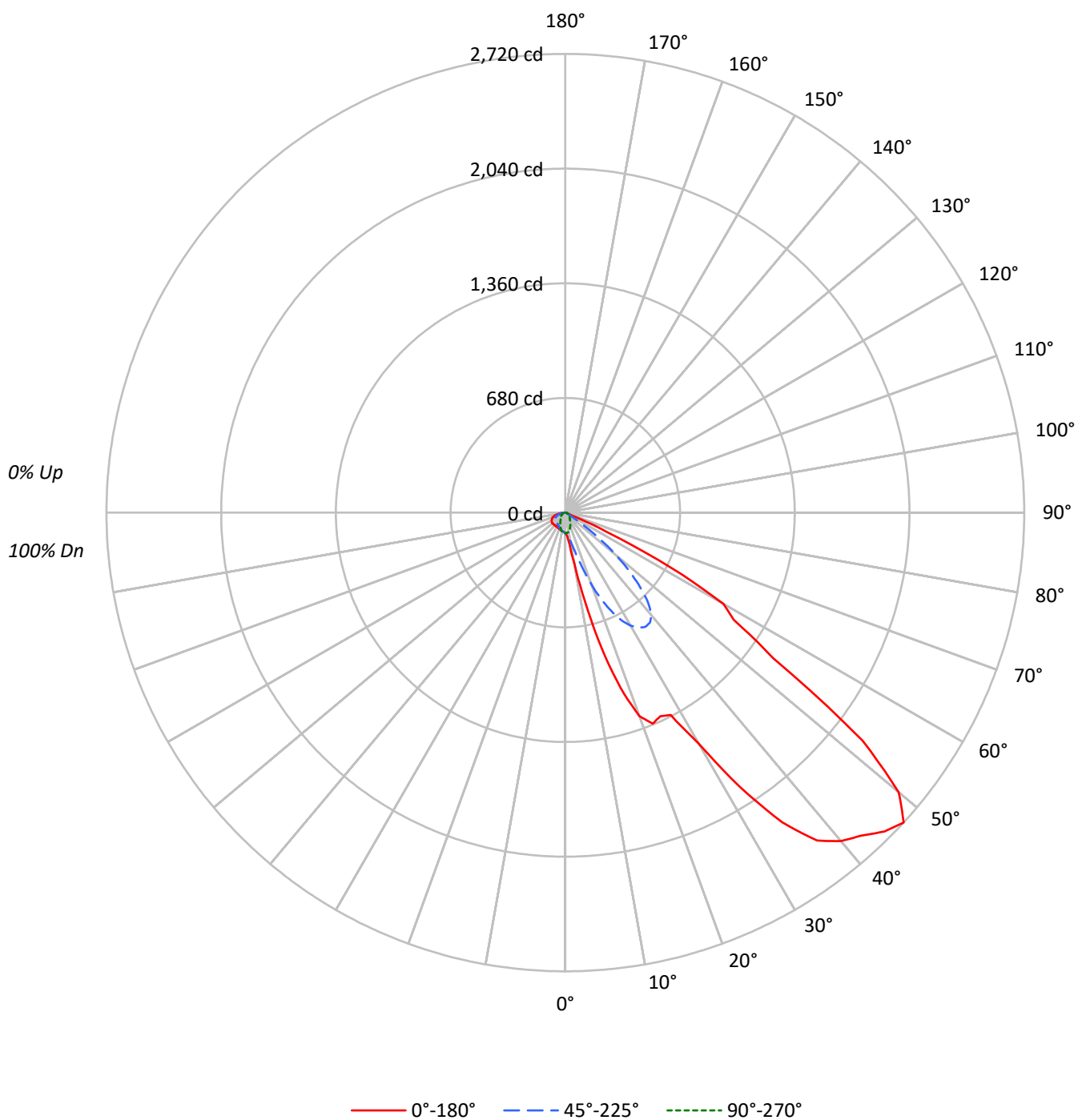
Lumens per Lamp: N/A
Luminaire Lumens: 1533.9 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20994	20994	20994	20994	20994
5°	24964	23356	20849	19933	19691
10°	53758	28960	19919	19237	19464
15°	148825	47481	17955	18418	19131
20°	235307	83299	15542	17723	18694
25°	253039	122358	13340	17121	18889
30°	314088	153624	11594	16864	19489
35°	471348	173831	10029	16988	20604
40°	571629	178732	8925	17581	21740
45°	651230	153296	8719	18705	23869
50°	691181	105779	8869	20229	26632
55°	451533	42577	8738	21889	29426
60°	372414	7302	8680	23732	32412
65°	112311	3790	8110	25388	35617
70°	4683	3978	8006	26033	38672
75°	4392	4392	7918	26417	42321
80°	3967	3967	7835	26282	43341
85°	2569	5138	10473	26084	41892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 693438 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.7	0.8
10°-20°	72.6	4.7
20°-30°	186.7	12.2
30°-40°	335.4	21.9
40°-50°	448.0	29.2
50°-60°	341.2	22.2
60°-70°	103.6	6.8
70°-80°	24.7	1.6
80°-90°	8.9	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°	272.1	17.7
0°-40°	607.5	39.6
0°-60°	1396.7	91.1
0°-90°	1533.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1533.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	122	122	122	122	122	
5°	144	135	121	115	114	19
15°	835	266	101	103	107	246
25°	1332	644	70	90	99	635
35°	2242	827	48	81	98	1376
45°	2674	629	36	77	98	2044
55°	1504	142	29	73	98	1496
65°	276	9	20	62	87	381
75°	7	7	12	40	64	7
85°	1	3	5	13	21	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°	121.9	121.9	121.9	121.9	121.9	121.9	121.9	121.9	121.9	121.9	121.9
2.5°	129.8	129.8	129.8	129.8	129.8	129.8	128.5	128.5	128.5	125.9	123.2
5°	144.4	145.7	144.4	144.4	141.8	141.8	139.1	139.1	135.1	127.2	120.6
7.5°	189.5	188.1	186.8	181.5	177.5	168.3	164.3	157.7	145.7	127.2	117.9
10°	307.4	299.4	294.1	282.2	257.0	241.1	219.9	198.7	165.6	127.2	113.9
12.5°	534.0	532.6	516.7	477.0	441.2	392.2	340.5	288.8	204.0	124.5	108.6
15°	834.7	822.8	800.3	753.9	690.3	613.5	520.7	429.3	266.3	120.6	100.7
17.5°	1091.8	1077.2	1060.0	1013.6	940.7	844.0	732.7	606.8	351.1	115.3	92.7
20°	1283.9	1274.6	1260.1	1223.0	1154.1	1066.6	942.1	789.7	454.5	108.6	84.8
22.5°	1354.1	1352.8	1355.5	1342.2	1307.8	1238.9	1119.6	960.6	556.5	100.7	76.8
25°	1331.6	1330.3	1347.5	1364.7	1372.7	1344.9	1253.4	1098.4	643.9	94.1	70.2
27.5°	1352.8	1348.8	1340.9	1343.5	1366.1	1381.9	1339.6	1204.4	719.5	84.8	63.6
30°	1579.4	1556.8	1521.1	1460.1	1415.1	1411.1	1392.5	1287.9	772.5	75.5	58.3
32.5°	1933.1	1905.3	1840.4	1727.8	1620.4	1538.3	1480.0	1358.1	809.6	66.2	51.7
35°	2241.9	2222.0	2146.5	2035.2	1881.5	1727.8	1621.8	1461.4	826.8	58.3	47.7
37.5°	2451.2	2443.3	2369.1	2249.8	2093.5	1911.9	1771.5	1567.4	822.8	49.0	43.7
40°	2542.6	2518.8	2456.5	2355.8	2198.1	2035.2	1886.8	1635.0	795.0	39.7	39.7
42.5°	2597.0	2570.5	2502.9	2407.5	2252.5	2078.9	1900.0	1605.9	728.7	31.8	38.4
45°	2673.8	2646.0	2557.2	2455.2	2298.8	2097.4	1848.3	1502.5	629.4	23.8	35.8
47.5°	2720.2	2701.6	2635.4	2533.4	2343.9	2070.9	1729.1	1405.8	519.4	18.5	34.4
50°	2579.7	2561.2	2512.2	2441.9	2314.7	1982.2	1624.4	1249.5	394.8	14.6	33.1
52.5°	2220.7	2236.6	2245.8	2265.7	2173.0	1783.4	1468.1	1124.9	266.3	11.9	30.5
55°	1503.8	1527.7	1554.2	1633.7	1742.3	1587.3	1303.8	972.5	141.8	11.9	29.1
57.5°	1181.9	1173.9	1166.0	1160.7	1245.5	1309.1	1146.1	777.8	60.9	11.9	26.5
60°	1081.2	1057.3	1041.4	1045.4	1087.8	1062.6	907.6	507.5	21.2	11.9	25.2
62.5°	708.9	727.4	763.2	824.1	795.0	682.4	527.3	201.4	10.6	11.9	22.5
65°	275.6	266.3	275.6	292.8	253.1	188.1	117.9	35.8	9.3	10.6	19.9
67.5°	37.1	33.1	25.2	15.9	14.6	13.2	10.6	9.3	9.3	10.6	18.5
70°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	7.9	7.9	9.3	15.9
72.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	9.3	13.2
75°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	7.9	11.9
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	6.6	9.3
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.3	7.9
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	4.0	4.0	5.3	6.6
85°	1.3	2.6	1.3	2.6	2.6	2.6	2.6	2.6	2.6	4.0	5.3
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	4.0	4.0
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°	121.9	121.9	121.9	121.9
2.5°	120.6	117.9	117.9	117.9
5°	117.9	115.3	115.3	113.9
7.5°	113.9	112.6	112.6	112.6
10°	111.3	110.0	111.3	111.3
12.5°	106.0	107.3	108.6	108.6
15°	100.7	103.3	106.0	107.3
17.5°	95.4	100.7	103.3	104.7
20°	90.1	96.7	100.7	102.0
22.5°	86.1	92.7	98.0	100.7
25°	80.8	90.1	96.7	99.4
27.5°	75.5	86.1	94.1	98.0
30°	71.5	84.8	94.1	98.0
32.5°	67.6	82.1	92.7	96.7
35°	64.9	80.8	92.7	98.0
37.5°	62.3	79.5	92.7	96.7
40°	60.9	78.2	92.7	96.7
42.5°	59.6	78.2	92.7	98.0
45°	57.0	76.8	92.7	98.0
47.5°	55.6	76.8	92.7	98.0
50°	54.3	75.5	92.7	99.4
52.5°	53.0	74.2	92.7	99.4
55°	50.3	72.9	91.4	98.0
57.5°	49.0	71.5	90.1	95.4
60°	46.4	68.9	87.4	94.1
62.5°	43.7	66.2	84.8	90.1
65°	39.7	62.3	80.8	87.4
67.5°	35.8	57.0	76.8	83.5
70°	31.8	51.7	71.5	76.8
72.5°	27.8	46.4	66.2	70.2
75°	23.8	39.7	58.3	63.6
77.5°	19.9	34.4	49.0	53.0
80°	14.6	26.5	39.7	43.7
82.5°	11.9	19.9	29.1	31.8
85°	7.9	13.2	18.5	21.2
87.5°	4.0	6.6	9.3	10.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)