

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: P1306941

Luminaire Tested: P3SQAS13R509027DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306941
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: P3SQAS13R509027DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

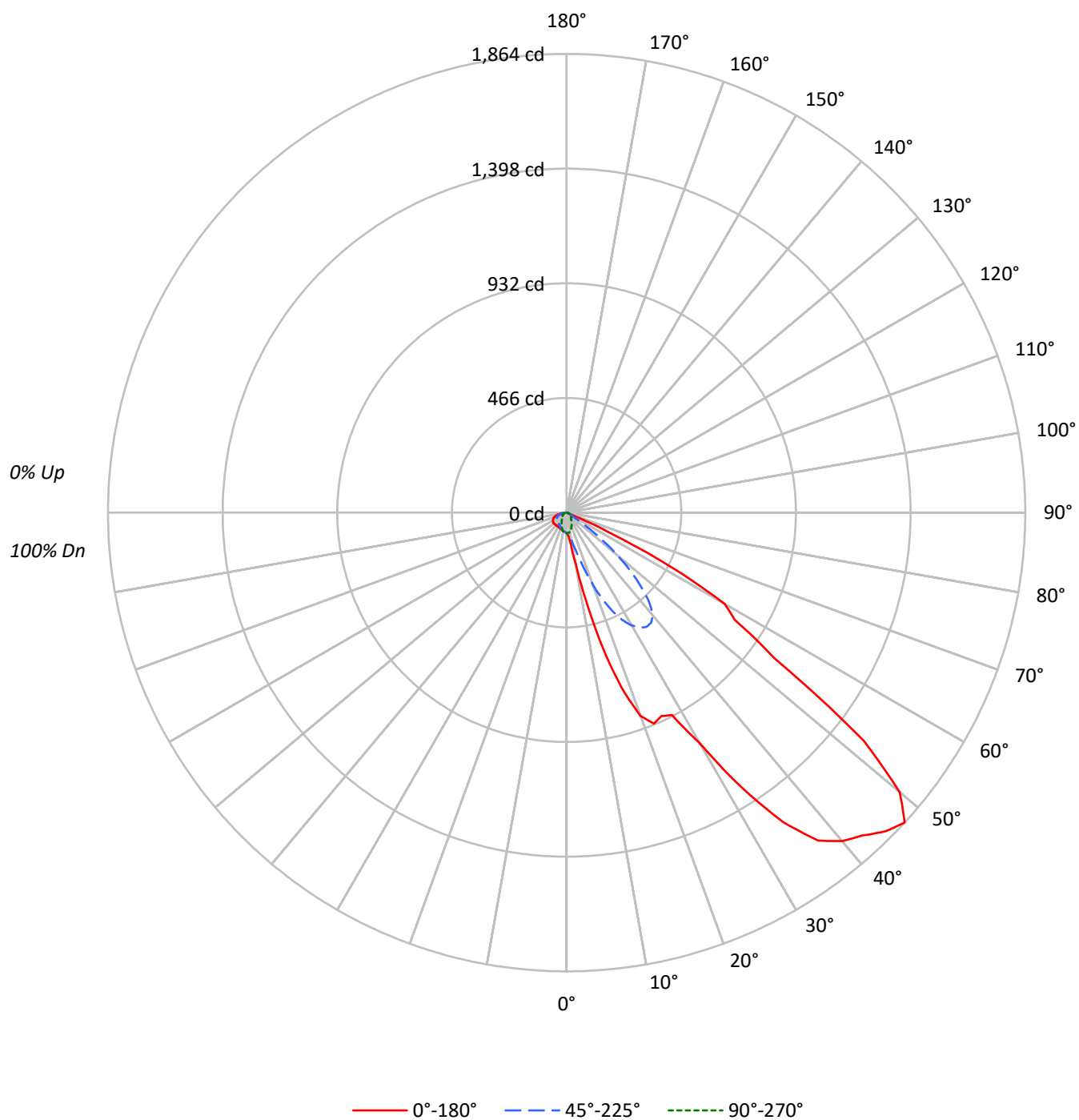
Lumens per Lamp: N/A
Luminaire Lumens: 1051.0 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14381	14381	14381	14381	14381
5°	17098	16009	14280	13658	13502
10°	36830	19849	13658	13168	13343
15°	101969	32539	12303	12623	13105
20°	161209	57072	10648	12151	12811
25°	173361	83840	9140	11725	12941
30°	215192	105240	7935	11554	13364
35°	322936	119104	6875	11648	14128
40°	391638	122460	6115	12050	14906
45°	446177	105023	5967	12836	16367
50°	473568	72475	6082	13852	18246
55°	309359	29155	6005	14983	20178
60°	255165	4994	5924	16258	22217
65°	76939	2608	5542	17401	24410
70°	3223	2719	5489	17826	26537
75°	2994	2994	5456	18099	29012
80°	2678	2678	5356	18051	29754
85°	1778	3557	7114	17982	28652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 475098 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.8
10°-20°	49.8	4.7
20°-30°	127.9	12.2
30°-40°	229.8	21.9
40°-50°	307.0	29.2
50°-60°	233.8	22.2
60°-70°	71.0	6.8
70°-80°	16.9	1.6
80°-90°	6.1	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°	186.4	17.7
0°-40°	416.2	39.6
0°-60°	957.0	91.1
0°-90°	1051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1051.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	84	84	84	84	84	
5°	99	93	83	79	78	13
15°	572	182	69	71	74	168
25°	912	441	48	62	68	435
35°	1536	566	33	55	67	943
45°	1832	431	24	53	67	1401
55°	1030	97	20	50	67	1025
65°	189	6	14	43	60	261
75°	4	4	8	27	44	5
85°	1	2	4	9	14	1
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°	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
2.5°	89.0	89.0	89.0	89.0	89.0	89.0	88.1	88.1	88.1	86.2	84.4
5°	98.9	99.9	98.9	98.9	97.1	97.1	95.3	95.3	92.6	87.1	82.6
7.5°	129.8	128.9	128.0	124.4	121.6	115.3	112.6	108.0	99.9	87.1	80.8
10°	210.6	205.2	201.5	193.4	176.1	165.2	150.7	136.2	113.5	87.1	78.1
12.5°	365.8	364.9	354.0	326.8	302.3	268.7	233.3	197.9	139.8	85.3	74.4
15°	571.9	563.7	548.3	516.5	473.0	420.3	356.8	294.1	182.5	82.6	69.0
17.5°	748.0	738.0	726.2	694.5	644.5	578.3	502.0	415.8	240.6	79.0	63.5
20°	879.6	873.3	863.3	837.9	790.7	730.8	645.4	541.0	311.4	74.4	58.1
22.5°	927.8	926.9	928.7	919.6	896.0	848.8	767.1	658.1	381.3	69.0	52.7
25°	912.3	911.4	923.2	935.0	940.5	921.4	858.8	752.6	441.2	64.5	48.1
27.5°	926.9	924.1	918.7	920.5	935.9	946.8	917.8	825.2	492.9	58.1	43.6
30°	1082.1	1066.7	1042.1	1000.4	969.5	966.8	954.1	882.4	529.2	51.7	39.9
32.5°	1324.5	1305.4	1260.9	1183.8	1110.2	1053.9	1014.0	930.5	554.7	45.4	35.4
35°	1536.0	1522.4	1470.6	1394.4	1289.1	1183.8	1111.1	1001.3	566.5	39.9	32.7
37.5°	1679.4	1674.0	1623.1	1541.4	1434.3	1309.9	1213.7	1073.9	563.7	33.6	30.0
40°	1742.0	1725.7	1683.0	1614.1	1506.0	1394.4	1292.7	1120.2	544.7	27.2	27.2
42.5°	1779.3	1761.1	1714.8	1649.5	1543.2	1424.3	1301.8	1100.2	499.3	21.8	26.3
45°	1831.9	1812.9	1752.0	1682.1	1575.0	1437.0	1266.4	1029.4	431.2	16.3	24.5
47.5°	1863.7	1851.0	1805.6	1735.7	1605.9	1418.9	1184.7	963.2	355.9	12.7	23.6
50°	1767.5	1754.8	1721.2	1673.1	1585.9	1358.1	1113.0	856.0	270.5	10.0	22.7
52.5°	1521.5	1532.3	1538.7	1552.3	1488.8	1221.9	1005.8	770.7	182.5	8.2	20.9
55°	1030.3	1046.7	1064.8	1119.3	1193.7	1087.5	893.3	666.3	97.1	8.2	20.0
57.5°	809.7	804.3	798.9	795.2	853.3	896.9	785.2	532.9	41.8	8.2	18.2
60°	740.8	724.4	713.5	716.2	745.3	728.0	621.8	347.7	14.5	8.2	17.2
62.5°	485.7	498.4	522.9	564.6	544.7	467.5	361.3	138.0	7.3	8.2	15.4
65°	188.8	182.5	188.8	200.6	173.4	128.9	80.8	24.5	6.4	7.3	13.6
67.5°	25.4	22.7	17.2	10.9	10.0	9.1	7.3	6.4	6.4	7.3	12.7
70°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	5.4	5.4	6.4	10.9
72.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.4	9.1
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.4	8.2
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.5	6.4
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.6	5.4
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	3.6	4.5
85°	0.9	1.8	0.9	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.6
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	2.7	2.7
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°	83.5	83.5	83.5	83.5
2.5°	82.6	80.8	80.8	80.8
5°	80.8	79.0	79.0	78.1
7.5°	78.1	77.2	77.2	77.2
10°	76.3	75.3	76.3	76.3
12.5°	72.6	73.5	74.4	74.4
15°	69.0	70.8	72.6	73.5
17.5°	65.4	69.0	70.8	71.7
20°	61.7	66.3	69.0	69.9
22.5°	59.0	63.5	67.2	69.0
25°	55.4	61.7	66.3	68.1
27.5°	51.7	59.0	64.5	67.2
30°	49.0	58.1	64.5	67.2
32.5°	46.3	56.3	63.5	66.3
35°	44.5	55.4	63.5	67.2
37.5°	42.7	54.5	63.5	66.3
40°	41.8	53.6	63.5	66.3
42.5°	40.9	53.6	63.5	67.2
45°	39.0	52.7	63.5	67.2
47.5°	38.1	52.7	63.5	67.2
50°	37.2	51.7	63.5	68.1
52.5°	36.3	50.8	63.5	68.1
55°	34.5	49.9	62.6	67.2
57.5°	33.6	49.0	61.7	65.4
60°	31.8	47.2	59.9	64.5
62.5°	30.0	45.4	58.1	61.7
65°	27.2	42.7	55.4	59.9
67.5°	24.5	39.0	52.7	57.2
70°	21.8	35.4	49.0	52.7
72.5°	19.1	31.8	45.4	48.1
75°	16.3	27.2	39.9	43.6
77.5°	13.6	23.6	33.6	36.3
80°	10.0	18.2	27.2	30.0
82.5°	8.2	13.6	20.0	21.8
85°	5.4	9.1	12.7	14.5
87.5°	2.7	4.5	6.4	7.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)