

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: P1317159

Luminaire Tested: P3SQAS13R459830DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R459830DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

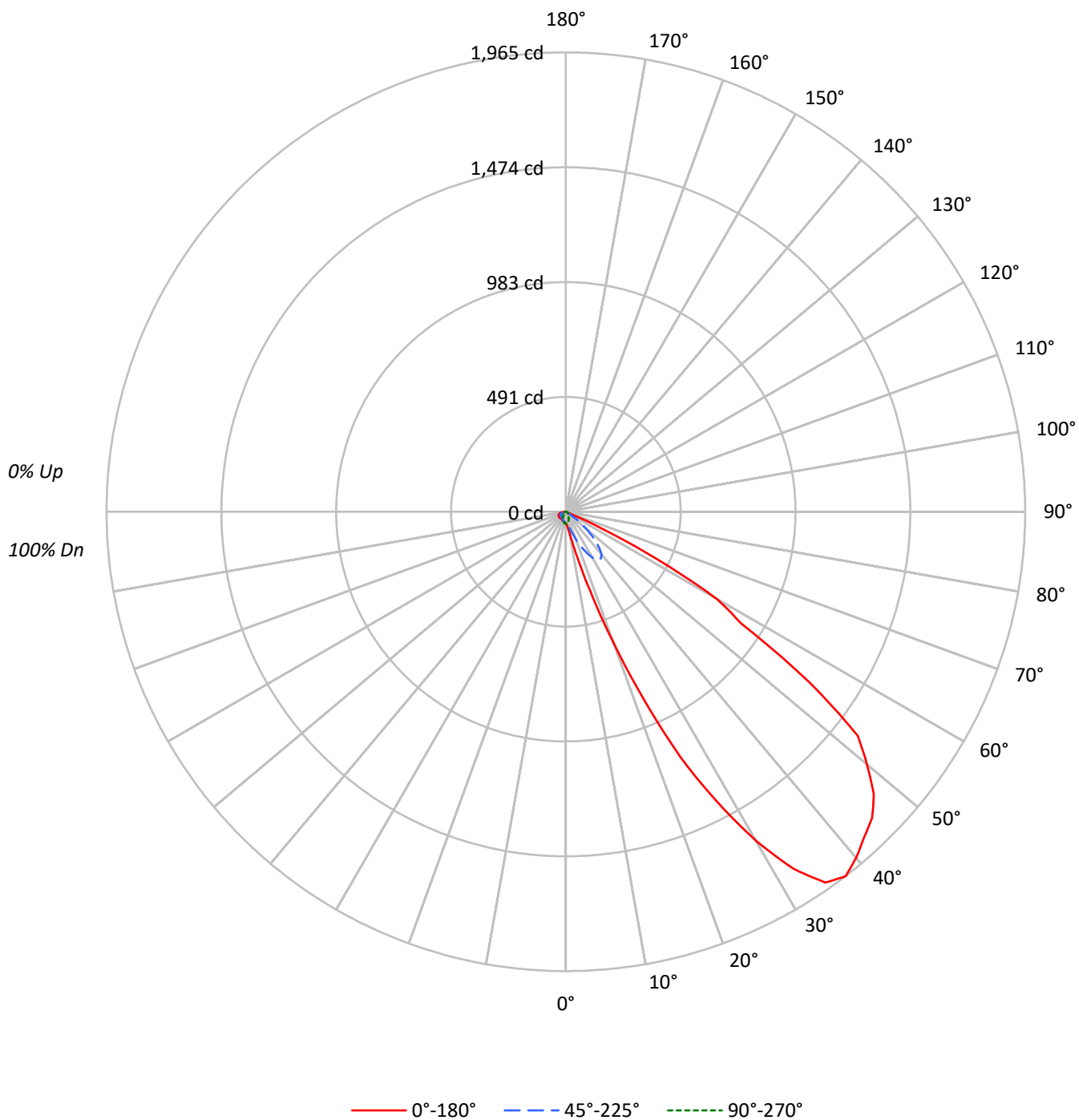
Lumens per Lamp: N/A
Luminaire Lumens: 878.0 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	107	104	100	97	99	97	94		96	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		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	62	56	81	70	62	55	67	60	55		65	59	54		63	58	53	51
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	58	44	35	29	56	43	35	29	42	34	29		40	33	28		39	33	28	26
9	53	39	31	25	52	39	30	25	38	30	25		36	29	25		35	29	24	22
10	49	36	27	22	48	35	27	22	34	27	21		33	26	21		32	26	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8749	8749	8749	8749	8749
5°	10407	9664	8661	8022	8022
10°	16614	11297	8114	7607	7607
15°	41401	15138	7382	7114	7382
20°	109031	22598	6378	6781	7184
25°	218911	33502	5511	6347	7031
30°	322739	44864	4474	6205	7219
35°	407097	52624	3805	6097	7464
40°	434331	53170	3417	6362	7981
45°	451292	44352	3191	6893	8646
50°	450553	30892	3108	7395	9726
55°	382953	13722	3273	8287	10659
60°	257370	2756	3238	9231	12228
65°	68299	1182	3260	10066	13896
70°	1813	1460	3273	10977	15711
75°	1464	1464	3394	11578	17833
80°	1488	2182	3570	12199	20133
85°	1383	2964	5730	12844	20156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 462912 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.6
10°-20°	24.8	2.8
20°-30°	102.1	11.6
30°-40°	215.3	24.5
40°-50°	265.6	30.2
50°-60°	199.1	22.7
60°-70°	51.2	5.8
70°-80°	10.6	1.2
80°-90°	4.3	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°	132.0	15.0
0°-40°	347.2	39.5
0°-60°	811.9	92.5
0°-90°	878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	878.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	51	51	51	51	51	
5°	60	56	50	46	46	7
15°	232	85	41	40	41	85
25°	1152	176	29	33	37	537
35°	1936	250	18	29	36	1180
45°	1853	182	13	28	36	1418
55°	1275	46	11	28	36	1101
65°	168	3	8	25	34	242
75°	2	2	5	17	27	3
85°	1	2	3	6	10	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
2.5°	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.0	52.2	50.8	49.3
5°	60.2	59.5	59.5	59.5	58.8	58.0	58.0	55.9	53.0	50.1	47.9
7.5°	71.1	71.1	70.4	68.9	68.2	66.7	65.3	59.5	53.0	48.6	45.7
10°	95.0	93.6	91.4	90.0	86.3	81.3	77.6	64.6	52.2	46.4	44.3
12.5°	142.2	145.1	137.8	130.6	120.4	111.0	99.4	73.3	52.2	44.3	42.1
15°	232.2	237.2	223.4	208.9	184.3	161.1	139.3	84.9	50.8	41.4	39.2
17.5°	379.4	386.0	362.7	328.6	290.2	243.8	203.9	100.8	49.3	38.4	37.0
20°	594.9	594.2	549.2	506.4	432.4	364.2	289.5	123.3	47.2	34.8	34.8
22.5°	859.7	862.6	807.4	730.5	625.4	515.8	396.8	149.4	44.3	31.9	32.6
25°	1152.0	1127.4	1062.1	968.5	834.3	682.7	526.0	176.3	41.4	29.0	30.5
27.5°	1395.8	1371.9	1297.1	1186.1	1041.8	861.9	657.3	203.1	37.7	26.1	28.3
30°	1622.9	1592.4	1502.4	1376.9	1205.0	1010.6	780.6	225.6	33.4	22.5	26.1
32.5°	1810.0	1782.5	1680.2	1534.4	1347.2	1138.3	885.1	243.0	29.0	20.3	24.7
35°	1936.3	1908.0	1813.7	1653.3	1449.5	1231.1	970.0	250.3	25.4	18.1	23.9
37.5°	1965.3	1950.1	1882.6	1732.4	1519.9	1290.6	1024.4	248.1	21.0	16.7	22.5
40°	1931.9	1935.6	1903.6	1778.9	1557.6	1316.0	1046.9	236.5	17.4	15.2	21.8
42.5°	1889.1	1898.6	1896.4	1797.7	1573.5	1317.5	1037.4	213.3	13.8	13.8	21.0
45°	1852.9	1862.3	1875.3	1789.7	1562.7	1298.6	1007.7	182.1	10.2	13.1	21.0
47.5°	1786.8	1797.0	1815.9	1725.9	1507.5	1250.0	954.0	148.0	7.3	12.3	20.3
50°	1681.6	1686.7	1681.6	1580.8	1401.6	1171.6	866.9	115.3	5.1	11.6	20.3
52.5°	1573.5	1563.4	1521.3	1393.6	1233.3	1047.6	757.4	82.0	3.6	10.9	19.6
55°	1275.4	1259.4	1228.2	1149.9	1058.5	895.2	612.3	45.7	3.6	10.9	18.9
57.5°	888.7	897.4	908.3	892.3	850.3	705.2	465.0	20.3	3.6	10.2	18.9
60°	747.2	740.0	740.7	730.5	660.9	514.4	319.9	8.0	3.6	9.4	18.1
62.5°	446.2	451.2	460.7	462.8	393.9	287.3	167.6	3.6	3.6	8.7	17.4
65°	167.6	175.6	153.8	133.5	105.9	77.6	39.2	2.9	4.4	8.0	16.0
67.5°	5.1	5.8	7.3	6.5	6.5	5.8	4.4	2.9	4.4	7.3	15.2
70°	3.6	3.6	3.6	3.6	3.6	2.9	2.9	2.9	3.6	6.5	13.8
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.6	5.8	12.3
75°	2.2	2.9	2.2	2.2	2.2	2.2	2.2	2.2	3.6	5.1	10.2
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9	4.4	8.7
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.9	3.6	7.3
82.5°	1.5	1.5	1.5	0.7	1.5	1.5	1.5	1.5	2.9	2.9	5.8
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	2.2	2.9	3.6
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.5	2.2	2.2	2.2
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):

	135°	157.5°	180°
0°	50.8	50.8	50.8
2.5°	47.9	47.9	47.9
5°	46.4	46.4	46.4
7.5°	45.0	45.0	45.0
10°	43.5	43.5	43.5
12.5°	42.1	42.1	42.8
15°	39.9	41.4	41.4
17.5°	38.4	39.9	40.6
20°	37.0	38.4	39.2
22.5°	34.8	37.0	38.4
25°	33.4	36.3	37.0
27.5°	31.9	35.5	37.0
30°	31.2	34.8	36.3
32.5°	29.7	34.1	35.5
35°	29.0	34.1	35.5
37.5°	29.0	33.4	35.5
40°	28.3	33.4	35.5
42.5°	28.3	33.4	35.5
45°	28.3	33.4	35.5
47.5°	27.6	33.4	36.3
50°	27.6	34.1	36.3
52.5°	27.6	34.1	36.3
55°	27.6	34.1	35.5
57.5°	26.8	33.4	35.5
60°	26.8	33.4	35.5
62.5°	25.4	32.6	34.8
65°	24.7	31.9	34.1
67.5°	23.2	31.2	32.6
70°	21.8	29.0	31.2
72.5°	19.6	27.6	29.7
75°	17.4	25.4	26.8
77.5°	15.2	22.5	23.9
80°	12.3	18.9	20.3
82.5°	9.4	14.5	15.2
85°	6.5	9.4	10.2
87.5°	2.9	4.4	5.1
90°	0.0	0.0	0.0

(END OF REPORT)