

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: P1308068

Luminaire Tested: P3SQAS13R559030DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R559030DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

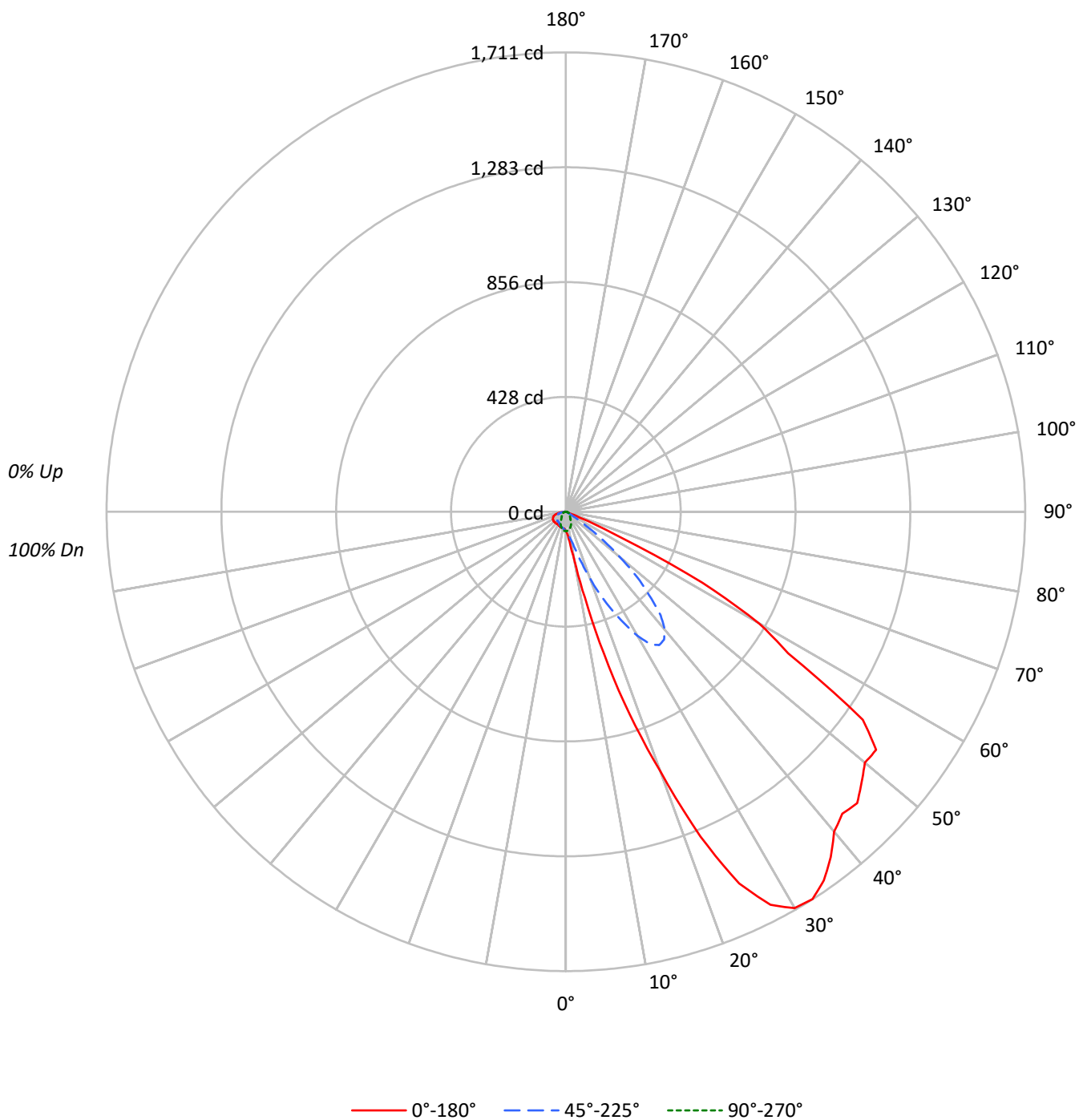
Lumens per Lamp: N/A
Luminaire Lumens: 1100.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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		95	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	67	77	71	65		74	69	64		72	67	63	61
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	51
5	76	63	54	47	74	62	53	47	60	52	47		58	51	46		56	50	46	43
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		50	44	39	37
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	38	34	32
8	59	45	36	30	57	44	36	30	43	35	30		41	35	29		40	34	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		36	30	26	24
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12211	12211	12211	12211	12211
5°	15628	14280	12257	11427	11082
10°	31776	18187	11892	10878	10878
15°	97565	27904	11090	10573	10912
20°	188645	48806	9970	10337	10868
25°	290342	75916	8684	9976	10889
30°	339006	106115	7159	9864	11216
35°	352287	127514	5929	9818	11648
40°	349619	128710	5463	10274	12680
45°	373791	106533	5212	11131	13737
50°	389571	70305	5198	11977	15352
55°	405653	30657	5255	13121	16935
60°	286578	7027	5373	14398	19082
65°	93484	2364	5135	15445	21394
70°	2921	2467	5388	16617	24472
75°	2595	2595	4525	17434	27149
80°	1884	2876	4860	17356	28960
85°	1976	3754	5730	17191	28850

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 412167 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.7
10°-20°	46.7	4.2
20°-30°	156.6	14.2
30°-40°	257.1	23.4
40°-50°	286.8	26.1
50°-60°	241.4	21.9
60°-70°	81.9	7.4
70°-80°	16.0	1.5
80°-90°	6.0	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°	210.8	19.2
0°-40°	467.9	42.5
0°-60°	996.1	90.6
0°-90°	1100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1100.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	71	71	71	71	71	
5°	90	83	71	66	64	11
15°	547	156	62	59	61	174
25°	1528	400	46	52	57	687
35°	1676	606	28	47	55	1040
45°	1535	437	21	46	56	1172
55°	1351	102	18	44	56	1100
65°	229	6	13	38	52	311
75°	4	4	7	26	41	4
85°	1	2	3	9	15	1
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°	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
2.5°	77.8	77.8	77.8	77.8	77.8	77.8	76.8	73.9	71.9	69.0	68.0
5°	90.4	90.4	90.4	89.4	89.4	87.5	82.6	75.8	70.9	67.1	66.1
7.5°	116.6	115.7	113.7	112.7	109.8	108.9	91.4	77.8	70.0	65.1	64.1
10°	181.7	179.8	176.9	166.2	156.5	149.7	104.0	78.7	68.0	63.2	62.2
12.5°	327.5	323.6	309.1	286.7	259.5	245.9	124.4	79.7	65.1	61.2	61.2
15°	547.2	542.3	515.1	484.0	434.4	407.2	156.5	78.7	62.2	58.3	59.3
17.5°	790.2	776.6	748.4	707.6	640.5	608.4	204.1	76.8	58.3	56.4	58.3
20°	1029.3	1025.4	978.7	923.3	840.7	797.9	266.3	73.9	54.4	53.5	56.4
22.5°	1309.2	1292.6	1243.1	1183.8	1070.1	1013.7	333.4	70.0	50.5	50.5	54.4
25°	1527.9	1508.4	1469.5	1400.5	1292.6	1232.4	399.5	65.1	45.7	47.6	52.5
27.5°	1650.3	1628.0	1598.8	1539.5	1455.9	1402.5	465.5	59.3	40.8	44.7	50.5
30°	1704.7	1698.9	1677.5	1633.8	1557.0	1509.4	533.6	52.5	36.0	41.8	49.6
32.5°	1710.6	1713.5	1704.7	1676.6	1618.2	1577.4	584.1	46.7	32.1	39.8	47.6
35°	1675.6	1686.3	1692.1	1680.4	1642.5	1609.5	606.5	39.8	28.2	37.9	46.7
37.5°	1621.2	1640.6	1660.0	1662.9	1639.6	1618.2	600.6	34.0	26.2	36.9	46.7
40°	1555.1	1572.6	1612.4	1637.7	1629.9	1614.4	572.5	28.2	24.3	35.0	45.7
42.5°	1524.9	1528.8	1571.6	1614.4	1612.4	1599.8	522.9	22.4	22.4	35.0	45.7
45°	1534.7	1517.2	1545.3	1594.9	1592.0	1575.5	437.4	17.5	21.4	34.0	45.7
47.5°	1493.8	1469.5	1517.2	1575.5	1564.8	1540.5	361.6	12.6	20.4	33.0	44.7
50°	1454.0	1450.1	1487.0	1516.2	1501.6	1488.0	262.4	9.7	19.4	32.1	44.7
52.5°	1456.9	1450.1	1454.0	1453.0	1423.9	1409.3	179.8	7.8	18.5	31.1	44.7
55°	1351.0	1329.6	1309.2	1315.0	1316.9	1307.2	102.1	6.8	17.5	31.1	43.7
57.5°	981.6	975.8	998.2	1061.3	1110.9	1116.7	49.6	6.8	16.5	30.1	42.8
60°	832.0	828.1	829.0	847.5	873.8	857.2	20.4	6.8	15.6	29.2	41.8
62.5°	573.4	611.3	626.9	669.7	652.2	628.8	7.8	7.8	14.6	27.2	40.8
65°	229.4	228.4	249.8	270.2	264.4	246.9	5.8	6.8	12.6	25.3	37.9
67.5°	53.5	48.6	41.8	36.0	30.1	24.3	5.8	6.8	11.7	23.3	36.0
70°	5.8	5.8	5.8	5.8	5.8	4.9	4.9	6.8	10.7	21.4	33.0
72.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.8	8.7	18.5	30.1
75°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.9	6.8	15.6	26.2
77.5°	2.9	2.9	2.9	3.9	2.9	3.9	3.9	4.9	5.8	12.6	22.4
80°	1.9	1.9	2.9	2.9	2.9	2.9	2.9	3.9	4.9	10.7	17.5
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	2.9	2.9	3.9	7.8	12.6
85°	1.0	1.0	1.0	1.0	1.0	1.9	1.9	2.9	2.9	5.8	8.7
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	2.9	2.9	3.9
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°	70.9	70.9
2.5°	67.1	67.1
5°	65.1	64.1
7.5°	63.2	63.2
10°	62.2	62.2
12.5°	61.2	62.2
15°	61.2	61.2
17.5°	59.3	60.3
20°	58.3	59.3
22.5°	57.3	58.3
25°	56.4	57.3
27.5°	55.4	56.4
30°	54.4	56.4
32.5°	53.5	55.4
35°	53.5	55.4
37.5°	53.5	56.4
40°	53.5	56.4
42.5°	53.5	56.4
45°	53.5	56.4
47.5°	53.5	56.4
50°	53.5	57.3
52.5°	53.5	57.3
55°	53.5	56.4
57.5°	52.5	56.4
60°	52.5	55.4
62.5°	51.5	54.4
65°	49.6	52.5
67.5°	47.6	51.5
70°	44.7	48.6
72.5°	41.8	44.7
75°	37.9	40.8
77.5°	33.0	35.0
80°	26.2	29.2
82.5°	20.4	22.4
85°	13.6	14.6
87.5°	5.8	6.8
90°	0.0	0.0

(END OF REPORT)