

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: P1312645

Luminaire Tested: P3SQAS17R559727DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312645
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: P3SQAS17R559727DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

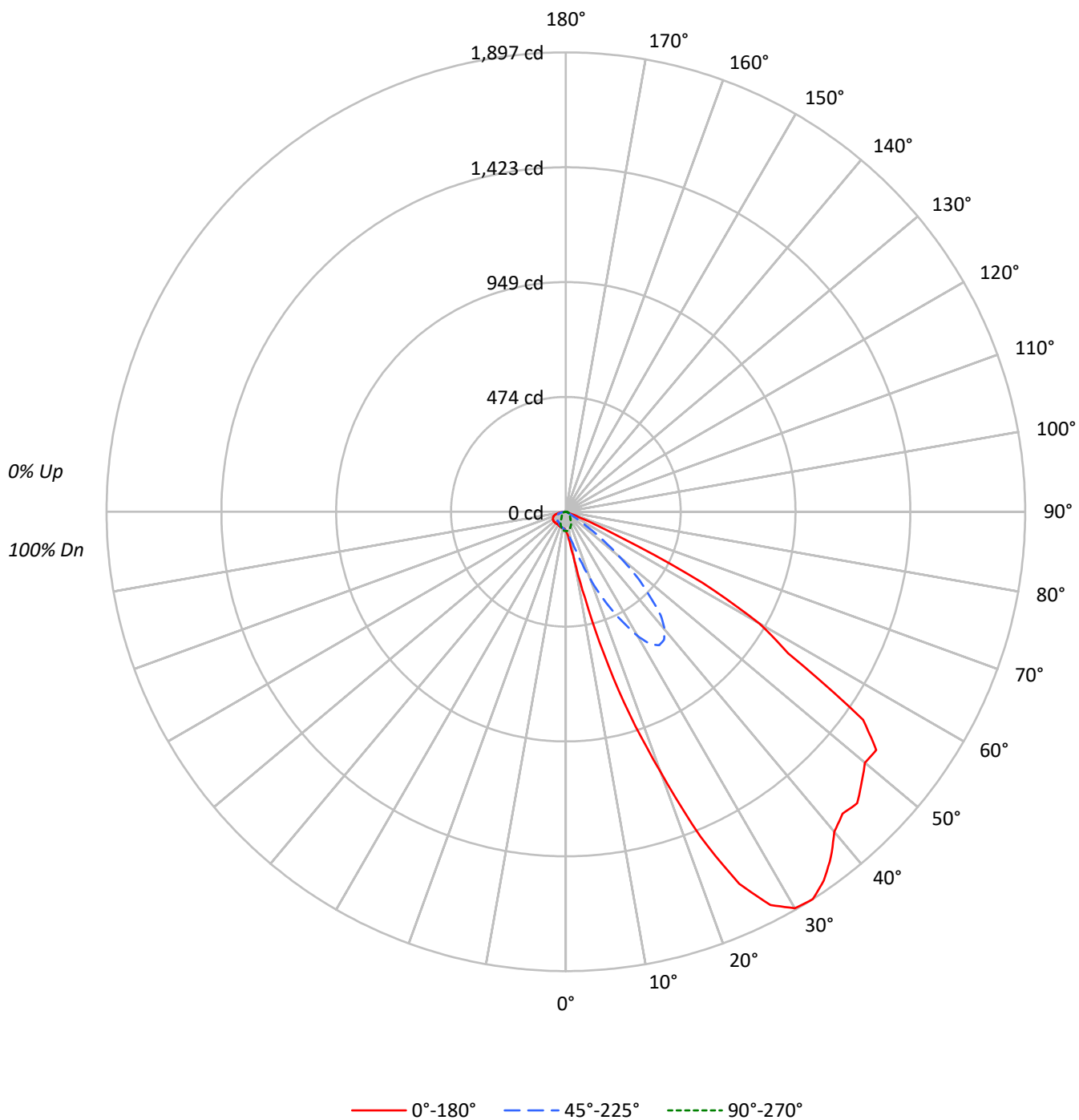
Lumens per Lamp: N/A
Luminaire Lumens: 1220.0 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	13554	13554	13554	13554	13554
5°	17323	15836	13606	12672	12292
10°	35256	20164	13203	12067	12067
15°	108209	30935	12303	11732	12106
20°	209209	54140	11070	11455	12060
25°	322000	84182	9634	11060	12086
30°	375995	117689	7935	10938	12429
35°	390719	141411	6581	10870	12909
40°	387748	142739	6048	11398	14051
45°	414563	118151	5772	12348	15222
50°	432065	77968	5787	13289	17040
55°	449881	33990	5825	14563	18766
60°	317820	7784	5924	15982	21149
65°	103671	2649	5705	17116	23717
70°	3273	2719	5992	18480	27141
75°	2861	2861	4991	19364	30143
80°	2182	3174	5356	19241	32035
85°	2174	4347	6323	19168	32012

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 457121 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.7
10°-20°	51.8	4.2
20°-30°	173.6	14.2
30°-40°	285.2	23.4
40°-50°	318.1	26.1
50°-60°	267.7	21.9
60°-70°	90.8	7.4
70°-80°	17.8	1.5
80°-90°	6.7	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°	233.8	19.2
0°-40°	519.0	42.5
0°-60°	1104.7	90.6
0°-90°	1220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1220.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	79	79	79	79	79	
5°	100	92	79	73	71	12
15°	607	174	69	66	68	193
25°	1694	443	51	58	64	762
35°	1858	673	31	52	61	1154
45°	1702	485	24	51	62	1300
55°	1498	113	19	48	62	1220
65°	254	6	14	42	58	345
75°	4	4	8	29	45	5
85°	1	2	3	10	16	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°	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
2.5°	86.2	86.2	86.2	86.2	86.2	86.2	85.2	81.9	79.8	76.5	75.5
5°	100.2	100.2	100.2	99.2	99.2	97.0	91.6	84.1	78.7	74.4	73.3
7.5°	129.4	128.3	126.1	125.0	121.8	120.7	101.3	86.2	77.6	72.2	71.1
10°	201.6	199.4	196.2	184.3	173.5	166.0	115.3	87.3	75.5	70.1	69.0
12.5°	363.3	359.0	342.8	318.0	287.8	272.7	138.0	88.4	72.2	67.9	67.9
15°	606.9	601.5	571.3	536.8	481.8	451.7	173.5	87.3	69.0	64.7	65.8
17.5°	876.4	861.3	830.0	784.7	710.4	674.8	226.4	85.2	64.7	62.5	64.7
20°	1141.5	1137.2	1085.5	1024.0	932.4	885.0	295.4	81.9	60.4	59.3	62.5
22.5°	1452.0	1433.7	1378.7	1312.9	1186.8	1124.3	369.7	77.6	56.1	56.1	60.4
25°	1694.5	1673.0	1629.8	1553.3	1433.7	1366.8	443.0	72.2	50.7	52.8	58.2
27.5°	1830.3	1805.6	1773.2	1707.5	1614.8	1555.5	516.3	65.8	45.3	49.6	56.1
30°	1890.7	1884.2	1860.5	1812.0	1726.9	1674.0	591.8	58.2	39.9	46.4	55.0
32.5°	1897.2	1900.4	1890.7	1859.5	1794.8	1749.5	647.8	51.7	35.6	44.2	52.8
35°	1858.4	1870.2	1876.7	1863.8	1821.7	1785.1	672.6	44.2	31.3	42.0	51.7
37.5°	1798.0	1819.6	1841.1	1844.4	1818.5	1794.8	666.2	37.7	29.1	41.0	51.7
40°	1724.7	1744.1	1788.3	1816.3	1807.7	1790.5	634.9	31.3	26.9	38.8	50.7
42.5°	1691.3	1695.6	1743.0	1790.5	1788.3	1774.3	579.9	24.8	24.8	38.8	50.7
45°	1702.1	1682.7	1713.9	1768.9	1765.7	1747.3	485.1	19.4	23.7	37.7	50.7
47.5°	1656.8	1629.8	1682.7	1747.3	1735.5	1708.5	401.0	14.0	22.6	36.7	49.6
50°	1612.6	1608.3	1649.3	1681.6	1665.4	1650.3	291.0	10.8	21.6	35.6	49.6
52.5°	1615.8	1608.3	1612.6	1611.5	1579.2	1563.0	199.4	8.6	20.5	34.5	49.6
55°	1498.3	1474.6	1452.0	1458.5	1460.6	1449.8	113.2	7.5	19.4	34.5	48.5
57.5°	1088.7	1082.3	1107.0	1177.1	1232.1	1238.6	55.0	7.5	18.3	33.4	47.4
60°	922.7	918.4	919.5	940.0	969.1	950.7	22.6	7.5	17.2	32.3	46.4
62.5°	636.0	678.0	695.3	742.7	723.3	697.4	8.6	8.6	16.2	30.2	45.3
65°	254.4	253.3	277.0	299.7	293.2	273.8	6.5	7.5	14.0	28.0	42.0
67.5°	59.3	53.9	46.4	39.9	33.4	26.9	6.5	7.5	12.9	25.9	39.9
70°	6.5	6.5	6.5	6.5	6.5	5.4	5.4	7.5	11.9	23.7	36.7
72.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.5	9.7	20.5	33.4
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.4	7.5	17.2	29.1
77.5°	3.2	3.2	3.2	4.3	3.2	4.3	4.3	5.4	6.5	14.0	24.8
80°	2.2	2.2	3.2	3.2	3.2	3.2	3.2	4.3	5.4	11.9	19.4
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	3.2	3.2	4.3	8.6	14.0
85°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	3.2	3.2	6.5	9.7
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	3.2	3.2	4.3
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°	78.7	78.7
2.5°	74.4	74.4
5°	72.2	71.1
7.5°	70.1	70.1
10°	69.0	69.0
12.5°	67.9	69.0
15°	67.9	67.9
17.5°	65.8	66.8
20°	64.7	65.8
22.5°	63.6	64.7
25°	62.5	63.6
27.5°	61.4	62.5
30°	60.4	62.5
32.5°	59.3	61.4
35°	59.3	61.4
37.5°	59.3	62.5
40°	59.3	62.5
42.5°	59.3	62.5
45°	59.3	62.5
47.5°	59.3	62.5
50°	59.3	63.6
52.5°	59.3	63.6
55°	59.3	62.5
57.5°	58.2	62.5
60°	58.2	61.4
62.5°	57.1	60.4
65°	55.0	58.2
67.5°	52.8	57.1
70°	49.6	53.9
72.5°	46.4	49.6
75°	42.0	45.3
77.5°	36.7	38.8
80°	29.1	32.3
82.5°	22.6	24.8
85°	15.1	16.2
87.5°	6.5	7.5
90°	0.0	0.0

(END OF REPORT)