

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: P1315415

Luminaire Tested: P3SQAS13R559740DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315415
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: P3SQAS13R559740DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

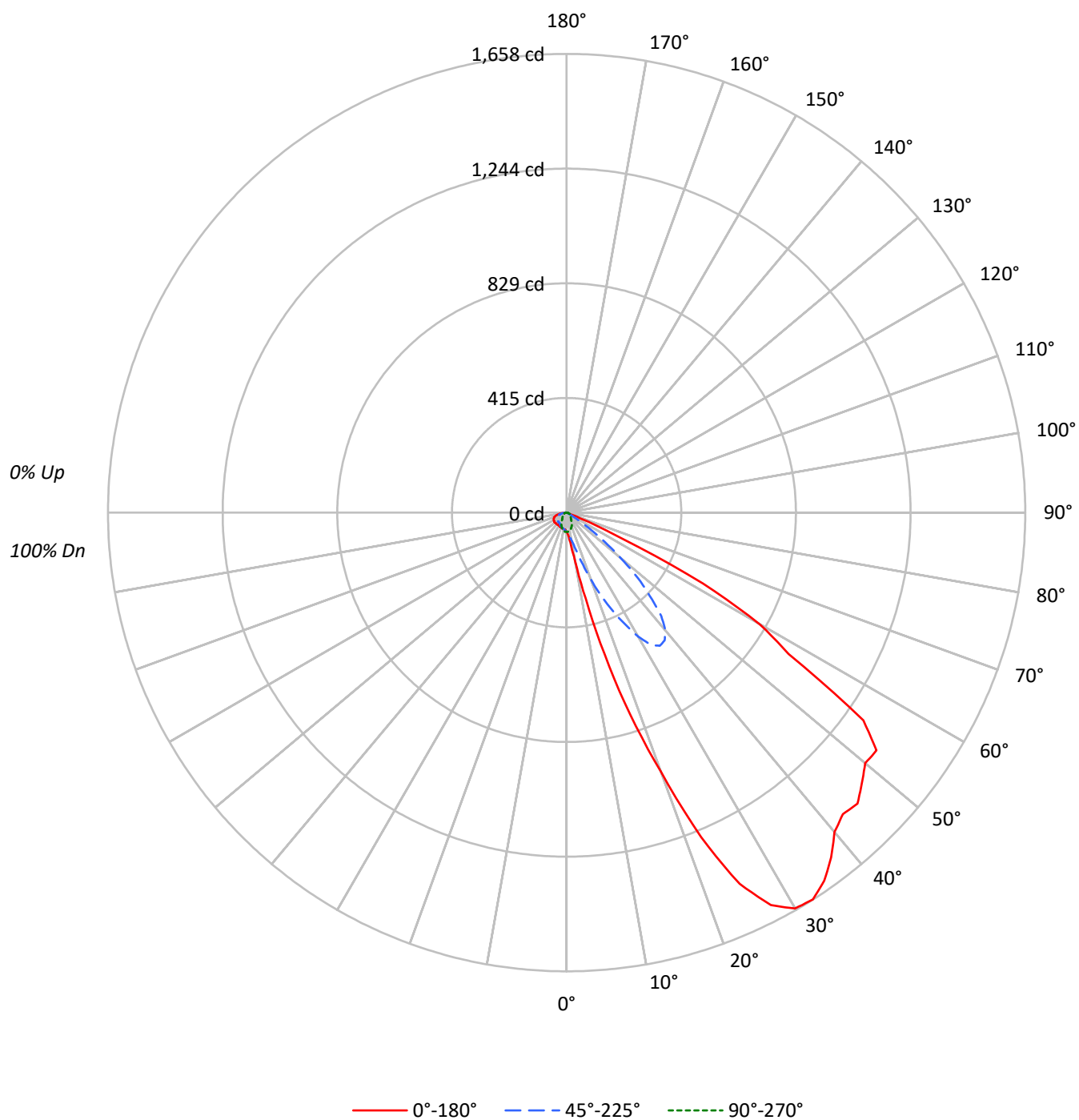
Lumens per Lamp: N/A
Luminaire Lumens: 1066.0 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	11849	11849	11849	11849	11849
5°	15144	13848	11894	11064	10753
10°	30796	17628	11525	10545	10545
15°	94551	27030	10751	10252	10573
20°	182799	47303	9659	10007	10538
25°	281353	73559	8418	9672	10565
30°	328526	102833	6921	9546	10858
35°	341396	123561	5740	9503	11290
40°	338805	124731	5283	9960	12275
45°	362222	103221	5042	10790	13298
50°	377515	68135	5037	11601	14897
55°	393102	29696	5104	12731	16394
60°	277692	6820	5201	13950	18497
65°	90590	2323	4972	14956	20742
70°	2870	2367	5237	16113	23717
75°	2529	2529	4392	16902	26351
80°	1884	2777	4661	16860	28068
85°	1778	3754	5533	16796	27862

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 399436 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.7
10°-20°	45.3	4.2
20°-30°	151.7	14.2
30°-40°	249.2	23.4
40°-50°	277.9	26.1
50°-60°	233.9	21.9
60°-70°	79.4	7.4
70°-80°	15.5	1.5
80°-90°	5.8	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°	204.3	19.2
0°-40°	453.4	42.5
0°-60°	965.3	90.6
0°-90°	1066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1066.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	69	69	69	69	69	
5°	88	80	69	64	62	11
15°	530	152	60	58	59	168
25°	1481	387	44	51	56	665
35°	1624	588	27	45	54	1008
45°	1487	424	21	44	55	1136
55°	1309	99	17	42	55	1066
65°	222	6	12	37	51	301
75°	4	4	7	25	40	4
85°	1	2	3	8	14	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°	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
2.5°	75.3	75.3	75.3	75.3	75.3	75.3	74.4	71.6	69.7	66.9	65.9
5°	87.6	87.6	87.6	86.7	86.7	84.8	80.1	73.5	68.8	65.0	64.0
7.5°	113.0	112.1	110.2	109.3	106.4	105.5	88.5	75.3	67.8	63.1	62.2
10°	176.1	174.2	171.4	161.1	151.6	145.0	100.8	76.3	65.9	61.2	60.3
12.5°	317.4	313.6	299.5	277.9	251.5	238.3	120.6	77.2	63.1	59.3	59.3
15°	530.3	525.6	499.2	469.1	421.0	394.6	151.6	76.3	60.3	56.5	57.5
17.5°	765.7	752.6	725.2	685.7	620.7	589.6	197.8	74.4	56.5	54.6	56.5
20°	997.4	993.7	948.5	894.8	814.7	773.3	258.1	71.6	52.7	51.8	54.6
22.5°	1268.7	1252.7	1204.7	1147.2	1037.0	982.4	323.1	67.8	49.0	49.0	52.7
25°	1480.6	1461.8	1424.1	1357.2	1252.7	1194.3	387.1	63.1	44.3	46.2	50.9
27.5°	1599.3	1577.6	1549.4	1491.9	1410.9	1359.1	451.2	57.5	39.6	43.3	49.0
30°	1652.0	1646.4	1625.7	1583.3	1508.9	1462.7	517.1	50.9	34.8	40.5	48.0
32.5°	1657.7	1660.5	1652.0	1624.7	1568.2	1528.7	566.1	45.2	31.1	38.6	46.2
35°	1623.8	1634.2	1639.8	1628.5	1591.8	1559.7	587.7	38.6	27.3	36.7	45.2
37.5°	1571.0	1589.9	1608.7	1611.5	1588.9	1568.2	582.1	33.0	25.4	35.8	45.2
40°	1507.0	1524.0	1562.6	1587.1	1579.5	1564.5	554.8	27.3	23.5	33.9	44.3
42.5°	1477.8	1481.6	1523.0	1564.5	1562.6	1550.3	506.7	21.7	21.7	33.9	44.3
45°	1487.2	1470.3	1497.6	1545.6	1542.8	1526.8	423.8	17.0	20.7	33.0	44.3
47.5°	1447.7	1424.1	1470.3	1526.8	1516.4	1492.9	350.4	12.2	19.8	32.0	43.3
50°	1409.0	1405.3	1441.1	1469.3	1455.2	1442.0	254.3	9.4	18.8	31.1	43.3
52.5°	1411.9	1405.3	1409.0	1408.1	1379.8	1365.7	174.2	7.5	17.9	30.1	43.3
55°	1309.2	1288.5	1268.7	1274.4	1276.2	1266.8	98.9	6.6	17.0	30.1	42.4
57.5°	951.3	945.6	967.3	1028.5	1076.6	1082.2	48.0	6.6	16.0	29.2	41.4
60°	806.2	802.5	803.4	821.3	846.7	830.7	19.8	6.6	15.1	28.3	40.5
62.5°	555.7	592.4	607.5	649.0	632.0	609.4	7.5	7.5	14.1	26.4	39.6
65°	222.3	221.3	242.1	261.8	256.2	239.2	5.7	6.6	12.2	24.5	36.7
67.5°	51.8	47.1	40.5	34.8	29.2	23.5	5.7	6.6	11.3	22.6	34.8
70°	5.7	5.7	5.7	5.7	5.7	4.7	4.7	6.6	10.4	20.7	32.0
72.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.7	8.5	17.9	29.2
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.7	6.6	15.1	25.4
77.5°	2.8	2.8	2.8	3.8	2.8	3.8	3.8	4.7	5.7	12.2	21.7
80°	1.9	1.9	2.8	2.8	2.8	2.8	2.8	3.8	4.7	10.4	17.0
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8	3.8	7.5	12.2
85°	0.9	0.9	0.9	0.9	0.9	1.9	1.9	2.8	2.8	5.7	8.5
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	2.8	2.8	3.8
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°	68.8	68.8
2.5°	65.0	65.0
5°	63.1	62.2
7.5°	61.2	61.2
10°	60.3	60.3
12.5°	59.3	60.3
15°	59.3	59.3
17.5°	57.5	58.4
20°	56.5	57.5
22.5°	55.6	56.5
25°	54.6	55.6
27.5°	53.7	54.6
30°	52.7	54.6
32.5°	51.8	53.7
35°	51.8	53.7
37.5°	51.8	54.6
40°	51.8	54.6
42.5°	51.8	54.6
45°	51.8	54.6
47.5°	51.8	54.6
50°	51.8	55.6
52.5°	51.8	55.6
55°	51.8	54.6
57.5°	50.9	54.6
60°	50.9	53.7
62.5°	49.9	52.7
65°	48.0	50.9
67.5°	46.2	49.9
70°	43.3	47.1
72.5°	40.5	43.3
75°	36.7	39.6
77.5°	32.0	33.9
80°	25.4	28.3
82.5°	19.8	21.7
85°	13.2	14.1
87.5°	5.7	6.6
90°	0.0	0.0

(END OF REPORT)