

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: P1311379

Luminaire Tested: P3SQAS13R559050DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311379
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: P3SQAS13R559050DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 5000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

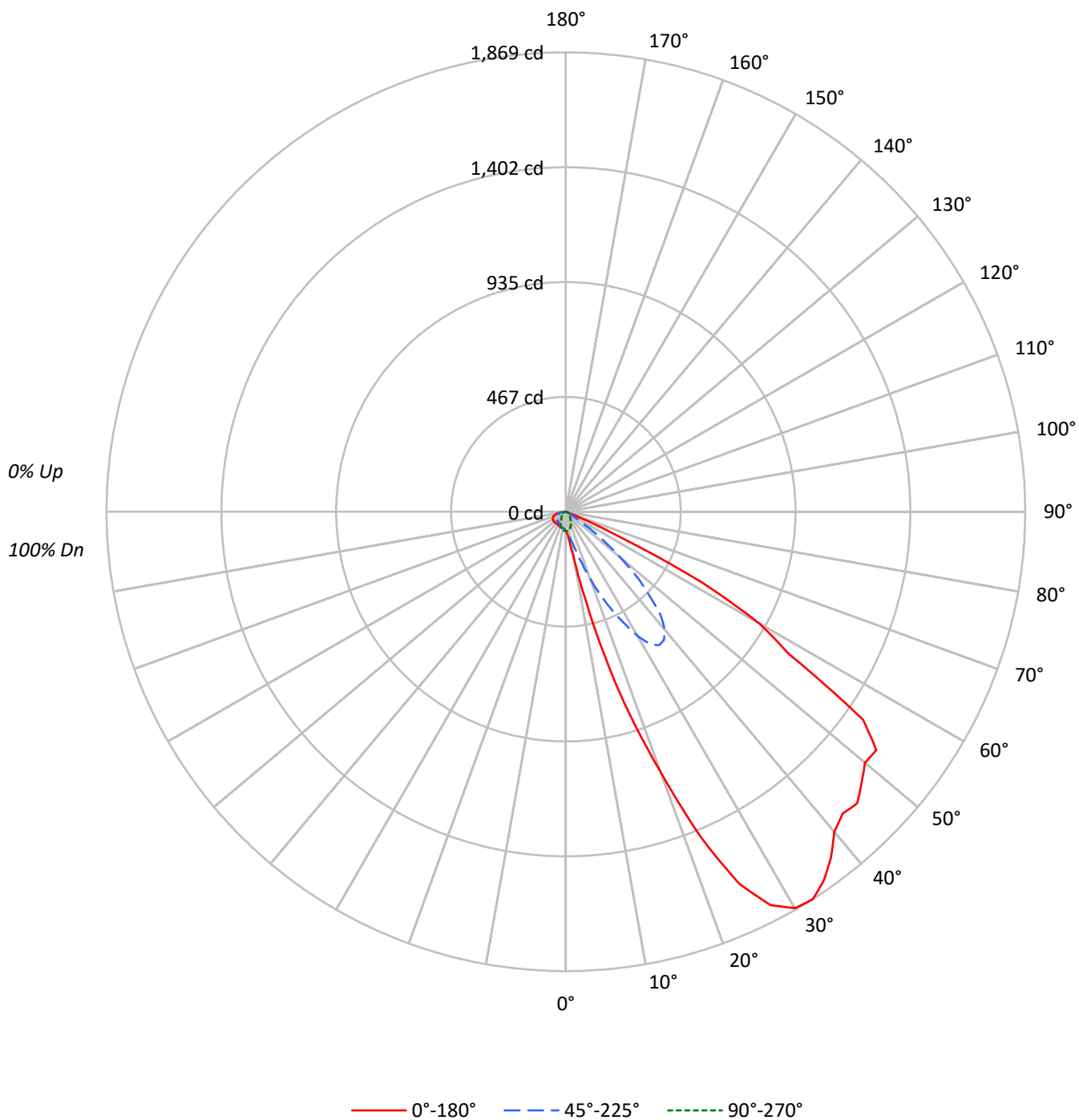
Lumens per Lamp: N/A
Luminaire Lumens: 1202.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	13347	13347	13347	13347	13347
5°	17081	15611	13398	12482	12119
10°	34731	19866	12994	11892	11892
15°	106604	30489	12124	11554	11928
20°	206130	53333	10905	11290	11876
25°	317250	82947	9482	10908	11915
30°	370447	115959	7815	10779	12250
35°	384959	139329	6476	10722	12720
40°	382038	140625	5980	11219	13849
45°	408449	116397	5699	12154	15003
50°	425689	76843	5680	13102	16799
55°	443245	33479	5735	14352	18496
60°	313135	7681	5856	15741	20839
65°	102123	2608	5624	16871	23391
70°	3223	2669	5891	18178	26738
75°	2795	2795	4924	19097	29678
80°	2083	3174	5256	18943	31638
85°	2174	4150	6323	18970	31419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 450387 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.2	0.7
10°-20°	51.0	4.2
20°-30°	171.1	14.2
30°-40°	281.0	23.4
40°-50°	313.4	26.1
50°-60°	263.8	21.9
60°-70°	89.5	7.4
70°-80°	17.5	1.5
80°-90°	6.6	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°	230.3	19.2
0°-40°	511.3	42.5
0°-60°	1088.5	90.6
0°-90°	1202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1202.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	78	78	78	78	78	
5°	99	90	78	72	70	12
15°	598	171	68	65	67	190
25°	1670	436	50	57	63	750
35°	1831	663	31	51	60	1137
45°	1677	478	23	50	62	1281
55°	1476	112	19	48	62	1202
65°	251	6	14	41	57	339
75°	4	4	7	29	45	4
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°	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
2.5°	85.0	85.0	85.0	85.0	85.0	85.0	83.9	80.7	78.6	75.4	74.3
5°	98.8	98.8	98.8	97.7	97.7	95.6	90.3	82.8	77.5	73.3	72.2
7.5°	127.4	126.4	124.3	123.2	120.0	118.9	99.8	85.0	76.5	71.2	70.1
10°	198.6	196.5	193.3	181.6	171.0	163.6	113.6	86.0	74.3	69.0	68.0
12.5°	357.9	353.7	337.7	313.3	283.6	268.7	135.9	87.1	71.2	66.9	66.9
15°	597.9	592.6	562.9	528.9	474.7	445.0	171.0	86.0	68.0	63.7	64.8
17.5°	863.4	848.6	817.8	773.2	699.9	664.8	223.0	83.9	63.7	61.6	63.7
20°	1124.7	1120.5	1069.5	1008.9	918.7	871.9	291.0	80.7	59.5	58.4	61.6
22.5°	1430.6	1412.5	1358.3	1293.6	1169.3	1107.7	364.3	76.5	55.2	55.2	59.5
25°	1669.5	1648.3	1605.8	1530.4	1412.5	1346.7	436.5	71.2	49.9	52.0	57.4
27.5°	1803.3	1778.9	1747.1	1682.3	1590.9	1532.5	508.7	64.8	44.6	48.9	55.2
30°	1862.8	1856.4	1833.1	1785.3	1701.4	1649.3	583.1	57.4	39.3	45.7	54.2
32.5°	1869.2	1872.4	1862.8	1832.0	1768.3	1723.7	638.3	51.0	35.0	43.5	52.0
35°	1831.0	1842.6	1849.0	1836.3	1794.8	1758.7	662.7	43.5	30.8	41.4	51.0
37.5°	1771.5	1792.7	1814.0	1817.1	1791.7	1768.3	656.3	37.2	28.7	40.4	51.0
40°	1699.3	1718.4	1761.9	1789.5	1781.0	1764.0	625.5	30.8	26.6	38.2	49.9
42.5°	1666.3	1670.6	1717.3	1764.0	1761.9	1748.1	571.4	24.4	24.4	38.2	49.9
45°	1677.0	1657.8	1688.6	1742.8	1739.6	1721.6	477.9	19.1	23.4	37.2	49.9
47.5°	1632.4	1605.8	1657.8	1721.6	1709.9	1683.3	395.1	13.8	22.3	36.1	48.9
50°	1588.8	1584.6	1624.9	1656.8	1640.9	1626.0	286.8	10.6	21.2	35.0	48.9
52.5°	1592.0	1584.6	1588.8	1587.7	1555.9	1540.0	196.5	8.5	20.2	34.0	48.9
55°	1476.2	1452.9	1430.6	1436.9	1439.1	1428.4	111.5	7.4	19.1	34.0	47.8
57.5°	1072.7	1066.3	1090.7	1159.7	1213.9	1220.3	54.2	7.4	18.1	32.9	46.7
60°	909.1	904.9	905.9	926.1	954.8	936.7	22.3	7.4	17.0	31.9	45.7
62.5°	626.6	668.0	685.0	731.7	712.6	687.1	8.5	8.5	15.9	29.7	44.6
65°	250.6	249.6	272.9	295.2	288.9	269.8	6.4	7.4	13.8	27.6	41.4
67.5°	58.4	53.1	45.7	39.3	32.9	26.6	6.4	7.4	12.7	25.5	39.3
70°	6.4	6.4	6.4	6.4	6.4	5.3	5.3	7.4	11.7	23.4	36.1
72.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	6.4	9.6	20.2	32.9
75°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.3	7.4	17.0	28.7
77.5°	3.2	3.2	3.2	4.2	3.2	4.2	4.2	5.3	6.4	13.8	24.4
80°	2.1	2.1	3.2	3.2	3.2	3.2	3.2	4.2	5.3	11.7	19.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	4.2	8.5	13.8
85°	1.1	1.1	1.1	1.1	1.1	2.1	2.1	3.2	3.2	6.4	9.6
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	3.2	3.2	4.2
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):

	157.5°	180°
0°	77.5	77.5
2.5°	73.3	73.3
5°	71.2	70.1
7.5°	69.0	69.0
10°	68.0	68.0
12.5°	66.9	68.0
15°	66.9	66.9
17.5°	64.8	65.8
20°	63.7	64.8
22.5°	62.7	63.7
25°	61.6	62.7
27.5°	60.5	61.6
30°	59.5	61.6
32.5°	58.4	60.5
35°	58.4	60.5
37.5°	58.4	61.6
40°	58.4	61.6
42.5°	58.4	61.6
45°	58.4	61.6
47.5°	58.4	61.6
50°	58.4	62.7
52.5°	58.4	62.7
55°	58.4	61.6
57.5°	57.4	61.6
60°	57.4	60.5
62.5°	56.3	59.5
65°	54.2	57.4
67.5°	52.0	56.3
70°	48.9	53.1
72.5°	45.7	48.9
75°	41.4	44.6
77.5°	36.1	38.2
80°	28.7	31.9
82.5°	22.3	24.4
85°	14.9	15.9
87.5°	6.4	7.4
90°	0.0	0.0

(END OF REPORT)