

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: P1306948

Luminaire Tested: P3SQAS13R559027DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306948
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: P3SQAS13R559027DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

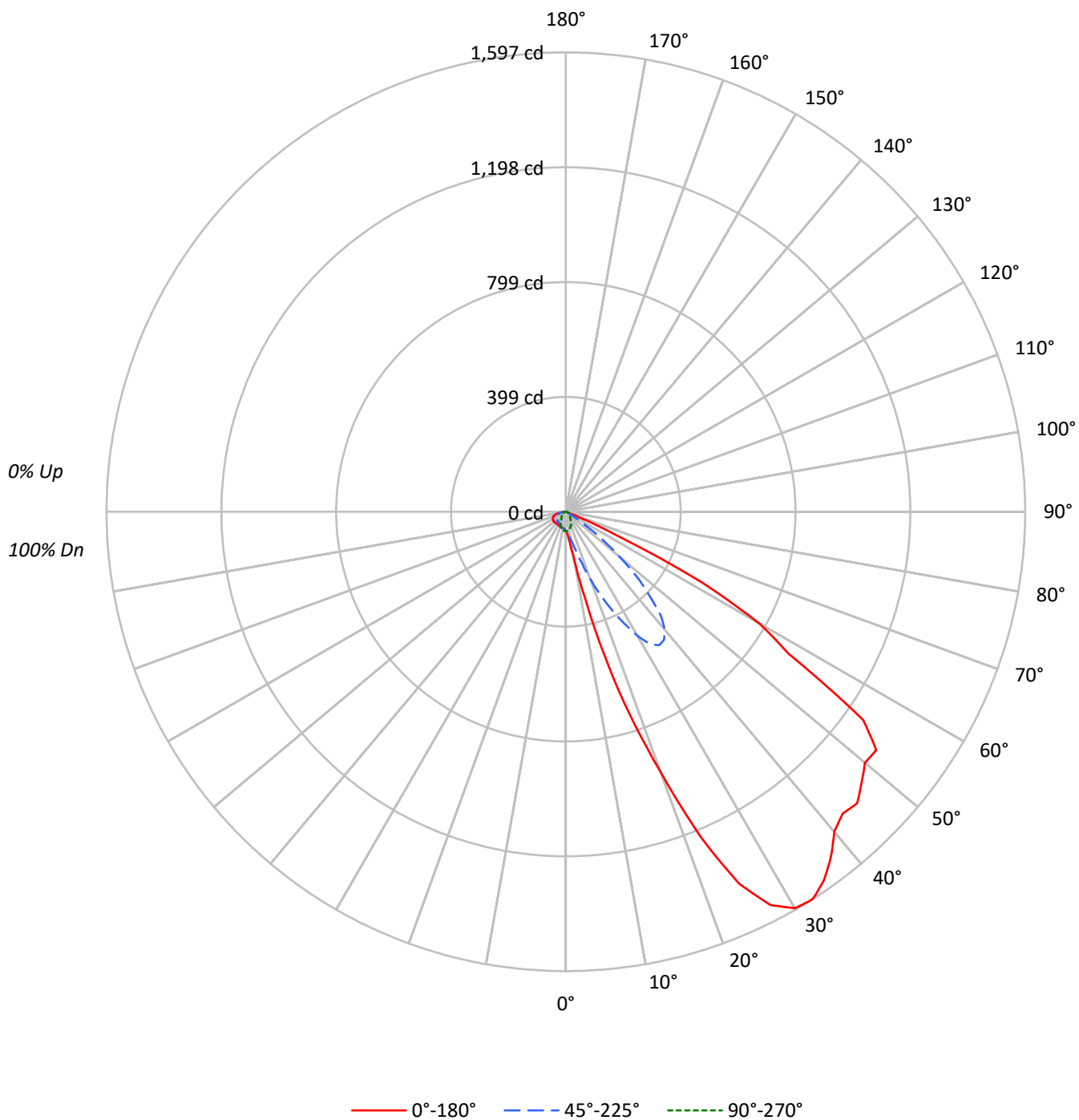
Lumens per Lamp: N/A
Luminaire Lumens: 1027.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	50	30	10
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°	11401	11401	11401	11401	11401
5°	14591	13329	11445	10667	10356
10°	29677	16981	11105	10160	10160
15°	91092	26049	10359	9878	10199
20°	176128	45562	9310	9640	10153
25°	271073	70861	8095	9311	10166
30°	316514	99075	6682	9207	10460
35°	328907	119041	5529	9167	10870
40°	326417	120167	5103	9577	11826
45°	348972	99445	4871	10376	12811
50°	363716	65643	4850	11173	14334
55°	378719	28615	4894	12251	15794
60°	267531	6579	4994	13433	17808
65°	87289	2201	4809	14426	19968
70°	2719	2266	5035	15560	22861
75°	2396	2396	4259	16303	25352
80°	1785	2678	4463	16166	26977
85°	1778	3557	5335	16203	26874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 384810 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.7
10°-20°	43.6	4.2
20°-30°	146.2	14.2
30°-40°	240.1	23.4
40°-50°	267.8	26.1
50°-60°	225.4	21.9
60°-70°	76.5	7.4
70°-80°	14.9	1.5
80°-90°	5.6	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°	196.8	19.2
0°-40°	436.9	42.5
0°-60°	930.0	90.6
0°-90°	1027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1027.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	66	66	66	66	66	
5°	84	77	66	62	60	11
15°	511	146	58	55	57	162
25°	1426	373	43	49	54	641
35°	1564	566	26	44	52	971
45°	1433	408	20	43	53	1094
55°	1261	95	16	41	53	1027
65°	214	5	12	35	49	290
75°	4	4	6	24	38	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°	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
2.5°	72.6	72.6	72.6	72.6	72.6	72.6	71.7	69.0	67.1	64.4	63.5
5°	84.4	84.4	84.4	83.5	83.5	81.7	77.1	70.8	66.2	62.6	61.7
7.5°	108.9	108.0	106.2	105.3	102.5	101.6	85.3	72.6	65.3	60.8	59.9
10°	169.7	167.9	165.1	155.2	146.1	139.7	97.1	73.5	63.5	59.0	58.1
12.5°	305.8	302.2	288.6	267.7	242.3	229.6	116.1	74.4	60.8	57.2	57.2
15°	510.9	506.3	480.9	451.9	405.6	380.2	146.1	73.5	58.1	54.4	55.4
17.5°	737.7	725.0	698.7	660.6	598.0	568.0	190.6	71.7	54.4	52.6	54.4
20°	961.0	957.3	913.8	862.0	784.9	745.0	248.6	69.0	50.8	49.9	52.6
22.5°	1222.3	1206.9	1160.6	1105.2	999.1	946.4	311.2	65.3	47.2	47.2	50.8
25°	1426.5	1408.3	1372.0	1307.6	1206.9	1150.6	372.9	60.8	42.6	44.5	49.0
27.5°	1540.8	1519.9	1492.7	1437.3	1359.3	1309.4	434.7	55.4	38.1	41.7	47.2
30°	1591.6	1586.2	1566.2	1525.4	1453.7	1409.2	498.2	49.0	33.6	39.0	46.3
32.5°	1597.1	1599.8	1591.6	1565.3	1510.8	1472.7	545.4	43.6	29.9	37.2	44.5
35°	1564.4	1574.4	1579.8	1568.9	1533.5	1502.7	566.2	37.2	26.3	35.4	43.6
37.5°	1513.6	1531.7	1549.9	1552.6	1530.8	1510.8	560.8	31.8	24.5	34.5	43.6
40°	1451.9	1468.2	1505.4	1529.0	1521.7	1507.2	534.5	26.3	22.7	32.7	42.6
42.5°	1423.7	1427.4	1467.3	1507.2	1505.4	1493.6	488.2	20.9	20.9	32.7	42.6
45°	1432.8	1416.5	1442.8	1489.1	1486.3	1470.9	408.3	16.3	20.0	31.8	42.6
47.5°	1394.7	1372.0	1416.5	1470.9	1460.9	1438.3	337.6	11.8	19.1	30.9	41.7
50°	1357.5	1353.9	1388.3	1415.6	1402.0	1389.3	245.0	9.1	18.1	29.9	41.7
52.5°	1360.2	1353.9	1357.5	1356.6	1329.4	1315.8	167.9	7.3	17.2	29.0	41.7
55°	1261.3	1241.3	1222.3	1227.7	1229.5	1220.5	95.3	6.4	16.3	29.0	40.8
57.5°	916.5	911.0	931.9	990.9	1037.2	1042.6	46.3	6.4	15.4	28.1	39.9
60°	776.7	773.1	774.0	791.3	815.8	800.3	19.1	6.4	14.5	27.2	39.0
62.5°	535.4	570.8	585.3	625.2	608.9	587.1	7.3	7.3	13.6	25.4	38.1
65°	214.2	213.2	233.2	252.3	246.8	230.5	5.4	6.4	11.8	23.6	35.4
67.5°	49.9	45.4	39.0	33.6	28.1	22.7	5.4	6.4	10.9	21.8	33.6
70°	5.4	5.4	5.4	5.4	5.4	4.5	4.5	6.4	10.0	20.0	30.9
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.4	8.2	17.2	28.1
75°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.5	6.4	14.5	24.5
77.5°	2.7	2.7	2.7	3.6	2.7	3.6	3.6	4.5	5.4	11.8	20.9
80°	1.8	1.8	2.7	2.7	2.7	2.7	2.7	3.6	4.5	10.0	16.3
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	3.6	7.3	11.8
85°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.7	2.7	5.4	8.2
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.7	2.7	3.6
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°	66.2	66.2
2.5°	62.6	62.6
5°	60.8	59.9
7.5°	59.0	59.0
10°	58.1	58.1
12.5°	57.2	58.1
15°	57.2	57.2
17.5°	55.4	56.3
20°	54.4	55.4
22.5°	53.5	54.4
25°	52.6	53.5
27.5°	51.7	52.6
30°	50.8	52.6
32.5°	49.9	51.7
35°	49.9	51.7
37.5°	49.9	52.6
40°	49.9	52.6
42.5°	49.9	52.6
45°	49.9	52.6
47.5°	49.9	52.6
50°	49.9	53.5
52.5°	49.9	53.5
55°	49.9	52.6
57.5°	49.0	52.6
60°	49.0	51.7
62.5°	48.1	50.8
65°	46.3	49.0
67.5°	44.5	48.1
70°	41.7	45.4
72.5°	39.0	41.7
75°	35.4	38.1
77.5°	30.9	32.7
80°	24.5	27.2
82.5°	19.1	20.9
85°	12.7	13.6
87.5°	5.4	6.4
90°	0.0	0.0

(END OF REPORT)