

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: P1313469

Luminaire Tested: P3SQAS13R559730DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313469
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: P3SQAS13R559730DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

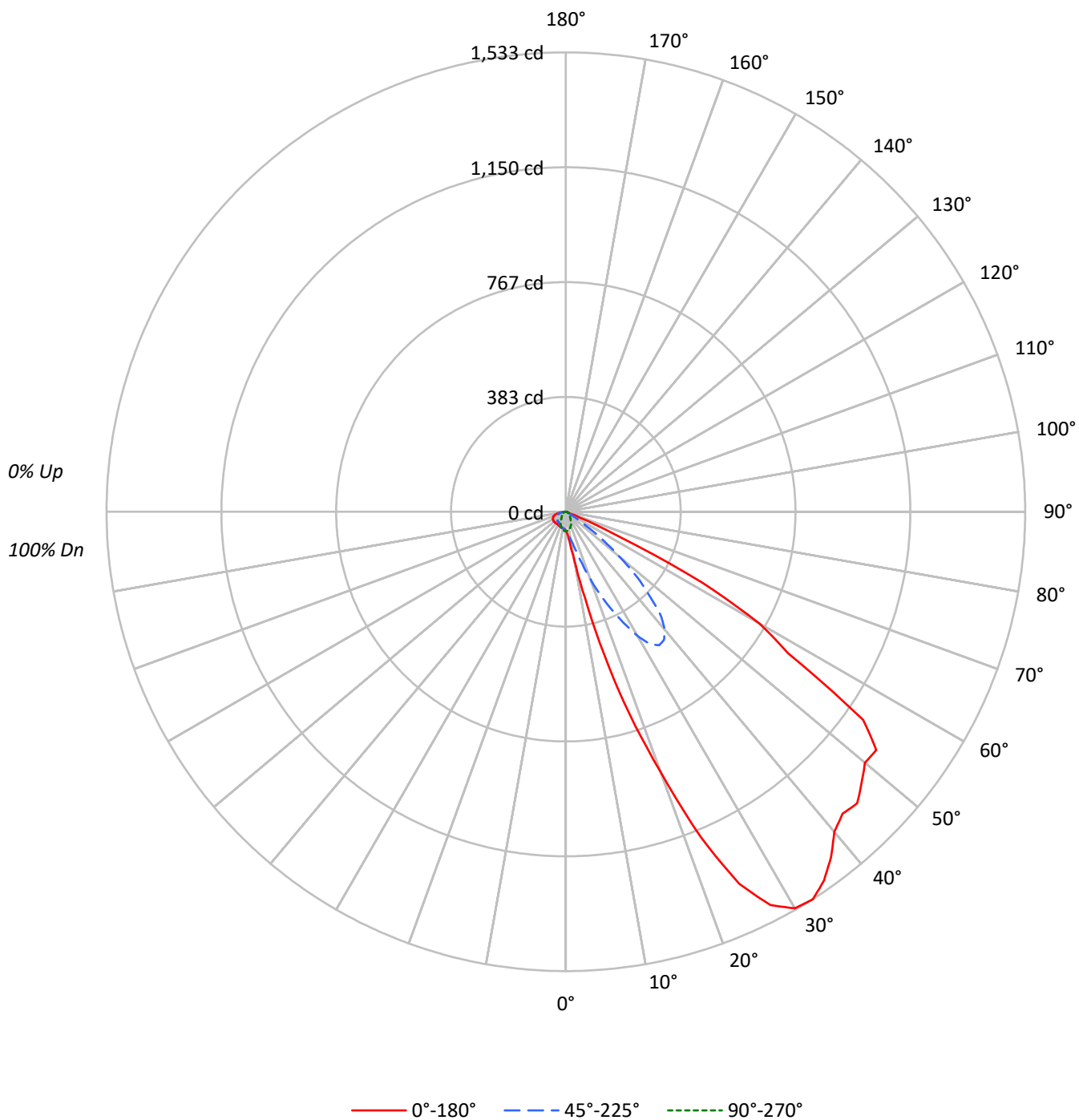
Lumens per Lamp: N/A
Luminaire Lumens: 986.0 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.9 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	10953	10953	10953	10953	10953
5°	14003	12810	10995	10235	9941
10°	28488	16299	10668	9758	9758
15°	87455	25015	9949	9468	9789
20°	169090	43748	8944	9255	9732
25°	260242	68049	7772	8931	9767
30°	303886	95117	6403	8830	10043
35°	315767	114289	5319	8788	10449
40°	313378	115355	4901	9195	11353
45°	335041	95475	4676	9962	12300
50°	349194	63017	4662	10744	13772
55°	363616	27474	4714	11770	15163
60°	256853	6303	4788	12917	17119
65°	83785	2119	4605	13855	19153
70°	2618	2216	4834	14905	21955
75°	2329	2329	4059	15637	24354
80°	1686	2579	4364	15571	25886
85°	1778	3359	5138	15413	25886

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 369448 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.7
10°-20°	41.9	4.2
20°-30°	140.3	14.2
30°-40°	230.5	23.4
40°-50°	257.1	26.1
50°-60°	216.4	21.9
60°-70°	73.4	7.4
70°-80°	14.4	1.5
80°-90°	5.4	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°	188.9	19.2
0°-40°	419.4	42.5
0°-60°	892.8	90.6
0°-90°	986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	986.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	64	64	64	64	64	
5°	81	74	64	59	58	10
15°	490	140	56	53	55	156
25°	1370	358	41	47	51	615
35°	1502	544	25	42	50	933
45°	1376	392	19	41	50	1051
55°	1211	92	16	39	50	986
65°	206	5	11	34	47	278
75°	4	4	6	24	37	4
85°	1	2	3	8	13	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°	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
2.5°	69.7	69.7	69.7	69.7	69.7	69.7	68.8	66.2	64.5	61.9	61.0
5°	81.0	81.0	81.0	80.1	80.1	78.4	74.1	68.0	63.6	60.1	59.2
7.5°	104.5	103.7	101.9	101.1	98.4	97.6	81.9	69.7	62.7	58.4	57.5
10°	162.9	161.2	158.6	149.0	140.3	134.2	93.2	70.6	61.0	56.6	55.8
12.5°	293.6	290.1	277.0	257.0	232.6	220.4	111.5	71.4	58.4	54.9	54.9
15°	490.5	486.1	461.7	433.9	389.4	365.0	140.3	70.6	55.8	52.3	53.1
17.5°	708.3	696.1	670.8	634.2	574.1	545.4	182.9	68.8	52.3	50.5	52.3
20°	922.6	919.1	877.3	827.6	753.6	715.2	238.7	66.2	48.8	47.9	50.5
22.5°	1173.5	1158.7	1114.3	1061.1	959.2	908.7	298.8	62.7	45.3	45.3	48.8
25°	1369.5	1352.1	1317.2	1255.4	1158.7	1104.7	358.1	58.4	40.9	42.7	47.0
27.5°	1479.3	1459.2	1433.1	1380.0	1305.0	1257.1	417.3	53.1	36.6	40.1	45.3
30°	1528.1	1522.8	1503.7	1464.5	1395.6	1353.0	478.3	47.0	32.2	37.5	44.4
32.5°	1533.3	1535.9	1528.1	1502.8	1450.5	1413.9	523.6	41.8	28.7	35.7	42.7
35°	1501.9	1511.5	1516.7	1506.3	1472.3	1442.7	543.6	35.7	25.3	34.0	41.8
37.5°	1453.1	1470.6	1488.0	1490.6	1469.7	1450.5	538.4	30.5	23.5	33.1	41.8
40°	1393.9	1409.6	1445.3	1468.0	1461.0	1447.0	513.1	25.3	21.8	31.4	40.9
42.5°	1366.9	1370.4	1408.7	1447.0	1445.3	1434.0	468.7	20.0	20.0	31.4	40.9
45°	1375.6	1359.9	1385.2	1429.6	1427.0	1412.2	392.0	15.7	19.2	30.5	40.9
47.5°	1339.0	1317.2	1359.9	1412.2	1402.6	1380.8	324.1	11.3	18.3	29.6	40.1
50°	1303.3	1299.8	1332.9	1359.1	1346.0	1333.8	235.2	8.7	17.4	28.7	40.1
52.5°	1305.9	1299.8	1303.3	1302.4	1276.3	1263.2	161.2	7.0	16.6	27.9	40.1
55°	1211.0	1191.8	1173.5	1178.7	1180.5	1171.8	91.5	6.1	15.7	27.9	39.2
57.5°	879.9	874.7	894.7	951.3	995.8	1001.0	44.4	6.1	14.8	27.0	38.3
60°	745.7	742.3	743.1	759.7	783.2	768.4	18.3	6.1	13.9	26.1	37.5
62.5°	514.0	548.0	561.9	600.2	584.6	563.7	7.0	7.0	13.1	24.4	36.6
65°	205.6	204.7	223.9	242.2	237.0	221.3	5.2	6.1	11.3	22.7	34.0
67.5°	47.9	43.6	37.5	32.2	27.0	21.8	5.2	6.1	10.5	20.9	32.2
70°	5.2	5.2	5.2	5.2	5.2	4.4	4.4	6.1	9.6	19.2	29.6
72.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.2	7.8	16.6	27.0
75°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.4	6.1	13.9	23.5
77.5°	2.6	2.6	2.6	3.5	2.6	3.5	3.5	4.4	5.2	11.3	20.0
80°	1.7	1.7	2.6	2.6	2.6	2.6	2.6	3.5	4.4	9.6	15.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	2.6	2.6	3.5	7.0	11.3
85°	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6	2.6	5.2	7.8
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6	2.6	3.5
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°	63.6	63.6
2.5°	60.1	60.1
5°	58.4	57.5
7.5°	56.6	56.6
10°	55.8	55.8
12.5°	54.9	55.8
15°	54.9	54.9
17.5°	53.1	54.0
20°	52.3	53.1
22.5°	51.4	52.3
25°	50.5	51.4
27.5°	49.7	50.5
30°	48.8	50.5
32.5°	47.9	49.7
35°	47.9	49.7
37.5°	47.9	50.5
40°	47.9	50.5
42.5°	47.9	50.5
45°	47.9	50.5
47.5°	47.9	50.5
50°	47.9	51.4
52.5°	47.9	51.4
55°	47.9	50.5
57.5°	47.0	50.5
60°	47.0	49.7
62.5°	46.2	48.8
65°	44.4	47.0
67.5°	42.7	46.2
70°	40.1	43.6
72.5°	37.5	40.1
75°	34.0	36.6
77.5°	29.6	31.4
80°	23.5	26.1
82.5°	18.3	20.0
85°	12.2	13.1
87.5°	5.2	6.1
90°	0.0	0.0

(END OF REPORT)