

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: P1312659

Luminaire Tested: P3SQAS17R659727DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R659727DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

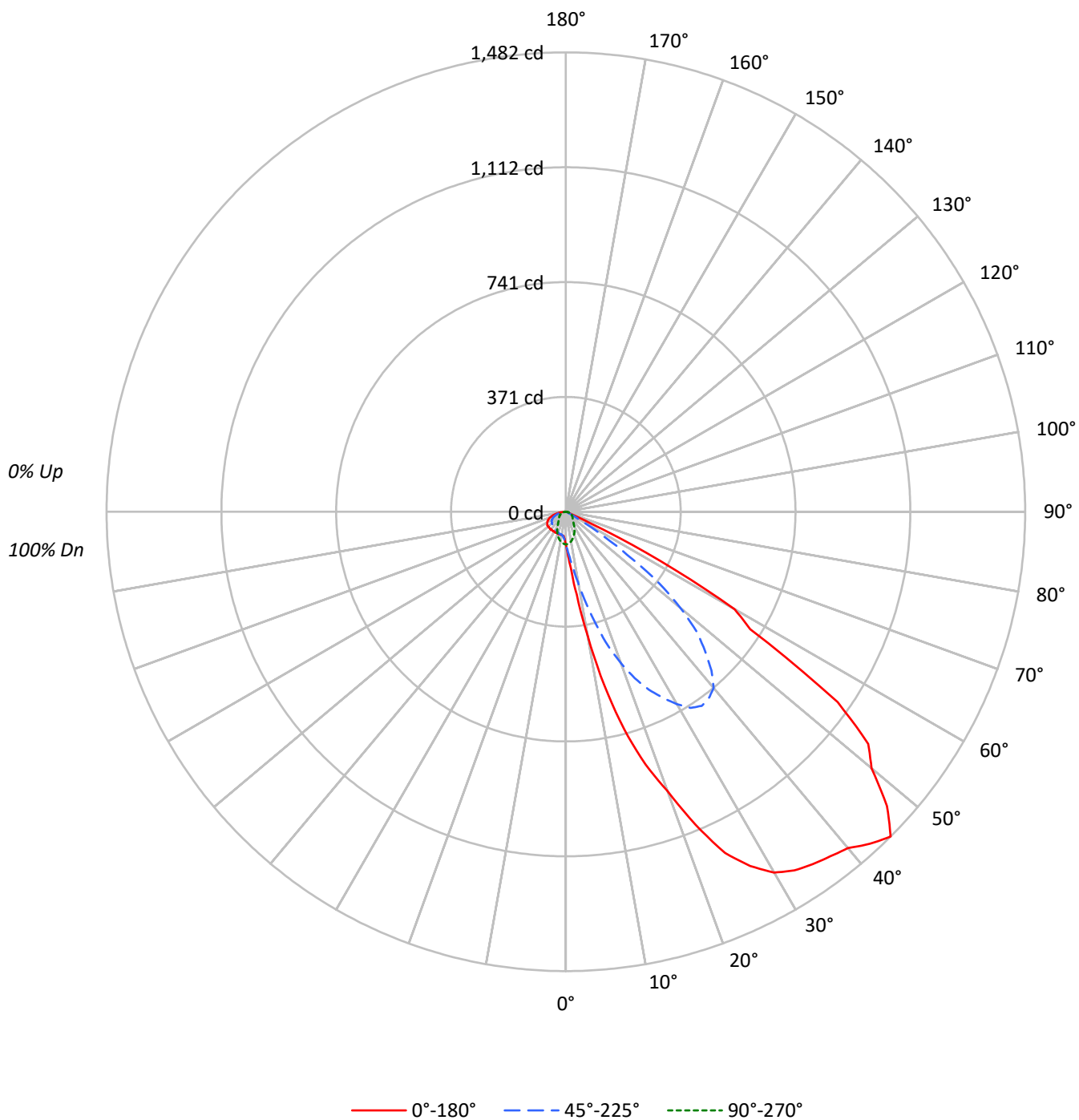
Lumens per Lamp: N/A
Luminaire Lumens: 1075.0 lumens
Efficiency: N/A
Efficacy: 50.7 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	18014	18014	18014	18014	18014
5°	31499	25707	17703	14349	13796
10°	71246	41464	16963	13203	13378
15°	129533	66683	15762	13265	13640
20°	175615	95212	14222	13232	13837
25°	230844	120230	12485	12903	14138
30°	267295	142547	10719	12867	14796
35°	291883	160669	9062	13140	15642
40°	318414	166727	8004	13804	16727
45°	360980	154636	7623	14711	18121
50°	344827	129089	7502	15594	19934
55°	321369	72483	7777	16815	22009
60°	216449	15603	7784	17808	23767
65°	33375	3953	7457	18460	25918
70°	3777	3777	7050	18984	27695
75°	3593	3593	6455	18632	27948
80°	3174	4265	6447	17059	27770
85°	2174	4347	6323	16994	25491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 360980 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.7	1.2
10°-20°	68.4	6.4
20°-30°	160.6	14.9
30°-40°	242.6	22.6
40°-50°	278.9	25.9
50°-60°	221.4	20.6
60°-70°	66.3	6.2
70°-80°	18.0	1.7
80°-90°	6.1	0.6
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°	241.6	22.5
0°-40°	484.3	45.0
0°-60°	984.6	91.6
0°-90°	1075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1075.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	105	105	105	105	105	
5°	182	149	102	83	80	24
15°	726	374	88	74	76	209
25°	1215	633	66	68	74	554
35°	1388	764	43	62	74	871
45°	1482	635	31	60	74	1101
55°	1070	241	26	56	73	882
65°	82	10	18	45	64	184
75°	5	5	10	28	42	6
85°	1	2	3	9	13	2
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°	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6
2.5°	132.6	133.7	132.6	132.6	131.5	130.4	122.9	114.3	104.6	97.0	91.6
5°	182.2	183.2	180.0	180.0	177.8	174.6	148.7	124.0	102.4	90.5	83.0
7.5°	269.5	273.8	268.4	261.9	250.1	247.9	185.4	133.7	100.2	84.1	77.6
10°	407.4	404.2	398.8	385.9	365.4	355.7	237.1	143.4	97.0	79.8	75.5
12.5°	574.5	565.9	559.4	535.7	507.7	491.5	301.8	152.0	92.7	75.5	74.4
15°	726.5	720.0	704.9	682.3	647.8	634.9	374.0	157.4	88.4	72.2	74.4
17.5°	854.7	848.3	839.7	817.0	781.5	762.1	454.9	160.6	83.0	70.1	73.3
20°	958.2	953.9	942.1	923.7	888.2	869.8	519.5	160.6	77.6	67.9	72.2
22.5°	1091.9	1082.2	1067.1	1040.1	995.9	967.9	581.0	157.4	72.2	65.7	70.1
25°	1214.8	1208.3	1188.9	1156.5	1109.1	1081.1	632.7	150.9	65.7	62.5	67.9
27.5°	1288.0	1283.7	1265.4	1232.0	1179.2	1157.6	675.8	141.2	59.3	59.3	66.8
30°	1344.1	1335.5	1317.2	1284.8	1230.9	1205.1	716.8	129.3	53.9	56.0	64.7
32.5°	1372.1	1368.9	1352.7	1324.7	1271.9	1242.8	750.2	114.3	47.4	53.9	63.6
35°	1388.3	1385.1	1372.1	1345.2	1295.6	1267.6	764.2	100.2	43.1	51.7	62.5
37.5°	1401.2	1398.0	1381.8	1354.9	1305.3	1276.2	757.7	85.2	38.8	49.6	61.4
40°	1416.3	1404.5	1379.7	1352.7	1307.5	1279.4	741.6	71.1	35.6	48.5	61.4
42.5°	1453.0	1412.0	1373.2	1348.4	1305.3	1273.0	695.2	56.0	32.3	46.3	60.4
45°	1482.1	1409.8	1360.3	1340.9	1296.7	1260.0	634.9	41.0	31.3	45.3	60.4
47.5°	1405.5	1361.3	1338.7	1327.9	1280.5	1240.6	572.3	28.0	30.2	44.2	59.3
50°	1287.0	1281.6	1273.0	1274.0	1230.9	1198.6	481.8	19.4	28.0	43.1	58.2
52.5°	1229.8	1223.4	1208.3	1197.5	1154.4	1126.4	381.6	15.1	26.9	42.0	57.1
55°	1070.3	1074.6	1058.5	1064.9	1052.0	1038.0	241.4	14.0	25.9	39.9	56.0
57.5°	704.9	726.5	764.2	809.5	850.4	878.5	130.4	14.0	23.7	38.8	53.9
60°	628.4	623.0	621.9	630.6	648.9	664.0	45.3	12.9	22.6	35.6	51.7
62.5°	343.8	341.7	374.0	429.0	461.3	464.6	12.9	12.9	20.5	33.4	48.5
65°	81.9	85.2	94.9	118.6	140.1	154.1	9.7	11.9	18.3	31.3	45.3
67.5°	12.9	14.0	14.0	17.2	19.4	19.4	8.6	10.8	16.2	28.0	42.0
70°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	9.7	14.0	24.8	37.7
72.5°	6.5	6.5	6.5	6.5	6.5	6.5	7.5	8.6	11.9	21.6	32.3
75°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	7.5	9.7	17.2	28.0
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	5.4	6.5	8.6	14.0	22.6
80°	3.2	3.2	3.2	3.2	3.2	3.2	4.3	5.4	6.5	10.8	17.2
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	3.2	4.3	5.4	8.6	12.9
85°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	3.2	3.2	5.4	8.6
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	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°	104.6	104.6
2.5°	88.4	87.3
5°	79.8	79.8
7.5°	76.5	76.5
10°	75.5	76.5
12.5°	75.5	76.5
15°	75.5	76.5
17.5°	75.5	76.5
20°	74.4	75.5
22.5°	73.3	74.4
25°	72.2	74.4
27.5°	71.1	74.4
30°	71.1	74.4
32.5°	71.1	74.4
35°	70.1	74.4
37.5°	70.1	74.4
40°	70.1	74.4
42.5°	70.1	74.4
45°	70.1	74.4
47.5°	70.1	74.4
50°	70.1	74.4
52.5°	69.0	74.4
55°	69.0	73.3
57.5°	66.8	71.1
60°	64.7	69.0
62.5°	62.5	66.8
65°	59.3	63.6
67.5°	56.0	59.3
70°	50.7	55.0
72.5°	45.3	48.5
75°	38.8	42.0
77.5°	32.3	35.6
80°	25.9	28.0
82.5°	18.3	20.5
85°	11.9	12.9
87.5°	5.4	5.4
90°	0.0	0.0

(END OF REPORT)