

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: P1306959

Luminaire Tested: P3SQAS13R609027DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R609027DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

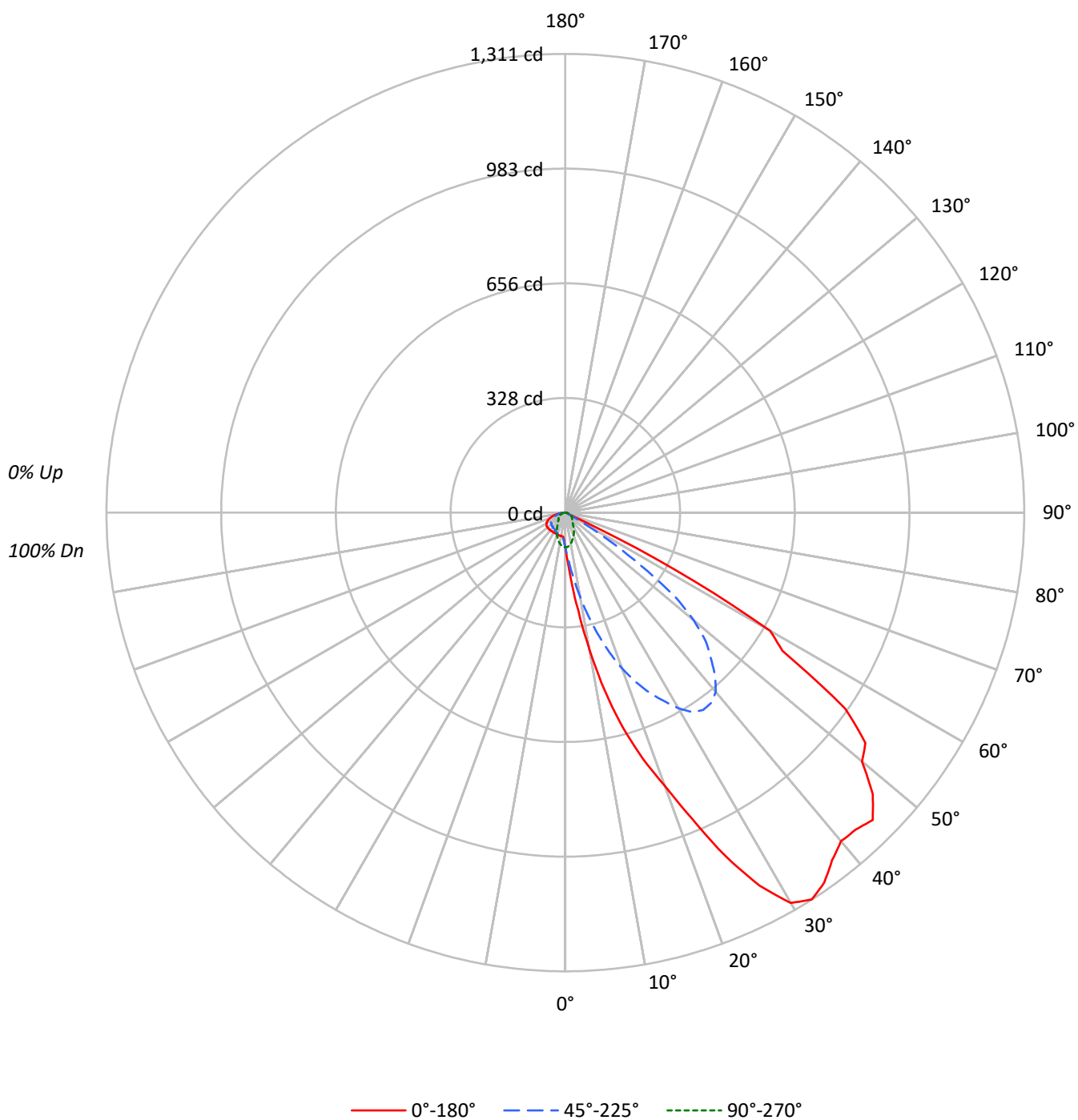
Lumens per Lamp: N/A
Luminaire Lumens: 998.0 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17033	17033	17033	17033	17033
5°	33556	26191	16787	12707	12084
10°	69322	42671	15704	11577	11734
15°	113380	64045	14068	11643	11964
20°	152137	86799	12628	11638	12133
25°	205837	107745	11041	11554	12580
30°	256179	128268	9207	11554	13165
35°	271216	144586	7821	11816	13729
40°	275540	150315	7149	12230	14883
45°	302501	143189	6844	13030	16124
50°	296546	128339	6805	13852	17737
55°	293085	78728	6816	14983	19607
60°	232501	18738	7199	15948	21252
65°	14793	3342	7009	16260	22902
70°	3223	3676	6848	16919	24221
75°	2994	3593	6055	16303	24754
80°	2678	3570	6347	16166	23406
85°	1778	3557	7114	14425	23317

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 319288 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.3	1.2
10°-20°	62.2	6.2
20°-30°	144.3	14.5
30°-40°	224.3	22.5
40°-50°	255.6	25.6
50°-60°	215.3	21.6
60°-70°	62.5	6.3
70°-80°	16.0	1.6
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°	218.9	21.9
0°-40°	443.2	44.4
0°-60°	914.1	91.6
0°-90°	998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	998.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	99	99	99	99	99	
5°	194	152	97	74	70	25
15°	636	359	79	65	67	184
25°	1083	567	58	61	66	503
35°	1290	688	37	56	65	801
45°	1242	588	28	54	66	934
55°	976	262	23	50	65	821
65°	36	8	17	40	56	179
75°	4	5	9	24	37	5
85°	1	2	4	7	12	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
2.5°	133.4	132.5	132.5	131.5	130.6	129.7	127.0	126.1	120.7	109.8	98.9
5°	194.1	193.2	190.5	189.6	185.1	178.7	172.4	166.0	151.5	120.7	97.1
7.5°	281.2	283.0	281.2	271.3	264.9	254.9	235.9	222.3	193.2	131.5	93.4
10°	396.4	396.4	393.7	378.3	364.7	345.6	321.1	297.6	244.0	141.5	89.8
12.5°	521.6	524.4	510.8	498.1	473.6	450.0	416.4	381.0	302.1	149.7	85.3
15°	635.9	634.1	620.5	604.2	578.8	546.1	510.8	465.4	359.2	155.1	78.9
17.5°	737.5	733.9	722.1	704.0	673.1	636.9	591.5	542.5	418.2	159.7	74.4
20°	830.1	817.4	803.8	784.7	754.8	716.7	669.5	614.2	473.6	159.7	68.9
22.5°	947.1	934.4	915.4	886.3	846.4	799.2	743.9	681.3	522.5	156.0	63.5
25°	1083.2	1073.2	1040.6	1003.4	951.6	895.4	831.0	746.6	567.0	150.6	58.1
27.5°	1202.0	1191.1	1158.5	1104.1	1041.5	974.3	906.3	820.1	606.0	140.6	51.7
30°	1288.2	1274.6	1249.2	1197.5	1121.3	1039.6	958.9	876.4	645.0	128.8	46.3
32.5°	1310.9	1309.1	1290.0	1251.9	1183.9	1094.1	997.9	908.1	675.9	113.4	41.7
35°	1290.0	1292.8	1289.1	1270.1	1220.2	1132.2	1023.3	925.3	687.7	98.0	37.2
37.5°	1251.9	1255.6	1261.9	1264.6	1232.9	1154.9	1037.8	932.6	684.9	82.6	34.5
40°	1225.6	1223.8	1223.8	1242.0	1235.6	1164.8	1039.6	927.2	668.6	66.2	31.8
42.5°	1228.3	1208.4	1194.8	1223.8	1232.9	1160.3	1027.9	912.6	633.2	50.8	29.0
45°	1242.0	1199.3	1175.7	1212.9	1227.4	1144.9	1006.1	890.9	587.9	35.4	28.1
47.5°	1191.1	1163.0	1159.4	1212.0	1217.5	1118.6	972.5	856.4	544.3	24.5	26.3
50°	1106.8	1102.2	1121.3	1175.7	1176.6	1075.0	934.4	793.8	479.0	17.2	25.4
52.5°	1080.5	1083.2	1100.4	1128.6	1102.2	1001.5	865.5	741.2	396.4	13.6	24.5
55°	976.1	980.7	997.0	1014.2	995.2	911.7	782.0	677.7	262.2	12.7	22.7
57.5°	734.8	746.6	776.6	792.0	793.8	743.0	708.5	584.2	147.9	12.7	21.8
60°	675.0	659.5	645.9	614.2	585.1	578.8	582.4	438.2	54.4	11.8	20.9
62.5°	352.9	345.6	366.5	380.1	383.7	403.7	377.4	231.3	11.8	11.8	19.1
65°	36.3	36.3	44.5	59.0	98.0	130.6	124.3	67.1	8.2	10.9	17.2
67.5°	10.9	10.9	10.9	12.7	16.3	16.3	13.6	10.0	8.2	10.0	15.4
70°	6.4	6.4	6.4	6.4	6.4	6.4	7.3	6.4	7.3	9.1	13.6
72.5°	5.4	5.4	5.4	5.4	6.4	6.4	6.4	6.4	6.4	8.2	11.8
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.4	5.4	6.4	9.1
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	4.5	4.5	4.5	5.4	7.3
80°	2.7	2.7	2.7	2.7	2.7	3.6	3.6	3.6	3.6	4.5	6.4
82.5°	1.8	1.8	1.8	1.8	2.7	2.7	2.7	2.7	2.7	3.6	4.5
85°	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.6
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.7
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):

	112.5°	135°	157.5°	180°
0°	98.9	98.9	98.9	98.9
2.5°	89.8	83.5	79.8	78.0
5°	81.6	73.5	70.8	69.9
7.5°	74.4	68.9	68.0	68.0
10°	69.9	66.2	67.1	67.1
12.5°	67.1	66.2	67.1	68.0
15°	64.4	65.3	67.1	67.1
17.5°	62.6	64.4	66.2	67.1
20°	59.9	63.5	66.2	66.2
22.5°	58.1	62.6	65.3	66.2
25°	56.2	60.8	64.4	66.2
27.5°	53.5	59.9	64.4	65.3
30°	50.8	58.1	63.5	66.2
32.5°	48.1	57.2	63.5	65.3
35°	46.3	56.2	63.5	65.3
37.5°	44.5	55.3	63.5	66.2
40°	43.5	54.4	62.6	66.2
42.5°	41.7	54.4	62.6	66.2
45°	40.8	53.5	62.6	66.2
47.5°	39.9	52.6	62.6	66.2
50°	38.1	51.7	61.7	66.2
52.5°	37.2	50.8	61.7	66.2
55°	35.4	49.9	60.8	65.3
57.5°	34.5	48.1	59.9	63.5
60°	32.7	46.3	58.1	61.7
62.5°	29.9	43.5	55.3	59.9
65°	27.2	39.9	52.6	56.2
67.5°	24.5	37.2	49.0	52.6
70°	21.8	33.6	44.5	48.1
72.5°	19.1	29.0	39.9	42.6
75°	16.3	24.5	33.6	37.2
77.5°	12.7	20.0	28.1	30.8
80°	10.0	16.3	21.8	23.6
82.5°	8.2	11.8	16.3	17.2
85°	5.4	7.3	10.0	11.8
87.5°	2.7	3.6	4.5	5.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)