

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: P1312318

Luminaire Tested: P3SQAS09R509727DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R509727DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

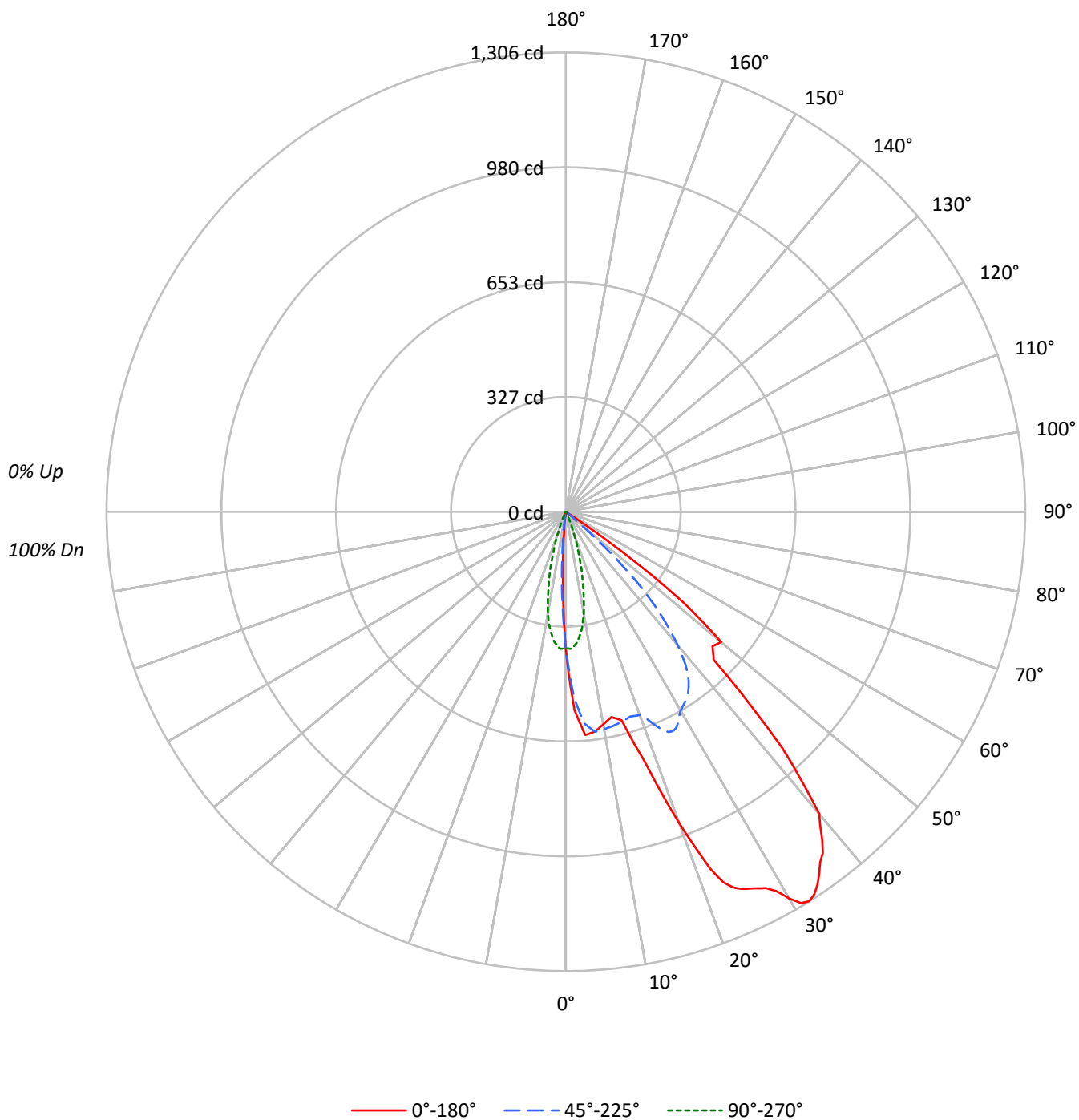
Lumens per Lamp: N/A
Luminaire Lumens: 625.0 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82		
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74		
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44		
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	66840	66840	66840	66840	66840
5°	110108	104506	64225	19069	9543
10°	107306	109667	51467	962	1294
15°	109404	110063	30828	981	321
20°	172462	112696	12701	0	0
25°	224840	131289	3021	0	0
30°	252360	129839	119	0	0
35°	264089	127850	0	0	0
40°	251934	111084	0	0	0
45°	144674	73311	0	0	0
50°	154409	8386	0	0	0
55°	43988	0	0	0	0
60°	0	0	207	0	0
65°	0	245	245	0	0
70°	0	302	302	0	0
75°	0	399	399	0	0
80°	0	595	1190	595	0
85°	0	1186	2371	1186	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 159751 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	5.2
10°-20°	82.1	13.1
20°-30°	157.7	25.2
30°-40°	183.6	29.4
40°-50°	131.4	21.0
50°-60°	36.6	5.9
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.4	0.1
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°	272.4	43.6
0°-40°	456.0	73.0
0°-60°	623.9	99.8
0°-90°	625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	625.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	388	388	388	388	388	
5°	637	604	372	110	55	58
15°	614	617	173	6	2	198
25°	1183	691	16	0	0	538
35°	1256	608	0	0	0	777
45°	594	301	0	0	0	559
55°	146	0	0	0	0	184
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	0
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°	388.1	388.1	388.1	388.1	388.1	388.1	388.1	388.1	388.1	388.1	388.1
2.5°	564.0	567.1	567.7	560.3	561.5	551.1	551.7	544.4	526.6	464.7	389.9
5°	636.9	635.1	636.9	634.5	636.9	630.8	627.1	624.1	604.5	516.8	371.5
7.5°	630.2	627.7	631.4	632.7	636.9	635.1	635.7	637.6	630.8	545.0	340.2
10°	613.6	613.0	614.9	614.9	619.8	620.4	622.8	626.5	627.1	554.8	294.3
12.5°	597.7	595.9	595.9	595.3	597.7	597.1	603.2	611.8	623.5	548.7	231.1
15°	613.6	611.8	609.4	602.6	597.7	592.2	592.8	598.3	617.3	532.7	172.9
17.5°	742.4	732.6	720.3	698.9	676.2	636.9	613.6	598.9	610.0	508.2	115.3
20°	941.0	936.7	917.1	882.2	845.4	787.8	716.0	658.4	614.9	477.6	69.3
21°	1016.4	1014.0	993.1	960.6	918.9	849.1	775.5	706.2	624.7	464.7	54.6
22°	1093.7	1084.5	1067.9	1031.7	988.2	918.3	836.2	759.6	644.3	448.1	41.7
23°	1143.3	1137.8	1120.0	1091.2	1049.5	981.5	897.5	814.1	663.3	429.7	31.3
24°	1169.1	1167.2	1153.1	1132.9	1097.3	1028.1	948.4	862.5	679.2	408.3	22.7
25°	1183.2	1177.0	1168.4	1153.7	1126.8	1066.7	995.6	904.8	690.9	386.8	15.9
26°	1191.7	1188.1	1174.6	1161.7	1136.0	1086.9	1026.2	930.6	694.0	360.5	11.0
27°	1201.5	1193.0	1180.1	1164.8	1136.0	1093.0	1037.9	941.6	690.3	333.5	7.4
28°	1212.0	1205.8	1188.1	1168.4	1134.1	1093.0	1033.6	926.9	679.2	307.7	4.3
29°	1232.2	1224.2	1202.2	1173.3	1134.7	1091.8	1017.0	896.3	664.5	278.9	2.5
30°	1269.0	1252.4	1225.5	1185.0	1139.0	1089.4	989.4	850.3	652.9	246.4	0.6
31°	1297.8	1288.6	1257.3	1206.5	1151.3	1082.6	956.9	804.9	644.9	218.2	0.0
32°	1305.8	1299.0	1276.3	1228.5	1172.1	1077.1	920.2	760.8	638.8	187.0	0.0
33°	1296.6	1292.3	1268.4	1224.8	1177.6	1069.7	877.9	717.3	632.0	158.8	0.0
34°	1279.4	1273.9	1253.0	1208.9	1163.5	1037.9	837.4	684.1	622.2	132.4	0.0
35°	1256.1	1251.8	1230.4	1186.8	1137.8	988.2	796.9	662.1	608.1	106.1	0.0
36°	1231.0	1229.7	1202.2	1159.2	1104.7	940.4	747.9	645.5	594.0	84.0	0.0
37°	1214.4	1208.3	1178.3	1136.0	1065.5	884.6	708.7	640.0	574.4	65.0	0.0
38°	1184.4	1185.6	1151.3	1112.7	1025.6	836.2	676.8	635.7	552.3	47.2	0.0
39°	1148.8	1149.4	1113.9	1080.8	978.4	785.3	650.4	631.4	524.8	30.0	0.0
40°	1120.6	1120.0	1079.6	1044.0	927.5	737.5	636.3	625.3	494.1	17.2	0.0
42.5°	911.0	914.6	919.6	934.3	808.0	653.5	622.8	591.0	407.1	0.0	0.0
45°	594.0	608.1	611.8	655.9	655.3	619.2	591.0	529.7	301.0	0.0	0.0
47.5°	565.2	569.5	577.5	594.6	603.8	586.1	528.4	442.6	164.3	0.0	0.0
50°	576.3	575.6	577.5	577.5	560.9	514.9	433.4	326.7	31.3	0.0	0.0
52.5°	413.8	429.1	445.7	453.0	431.6	383.1	316.3	191.9	0.0	0.0	0.0
55°	146.5	141.6	137.9	150.8	147.7	166.1	137.3	44.8	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	2.5	5.5	7.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.2
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):

	112.5°	135°	157.5°	180°
0°	388.1	388.1	388.1	388.1
2.5°	310.8	238.5	193.1	196.2
5°	218.2	110.3	68.0	55.2
7.5°	130.6	33.7	6.7	5.5
10°	61.3	5.5	6.1	7.4
12.5°	18.4	4.9	6.7	6.1
15°	4.9	5.5	3.1	1.8
17.5°	1.8	2.5	0.0	0.0
20°	1.2	0.0	0.0	0.0
21°	1.2	0.0	0.0	0.0
22°	0.6	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.6	0.0	0.0	0.0
67.5°	0.6	0.0	0.0	0.0
70°	0.6	0.0	0.0	0.0
72.5°	0.6	0.0	0.0	0.0
75°	0.6	0.0	0.0	0.0
77.5°	0.6	0.0	0.0	0.0
80°	0.6	0.6	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.6	0.6	0.0	0.0
85°	0.6	0.6	0.0	0.0
87.5°	0.6	0.6	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)