

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: P1305797

Luminaire Tested: P3SQAS09R509024DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305797
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: P3SQAS09R509024DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

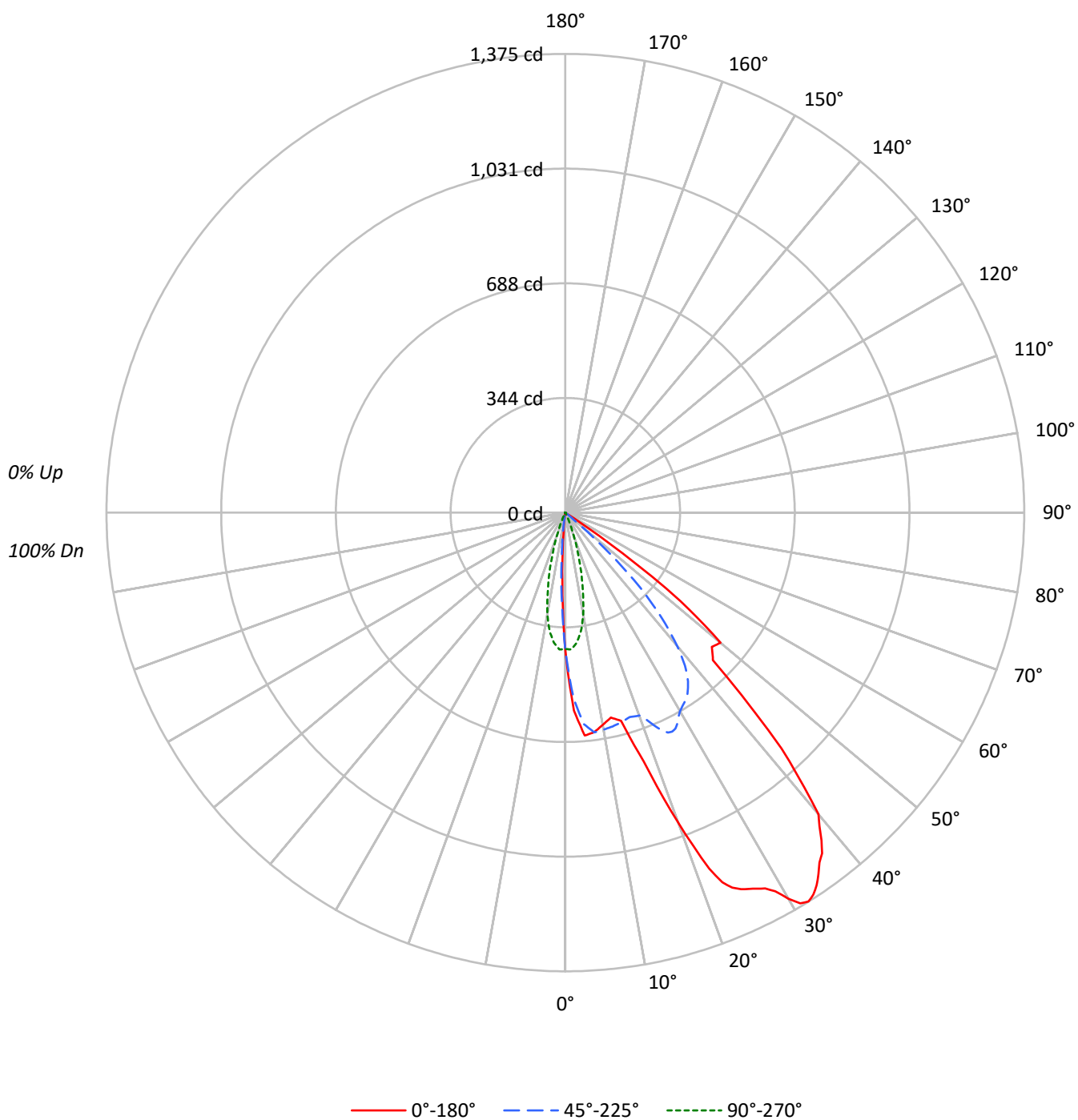
Lumens per Lamp: N/A
Luminaire Lumens: 657.9 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	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°	70353	70353	70353	70353	70353
5°	115934	110021	67614	20089	10044
10°	112972	115455	54178	1014	1347
15°	115181	115876	32450	1034	339
20°	181571	118634	13361	0	0
25°	236697	138225	3192	0	0
30°	265684	136700	119	0	0
35°	278028	134599	0	0	0
40°	265243	116952	0	0	0
45°	152322	77184	0	0	0
50°	162554	8815	0	0	0
55°	46330	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	1289	595	0
85°	0	1186	2569	1186	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 168202 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	5.2
10°-20°	86.4	13.1
20°-30°	166.0	25.2
30°-40°	193.3	29.4
40°-50°	138.3	21.0
50°-60°	38.5	5.9
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.5	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°	286.8	43.6
0°-40°	480.1	73.0
0°-60°	656.9	99.8
0°-90°	657.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	657.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	408	408	408	408	408	
5°	671	636	391	116	58	62
15°	646	650	182	6	2	208
25°	1246	727	17	0	0	567
35°	1322	640	0	0	0	818
45°	625	317	0	0	0	588
55°	154	0	0	0	0	194
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°	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5
2.5°	593.8	597.0	597.6	589.9	591.2	580.2	580.9	573.1	554.4	489.2	410.5
5°	670.6	668.6	670.6	668.0	670.6	664.1	660.2	657.0	636.4	544.1	391.1
7.5°	663.5	660.9	664.8	666.1	670.6	668.6	669.3	671.2	664.1	573.8	358.2
10°	646.0	645.4	647.3	647.3	652.5	653.1	655.7	659.6	660.2	584.1	309.8
12.5°	629.3	627.3	627.3	626.7	629.3	628.6	635.1	644.1	656.4	577.6	243.3
15°	646.0	644.1	641.5	634.4	629.3	623.5	624.1	629.9	649.9	560.9	182.0
17.5°	781.6	771.3	758.3	735.8	711.9	670.6	646.0	630.6	642.2	535.0	121.3
20°	990.7	986.2	965.5	928.7	890.0	829.3	753.8	693.2	647.3	502.8	72.9
21°	1070.1	1067.5	1045.6	1011.3	967.5	893.9	816.4	743.5	657.7	489.2	57.4
22°	1151.4	1141.7	1124.3	1086.2	1040.4	966.8	880.3	799.7	678.3	471.8	43.9
23°	1203.7	1197.9	1179.2	1148.8	1104.9	1033.3	944.9	857.1	698.3	452.4	32.9
24°	1230.8	1228.8	1214.0	1192.7	1155.3	1082.3	998.4	908.1	715.1	429.8	23.9
25°	1245.6	1239.2	1230.1	1214.6	1186.3	1123.0	1048.1	952.6	727.4	407.2	16.8
26°	1254.7	1250.8	1236.6	1223.0	1195.9	1144.3	1080.4	979.7	730.6	379.5	11.6
27°	1265.0	1256.0	1242.4	1226.3	1195.9	1150.8	1092.7	991.3	726.7	351.1	7.7
28°	1276.0	1269.5	1250.8	1230.1	1194.0	1150.8	1088.2	975.9	715.1	324.0	4.5
29°	1297.3	1288.9	1265.6	1235.3	1194.6	1149.5	1070.7	943.6	699.6	293.7	2.6
30°	1336.0	1318.6	1290.2	1247.6	1199.2	1146.9	1041.7	895.2	687.4	259.5	0.6
31°	1366.3	1356.6	1323.7	1270.2	1212.1	1139.8	1007.5	847.4	679.0	229.8	0.0
32°	1374.7	1367.6	1343.7	1293.4	1234.0	1134.0	968.8	800.9	672.5	196.8	0.0
33°	1365.0	1360.5	1335.3	1289.5	1239.8	1126.2	924.2	755.1	665.4	167.2	0.0
34°	1347.0	1341.1	1319.2	1272.7	1225.0	1092.7	881.6	720.3	655.1	139.4	0.0
35°	1322.4	1317.9	1295.3	1249.5	1197.9	1040.4	839.0	697.0	640.2	111.7	0.0
36°	1296.0	1294.7	1265.6	1220.5	1163.0	990.0	787.4	679.6	625.4	88.4	0.0
37°	1278.5	1272.1	1240.5	1195.9	1121.7	931.3	746.1	673.8	604.7	68.4	0.0
38°	1246.9	1248.2	1212.1	1171.4	1079.8	880.3	712.5	669.3	581.5	49.7	0.0
39°	1209.5	1210.1	1172.7	1137.8	1030.1	826.8	684.8	664.8	552.5	31.6	0.0
40°	1179.8	1179.2	1136.6	1099.1	976.5	776.4	669.9	658.3	520.2	18.1	0.0
42.5°	959.1	962.9	968.1	983.6	850.6	688.0	655.7	622.2	428.5	0.0	0.0
45°	625.4	640.2	644.1	690.6	689.9	651.9	622.2	557.6	316.9	0.0	0.0
47.5°	595.1	599.6	608.0	626.0	635.7	617.0	556.3	466.0	173.0	0.0	0.0
50°	606.7	606.0	608.0	608.0	590.5	542.1	456.3	344.0	32.9	0.0	0.0
52.5°	435.6	451.8	469.2	477.0	454.4	403.4	333.0	202.0	0.0	0.0	0.0
55°	154.3	149.1	145.2	158.8	155.5	174.9	144.6	47.1	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	2.6	5.8	7.7	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	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.3



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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	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.3
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):

	112.5°	135°	157.5°	180°
0°	408.5	408.5	408.5	408.5
2.5°	327.2	251.1	203.3	206.5
5°	229.8	116.2	71.6	58.1
7.5°	137.5	35.5	7.1	5.8
10°	64.5	5.8	6.5	7.7
12.5°	19.4	5.2	7.1	6.5
15°	5.2	5.8	3.2	1.9
17.5°	1.9	2.6	0.0	0.0
20°	1.3	0.0	0.0	0.0
21°	1.3	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)