

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: P1312310

Luminaire Tested: P3SQAS09R459727DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R459727DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

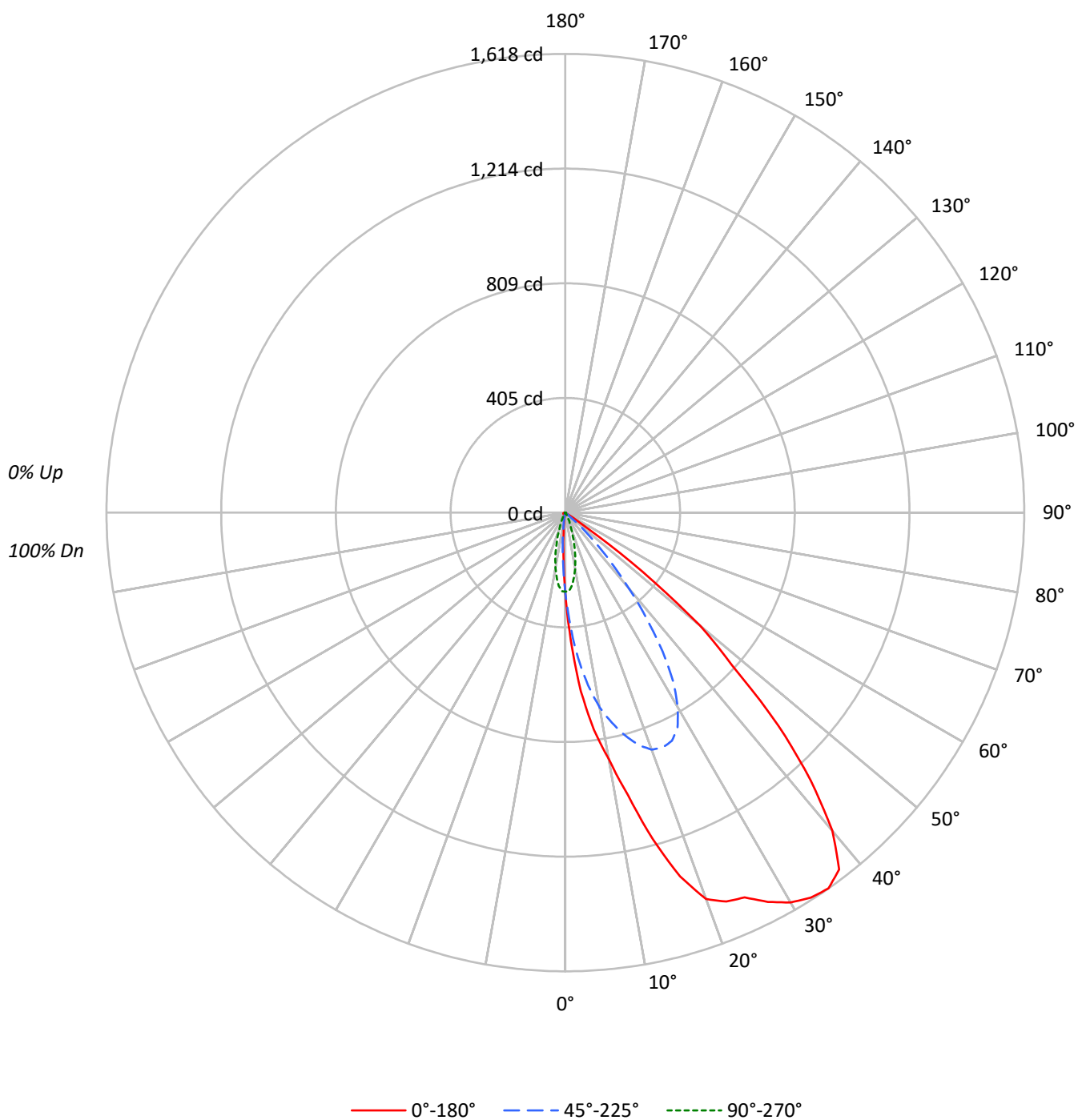
Lumens per Lamp: N/A
Luminaire Lumens: 733.0 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	48033	48033	48033	48033	48033
5°	109468	88809	44932	18014	12292
10°	154261	121996	34731	3970	1819
15°	212585	145152	22180	1319	1088
20°	265823	163024	11565	898	898
25°	284470	168801	5359	703	817
30°	315739	157621	2446	736	855
35°	340113	125663	778	778	1030
40°	329115	77878	405	967	1237
45°	258441	36729	438	1193	1486
50°	166064	4260	670	1474	1983
55°	25222	360	751	1832	2402
60°	413	413	861	2101	2549
65°	489	489	1019	2241	3016
70°	604	604	1259	2467	3374
75°	399	799	1664	2861	3660
80°	595	1190	1785	3075	4265
85°	0	1186	2371	3557	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 258441 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	4.2
10°-20°	110.4	15.1
20°-30°	193.9	26.5
30°-40°	220.2	30.0
40°-50°	142.6	19.4
50°-60°	28.0	3.8
60°-70°	3.4	0.5
70°-80°	2.8	0.4
80°-90°	1.3	0.2
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°	334.8	45.7
0°-40°	555.0	75.7
0°-60°	725.5	99.0
0°-90°	733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	733.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	279	279	279	279	279	
5°	633	514	260	104	71	67
15°	1192	814	124	7	6	344
25°	1497	888	28	4	4	702
35°	1618	598	4	4	5	995
45°	1061	151	2	5	6	800
55°	84	1	2	6	8	160
65°	1	1	2	6	7	1
75°	1	1	2	4	6	1
85°	0	1	1	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	278.9	278.9	278.9	278.9	278.9	278.9	278.9	278.9	278.9	278.9	278.9
2.5°	453.0	451.8	453.6	441.4	440.8	431.6	429.1	418.7	404.6	397.8	381.9
5°	633.2	627.1	627.1	612.4	607.5	597.1	579.3	557.2	538.8	513.7	486.7
7.5°	772.4	771.2	771.2	758.3	746.0	731.3	707.4	682.3	652.9	614.2	575.0
10°	882.1	884.0	878.4	866.8	849.0	833.1	804.9	774.2	738.1	697.6	645.5
12.5°	1020.7	1007.2	1002.9	976.5	953.8	923.2	889.5	854.5	809.8	758.9	700.1
15°	1192.3	1175.1	1158.0	1123.0	1085.0	1037.8	985.1	933.6	876.0	814.1	740.5
17.5°	1345.6	1345.6	1322.9	1267.7	1218.7	1148.8	1077.7	1009.0	941.0	859.4	767.5
20°	1450.4	1444.9	1427.7	1387.2	1331.5	1252.4	1159.8	1063.6	981.4	889.5	782.8
22.5°	1484.7	1483.5	1484.1	1460.2	1415.4	1333.3	1219.9	1106.5	1003.5	896.8	775.5
25°	1497.0	1499.4	1505.6	1496.4	1462.7	1380.5	1256.7	1126.7	1010.2	888.3	747.3
27.5°	1547.9	1543.0	1549.7	1543.6	1505.6	1407.5	1264.0	1121.8	995.5	857.0	697.0
30°	1587.7	1586.5	1598.1	1592.6	1543.0	1424.6	1257.3	1103.4	959.4	792.6	617.9
32.5°	1610.4	1611.0	1614.1	1591.4	1517.8	1387.2	1224.2	1066.0	891.3	708.6	514.9
35°	1617.7	1614.1	1596.9	1541.1	1440.6	1300.8	1142.7	977.1	798.8	597.7	407.0
37.5°	1585.9	1566.9	1522.7	1439.4	1322.9	1192.3	1038.4	865.0	671.9	472.0	303.4
40°	1463.9	1438.7	1383.0	1297.7	1189.2	1063.0	905.4	724.0	521.1	346.4	213.3
42.5°	1281.2	1268.3	1210.1	1135.9	1044.0	916.5	754.0	570.1	385.6	239.1	136.1
45°	1061.1	1044.6	1007.8	942.2	869.9	736.2	584.8	408.3	263.0	150.8	67.4
47.5°	795.7	796.9	771.8	722.1	651.0	539.5	400.3	274.0	164.9	77.9	15.3
50°	619.8	611.2	575.6	524.7	442.0	359.2	258.7	172.9	87.0	15.9	1.2
52.5°	343.3	348.8	329.8	313.2	270.3	214.6	152.6	87.7	18.4	1.8	1.2
55°	84.0	88.9	85.2	87.0	90.1	80.3	61.9	17.2	1.8	1.2	1.2
57.5°	1.8	1.8	1.8	1.8	3.1	4.3	4.3	1.2	1.2	1.2	1.2
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	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	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	278.9	278.9	278.9	278.9	278.9	278.9	278.9	278.9
2.5°	373.9	362.3	340.8	277.1	222.5	179.6	153.9	151.4
5°	462.8	431.6	386.2	259.9	164.3	104.2	75.4	71.1
7.5°	533.3	489.2	419.3	231.7	112.2	53.3	29.4	24.5
10°	591.6	529.0	436.5	198.6	70.5	22.7	12.3	10.4
12.5°	631.4	556.0	439.5	161.8	40.5	11.0	8.0	7.4
15°	657.2	564.6	424.8	124.4	22.7	7.4	6.7	6.1
17.5°	667.6	557.2	396.6	90.1	12.3	5.5	5.5	5.5
20°	662.7	533.3	354.9	63.1	8.0	4.9	4.9	4.9
22.5°	639.4	492.2	302.8	42.3	5.5	4.3	4.3	4.3
25°	593.4	436.5	247.7	28.2	3.7	3.7	4.3	4.3
27.5°	524.7	367.8	189.4	19.0	3.1	3.7	4.3	4.3
30°	438.3	291.2	136.1	12.3	3.1	3.7	3.7	4.3
32.5°	348.2	212.1	89.5	7.4	2.5	3.7	4.3	4.9
35°	252.6	144.7	57.0	3.7	3.1	3.7	4.3	4.9
37.5°	177.2	94.4	33.1	2.5	3.1	3.7	4.9	4.9
40°	115.2	52.7	12.3	1.8	3.1	4.3	4.9	5.5
42.5°	60.1	18.4	2.5	1.8	3.1	4.3	5.5	6.1
45°	15.3	2.5	0.6	1.8	3.7	4.9	6.1	6.1
47.5°	1.8	0.6	0.6	2.5	3.7	5.5	6.1	6.7
50°	0.6	1.2	1.2	2.5	3.7	5.5	6.7	7.4
52.5°	1.2	1.2	1.2	2.5	4.3	5.5	7.4	8.0
55°	1.2	1.2	1.2	2.5	4.3	6.1	7.4	8.0
57.5°	1.2	1.2	1.2	2.5	4.3	6.1	7.4	7.4
60°	1.2	1.2	1.2	2.5	4.3	6.1	7.4	7.4
62.5°	1.2	1.2	1.8	2.5	4.3	5.5	7.4	7.4
65°	1.2	1.8	1.8	2.5	4.3	5.5	6.7	7.4
67.5°	1.2	1.2	1.8	2.5	4.3	5.5	6.7	7.4
70°	1.2	1.2	1.8	2.5	3.7	4.9	6.1	6.7
72.5°	1.2	1.2	1.8	2.5	3.7	4.9	5.5	6.1
75°	1.2	1.2	1.8	2.5	3.1	4.3	5.5	5.5
77.5°	1.2	1.2	1.8	1.8	3.1	3.7	4.9	4.9
80°	1.2	1.2	1.8	1.8	2.5	3.1	3.7	4.3
82.5°	1.2	1.2	1.2	1.8	1.8	2.5	3.1	3.1
85°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8
87.5°	0.6	1.2	1.2	1.2	1.2	1.2	1.2	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)