

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: P1315225

Luminaire Tested: P3SQAS09R459740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R459740DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

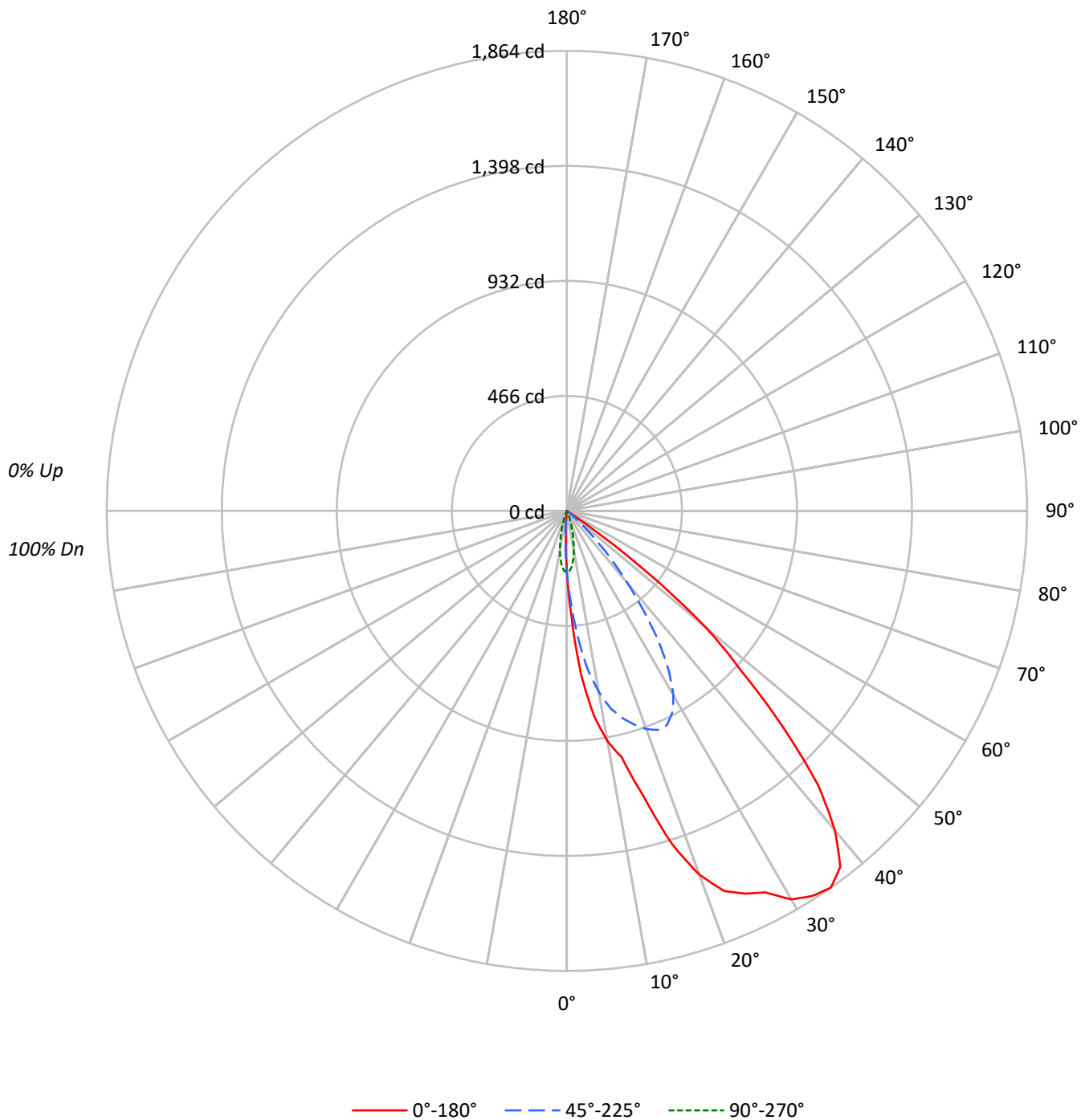
Lumens per Lamp: N/A
Luminaire Lumens: 790.0 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.26
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	98	96		96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88		92	89	86		89	86	84	82
3	99	91	85	80	97	90	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	63	73	67	63		71	66	62		70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51		61	55	51		59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42		52	46	42		51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	42263	42263	42263	42263	42263
5°	115363	88757	39106	7849	2939
10°	165681	130215	28278	752	612
15°	213298	154887	15048	250	0
20°	287486	172334	5718	0	0
25°	325155	182046	1482	0	0
30°	361438	171621	139	0	0
35°	391792	136870	0	0	0
40°	379745	85926	0	0	0
45°	301040	40942	0	0	0
50°	197010	5117	0	0	0
55°	33839	0	0	0	0
60°	0	0	241	0	0
65°	0	285	285	0	0
70°	0	352	705	0	0
75°	0	466	932	0	0
80°	0	694	1389	694	0
85°	0	1383	2766	1383	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 301040 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	3.7
10°-20°	112.5	14.2
20°-30°	210.7	26.7
30°-40°	245.9	31.1
40°-50°	160.4	20.3
50°-60°	29.8	3.8
60°-70°	0.3	0.0
70°-80°	0.6	0.1
80°-90°	0.6	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°	352.4	44.6
0°-40°	598.3	75.7
0°-60°	788.5	99.8
0°-90°	790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	790.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	245	245	245	245	245	
5°	667	513	226	45	17	71
15°	1196	869	84	1	0	356
25°	1711	958	8	0	0	791
35°	1864	651	0	0	0	1143
45°	1236	168	0	0	0	940
55°	113	0	0	0	0	196
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°	40°	45°	50°
0°	245.4	245.4	245.4	245.4	245.4	245.4	245.4	245.4	245.4	245.4	245.4
2.5°	432.6	436.1	429.0	426.2	417.0	419.1	403.5	397.1	387.2	370.9	363.1
5°	667.3	660.9	655.2	643.2	636.1	616.9	595.7	571.5	542.5	513.4	480.1
7.5°	834.6	829.7	827.5	817.6	803.4	783.6	755.9	725.4	687.8	648.8	598.5
10°	947.4	942.4	933.9	924.0	912.6	896.3	869.4	836.0	794.9	744.6	685.7
12.5°	1021.1	1020.4	1006.2	994.9	980.7	966.5	938.9	911.9	871.5	819.7	753.1
15°	1196.3	1184.9	1166.5	1134.6	1094.9	1058.0	1013.3	970.8	926.8	868.7	794.2
17.5°	1414.7	1401.9	1370.7	1330.3	1266.5	1196.3	1119.7	1052.3	986.4	907.7	819.7
20°	1568.6	1563.6	1537.4	1490.6	1422.5	1329.6	1228.9	1133.9	1041.0	940.3	831.8
22.5°	1667.1	1664.3	1653.7	1621.7	1552.2	1448.0	1318.2	1190.6	1078.6	960.8	828.2
25°	1711.1	1714.6	1716.1	1700.5	1644.4	1538.1	1384.2	1233.9	1099.8	958.0	801.3
27.5°	1742.3	1742.3	1748.0	1740.9	1684.1	1572.1	1409.7	1248.7	1092.7	923.3	744.6
30°	1817.5	1816.0	1819.6	1800.4	1721.7	1582.7	1398.4	1224.6	1052.3	863.0	663.0
32.5°	1850.1	1851.5	1850.8	1820.3	1728.8	1575.6	1370.7	1178.5	977.9	768.7	555.2
35°	1863.5	1857.2	1830.9	1761.4	1645.9	1481.3	1292.7	1100.5	873.6	651.0	438.2
37.5°	1818.9	1800.4	1742.3	1647.3	1506.2	1348.0	1163.7	960.8	735.3	510.6	329.7
40°	1689.1	1665.0	1592.0	1477.1	1348.0	1205.5	1011.2	797.0	575.1	382.2	231.2
42.5°	1505.4	1477.8	1399.1	1299.1	1181.4	1031.8	838.2	624.0	421.2	263.8	146.8
45°	1236.0	1220.4	1175.0	1090.6	975.0	819.7	642.5	455.3	291.4	168.1	75.2
47.5°	955.9	936.0	903.4	845.3	748.8	601.3	449.6	309.2	187.2	83.0	15.6
50°	735.3	711.9	672.2	607.7	507.0	401.4	291.4	192.9	95.0	19.1	0.7
52.5°	423.3	428.3	409.2	368.0	312.0	240.4	168.8	97.1	21.3	0.7	0.0
55°	112.7	122.0	119.1	128.3	112.7	95.0	70.2	18.4	1.4	0.0	0.0
57.5°	0.0	0.0	0.7	1.4	4.3	6.4	2.1	0.7	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	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	245.4	245.4	245.4	245.4	245.4	245.4	245.4	245.4
2.5°	345.3	330.4	312.0	243.9	183.7	131.9	102.8	95.0
5°	448.2	412.0	365.2	226.2	113.5	45.4	20.6	17.0
7.5°	545.3	492.1	407.7	197.8	57.4	11.3	5.7	5.0
10°	620.5	548.9	438.9	161.7	21.3	4.3	3.5	3.5
12.5°	672.2	585.0	450.3	122.7	7.8	2.1	2.1	1.4
15°	702.0	599.2	439.6	84.4	2.8	1.4	0.0	0.0
17.5°	711.2	593.5	411.3	53.2	0.7	0.0	0.0	0.0
20°	703.4	565.9	366.6	31.2	0.0	0.0	0.0	0.0
22.5°	677.9	522.6	312.7	17.0	0.0	0.0	0.0	0.0
25°	630.4	461.6	249.6	7.8	0.0	0.0	0.0	0.0
27.5°	553.1	382.9	187.9	2.8	0.0	0.0	0.0	0.0
30°	465.2	298.5	133.3	0.7	0.0	0.0	0.0	0.0
32.5°	363.1	219.8	85.8	0.0	0.0	0.0	0.0	0.0
35°	273.0	153.9	51.1	0.0	0.0	0.0	0.0	0.0
37.5°	190.0	97.1	26.9	0.0	0.0	0.0	0.0	0.0
40°	118.4	52.5	9.2	0.0	0.0	0.0	0.0	0.0
42.5°	65.9	18.4	0.7	0.0	0.0	0.0	0.0	0.0
45°	15.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
60°	0.0	0.7	0.7	0.7	0.0	0.0	0.0	0.0
62.5°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
65°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
67.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
70°	0.7	0.7	0.7	1.4	0.7	0.0	0.0	0.0
72.5°	0.7	0.7	1.4	1.4	0.7	0.0	0.0	0.0
75°	0.7	0.7	1.4	1.4	0.7	0.0	0.0	0.0
77.5°	0.7	1.4	1.4	1.4	0.7	0.7	0.0	0.0
80°	0.7	1.4	1.4	1.4	1.4	0.7	0.0	0.0
82.5°	0.7	1.4	1.4	1.4	1.4	0.7	0.0	0.0
85°	0.7	1.4	1.4	1.4	0.7	0.7	0.0	0.0
87.5°	0.7	1.4	1.4	1.4	1.4	0.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)