

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: P1313281

Luminaire Tested: P3SQAS09R459730DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313281
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: P3SQAS09R459730DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

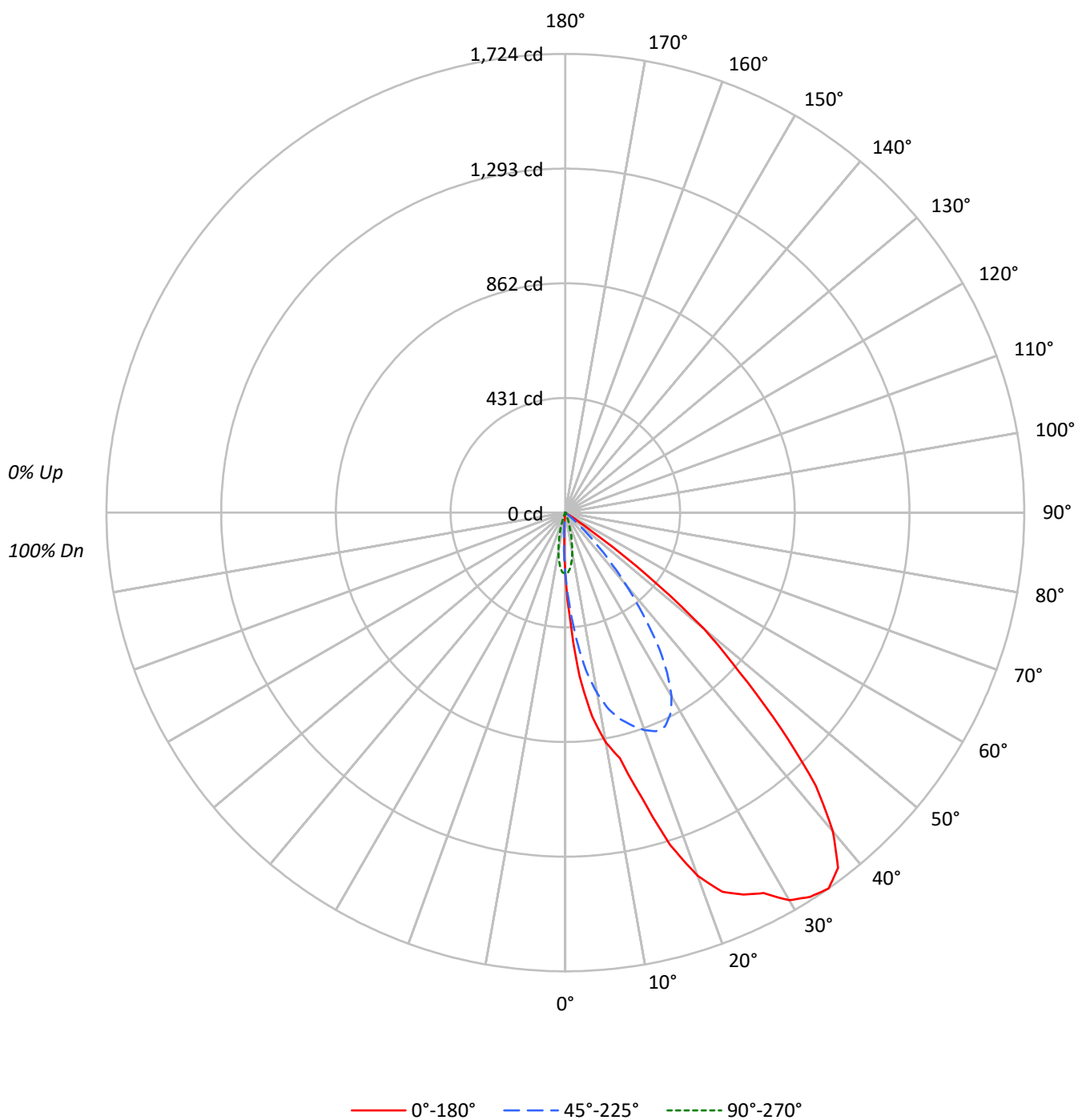
Lumens per Lamp: N/A
Luminaire Lumens: 731.0 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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°	39095	39095	39095	39095	39095
5°	106736	82136	36184	7261	2714
10°	153299	120492	26162	682	577
15°	197358	143316	13925	232	0
20°	266006	159468	5297	0	0
25°	300869	168459	1368	0	0
30°	334432	158794	139	0	0
35°	362547	126631	0	0	0
40°	351395	79519	0	0	0
45°	278559	37874	0	0	0
50°	182300	4742	0	0	0
55°	31317	0	0	0	0
60°	0	0	241	0	0
65°	0	285	285	0	0
70°	0	352	655	0	0
75°	0	466	865	0	0
80°	0	694	1289	694	0
85°	0	1383	2569	1383	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 278559 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.0	3.7
10°-20°	104.1	14.2
20°-30°	194.9	26.7
30°-40°	227.5	31.1
40°-50°	148.4	20.3
50°-60°	27.6	3.8
60°-70°	0.3	0.0
70°-80°	0.5	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°	326.1	44.6
0°-40°	553.7	75.7
0°-60°	729.6	99.8
0°-90°	731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	731.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	227	227	227	227	227	
5°	617	475	209	42	16	66
15°	1107	804	78	1	0	330
25°	1583	886	7	0	0	732
35°	1724	602	0	0	0	1058
45°	1144	156	0	0	0	870
55°	104	0	0	0	0	181
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°	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0
2.5°	400.3	403.5	397.0	394.3	385.8	387.8	373.4	367.4	358.3	343.2	336.0
5°	617.4	611.5	606.3	595.1	588.6	570.9	551.2	528.9	502.0	475.1	444.2
7.5°	772.3	767.7	765.7	756.5	743.4	725.0	699.5	671.2	636.5	600.4	553.8
10°	876.6	872.0	864.2	855.0	844.5	829.4	804.4	773.6	735.5	689.0	634.5
12.5°	944.9	944.2	931.1	920.6	907.5	894.3	868.7	843.8	806.4	758.5	696.8
15°	1106.9	1096.4	1079.4	1049.8	1013.1	979.0	937.6	898.3	857.6	803.8	734.9
17.5°	1309.0	1297.2	1268.3	1230.9	1171.9	1106.9	1036.1	973.7	912.7	839.9	758.5
20°	1451.4	1446.8	1422.5	1379.2	1316.2	1230.3	1137.1	1049.2	963.2	870.1	769.7
22.5°	1542.6	1540.0	1530.2	1500.6	1436.3	1339.9	1219.8	1101.7	998.0	889.1	766.4
25°	1583.3	1586.6	1587.9	1573.5	1521.6	1423.2	1280.8	1141.7	1017.7	886.5	741.5
27.5°	1612.2	1612.2	1617.4	1610.9	1558.4	1454.7	1304.4	1155.5	1011.1	854.3	689.0
30°	1681.7	1680.4	1683.7	1666.0	1593.1	1464.5	1293.9	1133.2	973.7	798.5	613.5
32.5°	1711.9	1713.2	1712.6	1684.3	1599.7	1458.0	1268.3	1090.5	904.8	711.3	513.8
35°	1724.4	1718.5	1694.2	1629.9	1522.9	1370.7	1196.2	1018.4	808.4	602.3	405.5
37.5°	1683.0	1666.0	1612.2	1524.2	1393.7	1247.3	1076.7	889.1	680.4	472.4	305.1
40°	1563.0	1540.6	1473.1	1366.8	1247.3	1115.5	935.7	737.5	532.1	353.7	213.9
42.5°	1393.0	1367.4	1294.6	1202.1	1093.2	954.7	775.6	577.4	389.8	244.1	135.8
45°	1143.7	1129.2	1087.2	1009.2	902.2	758.5	594.5	421.3	269.7	155.5	69.6
47.5°	884.5	866.1	835.9	782.1	692.9	556.4	416.0	286.1	173.2	76.8	14.4
50°	680.4	658.8	622.0	562.3	469.1	371.4	269.7	178.5	87.9	17.7	0.7
52.5°	391.7	396.3	378.6	340.5	288.7	222.4	156.2	89.9	19.7	0.7	0.0
55°	104.3	112.9	110.2	118.8	104.3	87.9	65.0	17.1	1.3	0.0	0.0
57.5°	0.0	0.0	0.7	1.3	3.9	5.9	2.0	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°	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0
2.5°	319.5	305.8	288.7	225.7	169.9	122.0	95.1	87.9
5°	414.7	381.2	337.9	209.3	105.0	42.0	19.0	15.7
7.5°	504.6	455.4	377.3	183.1	53.1	10.5	5.2	4.6
10°	574.1	507.9	406.2	149.6	19.7	3.9	3.3	3.3
12.5°	622.0	541.3	416.7	113.5	7.2	2.0	2.0	1.3
15°	649.6	554.4	406.8	78.1	2.6	1.3	0.0	0.0
17.5°	658.1	549.2	380.6	49.2	0.7	0.0	0.0	0.0
20°	650.9	523.6	339.2	28.9	0.0	0.0	0.0	0.0
22.5°	627.3	483.6	289.4	15.7	0.0	0.0	0.0	0.0
25°	583.3	427.2	231.0	7.2	0.0	0.0	0.0	0.0
27.5°	511.8	354.3	173.9	2.6	0.0	0.0	0.0	0.0
30°	430.4	276.2	123.4	0.7	0.0	0.0	0.0	0.0
32.5°	336.0	203.4	79.4	0.0	0.0	0.0	0.0	0.0
35°	252.6	142.4	47.2	0.0	0.0	0.0	0.0	0.0
37.5°	175.8	89.9	24.9	0.0	0.0	0.0	0.0	0.0
40°	109.6	48.6	8.5	0.0	0.0	0.0	0.0	0.0
42.5°	61.0	17.1	0.7	0.0	0.0	0.0	0.0	0.0
45°	14.4	1.3	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	1.3	0.7	0.0	0.0	0.0
72.5°	0.7	0.7	1.3	1.3	0.7	0.0	0.0	0.0
75°	0.7	0.7	1.3	1.3	0.7	0.0	0.0	0.0
77.5°	0.7	1.3	1.3	1.3	0.7	0.7	0.0	0.0
80°	0.7	1.3	1.3	1.3	1.3	0.7	0.0	0.0
82.5°	0.7	1.3	1.3	1.3	1.3	0.7	0.0	0.0
85°	0.7	1.3	1.3	1.3	0.7	0.7	0.0	0.0
87.5°	0.7	1.3	1.3	1.3	1.3	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)