

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: P1317010

Luminaire Tested: P3SQAS09R459830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317010
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: P3SQAS09R459830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

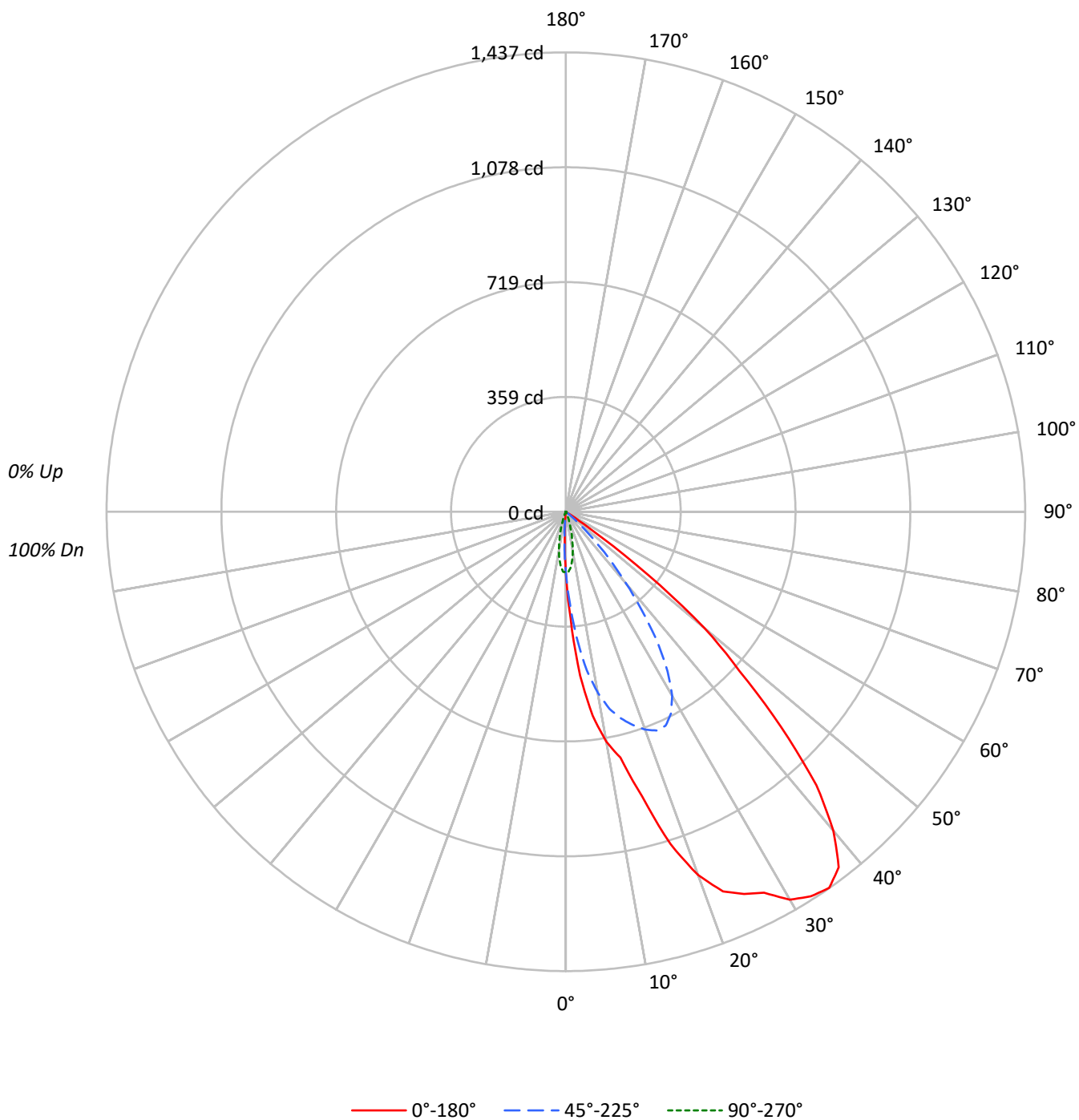
Lumens per Lamp: N/A
Luminaire Lumens: 609.0 lumens
Efficiency: N/A
Efficacy: 55.4 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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

TEST NUMBER: P1317010

CATALOG NUMBER: P3SQAS09R459830DE010 E3SQCA301MMS

Luminous Intensity Polar Plot





TEST NUMBER: P1317010

CATALOG NUMBER: P3SQAS09R459830DE010 E3SQCA301MMS

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	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	106	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°	32567	32567	32567	32567	32567
5°	88930	68426	30150	6051	2265
10°	127714	100381	21790	577	472
15°	164426	119388	11607	196	0
20°	221617	132856	4417	0	0
25°	250664	140335	1140	0	0
30°	278631	132305	99	0	0
35°	302038	105501	0	0	0
40°	292739	66232	0	0	0
45°	232064	31565	0	0	0
50°	151890	3965	0	0	0
55°	26093	0	0	0	0
60°	0	0	172	0	0
65°	0	204	204	0	0
70°	0	252	554	0	0
75°	0	333	732	0	0
80°	0	496	1091	496	0
85°	0	988	2174	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 232064 cd/sqm

TEST NUMBER: P1317010

CATALOG NUMBER: P3SQAS09R459830DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.5	3.7
10°-20°	86.8	14.2
20°-30°	162.4	26.7
30°-40°	189.6	31.1
40°-50°	123.6	20.3
50°-60°	22.9	3.8
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°	271.7	44.6
0°-40°	461.3	75.7
0°-60°	607.8	99.8
0°-90°	609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	609.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	189	189	189	189	189	
5°	514	396	174	35	13	55
15°	922	670	65	1	0	275
25°	1319	738	6	0	0	610
35°	1437	502	0	0	0	881
45°	953	130	0	0	0	725
55°	87	0	0	0	0	151
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1317010

CATALOG NUMBER: P3SQAS09R459830DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1
2.5°	333.5	336.2	330.7	328.5	321.4	323.1	311.0	306.1	298.5	285.9	279.9
5°	514.4	509.5	505.1	495.8	490.3	475.6	459.2	440.6	418.2	395.8	370.1
7.5°	643.4	639.6	637.9	630.3	619.3	604.0	582.7	559.2	530.2	500.2	461.4
10°	730.3	726.5	719.9	712.3	703.5	691.0	670.2	644.5	612.8	574.0	528.6
12.5°	787.2	786.6	775.7	766.9	756.0	745.1	723.8	703.0	671.8	631.9	580.5
15°	922.2	913.4	899.2	874.6	844.0	815.6	781.2	748.4	714.5	669.6	612.2
17.5°	1090.6	1080.7	1056.7	1025.5	976.3	922.2	863.2	811.2	760.4	699.7	631.9
20°	1209.2	1205.4	1185.1	1149.0	1096.6	1025.0	947.3	874.1	802.5	724.9	641.2
22.5°	1285.2	1283.0	1274.8	1250.2	1196.6	1116.2	1016.2	917.8	831.4	740.7	638.5
25°	1319.1	1321.8	1322.9	1310.9	1267.7	1185.7	1067.1	951.2	847.8	738.5	617.7
27.5°	1343.1	1343.1	1347.5	1342.0	1298.3	1211.9	1086.7	962.6	842.4	711.7	574.0
30°	1401.1	1400.0	1402.7	1387.9	1327.3	1220.1	1078.0	944.1	811.2	665.3	511.1
32.5°	1426.2	1427.3	1426.7	1403.2	1332.7	1214.6	1056.7	908.5	753.8	592.6	428.0
35°	1436.6	1431.7	1411.4	1357.9	1268.8	1141.9	996.5	848.4	673.5	501.8	337.8
37.5°	1402.1	1387.9	1343.1	1269.9	1161.1	1039.2	897.0	740.7	566.9	393.6	254.2
40°	1302.1	1283.5	1227.2	1138.7	1039.2	929.3	779.5	614.4	443.3	294.6	178.2
42.5°	1160.5	1139.2	1078.5	1001.5	910.7	795.4	646.1	481.0	324.7	203.4	113.2
45°	952.8	940.8	905.8	840.7	751.6	631.9	495.3	350.9	224.7	129.6	57.9
47.5°	736.9	721.6	696.4	651.6	577.3	463.6	346.6	238.3	144.3	64.0	12.0
50°	566.9	548.8	518.2	468.5	390.9	309.4	224.7	148.7	73.3	14.8	0.5
52.5°	326.3	330.2	315.4	283.7	240.5	185.3	130.1	74.9	16.4	0.5	0.0
55°	86.9	94.0	91.8	98.9	86.9	73.3	54.1	14.2	1.1	0.0	0.0
57.5°	0.0	0.0	0.5	1.1	3.3	4.9	1.6	0.5	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	0.5	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1317010

CATALOG NUMBER: P3SQAS09R459830DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1
2.5°	266.2	254.7	240.5	188.0	141.6	101.7	79.3	73.3
5°	345.5	317.6	281.5	174.4	87.5	35.0	15.9	13.1
7.5°	420.4	379.4	314.3	152.5	44.3	8.7	4.4	3.8
10°	478.3	423.1	338.4	124.6	16.4	3.3	2.7	2.7
12.5°	518.2	451.0	347.1	94.6	6.0	1.6	1.6	1.1
15°	541.2	461.9	338.9	65.1	2.2	1.1	0.0	0.0
17.5°	548.3	457.5	317.1	41.0	0.5	0.0	0.0	0.0
20°	542.3	436.2	282.6	24.1	0.0	0.0	0.0	0.0
22.5°	522.6	402.9	241.1	13.1	0.0	0.0	0.0	0.0
25°	486.0	355.9	192.4	6.0	0.0	0.0	0.0	0.0
27.5°	426.4	295.2	144.9	2.2	0.0	0.0	0.0	0.0
30°	358.6	230.1	102.8	0.5	0.0	0.0	0.0	0.0
32.5°	279.9	169.5	66.1	0.0	0.0	0.0	0.0	0.0
35°	210.5	118.6	39.4	0.0	0.0	0.0	0.0	0.0
37.5°	146.5	74.9	20.8	0.0	0.0	0.0	0.0	0.0
40°	91.3	40.5	7.1	0.0	0.0	0.0	0.0	0.0
42.5°	50.8	14.2	0.5	0.0	0.0	0.0	0.0	0.0
45°	12.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.5	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	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0
62.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
65°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
67.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
70°	0.5	0.5	0.5	1.1	0.5	0.0	0.0	0.0
72.5°	0.5	0.5	1.1	1.1	0.5	0.0	0.0	0.0
75°	0.5	0.5	1.1	1.1	0.5	0.0	0.0	0.0
77.5°	0.5	1.1	1.1	1.1	0.5	0.5	0.0	0.0
80°	0.5	1.1	1.1	1.1	1.1	0.5	0.0	0.0
82.5°	0.5	1.1	1.1	1.1	1.1	0.5	0.0	0.0
85°	0.5	1.1	1.1	1.1	0.5	0.5	0.0	0.0
87.5°	0.5	1.1	1.1	1.1	1.1	0.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)