

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: P1317001

Luminaire Tested: P3SQAS09R409830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R409830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

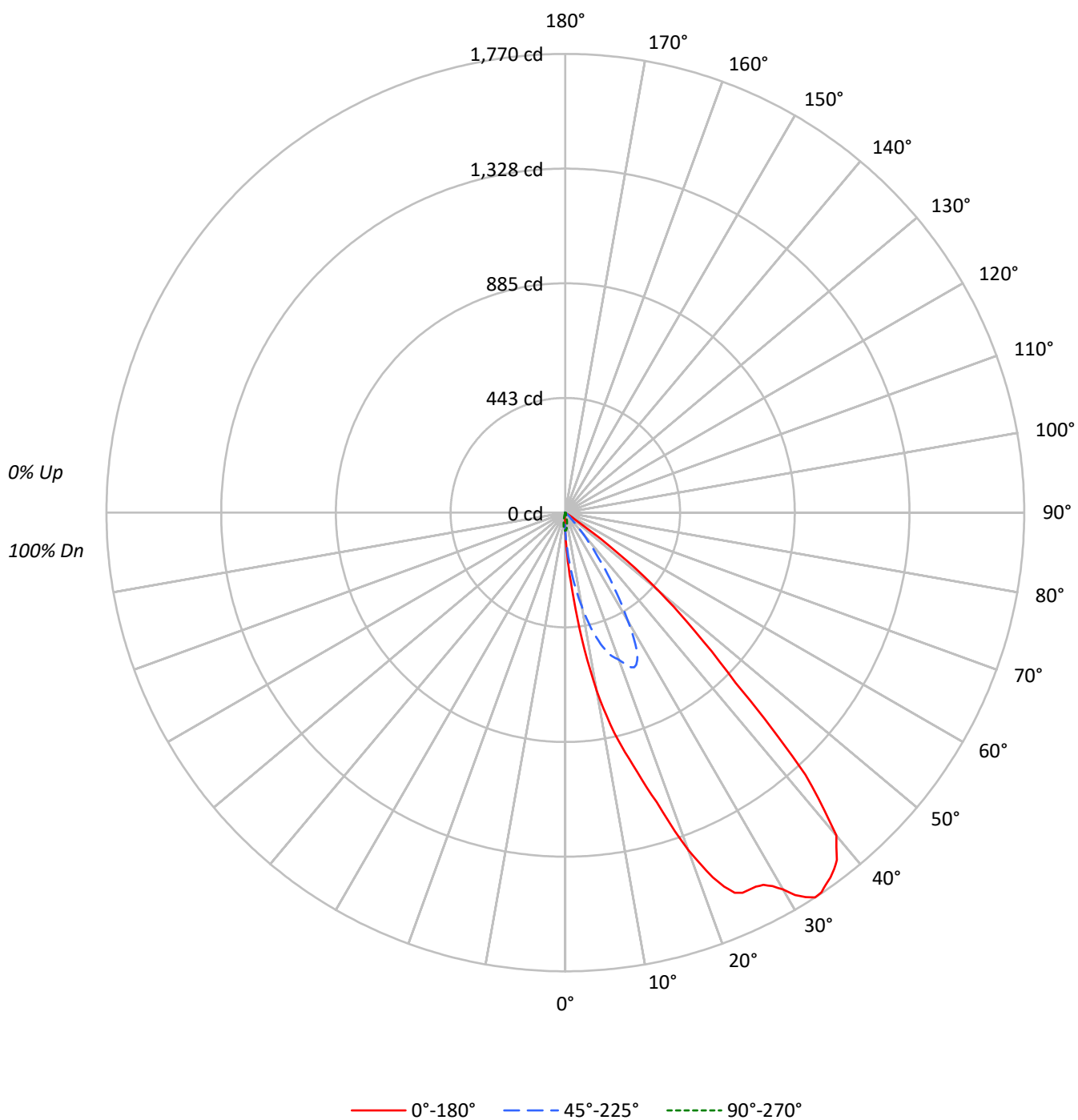
Lumens per Lamp: N/A
Luminaire Lumens: 594.0 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1317001

CATALOG NUMBER: P3SQAS09R409830DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1317001

CATALOG NUMBER: P3SQAS09R409830DE010 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	50	30
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	83	
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74	
4	92	83	77	72	90	82	76	71	80	74	70	78	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	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	60	55	51	59	54	50	49	
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44	
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40	
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11969	11969	11969	11969	11969
5°	50792	34611	10494	1884	951
10°	122066	64391	6506	192	0
15°	179653	93535	2728	0	0
20°	253965	110882	1008	0	0
25°	307596	123080	0	0	0
30°	333975	96271	0	0	0
35°	368265	56346	0	0	0
40°	365513	22864	0	0	0
45°	226364	6674	0	0	0
50°	126061	134	0	0	0
55°	12311	0	0	0	0
60°	0	0	172	0	0
65°	0	0	204	0	0
70°	0	252	554	0	0
75°	0	333	732	0	0
80°	0	496	1091	0	0
85°	0	988	2174	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 227436 cd/sqm

TEST NUMBER: P1317001

CATALOG NUMBER: P3SQAS09R409830DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	2.2
10°-20°	76.6	12.9
20°-30°	174.8	29.4
30°-40°	206.4	34.7
40°-50°	110.3	18.6
50°-60°	12.0	2.0
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.4	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°	264.4	44.5
0°-40°	470.7	79.2
0°-60°	592.9	99.8
0°-90°	594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	594.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	294	200	61	11	6	41
15°	1008	525	15	0	0	299
25°	1619	648	0	0	0	735
35°	1752	268	0	0	0	1082
45°	929	27	0	0	0	766
55°	41	0	0	0	0	115
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: P1317001

CATALOG NUMBER: P3SQAS09R409830DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
2.5°	161.9	158.6	160.8	156.5	156.5	146.6	147.2	138.9	126.9	96.8	68.9
5°	293.8	306.9	296.5	282.8	275.2	265.3	252.2	238.5	200.2	120.9	60.7
7.5°	491.8	490.7	473.2	458.4	441.5	415.2	390.6	357.2	285.0	138.4	50.3
10°	698.0	694.2	674.5	661.9	629.6	591.9	541.6	488.0	368.2	144.4	37.2
12.5°	869.8	864.9	848.5	827.1	791.6	744.0	689.8	619.2	455.7	137.9	24.1
15°	1007.6	1006.6	990.7	961.7	924.5	878.0	816.7	731.9	524.6	120.9	15.3
17.5°	1171.2	1177.8	1149.3	1118.2	1064.5	999.4	924.5	827.7	575.5	100.1	9.8
20°	1385.7	1376.4	1350.1	1304.7	1253.3	1175.0	1068.9	930.5	605.0	77.7	5.5
21°	1451.3	1447.5	1420.1	1378.0	1321.1	1241.8	1132.4	983.0	618.7	69.5	4.4
22°	1518.0	1511.5	1490.1	1449.1	1395.5	1305.8	1185.4	1037.2	636.2	60.7	2.7
23°	1567.8	1565.1	1548.7	1508.2	1452.9	1366.0	1242.9	1087.5	648.2	52.5	1.6
24°	1606.1	1602.8	1586.4	1555.8	1508.2	1417.4	1300.9	1141.7	653.2	45.4	0.5
25°	1618.7	1620.3	1610.5	1586.4	1546.5	1455.7	1344.1	1184.3	647.7	38.8	0.0
26°	1619.2	1624.2	1617.1	1603.4	1570.6	1486.3	1384.6	1209.5	633.5	32.8	0.0
27°	1619.2	1624.2	1617.1	1606.7	1574.4	1503.8	1406.4	1212.2	611.6	27.9	0.0
28°	1626.9	1629.6	1620.3	1607.8	1572.7	1509.3	1412.5	1195.8	576.6	24.1	0.0
29°	1648.2	1645.5	1630.2	1613.2	1571.1	1509.3	1394.4	1164.6	532.8	20.2	0.0
30°	1679.4	1679.4	1655.3	1628.5	1578.8	1508.7	1365.4	1108.3	484.1	16.4	0.0
31°	1721.5	1717.7	1693.6	1653.7	1595.2	1508.7	1322.7	1045.9	439.3	14.2	0.0
32°	1750.0	1747.8	1724.8	1677.8	1622.0	1508.7	1276.8	977.0	390.6	11.5	0.0
33°	1769.7	1765.3	1739.0	1690.4	1638.4	1501.1	1225.4	903.2	346.8	9.3	0.0
34°	1766.9	1765.8	1738.5	1688.2	1635.1	1469.4	1165.7	821.1	306.3	7.7	0.0
35°	1751.6	1751.6	1718.3	1666.3	1611.6	1422.9	1106.7	751.1	268.0	5.5	0.0
36°	1740.1	1735.8	1698.0	1640.0	1572.2	1349.5	1019.1	680.5	227.0	4.4	0.0
37°	1723.2	1715.0	1672.8	1610.5	1516.4	1270.2	927.2	617.6	192.0	2.7	0.0
38°	1701.3	1688.7	1637.3	1576.0	1455.1	1178.9	833.7	547.0	159.7	1.6	0.0
39°	1661.4	1651.0	1597.9	1531.7	1381.8	1082.6	742.9	480.8	129.1	0.5	0.0
40°	1625.8	1607.8	1547.6	1471.5	1295.9	973.7	652.6	415.8	101.7	0.0	0.0
42.5°	1370.9	1351.7	1338.1	1262.6	1032.3	699.1	455.7	266.4	53.1	0.0	0.0
45°	929.4	933.8	891.1	840.3	681.1	455.7	285.0	148.2	27.4	0.0	0.0
47.5°	677.8	666.3	608.3	512.0	399.3	266.4	148.8	71.7	10.9	0.0	0.0
50°	470.5	448.6	396.1	323.8	217.2	126.9	65.6	33.4	0.5	0.0	0.0
52.5°	255.5	240.2	203.5	147.7	90.3	48.7	26.3	13.7	0.0	0.0	0.0
55°	41.0	28.4	29.5	25.2	19.7	14.2	8.2	1.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
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	1.1	1.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.1	1.1



TEST NUMBER: P1317001

CATALOG NUMBER: P3SQAS09R409830DE010 E3SQCA301MMS

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	0.5	0.5	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.1	1.1
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: P1317001

CATALOG NUMBER: P3SQAS09R409830DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	69.5	69.5	69.5	69.5
2.5°	46.5	31.7	24.1	20.8
5°	26.8	10.9	6.0	5.5
7.5°	13.1	3.8	2.2	2.2
10°	5.5	1.1	0.0	0.0
12.5°	1.6	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	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°	0.5	0.0	0.0	0.0
67.5°	0.5	0.0	0.0	0.0
70°	0.5	0.0	0.0	0.0
72.5°	0.5	0.0	0.0	0.0
75°	0.5	0.0	0.0	0.0
77.5°	0.5	0.0	0.0	0.0
80°	0.5	0.0	0.0	0.0



TEST NUMBER: P1317001

CATALOG NUMBER: P3SQAS09R409830DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.5	0.0	0.0	0.0
85°	0.5	0.0	0.0	0.0
87.5°	0.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)