

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: P1312820

Luminaire Tested: P3SQAS20R709727D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R709727D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

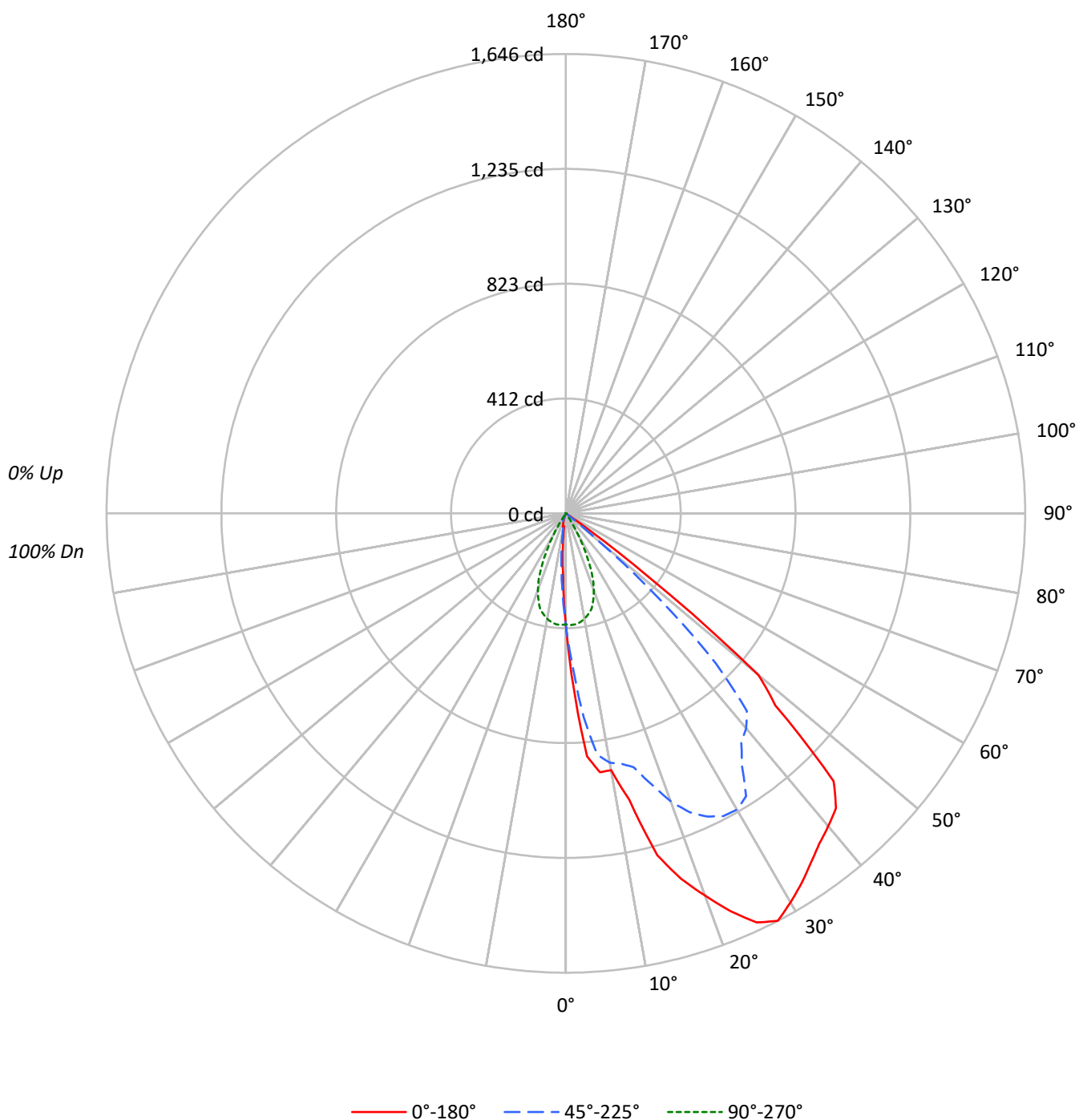
Lumens per Lamp: N/A
Luminaire Lumens: 1071.0 lumens
Efficiency: N/A
Efficacy: 37.2 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1312820

CATALOG NUMBER: P3SQAS20R709727D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1312820

CATALOG NUMBER: P3SQAS20R709727D010 E3SQCA301MMS

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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39		
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	68458	68458	68458	68458	68458
5°	151028	126721	68979	31361	20642
10°	163337	158581	67136	8726	8989
15°	226082	167885	63331	8897	6472
20°	267014	201090	53736	5260	1943
25°	307292	227747	37910	855	0
30°	320094	243750	17441	0	0
35°	321570	231017	946	0	0
40°	328913	225945	0	0	0
45°	330559	185154	0	0	0
50°	241352	38475	0	0	0
55°	13602	0	0	0	0
60°	0	517	517	0	0
65°	0	0	611	0	0
70°	0	755	755	0	0
75°	0	998	998	0	0
80°	0	1488	1488	1488	0
85°	0	2964	2964	2964	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 336819 cd/sqm

TEST NUMBER: P1312820

CATALOG NUMBER: P3SQAS20R709727D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	4.1
10°-20°	145.2	13.6
20°-30°	261.0	24.4
30°-40°	317.3	29.6
40°-50°	245.0	22.9
50°-60°	57.0	5.3
60°-70°	0.4	0.0
70°-80°	0.8	0.1
80°-90°	0.8	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°	449.7	42.0
0°-40°	767.0	71.6
0°-60°	1069.0	99.8
0°-90°	1071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1071.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	398	398	398	398	398	
5°	874	733	399	181	119	82
15°	1268	942	355	50	36	355
25°	1617	1198	200	4	0	736
35°	1530	1099	4	0	0	961
45°	1357	760	0	0	0	959
55°	45	0	0	0	0	186
65°	0	0	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	2	2	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1312820

CATALOG NUMBER: P3SQAS20R709727D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5
2.5°	619.7	619.7	622.7	621.2	607.6	601.5	581.9	571.3	568.3	544.1	535.0
5°	873.6	875.1	867.5	866.0	850.9	840.3	823.7	798.0	772.3	733.0	698.2
7.5°	935.5	934.0	932.5	932.5	929.5	923.4	915.9	908.3	897.7	873.6	846.4
10°	934.0	934.0	932.5	932.5	931.0	932.5	931.0	926.5	921.9	906.8	891.7
12.5°	1051.9	1042.8	1030.7	1012.6	982.4	959.7	934.0	926.5	923.4	918.9	909.8
15°	1268.0	1260.5	1234.8	1203.0	1172.8	1121.4	1080.6	1024.7	980.9	941.6	921.9
17.5°	1372.3	1376.8	1348.1	1328.5	1299.8	1259.0	1210.6	1153.2	1091.2	1017.1	958.2
20°	1456.9	1461.5	1437.3	1417.6	1384.4	1342.1	1299.8	1237.8	1178.9	1097.2	1020.2
22.5°	1543.1	1546.1	1523.4	1494.7	1456.9	1413.1	1358.7	1295.2	1231.8	1159.2	1077.6
25°	1617.1	1614.1	1576.3	1535.5	1499.3	1452.4	1399.5	1337.5	1277.1	1198.5	1121.4
27.5°	1645.9	1644.4	1602.0	1562.7	1520.4	1456.9	1410.1	1355.7	1292.2	1222.7	1144.1
30°	1609.6	1633.8	1606.6	1577.9	1526.5	1463.0	1417.6	1352.7	1293.7	1225.7	1136.5
32.5°	1571.8	1602.0	1593.0	1579.4	1518.9	1469.0	1410.1	1349.6	1280.1	1201.5	1065.5
35°	1529.5	1561.2	1562.7	1547.6	1493.2	1443.3	1388.9	1325.5	1246.9	1098.8	999.0
37.5°	1491.7	1521.9	1531.0	1499.3	1456.9	1390.4	1340.6	1274.1	1132.0	1032.3	980.9
40°	1463.0	1485.7	1499.3	1449.4	1407.1	1342.1	1284.6	1168.3	1039.8	1005.0	932.5
42.5°	1432.8	1453.9	1460.0	1405.6	1340.6	1278.6	1195.5	1048.9	1011.1	959.7	764.7
45°	1357.2	1382.9	1367.8	1314.9	1266.5	1201.5	1077.6	1014.1	973.3	760.2	470.0
47.5°	1018.7	1047.4	1088.2	1103.3	1119.9	1073.1	1005.0	982.4	799.5	461.0	146.6
50°	900.8	896.2	896.2	903.8	917.4	932.5	952.2	828.2	480.6	143.6	0.0
52.5°	367.3	385.4	474.6	554.7	646.9	739.1	767.8	507.8	187.4	3.0	0.0
55°	45.3	45.3	63.5	108.8	179.9	290.2	326.5	163.2	13.6	0.0	0.0
57.5°	0.0	0.0	0.0	1.5	12.1	33.2	22.7	6.0	1.5	1.5	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
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	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
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: P1312820

CATALOG NUMBER: P3SQAS20R709727D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5
2.5°	519.9	501.8	476.1	400.5	335.5	278.1	244.8	228.2
5°	665.0	621.2	562.2	399.0	272.0	181.4	136.0	119.4
7.5°	804.0	754.2	654.4	393.0	208.6	105.8	58.9	46.9
10°	864.5	828.2	739.1	383.9	151.1	49.9	49.9	51.4
12.5°	888.7	861.5	788.9	370.3	99.7	48.4	51.4	48.4
15°	905.3	879.6	813.1	355.2	57.4	49.9	40.8	36.3
17.5°	914.4	884.1	820.7	326.5	37.8	42.3	25.7	21.2
20°	943.1	894.7	826.7	293.2	36.3	28.7	13.6	10.6
22.5°	991.4	915.9	828.2	252.4	28.7	16.6	4.5	0.0
25°	1035.3	944.6	832.8	199.5	9.1	4.5	0.0	0.0
27.5°	1056.4	953.7	831.2	140.6	0.0	0.0	0.0	0.0
30°	1030.7	931.0	817.6	87.7	0.0	0.0	0.0	0.0
32.5°	970.3	914.4	775.3	37.8	0.0	0.0	0.0	0.0
35°	950.6	878.1	678.6	4.5	0.0	0.0	0.0	0.0
37.5°	906.8	773.8	498.7	0.0	0.0	0.0	0.0	0.0
40°	779.9	559.2	237.3	0.0	0.0	0.0	0.0	0.0
42.5°	515.4	238.8	13.6	0.0	0.0	0.0	0.0	0.0
45°	181.4	15.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3.0	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	0.0	0.0	0.0	0.0	0.0
60°	1.5	1.5	1.5	1.5	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
65°	0.0	0.0	1.5	1.5	0.0	0.0	0.0	0.0
67.5°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0
70°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
72.5°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
75°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
77.5°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0
85°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)