

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: P1306759

Luminaire Tested: P3SQAS09R459027DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306759
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: P3SQAS09R459027DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

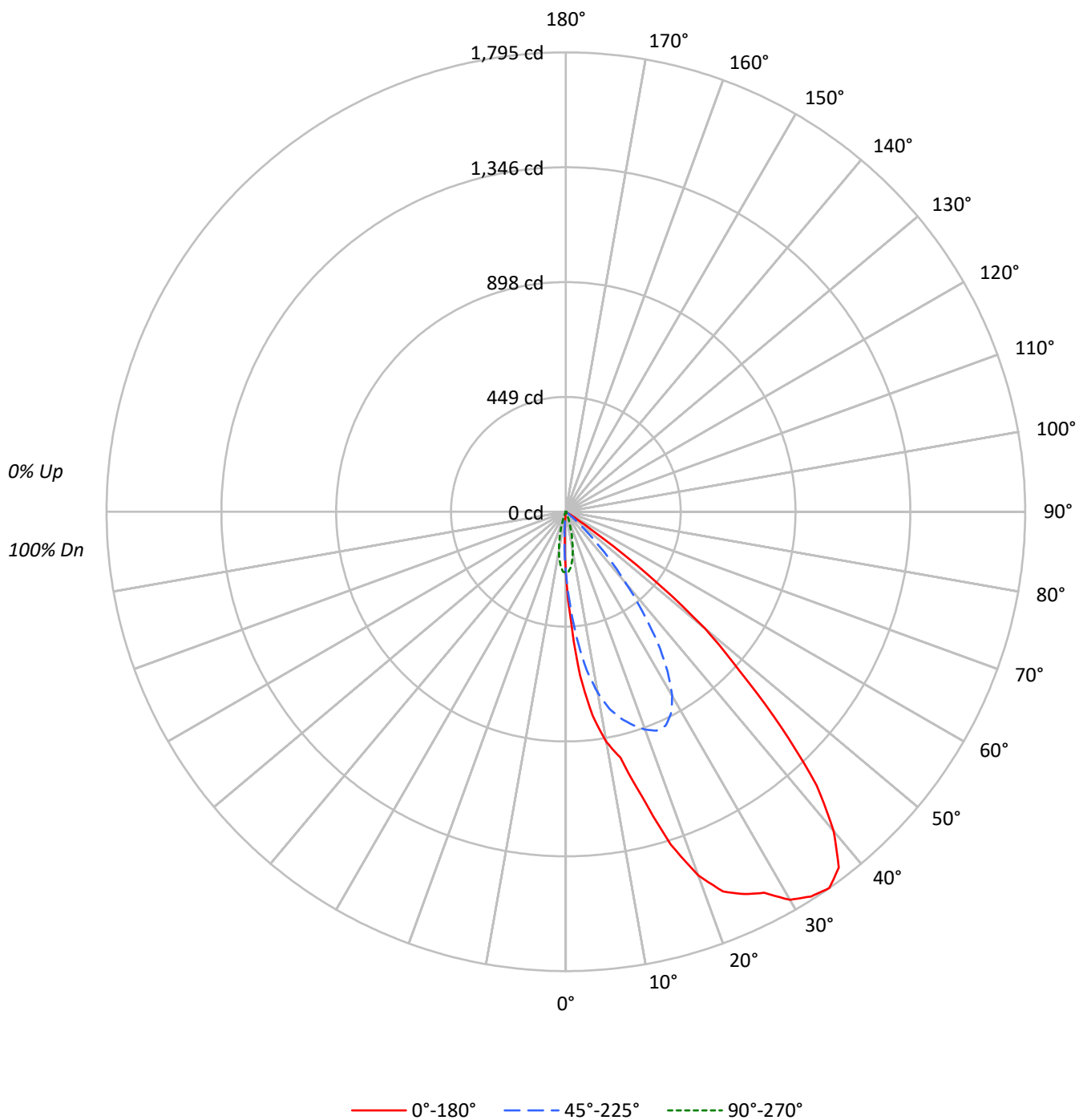
Lumens per Lamp: N/A
Luminaire Lumens: 761.0 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	93	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	56	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	40696	40696	40696	40696	40696
5°	111128	85507	37671	7555	2835
10°	159595	125424	27229	717	595
15°	205471	149200	14496	250	0
20°	276929	166011	5517	0	0
25°	313221	175357	1425	0	0
30°	348154	165317	139	0	0
35°	377411	131845	0	0	0
40°	365806	82779	0	0	0
45°	289982	39432	0	0	0
50°	189802	4930	0	0	0
55°	32608	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: 289982 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	3.7
10°-20°	108.4	14.2
20°-30°	202.9	26.7
30°-40°	236.9	31.1
40°-50°	154.5	20.3
50°-60°	28.7	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°	339.5	44.6
0°-40°	576.4	75.7
0°-60°	759.5	99.8
0°-90°	761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	761.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	236	236	236	236	236	
5°	643	495	218	44	16	69
15°	1152	837	81	1	0	343
25°	1648	923	8	0	0	762
35°	1795	627	0	0	0	1101
45°	1191	162	0	0	0	905
55°	109	0	0	0	0	189
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°	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3
2.5°	416.7	420.1	413.3	410.5	401.7	403.7	388.7	382.5	373.0	357.3	349.7
5°	642.8	636.6	631.2	619.6	612.7	594.3	573.8	550.6	522.6	494.6	462.4
7.5°	804.0	799.2	797.2	787.6	773.9	754.8	728.2	698.8	662.6	625.0	576.5
10°	912.6	907.8	899.6	890.1	879.1	863.4	837.5	805.4	765.7	717.2	660.5
12.5°	983.6	983.0	969.3	958.4	944.7	931.0	904.4	878.4	839.5	789.6	725.4
15°	1152.4	1141.4	1123.7	1092.9	1054.7	1019.2	976.1	935.1	892.8	836.8	765.1
17.5°	1362.7	1350.5	1320.4	1281.5	1220.0	1152.4	1078.6	1013.7	950.2	874.3	789.6
20°	1511.0	1506.2	1480.9	1435.8	1370.3	1280.8	1183.8	1092.2	1002.8	905.8	801.3
22.5°	1605.9	1603.2	1592.9	1562.2	1495.3	1394.9	1269.8	1146.9	1039.0	925.6	797.8
25°	1648.3	1651.7	1653.1	1638.0	1584.1	1481.6	1333.4	1188.6	1059.5	922.8	771.9
27.5°	1678.3	1678.3	1683.8	1677.0	1622.3	1514.4	1358.0	1202.9	1052.6	889.4	717.2
30°	1750.7	1749.4	1752.8	1734.3	1658.5	1524.6	1347.0	1179.7	1013.7	831.3	638.7
32.5°	1782.2	1783.5	1782.8	1753.5	1665.4	1517.8	1320.4	1135.3	942.0	740.5	534.9
35°	1795.1	1789.0	1763.7	1696.8	1585.4	1427.0	1245.3	1060.1	841.6	627.1	422.1
37.5°	1752.1	1734.3	1678.3	1586.8	1450.9	1298.5	1120.9	925.6	708.4	491.8	317.6
40°	1627.1	1603.9	1533.5	1422.9	1298.5	1161.2	974.1	767.8	554.0	368.2	222.7
42.5°	1450.2	1423.5	1347.7	1251.4	1138.0	993.9	807.4	601.1	405.8	254.1	141.4
45°	1190.6	1175.6	1131.9	1050.6	939.2	789.6	618.9	438.5	280.7	161.9	72.4
47.5°	920.8	901.7	870.2	814.2	721.3	579.3	433.1	297.8	180.3	79.9	15.0
50°	708.4	685.8	647.6	585.4	488.4	386.6	280.7	185.8	91.5	18.4	0.7
52.5°	407.8	412.6	394.1	354.5	300.6	231.6	162.6	93.6	20.5	0.7	0.0
55°	108.6	117.5	114.8	123.6	108.6	91.5	67.6	17.8	1.4	0.0	0.0
57.5°	0.0	0.0	0.7	1.4	4.1	6.1	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°	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3
2.5°	332.7	318.3	300.6	235.0	176.9	127.1	99.0	91.5
5°	431.7	396.9	351.8	217.9	109.3	43.7	19.8	16.4
7.5°	525.3	474.1	392.8	190.6	55.3	10.9	5.5	4.8
10°	597.7	528.7	422.8	155.7	20.5	4.1	3.4	3.4
12.5°	647.6	563.5	433.8	118.2	7.5	2.0	2.0	1.4
15°	676.3	577.2	423.5	81.3	2.7	1.4	0.0	0.0
17.5°	685.1	571.7	396.2	51.2	0.7	0.0	0.0	0.0
20°	677.6	545.1	353.2	30.1	0.0	0.0	0.0	0.0
22.5°	653.0	503.4	301.2	16.4	0.0	0.0	0.0	0.0
25°	607.3	444.7	240.4	7.5	0.0	0.0	0.0	0.0
27.5°	532.8	368.9	181.0	2.7	0.0	0.0	0.0	0.0
30°	448.1	287.6	128.4	0.7	0.0	0.0	0.0	0.0
32.5°	349.7	211.8	82.7	0.0	0.0	0.0	0.0	0.0
35°	263.0	148.2	49.2	0.0	0.0	0.0	0.0	0.0
37.5°	183.1	93.6	26.0	0.0	0.0	0.0	0.0	0.0
40°	114.1	50.5	8.9	0.0	0.0	0.0	0.0	0.0
42.5°	63.5	17.8	0.7	0.0	0.0	0.0	0.0	0.0
45°	15.0	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)