

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: P1305957

Luminaire Tested: P3SQAS13R459024DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R459024DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

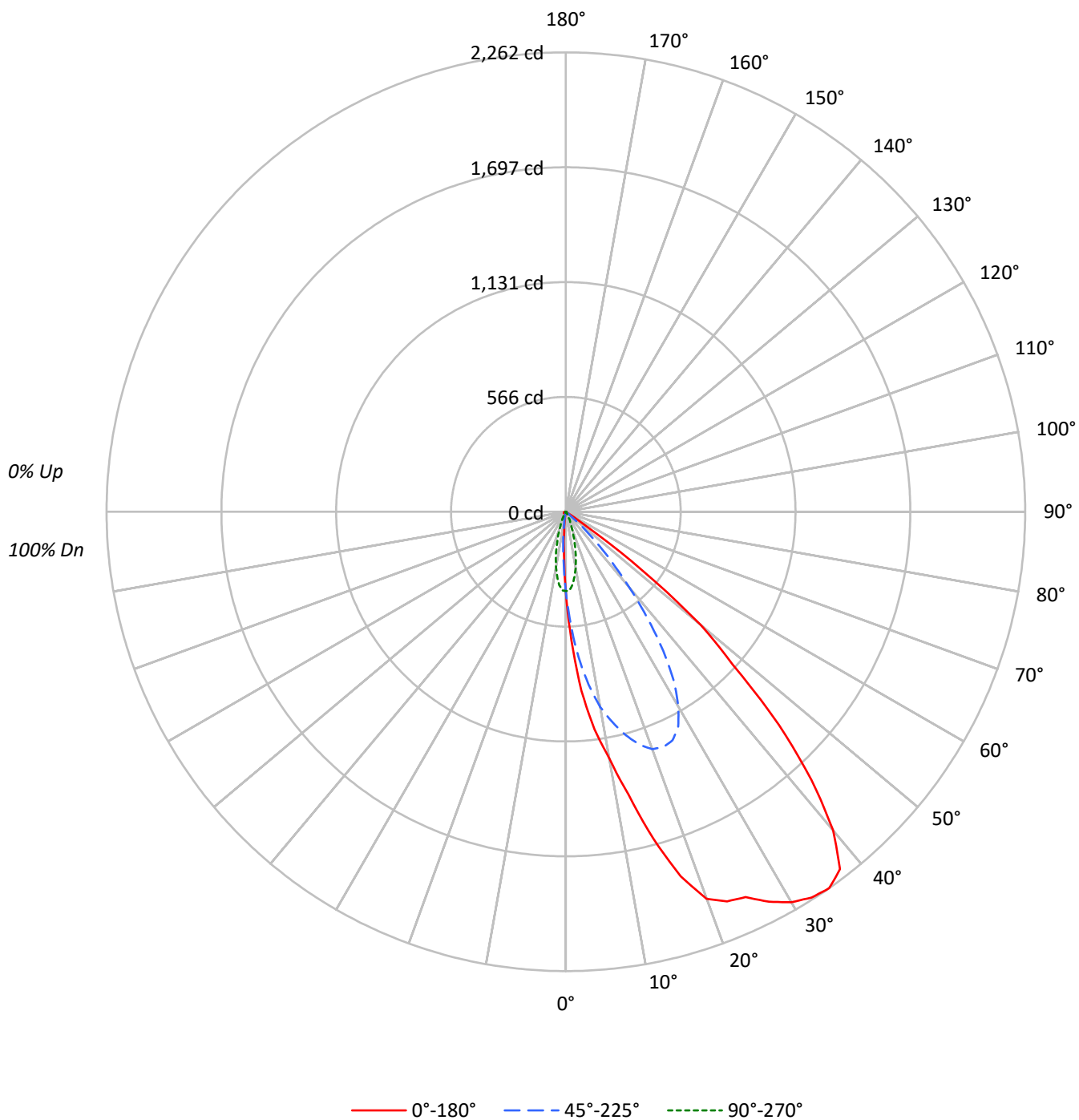
Lumens per Lamp: N/A
Luminaire Lumens: 1025.0 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	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	64	73	67	63	71	66	62	70	65	62	62	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	67167	67167	67167	67167	67167
5°	153086	124180	62842	25189	17184
10°	215714	170595	48564	5544	2553
15°	297276	202974	31024	1836	1533
20°	371719	227958	16183	1265	1265
25°	397783	236032	7487	969	1140
30°	441521	220423	3401	1014	1193
35°	475616	175723	1072	1072	1451
40°	460208	108881	585	1349	1731
45°	361394	51367	633	1681	2095
50°	232189	5975	911	2063	2760
55°	35251	510	1021	2582	3333
60°	586	586	1171	2962	3548
65°	693	693	1386	3138	4197
70°	856	856	1712	3474	4733
75°	599	1131	2262	3993	5124
80°	893	1686	2579	4265	5951
85°	0	1778	3359	5138	5138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 361394 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	4.2
10°-20°	154.3	15.1
20°-30°	271.1	26.5
30°-40°	307.9	30.0
40°-50°	199.4	19.4
50°-60°	39.1	3.8
60°-70°	4.7	0.5
70°-80°	4.0	0.4
80°-90°	1.8	0.2
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°	468.1	45.7
0°-40°	776.0	75.7
0°-60°	1014.5	99.0
0°-90°	1025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1025.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	390	390	390	390	390	
5°	886	718	364	146	99	94
15°	1667	1138	174	10	9	480
25°	2093	1242	39	5	6	981
35°	2262	836	5	5	7	1391
45°	1484	211	3	7	9	1118
55°	117	2	3	9	11	224
65°	2	2	3	8	10	2
75°	1	2	3	6	8	1
85°	0	1	2	3	3	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°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0
2.5°	633.5	631.8	634.3	617.2	616.3	603.5	600.1	585.5	565.8	556.3	534.0
5°	885.5	876.9	876.9	856.4	849.5	834.9	810.1	779.2	753.5	718.3	680.6
7.5°	1080.1	1078.4	1078.4	1060.4	1043.2	1022.7	989.2	954.1	912.9	858.9	804.1
10°	1233.5	1236.1	1228.4	1212.1	1187.2	1165.0	1125.5	1082.7	1032.1	975.5	902.6
12.5°	1427.3	1408.4	1402.4	1365.5	1333.8	1291.0	1243.8	1195.0	1132.4	1061.2	978.9
15°	1667.3	1643.3	1619.3	1570.4	1517.3	1451.3	1377.5	1305.5	1225.0	1138.4	1035.5
17.5°	1881.6	1881.6	1849.9	1772.7	1704.1	1606.4	1507.0	1411.0	1315.8	1201.8	1073.2
20°	2028.2	2020.5	1996.5	1939.9	1861.9	1751.3	1621.9	1487.3	1372.4	1243.8	1094.7
22.5°	2076.2	2074.5	2075.3	2041.9	1979.3	1864.4	1705.9	1547.3	1403.3	1254.1	1084.4
25°	2093.3	2096.7	2105.3	2092.5	2045.3	1930.4	1757.3	1575.6	1412.7	1242.1	1044.9
27.5°	2164.5	2157.6	2167.0	2158.5	2105.3	1968.2	1767.6	1568.7	1392.1	1198.4	974.7
30°	2220.2	2218.5	2234.8	2227.0	2157.6	1992.2	1758.1	1543.0	1341.5	1108.4	864.1
32.5°	2251.9	2252.8	2257.0	2225.3	2122.5	1939.9	1711.9	1490.7	1246.4	990.9	720.1
35°	2262.2	2257.0	2233.0	2155.0	2014.5	1819.0	1597.8	1366.4	1117.0	835.8	569.2
37.5°	2217.6	2191.0	2129.3	2012.7	1849.9	1667.3	1452.1	1209.5	939.5	660.1	424.3
40°	2047.0	2011.9	1933.9	1814.7	1663.0	1486.4	1266.1	1012.4	728.6	484.3	298.3
42.5°	1791.6	1773.6	1692.1	1588.4	1459.8	1281.5	1054.4	797.2	539.2	334.3	190.3
45°	1483.8	1460.7	1409.3	1317.5	1216.4	1029.5	817.8	570.9	367.7	210.9	94.3
47.5°	1112.7	1114.4	1079.2	1009.8	910.4	754.3	559.8	383.2	230.6	108.9	21.4
50°	866.6	854.6	804.9	733.8	618.1	502.3	361.7	241.7	121.7	22.3	1.7
52.5°	480.0	487.8	461.2	438.0	378.0	300.0	213.4	122.6	25.7	2.6	1.7
55°	117.4	124.3	119.2	121.7	126.0	112.3	86.6	24.0	2.6	1.7	1.7
57.5°	2.6	2.6	2.6	2.6	4.3	6.0	6.0	1.7	1.7	1.7	1.7
60°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
62.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
67.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
70°	1.7	1.7	1.7	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7
82.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
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°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0
2.5°	522.9	506.6	476.6	387.5	311.2	251.2	215.2	211.7
5°	647.2	603.5	540.0	363.5	229.7	145.7	105.4	99.4
7.5°	745.8	684.1	586.3	324.0	156.9	74.6	41.1	34.3
10°	827.2	739.8	610.3	277.7	98.6	31.7	17.1	14.6
12.5°	882.9	777.5	614.6	226.3	56.6	15.4	11.1	10.3
15°	918.9	789.5	594.1	174.0	31.7	10.3	9.4	8.6
17.5°	933.5	779.2	554.6	126.0	17.1	7.7	7.7	7.7
20°	926.6	745.8	496.3	88.3	11.1	6.9	6.9	6.9
22.5°	894.1	688.3	423.5	59.1	7.7	6.0	6.0	6.0
25°	829.8	610.3	346.3	39.4	5.1	5.1	6.0	6.0
27.5°	733.8	514.3	264.9	26.6	4.3	5.1	6.0	6.0
30°	612.9	407.2	190.3	17.1	4.3	5.1	5.1	6.0
32.5°	486.9	296.6	125.2	10.3	3.4	5.1	6.0	6.9
35°	353.2	202.3	79.7	5.1	4.3	5.1	6.0	6.9
37.5°	247.7	132.0	46.3	3.4	4.3	5.1	6.9	6.9
40°	161.2	73.7	17.1	2.6	4.3	6.0	6.9	7.7
42.5°	84.0	25.7	3.4	2.6	4.3	6.0	7.7	8.6
45°	21.4	3.4	0.9	2.6	5.1	6.9	8.6	8.6
47.5°	2.6	0.9	0.9	3.4	5.1	7.7	8.6	9.4
50°	0.9	1.7	1.7	3.4	5.1	7.7	9.4	10.3
52.5°	1.7	1.7	1.7	3.4	6.0	7.7	10.3	11.1
55°	1.7	1.7	1.7	3.4	6.0	8.6	10.3	11.1
57.5°	1.7	1.7	1.7	3.4	6.0	8.6	10.3	10.3
60°	1.7	1.7	1.7	3.4	6.0	8.6	10.3	10.3
62.5°	1.7	1.7	2.6	3.4	6.0	7.7	10.3	10.3
65°	1.7	2.6	2.6	3.4	6.0	7.7	9.4	10.3
67.5°	1.7	1.7	2.6	3.4	6.0	7.7	9.4	10.3
70°	1.7	1.7	2.6	3.4	5.1	6.9	8.6	9.4
72.5°	1.7	1.7	2.6	3.4	5.1	6.9	7.7	8.6
75°	1.7	1.7	2.6	3.4	4.3	6.0	7.7	7.7
77.5°	1.7	1.7	2.6	2.6	4.3	5.1	6.9	6.9
80°	1.7	1.7	2.6	2.6	3.4	4.3	5.1	6.0
82.5°	1.7	1.7	1.7	2.6	2.6	3.4	4.3	4.3
85°	1.7	1.7	1.7	1.7	1.7	2.6	2.6	2.6
87.5°	0.9	1.7	1.7	1.7	1.7	1.7	1.7	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)