

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: P1346083

Luminaire Tested: P3A13R409827DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R409827DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

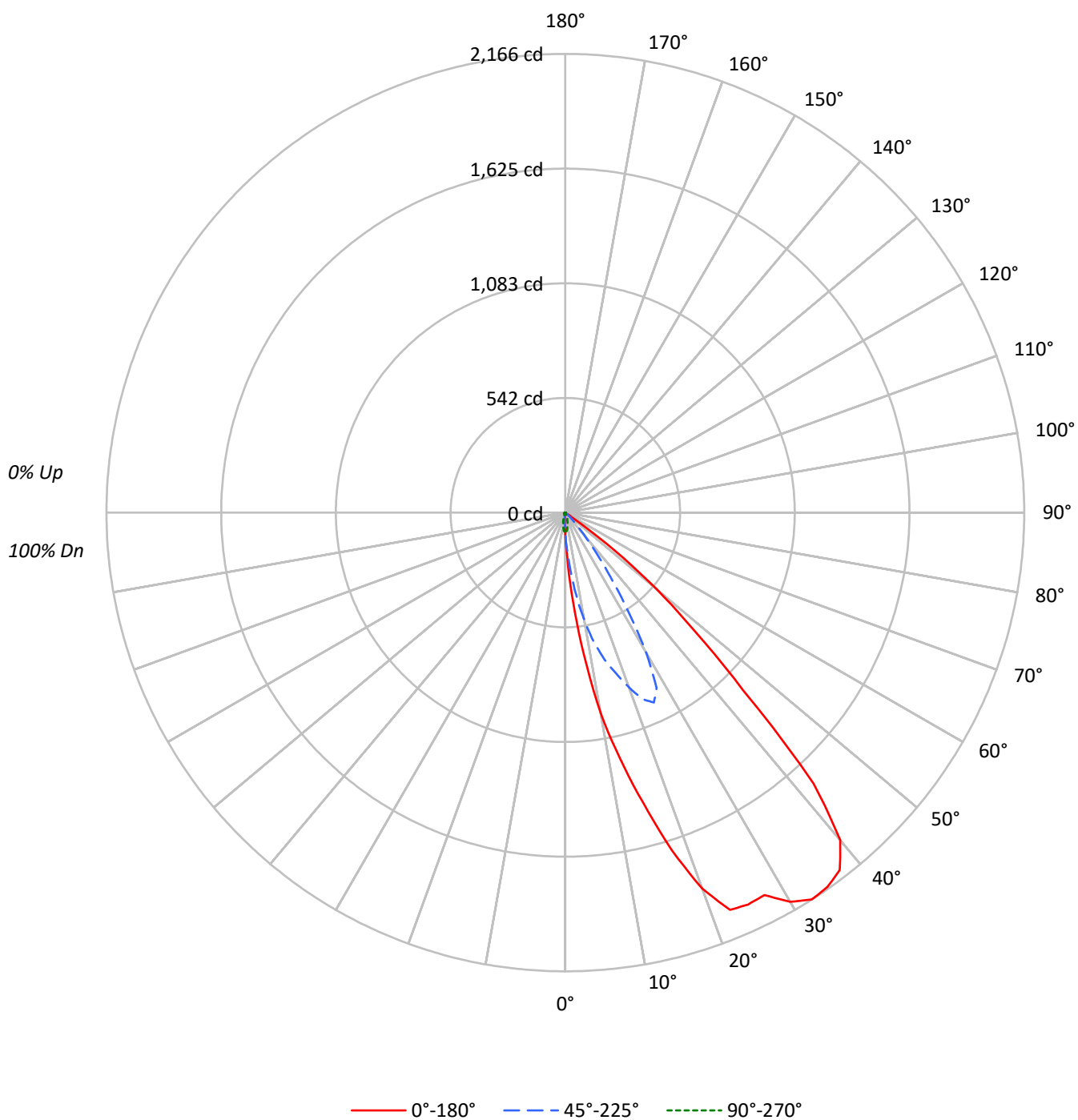
Lumens per Lamp: N/A
Luminaire Lumens: 799.1 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	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	77	71	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	60	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	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20722	20722	20722	20722	20722
5°	93506	59608	18578	7132	5195
10°	214425	115184	13093	2561	1959
15°	321795	163429	8127	1385	1226
20°	440595	204861	4737	793	957
25°	493916	239361	2444	653	823
30°	537247	193220	1038	506	861
35°	577385	98886	375	723	1098
40°	577596	39445	200	773	1345
45°	368782	13180	434	1271	1892
50°	191448	1603	682	1603	2320
55°	16516	268	765	2064	2829
60°	614	307	877	2368	3245
65°	726	363	1401	2439	3528
70°	449	449	1731	2629	3462
75°	593	593	1694	2881	3982
80°	884	884	2526	2526	3410
85°	0	1761	5032	3522	3522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 368782 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.4	2.3
10°-20°	108.1	13.5
20°-30°	236.8	29.6
30°-40°	269.8	33.8
40°-50°	142.4	17.8
50°-60°	16.8	2.1
60°-70°	3.0	0.4
70°-80°	2.5	0.3
80°-90°	1.1	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°	363.4	45.5
0°-40°	633.2	79.2
0°-60°	792.4	99.2
0°-90°	799.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	799.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	94	94	94	94	94	
5°	425	271	84	32	24	57
15°	1418	720	36	6	5	418
25°	2041	989	10	3	3	941
35°	2157	369	1	3	4	1337
45°	1189	42	1	4	6	959
55°	43	1	2	5	7	134
65°	1	1	3	5	7	1
75°	1	1	2	3	5	1
85°	0	1	2	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
2.5°	210.7	210.7	210.0	203.9	203.3	202.6	191.8	189.1	176.3	167.5	127.6
5°	424.8	415.3	414.6	403.8	385.6	361.3	345.8	320.8	296.5	270.8	157.3
7.5°	676.7	684.8	662.5	651.0	610.5	581.4	536.9	497.7	443.0	391.7	181.7
10°	963.0	948.8	926.5	904.2	860.3	808.3	742.2	672.6	593.6	517.3	195.2
12.5°	1186.5	1168.3	1154.8	1124.4	1081.2	1014.3	935.3	842.1	737.4	627.4	194.5
15°	1417.5	1399.2	1368.8	1341.8	1277.7	1202.7	1116.9	994.0	865.7	719.9	180.3
17.5°	1671.4	1647.7	1614.0	1572.8	1510.6	1427.6	1318.9	1168.9	987.3	795.5	154.6
20°	1888.1	1874.0	1840.2	1791.6	1730.8	1649.8	1524.2	1358.0	1136.5	877.9	122.9
22.5°	2030.0	2017.1	1994.2	1951.6	1905.7	1819.3	1704.5	1522.1	1261.5	952.8	93.2
25°	2041.4	2036.0	2030.0	2015.8	1988.1	1926.6	1814.5	1618.0	1339.1	989.3	68.9
27.5°	2035.4	2033.3	2032.0	2024.6	2006.3	1945.5	1830.7	1632.2	1329.0	932.6	50.6
30°	2121.8	2115.7	2112.3	2088.0	2040.1	1946.2	1796.3	1555.9	1181.1	763.1	36.5
32.5°	2165.7	2164.3	2161.0	2137.3	2069.8	1947.6	1738.2	1371.5	936.6	551.0	25.0
35°	2156.9	2150.2	2138.0	2094.1	2000.2	1846.9	1550.5	1095.3	676.0	369.4	16.2
37.5°	2127.2	2111.7	2088.0	2009.0	1884.1	1674.7	1257.4	806.3	459.9	239.1	9.5
40°	2017.8	1996.9	1959.7	1863.2	1699.1	1380.3	929.9	545.0	301.9	137.8	2.7
42.5°	1734.8	1707.8	1680.8	1572.8	1385.0	1029.2	611.8	337.0	172.2	75.6	0.7
45°	1189.2	1155.4	1118.3	1040.0	889.4	623.3	364.0	189.8	89.1	42.5	0.7
47.5°	825.9	810.4	745.5	645.6	495.0	330.2	188.4	93.2	47.3	19.6	0.7
50°	561.2	543.6	468.0	371.4	263.4	158.0	86.4	46.6	20.9	4.7	0.7
52.5°	294.4	272.8	224.9	171.5	106.7	66.2	37.8	20.3	6.1	0.7	0.7
55°	43.2	39.8	32.4	26.3	23.6	18.2	10.8	4.7	0.7	0.7	1.4
57.5°	1.4	1.4	1.4	1.4	2.0	2.0	1.4	0.7	0.7	0.7	1.4
60°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	1.4
62.5°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	1.4
65°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	1.4
67.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	1.4	2.0
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.0
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.0
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4
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):

	90°	112.5°	135°	157.5°	180°
0°	94.5	94.5	94.5	94.5	94.5
2.5°	93.2	68.9	53.3	45.9	45.2
5°	84.4	49.3	32.4	25.0	23.6
7.5°	71.6	34.4	18.9	13.5	12.8
10°	58.8	23.6	11.5	9.5	8.8
12.5°	46.6	15.5	8.1	7.4	6.8
15°	35.8	10.1	6.1	5.4	5.4
17.5°	27.0	6.8	4.7	4.7	4.7
20°	20.3	4.7	3.4	4.1	4.1
22.5°	14.2	3.4	2.7	3.4	3.4
25°	10.1	2.7	2.7	3.4	3.4
27.5°	6.8	2.0	2.0	2.7	3.4
30°	4.1	1.4	2.0	2.7	3.4
32.5°	2.0	1.4	2.0	3.4	3.4
35°	1.4	2.0	2.7	3.4	4.1
37.5°	0.7	2.0	2.7	4.1	4.1
40°	0.7	2.0	2.7	4.1	4.7
42.5°	1.4	2.7	3.4	4.7	5.4
45°	1.4	2.7	4.1	5.4	6.1
47.5°	1.4	2.7	4.7	6.1	6.1
50°	2.0	3.4	4.7	6.1	6.8
52.5°	2.0	3.4	4.7	6.8	7.4
55°	2.0	3.4	5.4	6.8	7.4
57.5°	2.0	4.1	5.4	6.8	7.4
60°	2.0	3.4	5.4	6.8	7.4
62.5°	2.7	3.4	4.7	6.8	6.8
65°	2.7	3.4	4.7	6.8	6.8
67.5°	2.7	3.4	4.7	6.1	6.1
70°	2.7	3.4	4.1	5.4	5.4
72.5°	2.7	3.4	4.1	4.7	5.4
75°	2.0	2.7	3.4	4.1	4.7
77.5°	2.0	2.7	2.7	4.1	4.1
80°	2.0	2.0	2.0	2.7	2.7
82.5°	2.0	2.0	1.4	2.0	2.0
85°	2.0	1.4	1.4	1.4	1.4
87.5°	1.4	1.4	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)