

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: P1342393

Luminaire Tested: P3A09R409030D2WDE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342393
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: P3A09R409030D2WDE010 E3CA301MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R40 optic, 3000K CCT AND, 90CRI ,
E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

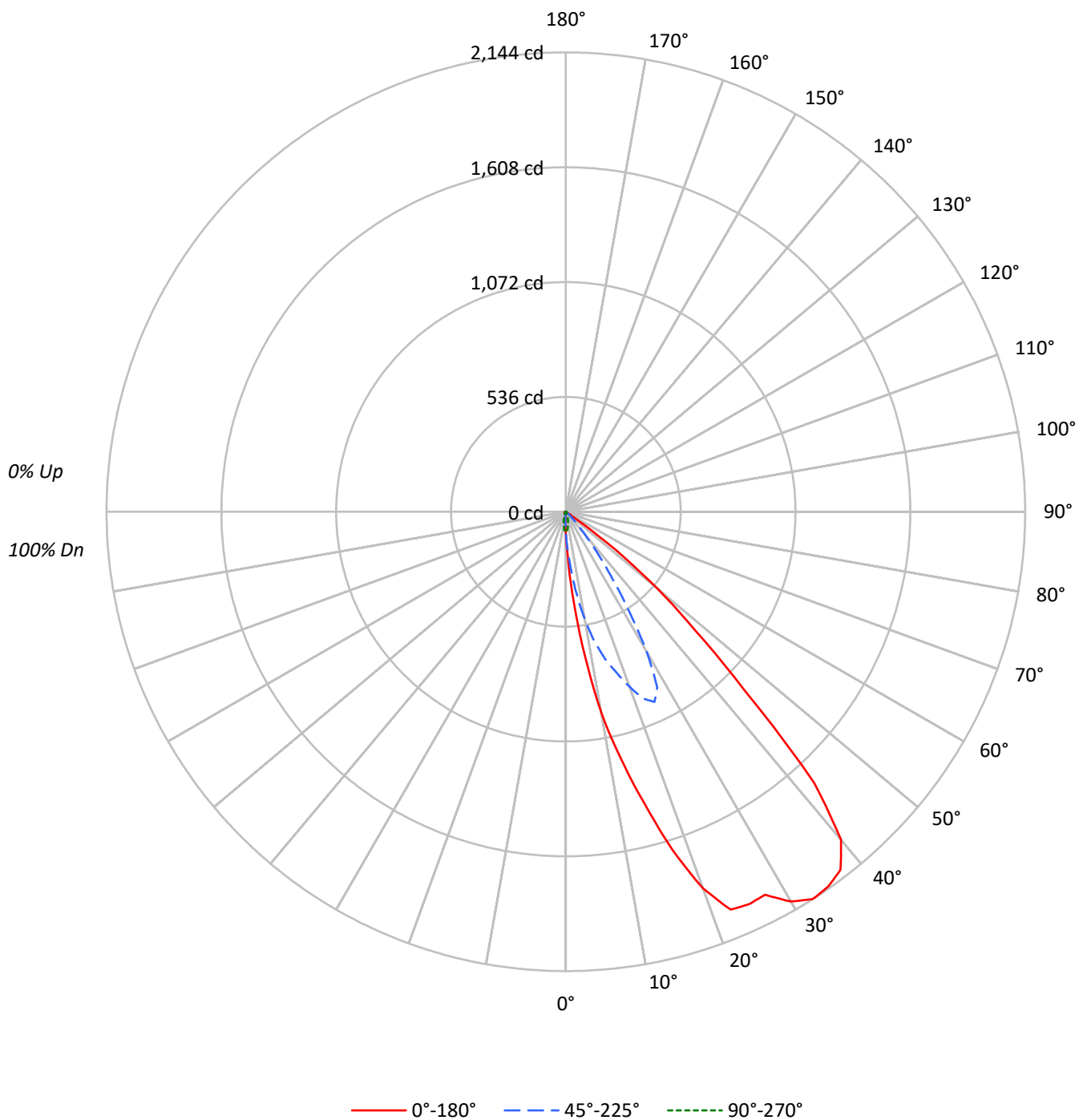
Lumens per Lamp: N/A
Luminaire Lumens: 791.0 lumens
Efficiency: N/A
Efficacy: 53.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.7
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	52	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°	20525	20525	20525	20525	20525
5°	92560	59014	18402	7066	5151
10°	212265	114026	12959	2538	1937
15°	318572	161794	8036	1362	1203
20°	436185	202808	4690	770	933
25°	488980	236965	2419	653	798
30°	531854	191270	1013	506	836
35°	571603	97895	348	723	1071
40°	571814	39045	200	773	1345
45°	365092	13056	403	1240	1861
50°	189537	1603	682	1603	2286
55°	16363	268	765	2026	2829
60°	570	307	877	2324	3245
65°	675	363	1401	2439	3476
70°	449	449	1731	2565	3398
75°	593	593	1694	2796	3982
80°	884	884	2526	2526	3410
85°	0	1761	5032	3271	3271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 365092 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.2	2.3
10°-20°	107.1	13.5
20°-30°	234.5	29.6
30°-40°	267.1	33.8
40°-50°	140.9	17.8
50°-60°	16.6	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°	359.8	45.5
0°-40°	626.9	79.3
0°-60°	784.4	99.2
0°-90°	791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	94	94	94	94	94	
5°	420	268	84	32	23	57
15°	1403	713	35	6	5	413
25°	2021	979	10	3	3	931
35°	2135	366	1	3	4	1323
45°	1177	42	1	4	6	949
55°	43	1	2	5	7	133
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°	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
2.5°	208.6	208.6	207.9	201.9	201.2	200.6	189.9	187.2	174.5	165.8	126.4
5°	420.5	411.2	410.5	399.8	381.7	357.7	342.3	317.6	293.5	268.1	155.8
7.5°	669.9	677.9	655.8	644.5	604.4	575.6	531.5	492.7	438.6	387.8	179.8
10°	953.3	939.3	917.2	895.2	851.7	800.2	734.7	665.9	587.6	512.1	193.2
12.5°	1174.6	1156.6	1143.2	1113.1	1070.3	1004.1	925.9	833.7	730.0	621.1	192.5
15°	1403.3	1385.2	1355.1	1328.4	1264.9	1190.7	1105.8	984.1	857.1	712.7	178.5
17.5°	1654.6	1631.2	1597.8	1557.0	1495.5	1413.3	1305.7	1157.2	977.4	787.5	153.1
20°	1869.2	1855.2	1821.8	1773.6	1713.5	1633.2	1508.9	1344.4	1125.2	869.1	121.7
22.5°	2009.6	1996.9	1974.2	1932.1	1886.6	1801.0	1687.4	1506.9	1248.8	943.3	92.3
25°	2021.0	2015.6	2009.6	1995.6	1968.2	1907.3	1796.4	1601.8	1325.7	979.4	68.2
27.5°	2015.0	2013.0	2011.6	2004.3	1986.2	1926.1	1812.4	1615.9	1315.7	923.3	50.1
30°	2100.5	2094.5	2091.2	2067.1	2019.7	1926.7	1778.3	1540.3	1169.3	755.4	36.1
32.5°	2144.0	2142.7	2139.3	2115.9	2049.1	1928.1	1720.8	1357.8	927.3	545.5	24.7
35°	2135.3	2128.6	2116.6	2073.1	1980.2	1828.5	1535.0	1084.4	669.2	365.7	16.0
37.5°	2105.9	2090.5	2067.1	1988.9	1865.2	1658.0	1244.8	798.2	455.3	236.7	9.4
40°	1997.6	1976.9	1940.1	1844.5	1682.0	1366.5	920.6	539.5	298.8	136.4	2.7
42.5°	1717.5	1690.7	1664.0	1557.0	1371.2	1018.9	605.7	333.6	170.5	74.9	0.7
45°	1177.3	1143.9	1107.1	1029.6	880.5	617.1	360.3	187.9	88.2	42.1	0.7
47.5°	817.6	802.2	738.1	639.1	490.0	326.9	186.5	92.3	46.8	19.4	0.7
50°	555.6	538.2	463.3	367.7	260.7	156.4	85.6	46.1	20.7	4.7	0.7
52.5°	291.5	270.1	222.6	169.8	105.6	65.5	37.4	20.1	6.0	0.7	0.7
55°	42.8	39.4	32.1	26.1	23.4	18.1	10.7	4.7	0.7	0.7	1.3
57.5°	1.3	1.3	1.3	1.3	2.0	2.0	1.3	0.7	0.7	0.7	1.3
60°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	1.3
62.5°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	1.3
65°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	1.3
67.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	1.3	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	1.3	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	1.3	2.0
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3
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	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.3
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°	93.6	93.6	93.6	93.6	93.6
2.5°	92.3	68.2	52.8	45.5	44.8
5°	83.6	48.8	32.1	24.7	23.4
7.5°	70.9	34.1	18.7	13.4	12.7
10°	58.2	23.4	11.4	9.4	8.7
12.5°	46.1	15.4	8.0	7.4	6.7
15°	35.4	10.0	6.0	5.3	5.3
17.5°	26.7	6.7	4.7	4.7	4.7
20°	20.1	4.7	3.3	4.0	4.0
22.5°	14.0	3.3	2.7	3.3	3.3
25°	10.0	2.7	2.7	3.3	3.3
27.5°	6.7	2.0	2.0	2.7	3.3
30°	4.0	1.3	2.0	2.7	3.3
32.5°	2.0	1.3	2.0	3.3	3.3
35°	1.3	2.0	2.7	3.3	4.0
37.5°	0.7	2.0	2.7	4.0	4.0
40°	0.7	2.0	2.7	4.0	4.7
42.5°	1.3	2.7	3.3	4.7	5.3
45°	1.3	2.7	4.0	5.3	6.0
47.5°	1.3	2.7	4.7	6.0	6.0
50°	2.0	3.3	4.7	6.0	6.7
52.5°	2.0	3.3	4.7	6.7	7.4
55°	2.0	3.3	5.3	6.7	7.4
57.5°	2.0	4.0	5.3	6.7	7.4
60°	2.0	3.3	5.3	6.7	7.4
62.5°	2.7	3.3	4.7	6.7	6.7
65°	2.7	3.3	4.7	6.7	6.7
67.5°	2.7	3.3	4.7	6.0	6.0
70°	2.7	3.3	4.0	5.3	5.3
72.5°	2.7	3.3	4.0	4.7	5.3
75°	2.0	2.7	3.3	4.0	4.7
77.5°	2.0	2.7	2.7	4.0	4.0
80°	2.0	2.0	2.0	2.7	2.7
82.5°	2.0	2.0	1.3	2.0	2.0
85°	2.0	1.3	1.3	1.3	1.3
87.5°	1.3	1.3	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)