

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: P1334389

Luminaire Tested: P3A02R209050DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R209050DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 5000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

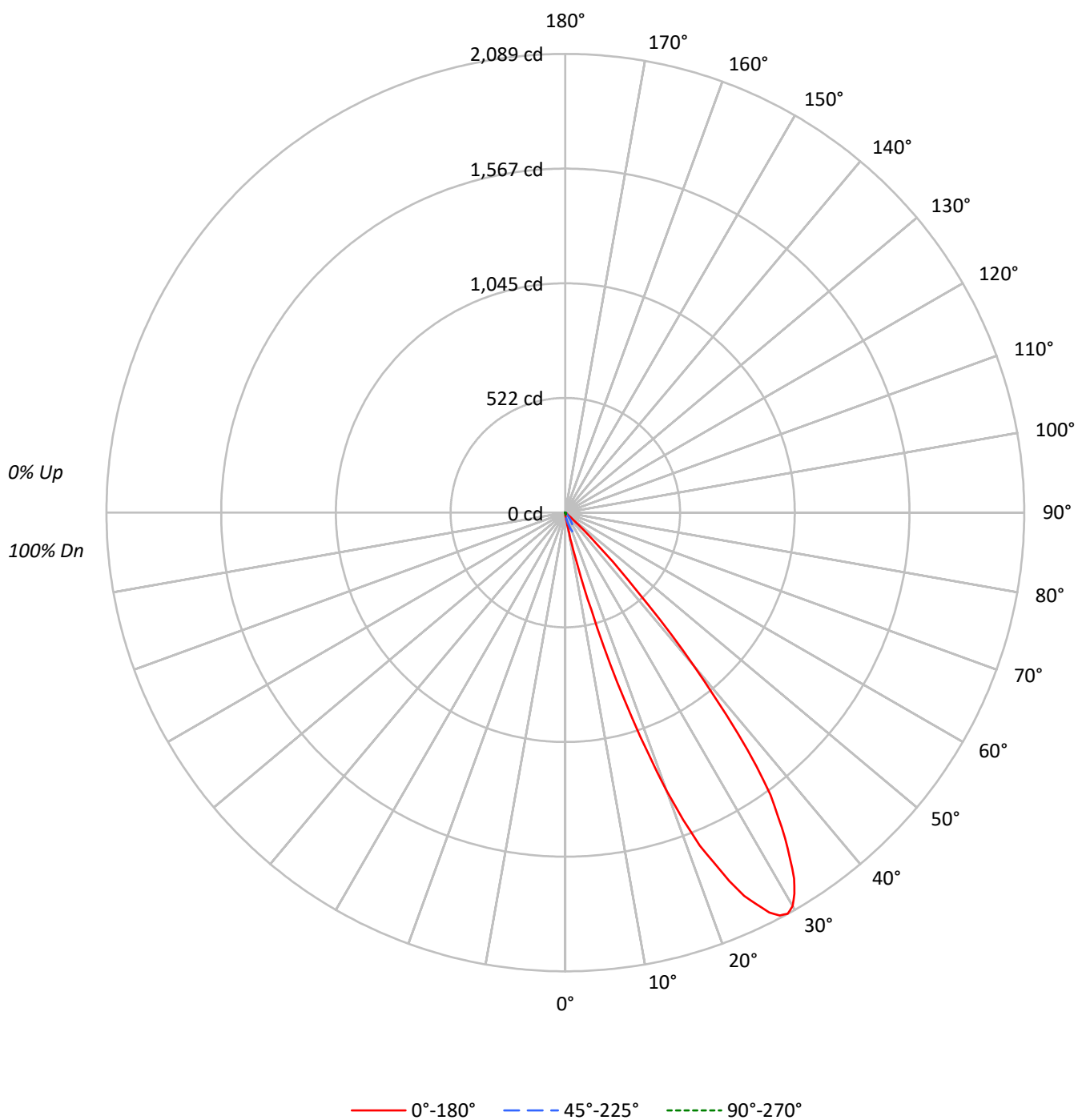
Lumens per Lamp: N/A
Luminaire Lumens: 293.0 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2215	2215	2215	2215	2215
5°	5085	3808	2113	1277	1123
10°	16032	6635	1715	713	534
15°	103905	12259	1271	250	68
20°	313627	20955	863	0	0
25°	465777	21171	508	0	0
30°	523777	16078	203	0	0
35°	451918	9610	134	0	0
40°	260230	3263	0	0	0
45°	63479	1333	93	0	93
50°	7607	375	102	102	273
55°	1032	0	191	191	421
60°	132	0	351	351	570
65°	156	156	571	571	830
70°	192	192	705	705	833
75°	0	254	932	678	932
80°	0	379	1010	631	1010
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 63883 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.5
10°-20°	27.2	9.3
20°-30°	118.4	40.4
30°-40°	119.2	40.7
40°-50°	23.9	8.2
50°-60°	1.2	0.4
60°-70°	0.8	0.3
70°-80°	0.7	0.2
80°-90°	0.4	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°	146.9	50.1
0°-40°	266.0	90.8
0°-60°	291.2	99.4
0°-90°	293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	293.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	23	17	10	6	5	4
15°	458	54	6	1	0	179
25°	1925	88	2	0	0	868
35°	1688	36	0	0	0	1004
45°	205	4	0	0	0	223
55°	3	0	0	0	1	5
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
2.5°	15.2	15.2	14.9	14.9	14.6	14.9	14.4	14.6	14.6	14.4	13.0
5°	23.1	23.7	23.4	23.4	23.1	23.4	22.9	22.3	21.8	21.8	17.3
7.5°	38.0	37.7	37.2	37.5	36.7	36.2	35.6	35.4	33.8	33.0	22.6
10°	72.0	73.6	72.3	72.0	67.3	67.0	63.8	59.3	55.3	53.2	29.8
12.5°	198.3	206.8	193.5	187.1	183.4	169.1	162.9	147.3	132.1	120.7	37.7
15°	457.7	478.7	451.9	453.8	431.4	390.5	354.6	323.8	287.4	250.7	54.0
17.5°	896.9	879.9	865.2	840.5	795.1	735.0	657.6	579.2	511.4	440.5	75.2
20°	1344.0	1328.8	1295.6	1241.6	1183.7	1094.6	1002.7	884.9	770.9	664.0	89.8
21°	1497.9	1492.8	1438.4	1405.1	1315.8	1230.7	1124.7	998.7	870.3	743.8	92.2
22°	1635.3	1605.0	1575.8	1526.6	1437.8	1345.3	1227.3	1094.6	955.4	814.7	92.5
23°	1730.5	1716.7	1689.0	1633.5	1545.2	1436.5	1312.1	1173.3	1026.6	865.0	91.7
24°	1835.8	1818.2	1777.8	1712.9	1623.9	1516.5	1374.6	1236.9	1077.4	907.2	89.6
25°	1925.1	1897.7	1849.8	1779.9	1682.6	1571.8	1429.1	1277.8	1112.7	935.7	87.5
26°	1983.0	1968.1	1906.7	1830.7	1726.5	1612.2	1466.5	1309.2	1135.6	948.7	84.0
27°	2043.4	2016.0	1955.6	1868.2	1755.2	1638.5	1487.8	1324.3	1143.6	949.2	79.7
28°	2077.9	2048.1	1979.8	1887.9	1773.8	1653.1	1500.0	1329.1	1142.0	941.0	74.7
29°	2088.8	2051.3	1984.6	1891.0	1778.3	1654.2	1498.2	1322.2	1127.9	920.8	68.8
30°	2068.6	2030.3	1967.1	1875.9	1764.0	1640.9	1480.9	1299.3	1102.9	891.8	63.5
31°	2024.5	1992.1	1930.9	1839.5	1732.1	1609.8	1441.8	1261.8	1060.4	853.0	57.4
32°	1966.3	1934.4	1874.3	1791.6	1682.4	1559.0	1388.4	1203.4	1010.4	795.1	51.3
33°	1878.8	1860.5	1806.5	1727.6	1618.3	1486.5	1316.6	1133.5	939.1	730.7	46.0
34°	1790.3	1767.2	1729.4	1643.0	1525.5	1394.0	1223.0	1037.0	852.2	658.7	40.9
35°	1688.2	1674.4	1615.1	1546.0	1428.0	1293.5	1123.6	943.1	750.9	578.4	35.9
36°	1589.3	1568.1	1500.6	1427.5	1312.9	1167.5	999.8	830.2	663.5	503.2	30.6
37°	1445.8	1413.4	1365.3	1288.2	1154.2	1030.3	877.2	719.8	555.8	421.9	24.7
38°	1277.0	1261.8	1195.1	1117.5	1006.7	889.2	737.7	604.2	458.5	352.2	18.9
39°	1077.9	1077.6	1013.8	957.8	849.3	743.5	606.9	490.4	378.5	283.6	14.6
40°	909.1	877.7	838.4	768.0	684.8	594.9	475.3	383.8	293.7	228.6	11.4
42.5°	476.6	474.0	450.8	397.9	351.4	298.5	237.4	197.8	154.7	126.0	7.2
45°	204.7	206.0	190.1	182.1	164.0	141.9	119.9	99.9	85.6	69.4	4.3
47.5°	51.8	49.7	49.2	51.0	51.0	49.4	44.4	41.7	38.5	35.4	2.4
50°	22.3	21.8	21.3	21.3	19.9	19.1	17.8	16.2	14.9	13.3	1.1
52.5°	8.2	8.5	8.8	8.5	8.5	8.2	8.2	8.0	7.2	6.4	0.5
55°	2.7	2.7	2.7	2.9	2.9	3.2	3.2	3.2	3.2	2.9	0.0
57.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	10.1	10.1	10.1	10.1	10.1	10.1
2.5°	11.7	10.4	8.8	7.4	7.2	6.9
5°	13.0	9.6	7.2	5.8	5.3	5.1
7.5°	14.1	8.8	5.8	4.3	3.7	3.5
10°	14.6	7.7	4.8	3.2	2.4	2.4
12.5°	14.9	6.6	3.5	2.1	1.3	1.3
15°	14.6	5.6	2.7	1.1	0.3	0.3
17.5°	13.3	4.5	1.6	0.3	0.0	0.0
20°	11.4	3.7	1.1	0.0	0.0	0.0
21°	10.9	3.2	0.8	0.0	0.0	0.0
22°	10.1	2.9	0.5	0.0	0.0	0.0
23°	9.3	2.7	0.5	0.0	0.0	0.0
24°	8.5	2.4	0.3	0.0	0.0	0.0
25°	8.0	2.1	0.3	0.0	0.0	0.0
26°	7.4	1.9	0.3	0.0	0.0	0.0
27°	6.6	1.6	0.0	0.0	0.0	0.0
28°	6.1	1.3	0.0	0.0	0.0	0.0
29°	5.3	1.1	0.0	0.0	0.0	0.0
30°	4.5	0.8	0.0	0.0	0.0	0.0
31°	3.7	0.8	0.0	0.0	0.0	0.0
32°	3.2	0.5	0.0	0.0	0.0	0.0
33°	2.7	0.5	0.0	0.0	0.0	0.0
34°	2.4	0.5	0.0	0.0	0.0	0.0
35°	2.1	0.5	0.0	0.0	0.0	0.0
36°	1.6	0.3	0.0	0.0	0.0	0.0
37°	1.3	0.3	0.0	0.0	0.0	0.0
38°	1.1	0.3	0.0	0.0	0.0	0.0
39°	0.8	0.0	0.0	0.0	0.0	0.0
40°	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	0.3	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.3	0.0	0.0	0.3	0.3
47.5°	0.0	0.3	0.0	0.0	0.3	0.5
50°	0.0	0.3	0.3	0.3	0.5	0.8
52.5°	0.0	0.5	0.3	0.3	0.8	0.8
55°	0.3	0.5	0.3	0.5	1.1	1.1
57.5°	0.3	0.5	0.5	0.8	1.1	1.3
60°	0.5	0.8	0.8	0.8	1.3	1.3
62.5°	0.5	0.8	1.1	1.1	1.3	1.6
65°	0.5	1.1	1.1	1.1	1.3	1.6
67.5°	0.8	1.1	1.1	1.1	1.3	1.6
70°	0.8	1.1	1.1	1.1	1.3	1.3
72.5°	0.8	1.1	0.8	1.1	1.1	1.3
75°	0.8	1.1	0.8	0.8	1.1	1.1
77.5°	0.5	0.8	0.8	0.5	0.8	0.8
80°	0.5	0.8	0.5	0.5	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.8	0.5	0.3	0.5	0.5
85°	0.5	0.8	0.5	0.3	0.3	0.3
87.5°	0.5	0.8	0.5	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)