

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: P1334113

Luminaire Tested: P3A02R159735DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R159735DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

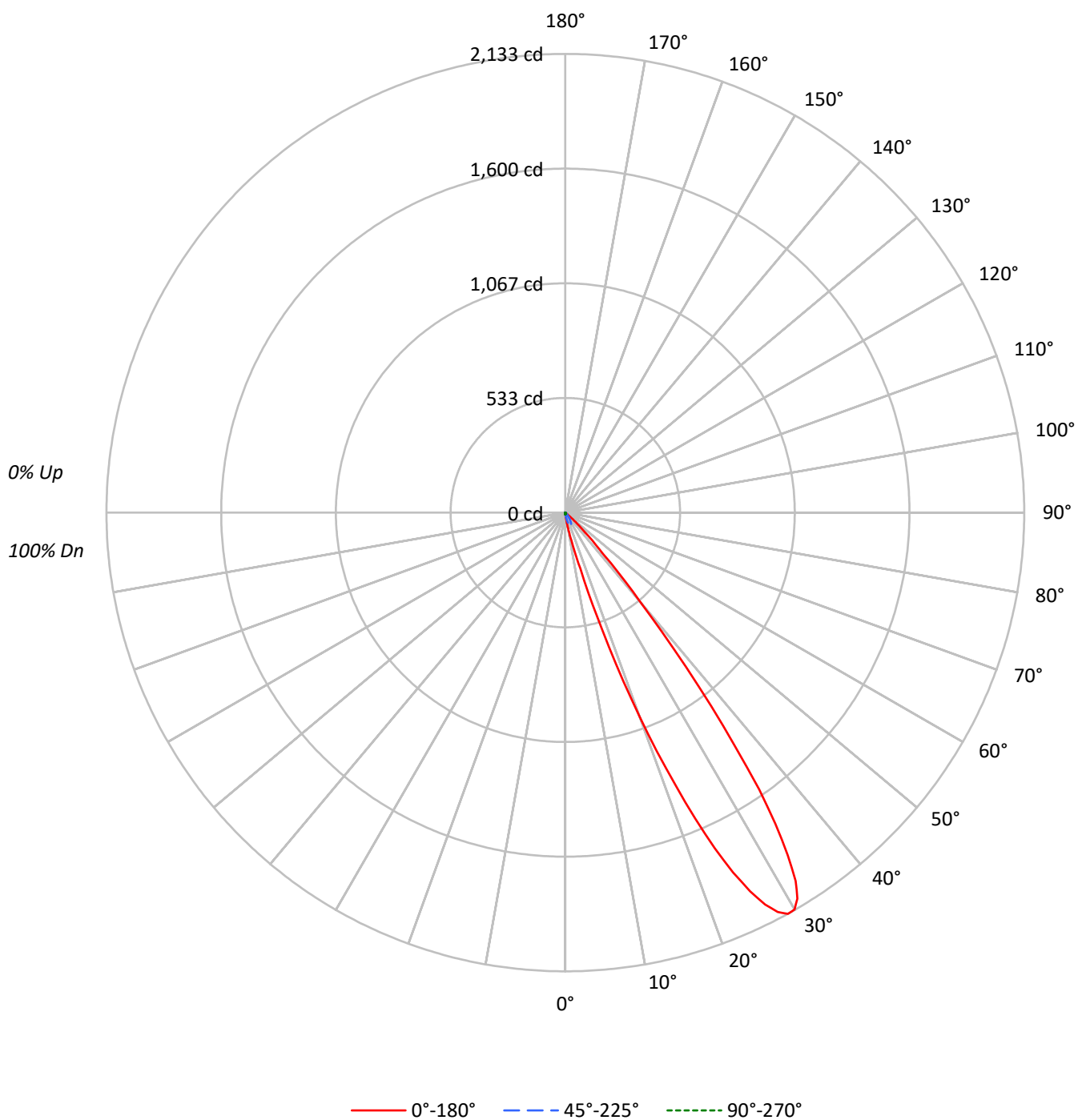
Lumens per Lamp: N/A
Luminaire Lumens: 233.0 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1688	1688	1688	1688	1688
5°	3632	2685	1607	858	704
10°	16143	5099	1269	356	245
15°	61067	11782	885	159	114
20°	234894	16615	537	47	47
25°	446663	15582	266	0	0
30°	539577	12559	127	0	0
35°	420812	8566	54	0	0
40°	153573	4208	57	0	57
45°	39446	1271	62	0	155
50°	6652	171	68	68	239
55°	879	0	191	268	421
60°	88	88	307	395	614
65°	104	104	467	571	726
70°	128	128	577	577	705
75°	169	169	763	593	763
80°	0	253	884	631	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 39446 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	17.9	7.7
20°-30°	99.0	42.5
30°-40°	95.7	41.1
40°-50°	16.6	7.1
50°-60°	1.2	0.5
60°-70°	0.7	0.3
70°-80°	0.6	0.2
80°-90°	0.3	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°	117.9	50.6
0°-40°	213.6	91.7
0°-60°	231.4	99.3
0°-90°	233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	233.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	16	12	7	4	3	3
15°	269	52	4	1	0	120
25°	1846	64	1	0	0	825
35°	1572	32	0	0	0	904
45°	127	4	0	0	0	137
55°	2	0	0	1	1	4
65°	0	0	1	1	1	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°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
2.5°	11.3	10.9	11.1	11.1	11.1	11.1	11.1	10.7	10.7	10.9	9.7
5°	16.5	16.5	16.3	16.5	16.5	16.3	15.9	15.6	15.6	15.2	12.2
7.5°	33.1	32.6	32.6	32.2	29.9	29.2	28.8	27.7	25.6	25.2	15.9
10°	72.5	72.8	71.2	69.1	68.9	65.5	64.4	62.3	58.5	54.6	22.9
12.5°	131.7	128.7	124.9	125.1	118.5	116.3	111.1	105.4	99.5	93.4	37.6
15°	269.0	260.6	265.6	253.4	239.6	223.9	208.1	188.1	171.1	153.0	51.9
17.5°	566.6	574.8	561.0	508.6	476.4	438.6	385.3	333.9	289.9	254.5	63.5
20°	1006.6	1018.6	971.7	926.1	847.9	762.7	673.8	573.2	476.9	393.5	71.2
21°	1190.4	1183.1	1163.8	1090.9	1000.7	901.8	793.0	682.0	565.3	456.9	71.8
22°	1368.1	1371.5	1326.6	1250.2	1156.4	1046.9	914.1	777.0	651.2	508.6	70.7
23°	1545.1	1556.0	1496.6	1425.0	1306.9	1183.3	1029.7	881.7	726.2	567.8	68.4
24°	1708.9	1701.5	1661.3	1571.1	1444.9	1300.3	1140.7	961.2	787.8	618.3	66.6
25°	1846.1	1845.2	1782.2	1694.4	1550.1	1389.8	1213.9	1026.3	840.6	652.5	64.4
26°	1958.3	1939.9	1890.3	1783.3	1640.7	1471.6	1274.0	1073.6	870.3	669.8	62.1
27°	2044.8	2031.7	1965.1	1853.8	1704.9	1517.9	1312.5	1097.2	883.9	675.4	59.2
28°	2103.1	2088.8	2017.9	1903.2	1740.2	1546.9	1332.9	1107.2	883.9	670.0	56.4
29°	2133.2	2113.7	2043.0	1920.2	1748.4	1550.3	1327.9	1097.4	870.1	653.2	53.3
30°	2131.0	2106.7	2032.6	1904.8	1724.1	1522.4	1300.1	1062.3	838.8	628.3	49.6
31°	2094.2	2067.1	1984.3	1852.6	1674.0	1469.8	1247.5	1015.2	796.0	595.9	46.0
32°	2019.7	1985.2	1904.5	1773.3	1597.0	1391.2	1171.1	942.4	731.9	548.5	42.2
33°	1898.2	1863.5	1776.9	1653.9	1492.7	1291.5	1069.8	864.2	658.9	492.1	39.0
34°	1746.1	1714.4	1639.8	1515.8	1361.3	1165.2	953.3	756.1	583.2	436.1	35.6
35°	1572.0	1521.5	1454.0	1355.8	1205.1	1007.9	827.5	655.5	505.2	377.4	32.0
36°	1336.6	1345.6	1274.0	1153.9	1029.0	874.4	701.3	546.5	422.5	321.6	28.8
37°	1127.8	1113.5	1068.0	975.1	866.3	712.8	587.7	463.3	355.4	272.0	25.4
38°	909.8	912.9	868.3	796.9	689.0	586.1	473.0	380.5	297.4	231.4	22.2
39°	712.1	709.6	697.6	631.4	533.8	466.2	383.3	315.5	247.7	195.1	18.8
40°	536.5	540.6	512.5	472.6	415.7	360.1	305.3	251.6	204.9	164.5	14.7
42.5°	260.9	267.2	248.6	238.4	213.3	191.5	161.6	131.9	112.2	97.0	6.6
45°	127.2	123.5	121.9	117.0	111.1	99.3	87.9	75.5	66.0	56.9	4.1
47.5°	65.0	63.2	63.2	61.2	59.2	55.3	49.6	45.6	41.0	35.4	1.6
50°	19.5	19.3	19.0	19.3	18.6	19.3	19.7	19.9	18.1	17.9	0.5
52.5°	7.7	7.9	7.7	8.4	8.4	8.2	8.4	8.2	7.9	7.0	0.0
55°	2.3	2.3	2.3	2.3	2.3	2.3	2.5	2.7	2.5	2.7	0.0
57.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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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	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	7.7	7.7	7.7	7.7	7.7	7.7
2.5°	9.1	7.9	6.6	5.4	5.0	4.8
5°	9.7	7.3	5.0	3.9	3.4	3.2
7.5°	10.4	6.6	3.9	2.7	2.0	1.8
10°	10.9	5.7	2.9	1.6	1.1	1.1
12.5°	10.9	4.5	2.0	0.9	0.7	0.7
15°	10.7	3.9	1.4	0.7	0.5	0.5
17.5°	10.4	2.9	0.9	0.5	0.2	0.5
20°	9.7	2.3	0.5	0.2	0.2	0.2
21°	9.5	2.0	0.5	0.2	0.2	0.2
22°	9.1	1.8	0.2	0.0	0.2	0.2
23°	8.6	1.4	0.2	0.0	0.0	0.0
24°	7.9	1.1	0.2	0.0	0.0	0.0
25°	7.5	1.1	0.2	0.0	0.0	0.0
26°	7.0	0.7	0.0	0.0	0.0	0.0
27°	6.3	0.5	0.0	0.0	0.0	0.0
28°	5.9	0.5	0.0	0.0	0.0	0.0
29°	5.2	0.5	0.0	0.0	0.0	0.0
30°	4.5	0.5	0.0	0.0	0.0	0.0
31°	3.6	0.2	0.0	0.0	0.0	0.0
32°	2.9	0.2	0.0	0.0	0.0	0.0
33°	2.0	0.2	0.0	0.0	0.0	0.0
34°	1.4	0.2	0.0	0.0	0.0	0.0
35°	1.1	0.2	0.0	0.0	0.0	0.0
36°	0.7	0.2	0.0	0.0	0.0	0.2
37°	0.7	0.2	0.0	0.0	0.0	0.2
38°	0.5	0.2	0.0	0.0	0.0	0.2
39°	0.2	0.2	0.0	0.0	0.0	0.2
40°	0.2	0.2	0.0	0.0	0.0	0.2
42.5°	0.0	0.2	0.0	0.0	0.2	0.5
45°	0.0	0.2	0.0	0.0	0.2	0.5
47.5°	0.0	0.2	0.0	0.0	0.5	0.5
50°	0.0	0.2	0.2	0.2	0.5	0.7
52.5°	0.0	0.5	0.2	0.5	0.7	0.9
55°	0.2	0.5	0.5	0.7	0.9	1.1
57.5°	0.2	0.7	0.7	0.9	1.1	1.1
60°	0.5	0.7	0.9	0.9	1.4	1.4
62.5°	0.5	0.9	0.9	0.9	1.4	1.4
65°	0.5	0.9	0.9	1.1	1.4	1.4
67.5°	0.5	0.9	0.9	0.9	1.1	1.4
70°	0.5	0.9	0.7	0.9	1.1	1.1
72.5°	0.5	0.9	0.7	0.7	0.9	1.1
75°	0.5	0.9	0.7	0.7	0.9	0.9
77.5°	0.5	0.7	0.7	0.5	0.7	0.7
80°	0.5	0.7	0.5	0.5	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.7	0.5	0.2	0.5	0.5
85°	0.5	0.7	0.5	0.2	0.2	0.2
87.5°	0.5	0.7	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)