

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: P1334065

Luminaire Tested: P3A02R159050DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334065
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: P3A02R159050DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

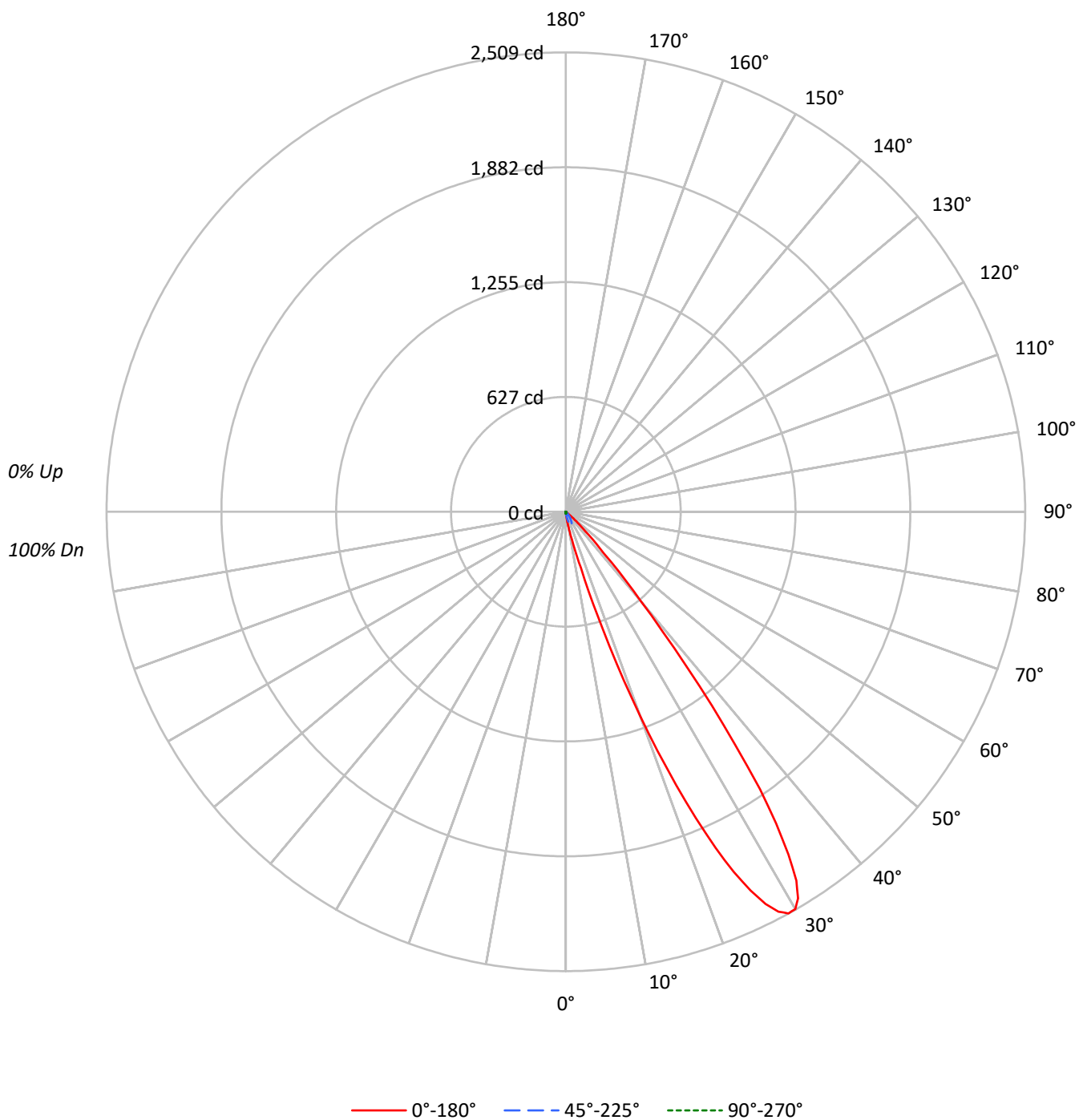
Lumens per Lamp: N/A
Luminaire Lumens: 274.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.48 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	1995	1995	1995	1995	1995
5°	4292	3170	1871	991	814
10°	18993	5990	1492	423	289
15°	71828	13848	1022	182	114
20°	276221	19532	630	70	70
25°	525248	18316	315	0	0
30°	634503	14787	127	0	0
35°	494883	10065	80	0	0
40°	180595	4952	86	0	86
45°	46361	1489	93	0	155
50°	7812	171	102	102	273
55°	1032	0	191	306	497
60°	132	132	351	482	702
65°	156	156	571	675	830
70°	192	192	705	705	833
75°	254	254	932	678	932
80°	0	379	1010	631	1010
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 46361 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	21.0	7.7
20°-30°	116.5	42.5
30°-40°	112.5	41.1
40°-50°	19.6	7.1
50°-60°	1.4	0.5
60°-70°	0.8	0.3
70°-80°	0.7	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°	138.7	50.6
0°-40°	251.2	91.7
0°-60°	272.2	99.3
0°-90°	274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	274.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	20	14	8	4	4	4
15°	316	61	4	1	0	141
25°	2171	76	1	0	0	971
35°	1849	38	0	0	0	1063
45°	150	5	0	0	0	161
55°	3	0	0	1	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°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
2.5°	13.3	12.8	13.1	13.1	13.1	13.1	13.1	12.5	12.5	12.8	11.5
5°	19.5	19.5	19.2	19.5	19.5	19.2	18.7	18.4	18.4	17.9	14.4
7.5°	38.9	38.4	38.4	37.8	35.2	34.4	33.8	32.5	30.1	29.6	18.7
10°	85.3	85.6	83.7	81.3	81.0	77.0	75.7	73.3	68.8	64.2	26.9
12.5°	154.9	151.4	146.9	147.1	139.4	136.7	130.6	123.9	117.0	109.8	44.2
15°	316.4	306.5	312.4	298.0	281.7	263.3	244.7	221.2	201.2	179.9	61.0
17.5°	666.3	675.9	659.7	598.1	560.3	515.7	453.1	392.6	340.9	299.3	74.6
20°	1183.7	1197.8	1142.6	1089.1	997.1	896.9	792.4	674.1	560.8	462.7	83.7
21°	1399.8	1391.3	1368.6	1282.8	1176.7	1060.5	932.6	802.0	664.7	537.3	84.5
22°	1608.8	1612.8	1560.0	1470.2	1359.9	1231.1	1074.9	913.7	765.7	598.1	83.2
23°	1817.0	1829.7	1759.9	1675.7	1536.8	1391.6	1210.9	1036.8	854.0	667.7	80.5
24°	2009.7	2000.9	1953.7	1847.6	1699.1	1529.1	1341.5	1130.4	926.5	727.1	78.4
25°	2170.9	2169.8	2095.7	1992.6	1822.8	1634.4	1427.6	1206.9	988.6	767.3	75.7
26°	2302.8	2281.3	2222.9	2097.1	1929.4	1730.6	1498.2	1262.6	1023.5	787.6	73.0
27°	2404.7	2389.2	2310.8	2180.0	2004.9	1785.0	1543.5	1290.3	1039.5	794.3	69.6
28°	2473.2	2456.4	2372.9	2238.1	2046.4	1819.1	1567.5	1302.0	1039.5	787.9	66.4
29°	2508.6	2485.7	2402.5	2258.1	2056.0	1823.1	1561.6	1290.6	1023.2	768.1	62.6
30°	2505.9	2477.4	2390.3	2239.9	2027.5	1790.3	1528.8	1249.2	986.4	738.8	58.4
31°	2462.8	2430.8	2333.5	2178.6	1968.6	1728.5	1467.0	1193.8	936.1	700.7	54.1
32°	2375.1	2334.6	2239.7	2085.4	1878.0	1636.0	1377.2	1108.2	860.6	645.0	49.6
33°	2232.2	2191.4	2089.6	1944.9	1755.4	1518.7	1258.0	1016.3	774.8	578.6	45.8
34°	2053.4	2016.1	1928.4	1782.6	1600.8	1370.2	1121.0	889.2	685.8	512.8	41.8
35°	1848.7	1789.2	1709.8	1594.4	1417.2	1185.3	973.1	770.8	594.1	443.8	37.6
36°	1571.7	1582.4	1498.2	1356.9	1210.1	1028.3	824.7	642.6	496.8	378.2	33.8
37°	1326.3	1309.5	1255.9	1146.6	1018.7	838.2	691.1	544.8	417.9	319.8	29.9
38°	1069.9	1073.6	1021.1	937.1	810.3	689.3	556.3	447.5	349.7	272.1	26.1
39°	837.4	834.5	820.4	742.6	627.7	548.3	450.7	371.0	291.3	229.5	22.1
40°	630.9	635.7	602.6	555.7	488.8	423.5	359.0	295.9	240.9	193.5	17.3
42.5°	306.8	314.2	292.4	280.4	250.8	225.2	190.0	155.1	131.9	114.1	7.7
45°	149.5	145.3	143.4	137.5	130.6	116.7	103.4	88.8	77.6	66.9	4.8
47.5°	76.5	74.4	74.4	72.0	69.6	65.0	58.4	53.6	48.2	41.6	1.9
50°	22.9	22.7	22.4	22.7	21.9	22.7	23.2	23.5	21.3	21.1	0.5
52.5°	9.1	9.3	9.1	9.9	9.9	9.6	9.9	9.6	9.3	8.3	0.0
55°	2.7	2.7	2.7	2.7	2.7	2.7	2.9	3.2	2.9	3.2	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°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3
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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	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°	9.1	9.1	9.1	9.1	9.1	9.1
2.5°	10.7	9.3	7.7	6.4	5.9	5.6
5°	11.5	8.5	5.9	4.5	4.0	3.7
7.5°	12.3	7.7	4.5	3.2	2.4	2.1
10°	12.8	6.7	3.5	1.9	1.3	1.3
12.5°	12.8	5.3	2.4	1.1	0.8	0.8
15°	12.5	4.5	1.6	0.8	0.5	0.5
17.5°	12.3	3.5	1.1	0.5	0.3	0.5
20°	11.5	2.7	0.5	0.3	0.3	0.3
21°	11.2	2.4	0.5	0.3	0.3	0.3
22°	10.7	2.1	0.3	0.0	0.3	0.3
23°	10.1	1.6	0.3	0.0	0.0	0.0
24°	9.3	1.3	0.3	0.0	0.0	0.0
25°	8.8	1.3	0.3	0.0	0.0	0.0
26°	8.3	0.8	0.0	0.0	0.0	0.0
27°	7.5	0.5	0.0	0.0	0.0	0.0
28°	6.9	0.5	0.0	0.0	0.0	0.0
29°	6.1	0.5	0.0	0.0	0.0	0.0
30°	5.3	0.5	0.0	0.0	0.0	0.0
31°	4.3	0.3	0.0	0.0	0.0	0.0
32°	3.5	0.3	0.0	0.0	0.0	0.0
33°	2.4	0.3	0.0	0.0	0.0	0.0
34°	1.6	0.3	0.0	0.0	0.0	0.0
35°	1.3	0.3	0.0	0.0	0.0	0.0
36°	0.8	0.3	0.0	0.0	0.0	0.3
37°	0.8	0.3	0.0	0.0	0.0	0.3
38°	0.5	0.3	0.0	0.0	0.0	0.3
39°	0.3	0.3	0.0	0.0	0.0	0.3
40°	0.3	0.3	0.0	0.0	0.0	0.3
42.5°	0.0	0.3	0.0	0.0	0.3	0.5
45°	0.0	0.3	0.0	0.0	0.3	0.5
47.5°	0.0	0.3	0.0	0.0	0.5	0.5
50°	0.0	0.3	0.3	0.3	0.5	0.8
52.5°	0.0	0.5	0.3	0.5	0.8	1.1
55°	0.3	0.5	0.5	0.8	1.1	1.3
57.5°	0.3	0.8	0.8	1.1	1.3	1.3
60°	0.5	0.8	1.1	1.1	1.6	1.6
62.5°	0.5	1.1	1.1	1.1	1.6	1.6
65°	0.5	1.1	1.1	1.3	1.6	1.6
67.5°	0.5	1.1	1.1	1.1	1.3	1.6
70°	0.5	1.1	0.8	1.1	1.3	1.3
72.5°	0.5	1.1	0.8	0.8	1.1	1.3
75°	0.5	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	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)