

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: P1334951

Luminaire Tested: P3A02R309024DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R309024DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2400K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

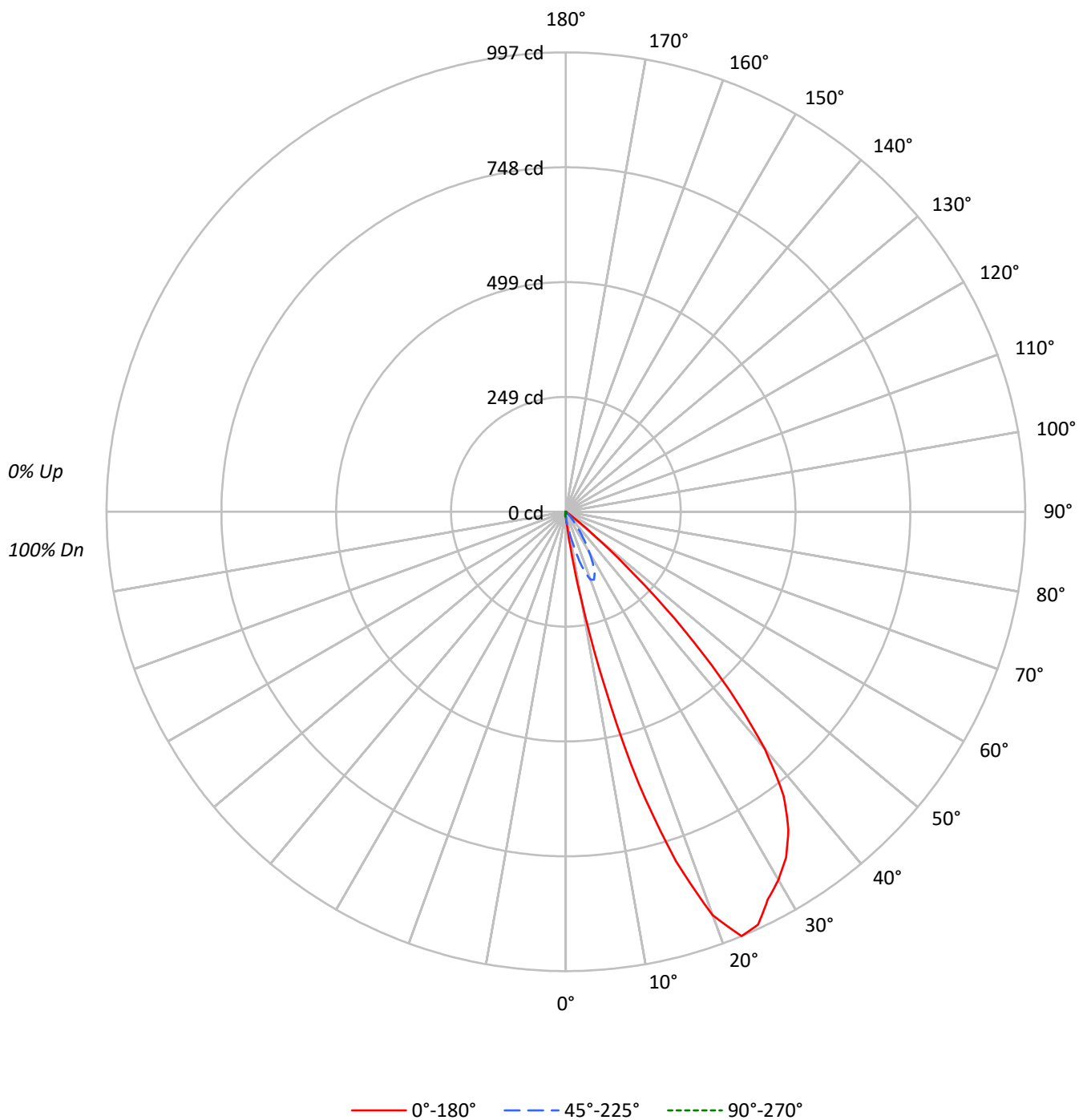
Lumens per Lamp: N/A
Luminaire Lumens: 234.9 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	95	92	104	98	94	90	95	92	88	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	79	77	77	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	64	58	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	48	58	52	47	57	51	47	56	51	47	47	47	45
9	67	55	48	43	65	55	48	43	53	47	43	53	47	43	52	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2456	2456	2456	2456	2456
5°	7374	4909	2311	1035	858
10°	42707	10421	1826	468	334
15°	138888	23632	1271	91	45
20°	217322	36590	793	0	0
25°	239094	35736	411	0	0
30°	233530	25776	152	0	0
35°	225397	14670	54	0	0
40°	192217	6212	0	0	0
45°	112818	2326	62	0	62
50°	27394	443	68	68	205
55°	2370	0	153	229	344
60°	88	0	175	263	482
65°	104	104	311	311	571
70°	128	128	385	385	577
75°	0	169	508	508	508
80°	0	253	758	505	505
85°	0	503	1510	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 112818 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.9
10°-20°	32.3	13.7
20°-30°	82.1	34.9
30°-40°	81.8	34.8
40°-50°	33.1	14.1
50°-60°	2.3	1.0
60°-70°	0.5	0.2
70°-80°	0.5	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°	116.4	49.6
0°-40°	198.2	84.4
0°-60°	233.7	99.5
0°-90°	234.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	234.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	34	22	10	5	4	8
15°	612	104	6	0	0	178
25°	988	148	2	0	0	446
35°	842	55	0	0	0	516
45°	364	8	0	0	0	278
55°	6	0	0	1	1	16
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°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
2.5°	18.5	18.7	18.7	18.3	18.0	18.0	17.4	17.2	16.5	15.9	13.7
5°	33.5	32.9	32.0	32.0	30.1	29.0	27.5	25.8	24.5	22.3	15.9
7.5°	76.0	70.9	69.4	67.4	60.1	54.3	47.7	41.9	36.5	32.0	17.6
10°	191.8	181.7	173.3	156.3	135.1	114.7	95.8	73.9	58.8	46.8	18.9
12.5°	386.3	372.8	356.7	325.8	286.0	235.1	190.0	141.9	99.6	68.9	19.3
15°	611.8	588.8	563.7	524.4	459.3	386.3	304.9	228.3	160.0	104.1	18.9
17.5°	795.6	786.6	749.4	695.7	616.1	522.0	421.7	317.0	215.8	136.4	17.6
20°	931.3	925.1	880.2	823.1	733.3	625.5	498.2	372.4	254.7	156.8	15.7
22.5°	996.8	995.7	963.3	904.9	809.8	687.6	547.4	404.3	266.7	159.5	13.1
25°	988.2	992.1	973.6	930.2	839.0	713.1	562.0	404.3	257.9	147.7	11.0
27.5°	949.1	951.7	940.1	906.8	821.8	694.7	541.6	378.4	232.3	126.9	9.0
30°	922.3	923.4	909.0	873.3	783.1	652.6	493.5	330.3	193.7	101.8	6.7
32.5°	889.7	889.4	872.7	831.9	732.5	593.5	432.5	272.9	148.8	77.3	3.9
35°	842.0	836.6	813.9	766.8	656.9	514.1	354.5	207.9	107.2	54.8	2.4
37.5°	776.5	762.5	730.3	667.4	550.8	403.1	262.8	146.0	73.2	36.3	1.5
40°	671.5	656.7	612.9	536.4	416.6	290.1	177.2	95.1	46.2	21.7	0.9
42.5°	526.5	516.4	457.4	381.2	275.1	185.1	106.5	56.3	26.0	12.5	0.2
45°	363.8	350.7	304.3	239.6	165.1	102.6	59.7	29.4	14.8	7.5	0.0
47.5°	200.8	184.7	157.8	124.1	83.1	53.9	30.1	15.9	8.4	3.7	0.0
50°	80.3	79.7	63.3	45.1	31.8	24.5	15.0	8.6	4.3	1.3	0.2
52.5°	28.1	28.1	24.3	19.8	15.5	11.2	7.5	4.1	1.5	0.4	0.2
55°	6.2	6.9	6.4	6.0	5.8	4.9	3.2	1.5	0.4	0.0	0.2
57.5°	0.6	0.6	0.6	0.9	1.1	1.1	0.9	0.4	0.0	0.0	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.4
62.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.2	0.4
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
75°	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.6
77.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
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°	11.2	11.2	11.2	11.2	11.2
2.5°	11.2	8.8	7.3	6.4	6.2
5°	10.5	6.7	4.7	4.1	3.9
7.5°	9.4	4.9	3.2	2.6	2.4
10°	8.2	3.7	2.1	1.5	1.5
12.5°	6.9	2.8	1.3	0.6	0.4
15°	5.6	1.7	0.4	0.2	0.2
17.5°	4.3	1.1	0.0	0.0	0.0
20°	3.4	0.4	0.0	0.0	0.0
22.5°	2.6	0.2	0.0	0.0	0.0
25°	1.7	0.0	0.0	0.0	0.0
27.5°	1.1	0.0	0.0	0.0	0.0
30°	0.6	0.0	0.0	0.0	0.0
32.5°	0.2	0.0	0.0	0.0	0.0
35°	0.2	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.2	0.0	0.0	0.2	0.2
47.5°	0.2	0.2	0.2	0.4	0.4
50°	0.2	0.2	0.2	0.4	0.6
52.5°	0.4	0.2	0.4	0.6	0.6
55°	0.4	0.4	0.6	0.9	0.9
57.5°	0.4	0.4	0.6	0.9	0.9
60°	0.4	0.4	0.6	0.9	1.1
62.5°	0.6	0.6	0.6	0.9	0.9
65°	0.6	0.6	0.6	0.9	1.1
67.5°	0.6	0.6	0.6	0.9	1.1
70°	0.6	0.6	0.6	0.9	0.9
72.5°	0.9	0.6	0.6	0.9	0.9
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.4	0.6	0.6
80°	0.6	0.4	0.4	0.4	0.4
82.5°	0.6	0.4	0.4	0.4	0.4
85°	0.6	0.4	0.2	0.2	0.2
87.5°	0.6	0.4	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)