

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: P1335285

Luminaire Tested: P3A02R359024DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R359024DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R35 optic, 2400K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

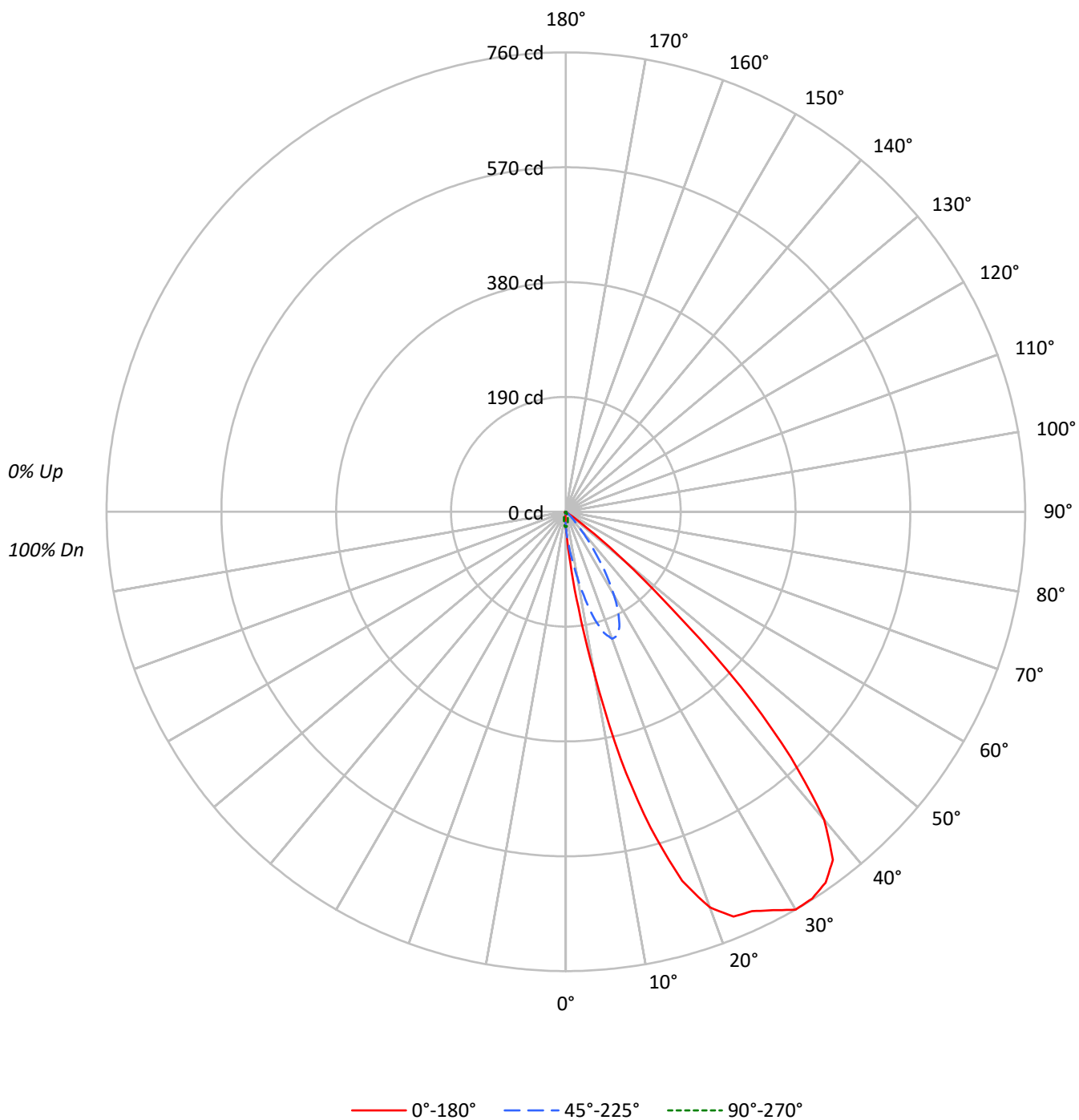
Lumens per Lamp: N/A
Luminaire Lumens: 238.9 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	93	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	84	84	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	76	76	74
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	69	69	67
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	62	62	61
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	56	56	55
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	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°	5504	5504	5504	5504	5504
5°	18754	12195	5151	2179	1607
10°	60342	24693	4052	802	534
15°	122929	41884	2883	295	204
20°	162554	52178	1843	93	93
25°	176381	50713	1040	48	97
30°	192409	40411	430	51	101
35°	200502	25163	107	54	107
40°	190242	10992	57	115	172
45°	127021	4404	62	186	341
50°	42608	716	136	307	443
55°	2370	76	153	421	573
60°	175	88	263	482	658
65°	208	104	311	571	778
70°	128	128	385	705	833
75°	169	169	508	763	932
80°	0	253	758	758	758
85°	0	503	1510	503	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 127021 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	1.8
10°-20°	34.3	14.4
20°-30°	72.4	30.3
30°-40°	82.2	34.4
40°-50°	40.5	16.9
50°-60°	3.5	1.5
60°-70°	0.7	0.3
70°-80°	0.7	0.3
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°	111.1	46.5
0°-40°	193.3	80.9
0°-60°	237.3	99.3
0°-90°	238.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	238.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	85	55	23	10	7	14
15°	542	184	13	1	1	154
25°	729	210	4	0	0	339
35°	749	94	0	0	0	462
45°	410	14	0	1	1	303
55°	6	0	0	1	2	24
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°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
2.5°	43.6	44.6	44.2	44.0	43.8	42.9	41.0	40.8	38.8	37.5	31.1
5°	85.2	83.5	83.9	81.5	78.5	74.2	71.4	65.4	60.5	55.4	36.3
7.5°	160.5	158.1	153.6	146.7	139.7	130.4	116.5	105.3	92.5	80.2	40.3
10°	271.0	269.7	263.9	246.3	230.8	206.2	183.0	158.5	134.5	110.9	43.1
12.5°	418.6	409.8	399.3	375.9	345.4	314.5	268.8	226.6	188.2	148.7	43.3
15°	541.5	535.9	521.1	490.7	454.0	409.3	355.1	298.2	240.3	184.5	41.2
17.5°	640.4	631.8	612.7	582.9	540.6	482.7	419.2	349.9	279.3	210.0	37.5
20°	696.6	692.1	677.5	647.7	601.6	538.3	466.0	385.3	303.8	223.6	32.8
22.5°	724.9	721.7	711.0	687.2	644.1	580.3	497.5	403.8	310.9	222.1	27.9
25°	729.0	728.2	718.9	700.9	664.9	601.8	511.3	407.2	305.1	209.6	23.2
27.5°	743.2	740.2	729.2	711.2	674.9	605.4	506.5	395.4	286.4	187.7	19.3
30°	759.9	757.8	746.8	728.2	685.2	602.0	489.8	369.2	256.6	159.6	14.4
32.5°	758.6	757.8	748.5	728.8	678.0	581.8	460.0	330.0	216.0	125.9	9.0
35°	749.0	746.0	734.4	703.9	636.3	529.9	403.3	276.8	171.0	94.0	5.8
37.5°	725.8	719.4	699.8	648.1	561.9	449.9	328.5	213.7	121.0	62.9	3.6
40°	664.6	656.5	617.2	554.8	464.5	354.4	244.4	147.0	79.8	38.4	1.5
42.5°	551.4	534.9	495.6	431.4	346.7	250.6	160.5	95.3	47.0	23.2	0.4
45°	409.6	396.9	355.7	297.6	227.2	160.7	97.2	51.5	26.0	14.2	0.2
47.5°	238.6	230.8	209.6	171.4	125.5	84.3	49.8	27.7	15.2	6.9	0.2
50°	124.9	115.2	99.1	75.1	55.4	38.8	24.2	14.8	7.5	2.1	0.2
52.5°	43.8	43.1	39.3	29.6	24.0	17.4	11.8	6.4	2.1	0.4	0.2
55°	6.2	6.2	5.8	6.4	6.9	6.2	4.1	1.7	0.4	0.2	0.2
57.5°	0.4	0.4	0.4	0.6	0.9	0.9	0.6	0.2	0.2	0.2	0.4
60°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
62.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
65°	0.4	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°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
77.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	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	0.2	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°	25.1	25.1	25.1	25.1	25.1
2.5°	24.9	20.0	15.9	13.9	13.3
5°	23.4	15.0	9.9	7.7	7.3
7.5°	20.8	10.7	6.0	4.3	4.1
10°	18.2	7.7	3.6	2.6	2.4
12.5°	15.2	5.4	2.4	1.5	1.3
15°	12.7	3.6	1.3	1.1	0.9
17.5°	10.1	2.4	0.9	0.6	0.9
20°	7.9	1.5	0.4	0.4	0.4
22.5°	6.0	0.9	0.4	0.4	0.4
25°	4.3	0.4	0.2	0.2	0.4
27.5°	3.0	0.2	0.2	0.2	0.4
30°	1.7	0.2	0.2	0.2	0.4
32.5°	0.9	0.2	0.2	0.4	0.4
35°	0.4	0.2	0.2	0.4	0.4
37.5°	0.2	0.2	0.2	0.4	0.6
40°	0.2	0.2	0.4	0.6	0.6
42.5°	0.2	0.2	0.4	0.6	0.9
45°	0.2	0.4	0.6	0.9	1.1
47.5°	0.4	0.4	0.9	1.1	1.3
50°	0.4	0.6	0.9	1.3	1.3
52.5°	0.4	0.6	1.1	1.3	1.5
55°	0.4	0.9	1.1	1.5	1.5
57.5°	0.6	0.9	1.1	1.5	1.5
60°	0.6	0.9	1.1	1.5	1.5
62.5°	0.6	0.9	1.1	1.5	1.5
65°	0.6	0.9	1.1	1.5	1.5
67.5°	0.6	0.9	1.1	1.3	1.5
70°	0.6	0.9	1.1	1.3	1.3
72.5°	0.9	0.9	1.1	1.3	1.3
75°	0.6	0.9	0.9	1.1	1.1
77.5°	0.6	0.6	0.6	0.9	0.9
80°	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.4	0.4	0.6	0.6
85°	0.6	0.4	0.2	0.4	0.4
87.5°	0.4	0.4	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)