

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: P1336005

Luminaire Tested: P3A02R459030DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R459030DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

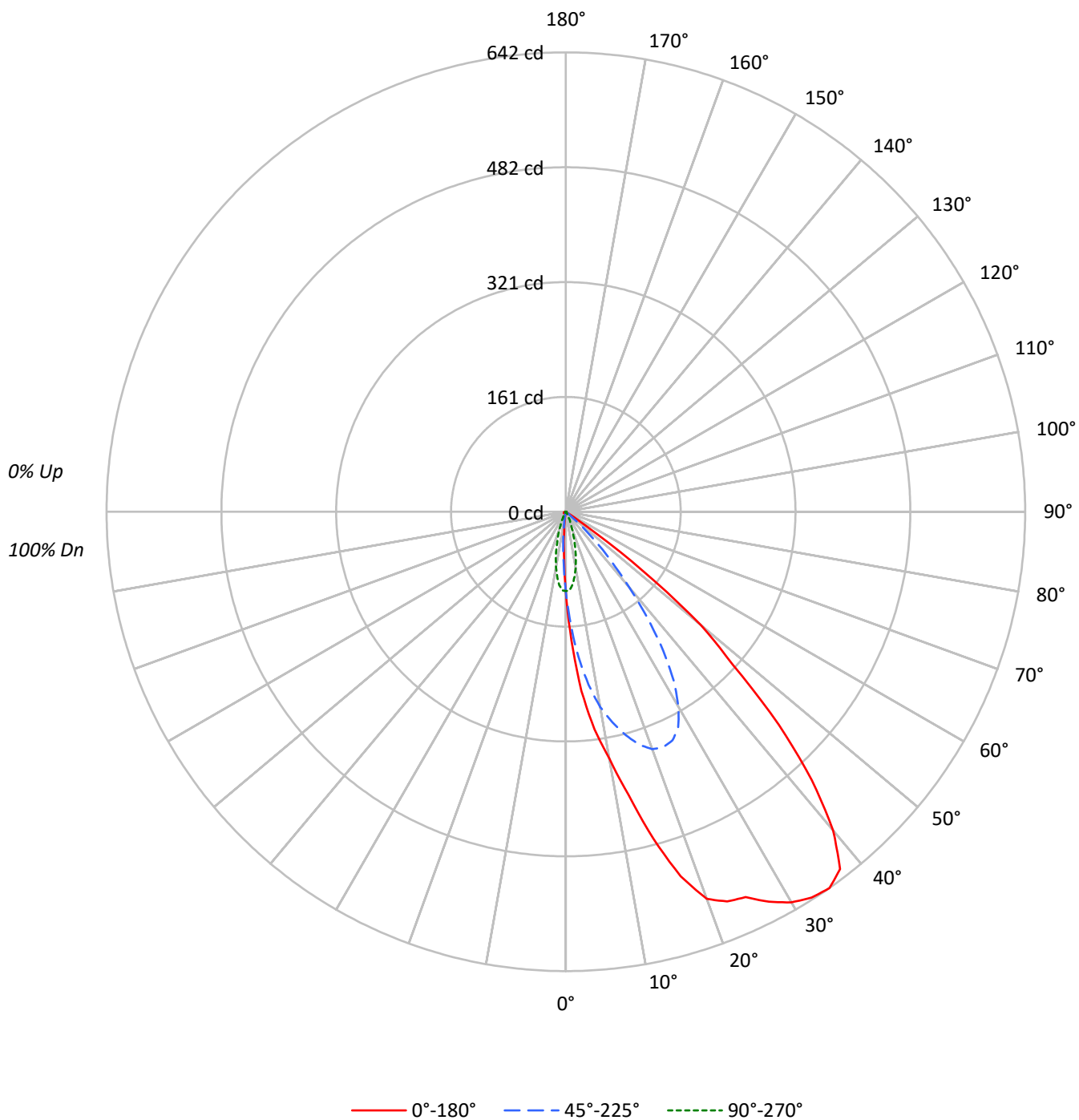
Lumens per Lamp: N/A
Luminaire Lumens: 291.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88		91	88	86		89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70		77	73	69		76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51		61	55	51		60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47		56	51	47		55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43		52	47	43		51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	24274	24274	24274	24274	24274
5°	55338	44882	22716	9113	6207
10°	77977	61656	17568	2004	913
15°	107447	73372	11215	658	545
20°	134365	82397	5857	443	443
25°	143791	85311	2710	363	411
30°	159594	79683	1241	380	430
35°	171912	63523	402	402	509
40°	166369	39359	200	487	630
45°	130649	18576	217	589	744
50°	83920	2149	341	751	989
55°	12731	191	382	918	1223
60°	219	219	439	1053	1272
65°	259	259	519	1141	1505
70°	321	321	641	1218	1731
75°	169	424	847	1440	1864
80°	253	631	884	1515	2147
85°	0	503	1258	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 130649 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.1	4.2
10°-20°	43.8	15.1
20°-30°	77.0	26.5
30°-40°	87.4	30.0
40°-50°	56.6	19.4
50°-60°	11.1	3.8
60°-70°	1.4	0.5
70°-80°	1.1	0.4
80°-90°	0.5	0.2
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°	132.9	45.7
0°-40°	220.3	75.7
0°-60°	288.0	99.0
0°-90°	291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	291.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	111	111	111	111	111	
5°	251	204	103	41	28	27
15°	473	323	49	3	2	136
25°	594	353	11	2	2	279
35°	642	237	2	2	2	395
45°	421	60	1	2	2	318
55°	33	0	1	2	3	64
65°	0	0	1	2	3	0
75°	0	0	1	2	2	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7
2.5°	179.8	179.4	180.1	175.2	175.0	171.3	170.4	166.2	160.6	157.9	151.6
5°	251.4	249.0	249.0	243.1	241.2	237.0	230.0	221.2	213.9	203.9	193.2
7.5°	306.6	306.2	306.2	301.0	296.2	290.3	280.8	270.9	259.2	243.9	228.3
10°	350.2	350.9	348.7	344.1	337.1	330.7	319.5	307.4	293.0	276.9	256.3
12.5°	405.2	399.8	398.1	387.7	378.7	366.5	353.1	339.3	321.5	301.3	277.9
15°	473.3	466.5	459.7	445.8	430.8	412.0	391.1	370.6	347.8	323.2	294.0
17.5°	534.2	534.2	525.2	503.3	483.8	456.1	427.8	400.6	373.6	341.2	304.7
20°	575.8	573.6	566.8	550.7	528.6	497.2	460.4	422.2	389.6	353.1	310.8
22.5°	589.4	588.9	589.2	579.7	561.9	529.3	484.3	439.3	398.4	356.0	307.9
25°	594.3	595.3	597.7	594.1	580.7	548.1	498.9	447.3	401.1	352.6	296.7
27.5°	614.5	612.6	615.2	612.8	597.7	558.8	501.8	445.4	395.2	340.2	276.7
30°	630.3	629.8	634.5	632.3	612.6	565.6	499.1	438.1	380.9	314.7	245.3
32.5°	639.3	639.6	640.8	631.8	602.6	550.7	486.0	423.2	353.9	281.3	204.4
35°	642.2	640.8	634.0	611.8	571.9	516.4	453.6	387.9	317.1	237.3	161.6
37.5°	629.6	622.0	604.5	571.4	525.2	473.3	412.3	343.4	266.7	187.4	120.5
40°	581.2	571.2	549.0	515.2	472.1	422.0	359.5	287.4	206.9	137.5	84.7
42.5°	508.6	503.5	480.4	451.0	414.5	363.8	299.3	226.3	153.1	94.9	54.0
45°	421.3	414.7	400.1	374.1	345.3	292.3	232.2	162.1	104.4	59.9	26.8
47.5°	315.9	316.4	306.4	286.7	258.5	214.2	158.9	108.8	65.5	30.9	6.1
50°	246.0	242.6	228.5	208.3	175.5	142.6	102.7	68.6	34.6	6.3	0.5
52.5°	136.3	138.5	130.9	124.4	107.3	85.2	60.6	34.8	7.3	0.7	0.5
55°	33.3	35.3	33.8	34.6	35.8	31.9	24.6	6.8	0.7	0.5	0.5
57.5°	0.7	0.7	0.7	0.7	1.2	1.7	1.7	0.5	0.5	0.5	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7
2.5°	148.5	143.8	135.3	110.0	88.3	71.3	61.1	60.1
5°	183.7	171.3	153.3	103.2	65.2	41.4	29.9	28.2
7.5°	211.7	194.2	166.5	92.0	44.5	21.2	11.7	9.7
10°	234.8	210.0	173.3	78.9	28.0	9.0	4.9	4.1
12.5°	250.7	220.7	174.5	64.2	16.1	4.4	3.2	2.9
15°	260.9	224.1	168.7	49.4	9.0	2.9	2.7	2.4
17.5°	265.0	221.2	157.5	35.8	4.9	2.2	2.2	2.2
20°	263.1	211.7	140.9	25.1	3.2	1.9	1.9	1.9
22.5°	253.8	195.4	120.2	16.8	2.2	1.7	1.7	1.7
25°	235.6	173.3	98.3	11.2	1.5	1.5	1.7	1.7
27.5°	208.3	146.0	75.2	7.5	1.2	1.5	1.7	1.7
30°	174.0	115.6	54.0	4.9	1.2	1.5	1.5	1.7
32.5°	138.2	84.2	35.5	2.9	1.0	1.5	1.7	1.9
35°	100.3	57.4	22.6	1.5	1.2	1.5	1.7	1.9
37.5°	70.3	37.5	13.1	1.0	1.2	1.5	1.9	1.9
40°	45.8	20.9	4.9	0.7	1.2	1.7	1.9	2.2
42.5°	23.8	7.3	1.0	0.7	1.2	1.7	2.2	2.4
45°	6.1	1.0	0.2	0.7	1.5	1.9	2.4	2.4
47.5°	0.7	0.2	0.2	1.0	1.5	2.2	2.4	2.7
50°	0.2	0.5	0.5	1.0	1.5	2.2	2.7	2.9
52.5°	0.5	0.5	0.5	1.0	1.7	2.2	2.9	3.2
55°	0.5	0.5	0.5	1.0	1.7	2.4	2.9	3.2
57.5°	0.5	0.5	0.5	1.0	1.7	2.4	2.9	2.9
60°	0.5	0.5	0.5	1.0	1.7	2.4	2.9	2.9
62.5°	0.5	0.5	0.7	1.0	1.7	2.2	2.9	2.9
65°	0.5	0.7	0.7	1.0	1.7	2.2	2.7	2.9
67.5°	0.5	0.5	0.7	1.0	1.7	2.2	2.7	2.9
70°	0.5	0.5	0.7	1.0	1.5	1.9	2.4	2.7
72.5°	0.5	0.5	0.7	1.0	1.5	1.9	2.2	2.4
75°	0.5	0.5	0.7	1.0	1.2	1.7	2.2	2.2
77.5°	0.5	0.5	0.7	0.7	1.2	1.5	1.9	1.9
80°	0.5	0.5	0.7	0.7	1.0	1.2	1.5	1.7
82.5°	0.5	0.5	0.5	0.7	0.7	1.0	1.2	1.2
85°	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7
87.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)