

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: P1335989

Luminaire Tested: P3A02R459030D2WDE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335989
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: P3A02R459030D2WDE010 E3CA301MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,
E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

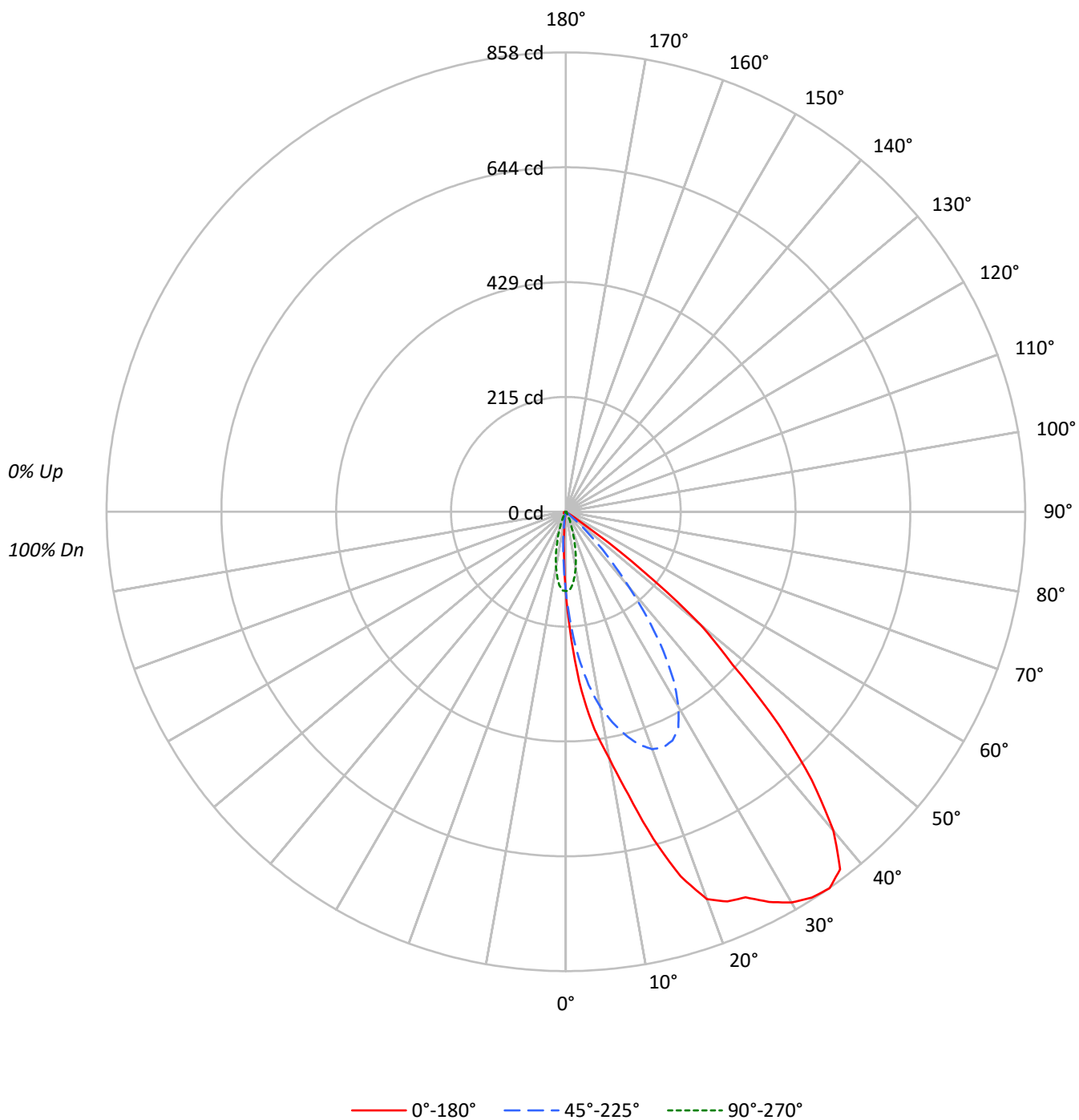
Lumens per Lamp: N/A
Luminaire Lumens: 389.1 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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

TEST NUMBER: P1335989

CATALOG NUMBER: P3A02R459030D2WDE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1335989

CATALOG NUMBER: P3A02R459030D2WDE010 E3CA301MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32454	32454	32454	32454	32454
5°	73982	60004	30354	12173	8298
10°	104229	82430	23469	2672	1225
15°	143656	98071	14983	885	749
20°	179612	110143	7817	607	607
25°	192205	114055	3629	484	556
30°	213349	106497	1646	506	582
35°	229814	84912	535	535	696
40°	222388	52613	286	658	830
45°	174623	24809	310	806	1023
50°	112201	2900	443	989	1330
55°	17051	268	497	1262	1606
60°	307	307	570	1447	1710
65°	363	363	675	1505	2024
70°	449	449	833	1667	2308
75°	254	593	1101	1949	2457
80°	379	884	1263	2020	2904
85°	0	755	1761	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 174623 cd/sqm

TEST NUMBER: P1335989

CATALOG NUMBER: P3A02R459030D2WDE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.2	4.2
10°-20°	58.6	15.1
20°-30°	102.9	26.4
30°-40°	116.8	30.0
40°-50°	75.7	19.4
50°-60°	14.9	3.8
60°-70°	1.8	0.5
70°-80°	1.5	0.4
80°-90°	0.7	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°	177.7	45.7
0°-40°	294.5	75.7
0°-60°	385.0	99.0
0°-90°	389.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	389.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	148	148	148	148	148	
5°	336	273	138	55	38	36
15°	633	432	66	4	3	182
25°	794	471	15	2	2	372
35°	858	317	2	2	3	528
45°	563	80	1	3	3	424
55°	45	1	1	3	4	85
65°	1	1	1	3	4	1
75°	0	1	1	2	3	0
85°	0	0	1	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1335989

CATALOG NUMBER: P3A02R459030D2WDE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	240.4	239.8	240.7	234.2	233.9	229.0	227.7	222.2	214.7	211.1	202.7
5°	336.1	332.8	332.8	325.0	322.4	316.9	307.4	295.7	286.0	272.6	258.3
7.5°	409.9	409.3	409.3	402.4	395.9	388.1	375.4	362.1	346.5	326.0	305.2
10°	468.1	469.1	466.2	460.0	450.6	442.1	427.2	410.9	391.7	370.2	342.6
12.5°	541.7	534.5	532.2	518.2	506.2	489.9	472.0	453.5	429.8	402.8	371.5
15°	632.8	623.6	614.5	596.0	575.8	550.8	522.8	495.5	464.9	432.0	393.0
17.5°	714.1	714.1	702.0	672.8	646.7	609.7	571.9	535.5	499.4	456.1	407.3
20°	769.7	766.8	757.7	736.2	706.6	664.6	615.5	564.4	520.8	472.0	415.4
22.5°	787.9	787.3	787.6	774.9	751.2	707.6	647.4	587.2	532.6	475.9	411.5
25°	794.4	795.7	799.0	794.1	776.2	732.6	666.9	597.9	536.1	471.4	396.6
27.5°	821.4	818.8	822.4	819.2	799.0	746.9	670.8	595.3	528.3	454.8	369.9
30°	842.6	841.9	848.1	845.2	818.8	756.1	667.2	585.6	509.1	420.6	327.9
32.5°	854.6	855.0	856.6	844.5	805.5	736.2	649.7	565.7	473.0	376.1	273.3
35°	858.5	856.6	847.5	817.9	764.5	690.3	606.4	518.6	423.9	317.2	216.0
37.5°	841.6	831.5	808.1	763.9	702.0	632.8	551.1	459.0	356.6	250.5	161.0
40°	776.9	763.5	733.9	688.7	631.1	564.1	480.5	384.2	276.5	183.8	113.2
42.5°	679.9	673.1	642.2	602.8	554.0	486.4	400.1	302.6	204.6	126.9	72.2
45°	563.1	554.4	534.8	500.0	461.6	390.7	310.4	216.7	139.6	80.0	35.8
47.5°	422.3	422.9	409.6	383.2	345.5	286.3	212.4	145.4	87.5	41.3	8.1
50°	328.9	324.3	305.5	278.5	234.6	190.6	137.3	91.7	46.2	8.5	0.7
52.5°	182.2	185.1	175.0	166.2	143.5	113.9	81.0	46.5	9.8	1.0	0.7
55°	44.6	47.2	45.2	46.2	47.8	42.6	32.9	9.1	1.0	0.7	0.7
57.5°	1.0	1.0	1.0	1.0	1.6	2.3	2.3	0.7	0.7	0.7	0.7
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7
82.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	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

TEST NUMBER: P1335989

CATALOG NUMBER: P3A02R459030D2WDE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	198.4	192.3	180.9	147.0	118.1	95.3	81.7	80.4
5°	245.6	229.0	205.0	137.9	87.2	55.3	40.0	37.7
7.5°	283.0	259.6	222.5	123.0	59.5	28.3	15.6	13.0
10°	313.9	280.8	231.6	105.4	37.4	12.0	6.5	5.5
12.5°	335.1	295.1	233.3	85.9	21.5	5.9	4.2	3.9
15°	348.7	299.6	225.4	66.0	12.0	3.9	3.6	3.3
17.5°	354.3	295.7	210.5	47.8	6.5	2.9	2.9	2.9
20°	351.7	283.0	188.4	33.5	4.2	2.6	2.6	2.6
22.5°	339.3	261.2	160.7	22.4	2.9	2.3	2.3	2.3
25°	314.9	231.6	131.4	15.0	2.0	2.0	2.3	2.3
27.5°	278.5	195.2	100.5	10.1	1.6	2.0	2.3	2.3
30°	232.6	154.5	72.2	6.5	1.6	2.0	2.0	2.3
32.5°	184.8	112.6	47.5	3.9	1.3	2.0	2.3	2.6
35°	134.0	76.8	30.3	2.0	1.6	2.0	2.3	2.6
37.5°	94.0	50.1	17.6	1.3	1.6	2.0	2.6	2.6
40°	61.2	28.0	6.5	1.0	1.6	2.3	2.6	2.9
42.5°	31.9	9.8	1.3	1.0	1.6	2.3	2.9	3.3
45°	8.1	1.3	0.3	1.0	2.0	2.6	3.3	3.3
47.5°	1.0	0.3	0.3	1.3	2.0	2.9	3.3	3.6
50°	0.3	0.7	0.7	1.3	2.0	2.9	3.6	3.9
52.5°	0.7	0.7	0.7	1.3	2.3	2.9	3.9	4.2
55°	0.7	0.7	0.7	1.3	2.3	3.3	3.9	4.2
57.5°	0.7	0.7	0.7	1.3	2.3	3.3	3.9	3.9
60°	0.7	0.7	0.7	1.3	2.3	3.3	3.9	3.9
62.5°	0.7	0.7	1.0	1.3	2.3	2.9	3.9	3.9
65°	0.7	1.0	1.0	1.3	2.3	2.9	3.6	3.9
67.5°	0.7	0.7	1.0	1.3	2.3	2.9	3.6	3.9
70°	0.7	0.7	1.0	1.3	2.0	2.6	3.3	3.6
72.5°	0.7	0.7	1.0	1.3	2.0	2.6	2.9	3.3
75°	0.7	0.7	1.0	1.3	1.6	2.3	2.9	2.9
77.5°	0.7	0.7	1.0	1.0	1.6	2.0	2.6	2.6
80°	0.7	0.7	1.0	1.0	1.3	1.6	2.0	2.3
82.5°	0.7	0.7	0.7	1.0	1.0	1.3	1.6	1.6
85°	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0
87.5°	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)