

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: P1335093

Luminaire Tested: P3A02R309735DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335093
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: P3A02R309735DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

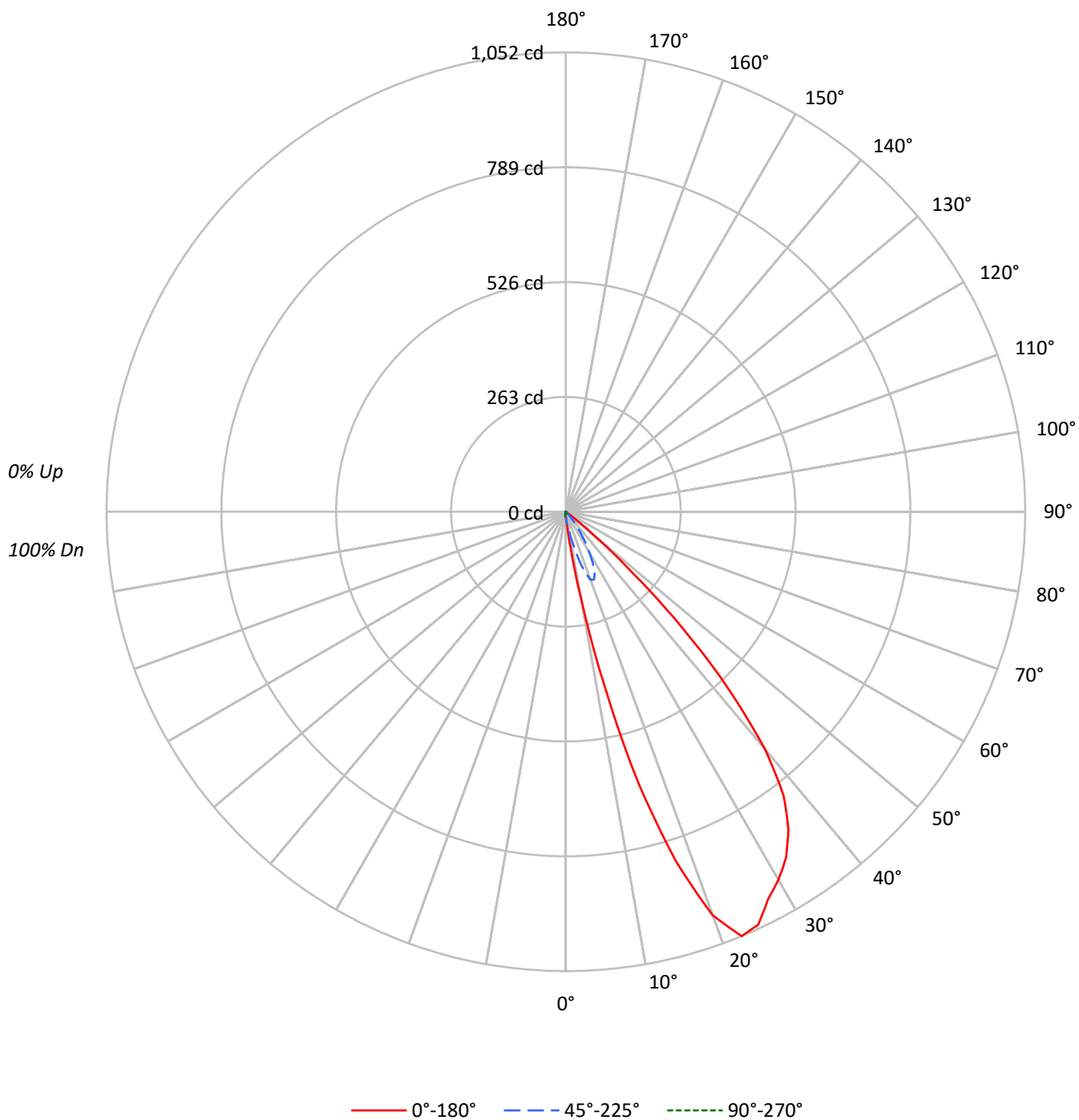
Lumens per Lamp: N/A
Luminaire Lumens: 248.0 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1335093

CATALOG NUMBER: P3A02R309735DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1335093

CATALOG NUMBER: P3A02R309735DE010 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	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	103	98	94	90	95	92	88	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	87	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	66	55	48	43	65	55	48	43	53	47	43	52	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°	2588	2588	2588	2588	2588
5°	7792	5195	2443	1101	902
10°	45067	11000	1915	512	356
15°	146562	24949	1339	114	45
20°	229340	38597	840	0	0
25°	252329	37720	436	0	0
30°	246443	27194	177	0	0
35°	237871	15473	54	0	0
40°	202837	6555	0	0	0
45°	119051	2450	62	0	62
50°	28929	478	68	68	239
55°	2523	0	191	268	344
60°	88	0	219	307	482
65°	104	104	363	363	571
70°	128	128	449	449	577
75°	0	169	593	593	593
80°	0	253	884	631	631
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 119051 cd/sqm

TEST NUMBER: P1335093

CATALOG NUMBER: P3A02R309735DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.9
10°-20°	34.1	13.7
20°-30°	86.6	34.9
30°-40°	86.3	34.8
40°-50°	35.0	14.1
50°-60°	2.4	1.0
60°-70°	0.5	0.2
70°-80°	0.6	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°	122.9	49.5
0°-40°	209.2	84.3
0°-60°	246.6	99.4
0°-90°	248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	248.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	35	24	11	5	4	8
15°	646	110	6	0	0	188
25°	1043	156	2	0	0	471
35°	889	58	0	0	0	545
45°	384	8	0	0	0	293
55°	7	0	0	1	1	17
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	

TEST NUMBER: P1335093

CATALOG NUMBER: P3A02R309735DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
2.5°	19.5	19.7	19.7	19.3	19.0	19.0	18.4	18.1	17.4	16.8	14.5
5°	35.4	34.7	33.8	33.8	31.7	30.6	29.0	27.2	25.8	23.6	16.8
7.5°	80.2	74.8	73.2	71.2	63.5	57.3	50.3	44.2	38.5	33.8	18.6
10°	202.4	191.7	182.9	165.0	142.5	121.0	101.1	78.0	62.1	49.4	19.9
12.5°	407.7	393.4	376.4	343.8	301.9	248.1	200.6	149.8	105.1	72.7	20.4
15°	645.6	621.4	594.9	553.4	484.7	407.7	321.8	240.9	168.8	109.9	19.9
17.5°	839.6	830.1	790.9	734.2	650.2	550.9	445.1	334.5	227.7	143.9	18.6
20°	982.8	976.3	928.9	868.6	773.9	660.1	525.7	393.0	268.8	165.4	16.5
22.5°	1051.9	1050.8	1016.6	955.0	854.6	725.6	577.6	426.7	281.5	168.4	13.8
25°	1042.9	1047.0	1027.5	981.7	885.4	752.6	593.1	426.7	272.2	155.9	11.6
27.5°	1001.6	1004.4	992.1	957.0	867.3	733.1	571.5	399.3	245.2	133.9	9.5
30°	973.3	974.4	959.3	921.6	826.5	688.7	520.8	348.5	204.4	107.4	7.0
32.5°	938.9	938.6	921.0	877.9	773.0	626.4	456.4	288.0	157.0	81.6	4.1
35°	888.6	882.9	858.9	809.2	693.2	542.5	374.1	219.4	113.1	57.8	2.5
37.5°	819.4	804.7	770.7	704.3	581.3	425.4	277.4	154.1	77.3	38.3	1.6
40°	708.6	693.0	646.8	566.1	439.6	306.2	187.0	100.4	48.7	22.9	0.9
42.5°	555.7	545.0	482.7	402.2	290.3	195.3	112.4	59.4	27.4	13.1	0.2
45°	383.9	370.1	321.1	252.9	174.3	108.3	63.0	31.0	15.6	7.9	0.0
47.5°	211.9	194.9	166.6	131.0	87.7	56.9	31.7	16.8	8.8	3.9	0.0
50°	84.8	84.1	66.9	47.6	33.5	25.8	15.9	9.1	4.5	1.4	0.2
52.5°	29.7	29.7	25.6	20.8	16.3	11.8	7.9	4.3	1.6	0.5	0.2
55°	6.6	7.3	6.8	6.3	6.1	5.2	3.4	1.6	0.5	0.0	0.2
57.5°	0.7	0.7	0.7	0.9	1.1	1.1	0.9	0.5	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	0.5
62.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.2	0.5
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
75°	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.7
77.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.2	0.2	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5
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: P1335093

CATALOG NUMBER: P3A02R309735DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	11.8	11.8	11.8	11.8	11.8
2.5°	11.8	9.3	7.7	6.8	6.6
5°	11.1	7.0	5.0	4.3	4.1
7.5°	10.0	5.2	3.4	2.7	2.5
10°	8.6	3.9	2.3	1.6	1.6
12.5°	7.3	2.9	1.4	0.7	0.5
15°	5.9	1.8	0.5	0.2	0.2
17.5°	4.5	1.1	0.0	0.0	0.0
20°	3.6	0.5	0.0	0.0	0.0
22.5°	2.7	0.2	0.0	0.0	0.0
25°	1.8	0.0	0.0	0.0	0.0
27.5°	1.1	0.0	0.0	0.0	0.0
30°	0.7	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	0.5	0.5
50°	0.2	0.2	0.2	0.5	0.7
52.5°	0.5	0.2	0.5	0.7	0.7
55°	0.5	0.5	0.7	0.9	0.9
57.5°	0.5	0.5	0.7	0.9	0.9
60°	0.5	0.5	0.7	0.9	1.1
62.5°	0.7	0.7	0.7	0.9	0.9
65°	0.7	0.7	0.7	0.9	1.1
67.5°	0.7	0.7	0.7	0.9	1.1
70°	0.7	0.7	0.7	0.9	0.9
72.5°	0.9	0.7	0.7	0.9	0.9
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.5	0.7	0.7
80°	0.7	0.5	0.5	0.5	0.5
82.5°	0.7	0.5	0.5	0.5	0.5
85°	0.7	0.5	0.2	0.2	0.2
87.5°	0.7	0.5	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)