

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: P1335109

Luminaire Tested: P3A02R309740DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335109
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: P3A02R309740DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

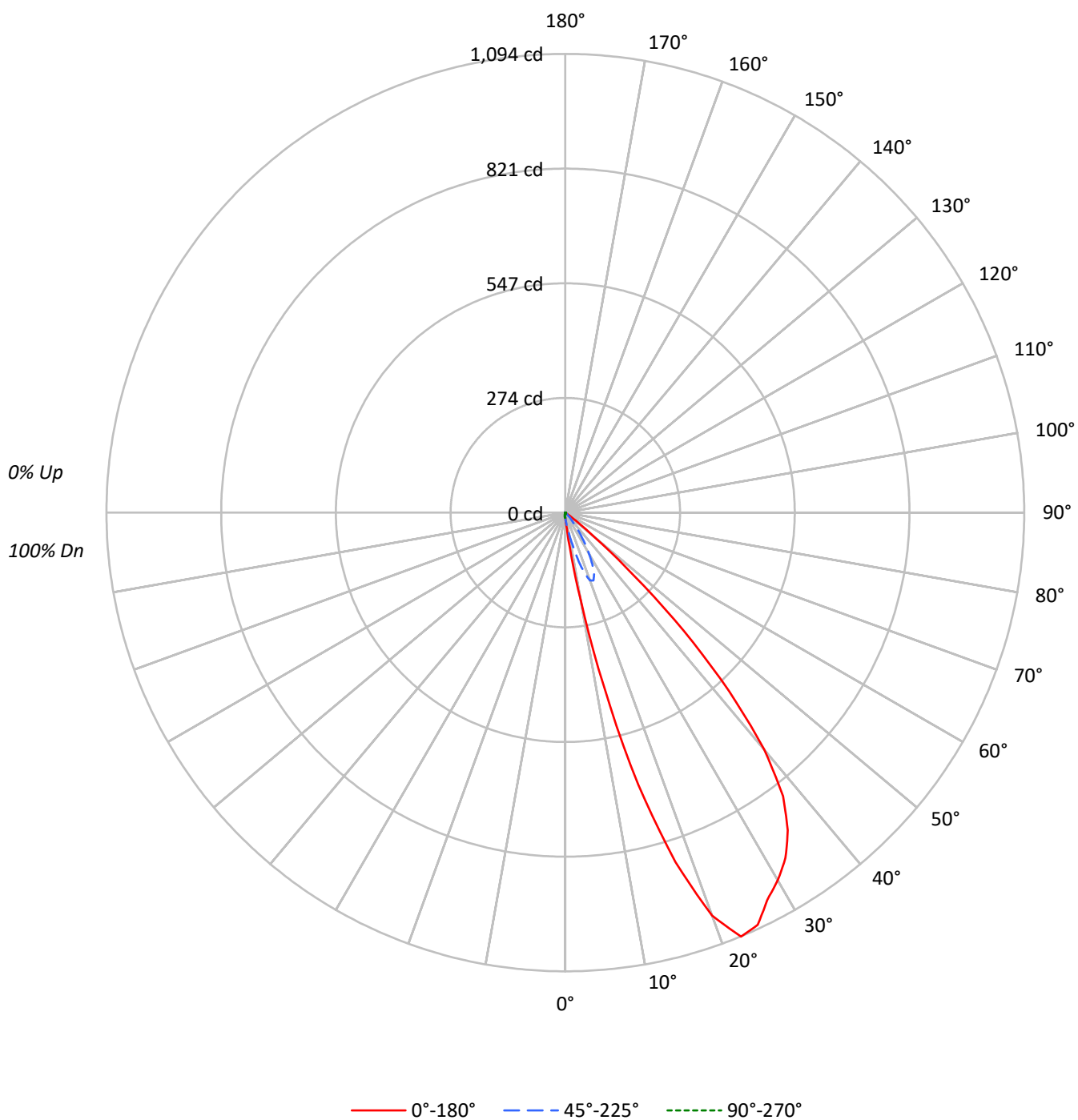
Lumens per Lamp: N/A
Luminaire Lumens: 258.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.49 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1335109

CATALOG NUMBER: P3A02R309740DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1335109

CATALOG NUMBER: P3A02R309740DE010 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	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	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°	2697	2697	2697	2697	2697
5°	8100	5393	2553	1145	924
10°	46871	11445	2004	534	379
15°	152487	25948	1385	114	45
20°	238604	40160	887	0	0
25°	262491	39244	460	0	0
30°	256394	28283	177	0	0
35°	247455	16088	54	0	0
40°	211024	6813	0	0	0
45°	123858	2574	62	0	62
50°	30089	478	68	68	239
55°	2600	0	191	268	344
60°	88	0	219	307	526
65°	104	104	363	363	623
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: 123858 cd/sqm

TEST NUMBER: P1335109

CATALOG NUMBER: P3A02R309740DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.9
10°-20°	35.5	13.7
20°-30°	90.1	34.9
30°-40°	89.8	34.8
40°-50°	36.4	14.1
50°-60°	2.5	1.0
60°-70°	0.6	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°	127.8	49.6
0°-40°	217.6	84.4
0°-60°	256.5	99.4
0°-90°	258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	258.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	37	24	12	5	4	9
15°	672	114	6	0	0	195
25°	1085	162	2	0	0	490
35°	924	60	0	0	0	567
45°	399	8	0	0	0	305
55°	7	0	0	1	1	18
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: P1335109

CATALOG NUMBER: P3A02R309740DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
2.5°	20.3	20.5	20.5	20.0	19.8	19.8	19.1	18.9	18.2	17.4	15.1
5°	36.8	36.1	35.1	35.1	33.0	31.8	30.2	28.3	26.9	24.5	17.4
7.5°	83.5	77.8	76.1	74.0	66.0	59.6	52.3	46.0	40.1	35.1	19.3
10°	210.5	199.4	190.3	171.6	148.3	125.9	105.1	81.1	64.6	51.4	20.7
12.5°	424.1	409.3	391.6	357.6	314.0	258.1	208.6	155.8	109.4	75.7	21.2
15°	671.7	646.4	618.9	575.7	504.3	424.1	334.8	250.6	175.6	114.3	20.7
17.5°	873.5	863.6	822.8	763.8	676.4	573.1	463.0	348.0	236.9	149.7	19.3
20°	1022.5	1015.6	966.4	903.6	805.1	686.7	546.9	408.8	279.6	172.1	17.2
22.5°	1094.4	1093.2	1057.6	993.5	889.0	754.9	600.9	443.9	292.8	175.2	14.4
25°	1084.9	1089.2	1068.9	1021.3	921.1	782.9	617.0	443.9	283.1	162.2	12.0
27.5°	1042.0	1044.9	1032.1	995.6	902.2	762.7	594.6	415.4	255.1	139.3	9.9
30°	1012.6	1013.7	997.9	958.8	859.8	716.5	541.8	362.6	212.6	111.7	7.3
32.5°	976.7	976.5	958.1	913.3	804.2	651.6	474.8	299.6	163.4	84.9	4.2
35°	924.4	918.5	893.5	841.9	721.2	564.4	389.2	228.2	117.6	60.1	2.6
37.5°	852.5	837.2	801.8	732.7	604.7	442.5	288.6	160.3	80.4	39.8	1.7
40°	737.2	720.9	672.8	588.9	457.4	318.5	194.5	104.4	50.7	23.8	0.9
42.5°	578.1	567.0	502.2	418.5	302.0	203.2	116.9	61.8	28.5	13.7	0.2
45°	399.4	385.0	334.1	263.1	181.3	112.7	65.5	32.3	16.3	8.3	0.0
47.5°	220.4	202.7	173.3	136.3	91.2	59.2	33.0	17.4	9.2	4.0	0.0
50°	88.2	87.5	69.5	49.5	34.9	26.9	16.5	9.4	4.7	1.4	0.2
52.5°	30.9	30.9	26.6	21.7	17.0	12.3	8.3	4.5	1.7	0.5	0.2
55°	6.8	7.5	7.1	6.6	6.4	5.4	3.5	1.7	0.5	0.0	0.2
57.5°	0.7	0.7	0.7	0.9	1.2	1.2	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: P1335109

CATALOG NUMBER: P3A02R309740DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	12.3	12.3	12.3	12.3	12.3
2.5°	12.3	9.7	8.0	7.1	6.8
5°	11.6	7.3	5.2	4.5	4.2
7.5°	10.4	5.4	3.5	2.8	2.6
10°	9.0	4.0	2.4	1.7	1.7
12.5°	7.5	3.1	1.4	0.7	0.5
15°	6.1	1.9	0.5	0.2	0.2
17.5°	4.7	1.2	0.0	0.0	0.0
20°	3.8	0.5	0.0	0.0	0.0
22.5°	2.8	0.2	0.0	0.0	0.0
25°	1.9	0.0	0.0	0.0	0.0
27.5°	1.2	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	1.2
62.5°	0.7	0.7	0.7	0.9	0.9
65°	0.7	0.7	0.7	0.9	1.2
67.5°	0.7	0.7	0.7	0.9	1.2
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)