

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: P1339023

Luminaire Tested: P3A05R409835DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R409835DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

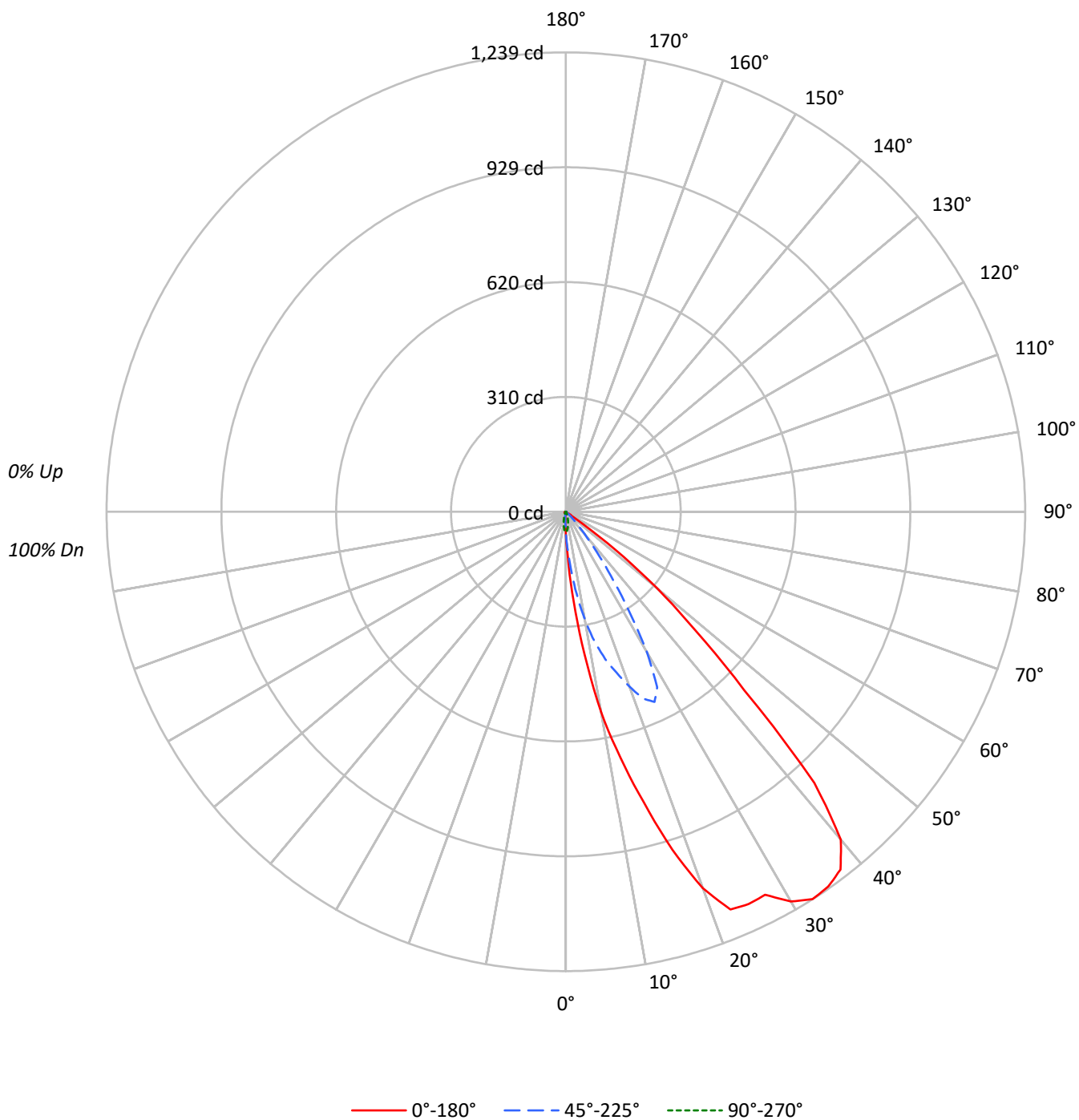
Lumens per Lamp: N/A
Luminaire Lumens: 457.0 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1339023

CATALOG NUMBER: P3A05R409835DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1339023

CATALOG NUMBER: P3A05R409835DE010 E3CA301MW

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	94	90	95	91	88		92	89	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70		78	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	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	56	51	62	56	51		61	55	51		59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11863	11863	11863	11863	11863
5°	53489	34096	10632	4072	2972
10°	122643	65886	7481	1470	1113
15°	184042	93463	4654	795	704
20°	252022	117167	2707	443	537
25°	282500	136919	1403	363	460
30°	307288	110523	582	304	481
35°	330252	56563	214	402	616
40°	330362	22557	115	429	773
45°	210937	7536	248	713	1085
50°	109506	921	409	921	1330
55°	9443	153	459	1185	1606
60°	351	175	526	1360	1842
65°	415	208	778	1401	2024
70°	256	256	962	1475	1988
75°	339	339	1017	1610	2288
80°	505	505	1515	1515	1894
85°	0	1006	3019	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 210937 cd/sqm

TEST NUMBER: P1339023

CATALOG NUMBER: P3A05R409835DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	2.3
10°-20°	61.9	13.5
20°-30°	135.5	29.6
30°-40°	154.3	33.8
40°-50°	81.4	17.8
50°-60°	9.6	2.1
60°-70°	1.7	0.4
70°-80°	1.4	0.3
80°-90°	0.7	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°	207.9	45.5
0°-40°	362.2	79.2
0°-60°	453.2	99.2
0°-90°	457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	457.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	243	155	48	18	14	33
15°	811	412	20	4	3	239
25°	1168	566	6	2	2	538
35°	1234	211	1	2	2	765
45°	680	24	1	2	4	548
55°	25	0	1	3	4	77
65°	1	0	2	3	4	1
75°	0	0	1	2	3	0
85°	0	0	1	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1339023

CATALOG NUMBER: P3A05R409835DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
2.5°	120.5	120.5	120.1	116.6	116.3	115.9	109.7	108.1	100.8	95.8	73.0
5°	243.0	237.5	237.2	231.0	220.5	206.6	197.8	183.5	169.6	154.9	90.0
7.5°	387.0	391.7	378.9	372.3	349.2	332.6	307.1	284.7	253.4	224.0	103.9
10°	550.8	542.7	529.9	517.2	492.1	462.3	424.5	384.7	339.5	295.9	111.6
12.5°	678.6	668.2	660.5	643.1	618.4	580.1	535.0	481.7	421.8	358.8	111.2
15°	810.7	800.3	782.9	767.5	730.8	687.9	638.9	568.6	495.2	411.7	103.1
17.5°	956.0	942.4	923.1	899.6	864.0	816.5	754.3	668.6	564.7	455.0	88.5
20°	1080.0	1071.8	1052.5	1024.7	990.0	943.6	871.8	776.7	650.1	502.1	70.3
22.5°	1161.1	1153.7	1140.6	1116.3	1090.0	1040.6	974.9	870.6	721.5	545.0	53.3
25°	1167.6	1164.5	1161.1	1153.0	1137.1	1102.0	1037.8	925.5	765.9	565.9	39.4
27.5°	1164.2	1163.0	1162.2	1158.0	1147.5	1112.8	1047.1	933.6	760.1	533.4	29.0
30°	1213.6	1210.1	1208.2	1194.3	1166.9	1113.2	1027.4	889.9	675.5	436.5	20.9
32.5°	1238.7	1237.9	1236.0	1222.5	1183.9	1113.9	994.2	784.5	535.7	315.2	14.3
35°	1233.7	1229.8	1222.9	1197.8	1144.1	1056.4	886.8	626.5	386.6	211.3	9.3
37.5°	1216.7	1207.8	1194.3	1149.1	1077.6	957.9	719.2	461.2	263.0	136.7	5.4
40°	1154.1	1142.1	1120.9	1065.7	971.8	789.5	531.9	311.7	172.7	78.8	1.5
42.5°	992.3	976.8	961.4	899.6	792.2	588.6	349.9	192.7	98.5	43.3	0.4
45°	680.2	660.9	639.6	594.8	508.7	356.5	208.2	108.5	51.0	24.3	0.4
47.5°	472.4	463.5	426.4	369.3	283.1	188.9	107.8	53.3	27.0	11.2	0.4
50°	321.0	310.9	267.7	212.4	150.6	90.4	49.4	26.7	12.0	2.7	0.4
52.5°	168.4	156.0	128.6	98.1	61.0	37.9	21.6	11.6	3.5	0.4	0.4
55°	24.7	22.8	18.5	15.1	13.5	10.4	6.2	2.7	0.4	0.4	0.8
57.5°	0.8	0.8	0.8	0.8	1.2	1.2	0.8	0.4	0.4	0.4	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
67.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8	1.2
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
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: P1339023

CATALOG NUMBER: P3A05R409835DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	54.1	54.1	54.1	54.1	54.1
2.5°	53.3	39.4	30.5	26.3	25.9
5°	48.3	28.2	18.5	14.3	13.5
7.5°	40.9	19.7	10.8	7.7	7.3
10°	33.6	13.5	6.6	5.4	5.0
12.5°	26.7	8.9	4.6	4.2	3.9
15°	20.5	5.8	3.5	3.1	3.1
17.5°	15.4	3.9	2.7	2.7	2.7
20°	11.6	2.7	1.9	2.3	2.3
22.5°	8.1	1.9	1.5	1.9	1.9
25°	5.8	1.5	1.5	1.9	1.9
27.5°	3.9	1.2	1.2	1.5	1.9
30°	2.3	0.8	1.2	1.5	1.9
32.5°	1.2	0.8	1.2	1.9	1.9
35°	0.8	1.2	1.5	1.9	2.3
37.5°	0.4	1.2	1.5	2.3	2.3
40°	0.4	1.2	1.5	2.3	2.7
42.5°	0.8	1.5	1.9	2.7	3.1
45°	0.8	1.5	2.3	3.1	3.5
47.5°	0.8	1.5	2.7	3.5	3.5
50°	1.2	1.9	2.7	3.5	3.9
52.5°	1.2	1.9	2.7	3.9	4.2
55°	1.2	1.9	3.1	3.9	4.2
57.5°	1.2	2.3	3.1	3.9	4.2
60°	1.2	1.9	3.1	3.9	4.2
62.5°	1.5	1.9	2.7	3.9	3.9
65°	1.5	1.9	2.7	3.9	3.9
67.5°	1.5	1.9	2.7	3.5	3.5
70°	1.5	1.9	2.3	3.1	3.1
72.5°	1.5	1.9	2.3	2.7	3.1
75°	1.2	1.5	1.9	2.3	2.7
77.5°	1.2	1.5	1.5	2.3	2.3
80°	1.2	1.2	1.2	1.5	1.5
82.5°	1.2	1.2	0.8	1.2	1.2
85°	1.2	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)