

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: P1338815

Luminaire Tested: P3A05R409024DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338815
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: P3A05R409024DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 2400K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

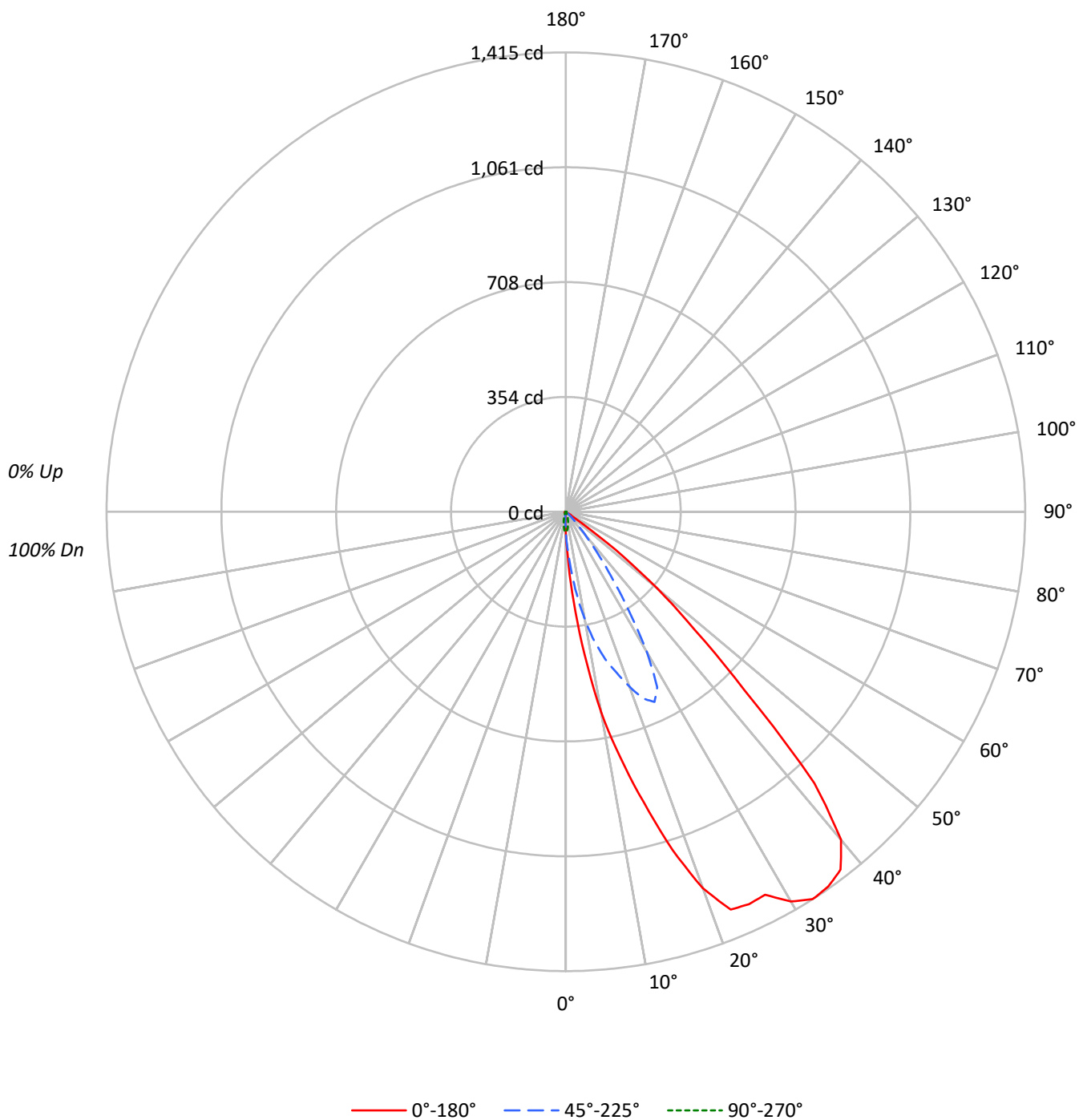
Lumens per Lamp: N/A
Luminaire Lumens: 522.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96
2	105	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82
4	92	83	77	71	90	82	76	71	80	74	70		78	73	69		76
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70
6	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64
7	75	64	57	52	74	63	56	52	62	56	51		61	55	51		59
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13552	13552	13552	13552	13552
5°	61083	38939	12129	4667	3390
10°	140078	75238	8550	1670	1269
15°	210217	106766	5312	908	795
20°	287865	133828	3080	513	607
25°	322688	156372	1597	436	532
30°	350991	126222	658	329	557
35°	377205	64594	241	482	696
40°	377364	25763	115	515	887
45°	240924	8621	279	806	1240
50°	125062	1058	443	1058	1501
55°	10781	153	497	1338	1873
60°	395	175	570	1535	2149
65°	467	208	934	1608	2283
70°	256	256	1154	1667	2244
75°	339	339	1101	1864	2626
80°	505	505	1642	1642	2273
85°	0	1006	3271	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 240924 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.0	2.3
10°-20°	70.7	13.5
20°-30°	154.7	29.6
30°-40°	176.3	33.8
40°-50°	93.0	17.8
50°-60°	11.0	2.1
60°-70°	2.0	0.4
70°-80°	1.6	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°	237.4	45.5
0°-40°	413.7	79.3
0°-60°	517.7	99.2
0°-90°	522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	522.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	62	62	62	62	62	
5°	278	177	55	21	15	37
15°	926	470	23	4	4	273
25°	1334	646	7	2	2	615
35°	1409	241	1	2	3	873
45°	777	28	1	3	4	626
55°	28	0	1	4	5	88
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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
2.5°	137.6	137.6	137.2	133.2	132.8	132.4	125.3	123.5	115.1	109.4	83.4
5°	277.5	271.3	270.9	263.8	251.9	236.0	225.9	209.6	193.7	176.9	102.8
7.5°	442.1	447.4	432.8	425.3	398.8	379.9	350.7	325.2	289.4	255.9	118.7
10°	629.1	619.9	605.3	590.7	562.1	528.1	484.9	439.4	387.8	337.9	127.5
12.5°	775.2	763.3	754.4	734.6	706.3	662.7	611.0	550.2	481.8	409.9	127.1
15°	926.0	914.1	894.3	876.6	834.7	785.8	729.7	649.4	565.6	470.3	117.8
17.5°	1091.9	1076.5	1054.4	1027.5	986.9	932.7	861.6	763.7	645.0	519.7	101.0
20°	1233.6	1224.3	1202.2	1170.5	1130.8	1077.8	995.8	887.2	742.5	573.5	80.3
22.5°	1326.2	1317.8	1302.8	1275.0	1245.0	1188.6	1113.6	994.4	824.1	622.5	60.9
25°	1333.7	1330.2	1326.2	1316.9	1298.8	1258.7	1185.5	1057.1	874.9	646.3	45.0
27.5°	1329.7	1328.4	1327.5	1322.7	1310.8	1271.1	1196.1	1066.3	868.3	609.3	33.1
30°	1386.2	1382.2	1380.0	1364.1	1332.8	1271.5	1173.6	1016.5	771.6	498.5	23.8
32.5°	1414.9	1414.0	1411.8	1396.4	1352.2	1272.4	1135.6	896.0	611.9	360.0	16.3
35°	1409.1	1404.7	1396.8	1368.1	1306.8	1206.6	1013.0	715.6	441.6	241.3	10.6
37.5°	1389.7	1379.6	1364.1	1312.5	1230.9	1094.1	821.5	526.8	300.4	156.2	6.2
40°	1318.3	1304.6	1280.3	1217.2	1110.0	901.8	607.5	356.0	197.2	90.0	1.8
42.5°	1133.4	1115.8	1098.1	1027.5	904.9	672.4	399.7	220.2	112.5	49.4	0.4
45°	776.9	754.9	730.6	679.4	581.0	407.2	237.8	124.0	58.2	27.8	0.4
47.5°	539.6	529.4	487.1	421.8	323.4	215.7	123.1	60.9	30.9	12.8	0.4
50°	366.6	355.2	305.7	242.7	172.1	103.2	56.5	30.4	13.7	3.1	0.4
52.5°	192.4	178.2	146.9	112.1	69.7	43.2	24.7	13.2	4.0	0.4	0.4
55°	28.2	26.0	21.2	17.2	15.4	11.9	7.1	3.1	0.4	0.4	0.9
57.5°	0.9	0.9	0.9	0.9	1.3	1.3	0.9	0.4	0.4	0.4	0.9
60°	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9
67.5°	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9	1.3
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.9
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):

	90°	112.5°	135°	157.5°	180°
0°	61.8	61.8	61.8	61.8	61.8
2.5°	60.9	45.0	34.9	30.0	29.6
5°	55.1	32.2	21.2	16.3	15.4
7.5°	46.8	22.5	12.4	8.8	8.4
10°	38.4	15.4	7.5	6.2	5.7
12.5°	30.4	10.1	5.3	4.9	4.4
15°	23.4	6.6	4.0	3.5	3.5
17.5°	17.6	4.4	3.1	3.1	3.1
20°	13.2	3.1	2.2	2.6	2.6
22.5°	9.3	2.2	1.8	2.2	2.2
25°	6.6	1.8	1.8	2.2	2.2
27.5°	4.4	1.3	1.3	1.8	2.2
30°	2.6	0.9	1.3	1.8	2.2
32.5°	1.3	0.9	1.3	2.2	2.2
35°	0.9	1.3	1.8	2.2	2.6
37.5°	0.4	1.3	1.8	2.6	2.6
40°	0.4	1.3	1.8	2.6	3.1
42.5°	0.9	1.8	2.2	3.1	3.5
45°	0.9	1.8	2.6	3.5	4.0
47.5°	0.9	1.8	3.1	4.0	4.0
50°	1.3	2.2	3.1	4.0	4.4
52.5°	1.3	2.2	3.1	4.4	4.9
55°	1.3	2.2	3.5	4.4	4.9
57.5°	1.3	2.6	3.5	4.4	4.9
60°	1.3	2.2	3.5	4.4	4.9
62.5°	1.8	2.2	3.1	4.4	4.4
65°	1.8	2.2	3.1	4.4	4.4
67.5°	1.8	2.2	3.1	4.0	4.0
70°	1.8	2.2	2.6	3.5	3.5
72.5°	1.8	2.2	2.6	3.1	3.5
75°	1.3	1.8	2.2	2.6	3.1
77.5°	1.3	1.8	1.8	2.6	2.6
80°	1.3	1.3	1.3	1.8	1.8
82.5°	1.3	1.3	0.9	1.3	1.3
85°	1.3	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)