

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: P1345596

Luminaire Tested: P3A13R359835DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R359835DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

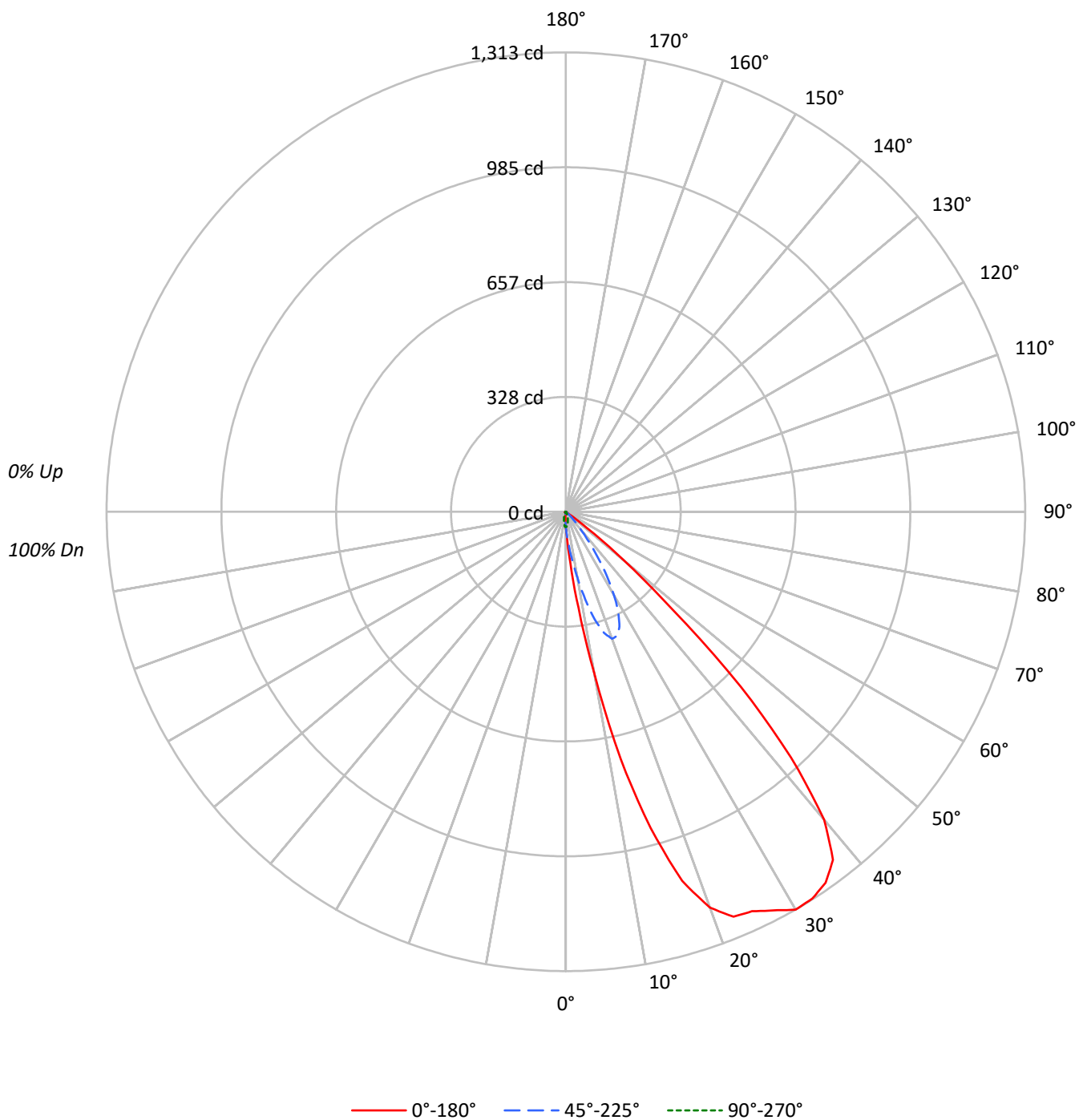
Lumens per Lamp: N/A
Luminaire Lumens: 413.0 lumens
Efficiency: N/A
Efficacy: 28.5 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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			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	98	96		96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	84	83
3	99	91	85	81	97	90	84	80	87	83	79		85	81	77		82	79	76	74
4	92	83	77	72	91	82	76	71	80	75	71		78	73	70		76	72	69	67
5	86	76	69	64	85	75	69	64	74	68	63		72	67	63		70	66	62	61
6	81	70	63	58	79	69	62	58	68	62	57		66	61	57		65	60	56	55
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47		56	51	47		55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43		52	46	42		51	46	42	41
10	62	50	44	39	61	50	43	39	49	43	39		48	43	39		47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9517	9517	9517	9517	9517
5°	32401	21043	8893	3764	2773
10°	104251	42685	7014	1403	913
15°	212419	72373	4972	499	341
20°	280911	90145	3197	163	163
25°	304808	87634	1790	97	169
30°	332482	69834	760	101	177
35°	346447	43473	187	107	187
40°	328759	19007	115	200	315
45°	219465	7598	124	341	589
50°	73618	1262	239	512	751
55°	4129	153	268	726	994
60°	307	175	482	833	1140
65°	363	208	571	986	1349
70°	256	256	705	1218	1410
75°	339	339	932	1271	1610
80°	0	505	1389	1389	1389
85°	0	1006	2768	1006	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 219465 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	1.8
10°-20°	59.3	14.4
20°-30°	125.2	30.3
30°-40°	142.0	34.4
40°-50°	69.9	16.9
50°-60°	6.1	1.5
60°-70°	1.2	0.3
70°-80°	1.2	0.3
80°-90°	0.6	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°	192.0	46.5
0°-40°	334.1	80.9
0°-60°	410.1	99.3
0°-90°	413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	413.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	43	43	43	43	43	
5°	147	96	40	17	13	24
15°	936	319	22	2	2	266
25°	1260	362	7	0	1	586
35°	1294	162	1	0	1	798
45°	708	24	0	1	2	523
55°	11	0	1	2	3	42
65°	1	0	1	2	3	1
75°	0	0	1	2	2	0
85°	0	0	1	0	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°	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
2.5°	75.3	77.1	76.4	76.0	75.6	74.1	70.8	70.4	67.1	64.9	53.8
5°	147.2	144.2	145.0	140.9	135.7	128.3	123.5	113.1	104.5	95.6	62.7
7.5°	277.3	273.2	265.4	253.6	241.3	225.4	201.3	182.0	159.8	138.7	69.7
10°	468.2	466.0	456.0	425.6	398.9	356.3	316.2	274.0	232.5	191.7	74.5
12.5°	723.3	708.1	689.9	649.5	596.9	543.5	464.5	391.5	325.1	256.9	74.9
15°	935.7	926.1	900.5	847.9	784.5	707.4	613.6	515.3	415.2	318.8	71.2
17.5°	1106.6	1091.8	1058.8	1007.3	934.3	834.2	724.4	604.7	482.7	362.9	64.9
20°	1203.8	1196.0	1170.8	1119.2	1039.5	930.2	805.2	665.8	525.0	386.3	56.7
22.5°	1252.7	1247.2	1228.6	1187.5	1112.9	1002.8	859.7	697.7	537.2	383.7	48.2
25°	1259.8	1258.3	1242.3	1211.2	1148.9	1039.9	883.5	703.7	527.2	362.2	40.0
27.5°	1284.2	1279.0	1260.1	1229.0	1166.3	1046.2	875.3	683.3	494.9	324.4	33.4
30°	1313.1	1309.4	1290.5	1258.3	1184.1	1040.3	846.4	638.0	443.4	275.8	24.8
32.5°	1310.9	1309.4	1293.5	1259.4	1171.5	1005.4	794.9	570.2	373.3	217.6	15.6
35°	1294.2	1289.0	1269.0	1216.4	1099.6	915.7	697.0	478.2	295.5	162.4	10.0
37.5°	1254.2	1243.1	1209.3	1120.0	971.0	777.4	567.6	369.3	209.1	108.6	6.3
40°	1148.5	1134.4	1066.6	958.7	802.6	612.5	422.3	254.0	137.9	66.4	2.6
42.5°	952.8	924.2	856.4	745.5	599.1	433.0	277.3	164.6	81.2	40.0	0.7
45°	707.7	685.9	614.7	514.2	392.6	277.7	167.9	89.0	44.9	24.5	0.4
47.5°	412.3	398.9	362.2	296.2	216.9	145.7	86.0	47.8	26.3	11.9	0.4
50°	215.8	199.1	171.3	129.8	95.6	67.1	41.9	25.6	13.0	3.7	0.4
52.5°	75.6	74.5	67.8	51.2	41.5	30.0	20.4	11.1	3.7	0.7	0.4
55°	10.8	10.8	10.0	11.1	11.9	10.8	7.0	3.0	0.7	0.4	0.4
57.5°	0.7	0.7	0.7	1.1	1.5	1.5	1.1	0.4	0.4	0.4	0.7
60°	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
62.5°	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
65°	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
77.5°	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.7
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°	43.4	43.4	43.4	43.4	43.4
2.5°	43.0	34.5	27.4	24.1	23.0
5°	40.4	26.0	17.1	13.3	12.6
7.5°	36.0	18.5	10.4	7.4	7.0
10°	31.5	13.3	6.3	4.4	4.1
12.5°	26.3	9.3	4.1	2.6	2.2
15°	21.9	6.3	2.2	1.9	1.5
17.5°	17.4	4.1	1.5	1.1	1.5
20°	13.7	2.6	0.7	0.7	0.7
22.5°	10.4	1.5	0.7	0.7	0.7
25°	7.4	0.7	0.4	0.4	0.7
27.5°	5.2	0.4	0.4	0.4	0.7
30°	3.0	0.4	0.4	0.4	0.7
32.5°	1.5	0.4	0.4	0.7	0.7
35°	0.7	0.4	0.4	0.7	0.7
37.5°	0.4	0.4	0.4	0.7	1.1
40°	0.4	0.4	0.7	1.1	1.1
42.5°	0.4	0.4	0.7	1.1	1.5
45°	0.4	0.7	1.1	1.5	1.9
47.5°	0.7	0.7	1.5	1.9	2.2
50°	0.7	1.1	1.5	2.2	2.2
52.5°	0.7	1.1	1.9	2.2	2.6
55°	0.7	1.5	1.9	2.6	2.6
57.5°	1.1	1.5	1.9	2.6	2.6
60°	1.1	1.5	1.9	2.6	2.6
62.5°	1.1	1.5	1.9	2.6	2.6
65°	1.1	1.5	1.9	2.6	2.6
67.5°	1.1	1.5	1.9	2.2	2.6
70°	1.1	1.5	1.9	2.2	2.2
72.5°	1.5	1.5	1.9	2.2	2.2
75°	1.1	1.5	1.5	1.9	1.9
77.5°	1.1	1.1	1.1	1.5	1.5
80°	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	0.7	0.7	1.1	1.1
85°	1.1	0.7	0.4	0.7	0.7
87.5°	0.7	0.7	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)