

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: P1345516

Luminaire Tested: P3A13R359730DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345516
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: P3A13R359730DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

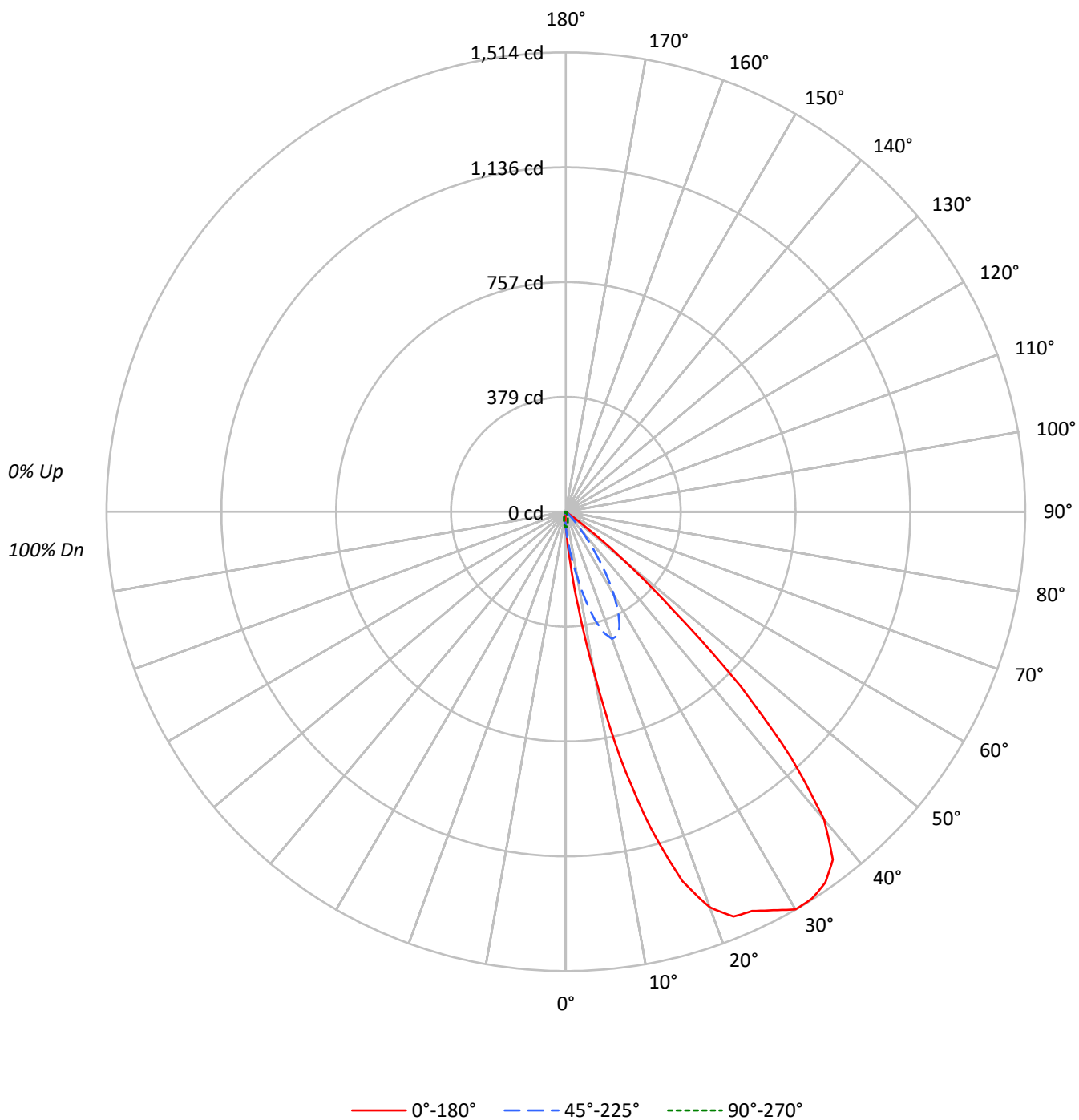
Lumens per Lamp: N/A
Luminaire Lumens: 476.0 lumens
Efficiency: N/A
Efficacy: 32.6 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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

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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°	10964	10964	10964	10964	10964
5°	37332	24257	10258	4336	3192
10°	120171	49186	8083	1625	1047
15°	244837	83428	5721	590	386
20°	323755	103889	3687	210	210
25°	351286	101014	2057	97	218
30°	383224	80493	861	101	228
35°	399317	50112	241	107	241
40°	378910	21898	115	258	372
45°	252956	8745	124	403	651
50°	84842	1467	307	580	887
55°	4741	153	344	803	1147
60°	395	175	570	921	1316
65°	467	208	675	1090	1557
70°	256	256	833	1346	1667
75°	339	339	1101	1440	1779
80°	0	505	1642	1642	1642
85°	0	1006	3271	1006	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 252956 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	1.8
10°-20°	68.4	14.4
20°-30°	144.3	30.3
30°-40°	163.7	34.4
40°-50°	80.6	16.9
50°-60°	7.0	1.5
60°-70°	1.4	0.3
70°-80°	1.3	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°	221.3	46.5
0°-40°	385.1	80.9
0°-60°	472.6	99.3
0°-90°	476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	476.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	50	50	50	50	50	
5°	170	110	47	20	14	28
15°	1078	368	25	3	2	307
25°	1452	418	8	0	1	676
35°	1492	187	1	0	1	919
45°	816	28	0	1	2	603
55°	12	0	1	2	3	49
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°	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
2.5°	86.7	88.9	88.0	87.6	87.2	85.5	81.6	81.2	77.3	74.8	62.0
5°	169.6	166.2	167.1	162.4	156.4	147.8	142.3	130.3	120.5	110.2	72.2
7.5°	319.6	314.9	305.9	292.3	278.2	259.8	232.0	209.8	184.2	159.8	80.3
10°	539.7	537.1	525.6	490.5	459.8	410.6	364.5	315.8	267.9	220.9	85.9
12.5°	833.6	816.1	795.2	748.6	687.9	626.4	535.4	451.2	374.7	296.1	86.3
15°	1078.5	1067.4	1037.9	977.2	904.1	815.3	707.2	593.9	478.6	367.5	82.0
17.5°	1275.5	1258.4	1220.3	1160.9	1076.8	961.4	834.9	696.9	556.3	418.3	74.8
20°	1387.4	1378.4	1349.4	1290.0	1198.1	1072.1	928.1	767.4	605.0	445.2	65.4
22.5°	1443.8	1437.4	1416.0	1368.6	1282.7	1155.8	990.9	804.2	619.1	442.2	55.5
25°	1451.9	1450.2	1431.8	1395.9	1324.2	1198.5	1018.2	811.0	607.6	417.5	46.1
27.5°	1480.1	1474.1	1452.4	1416.5	1344.2	1205.8	1008.8	787.5	570.4	373.9	38.5
30°	1513.5	1509.2	1487.4	1450.2	1364.8	1199.0	975.5	735.4	511.0	317.9	28.6
32.5°	1510.9	1509.2	1490.8	1451.5	1350.2	1158.8	916.1	657.2	430.3	250.8	17.9
35°	1491.7	1485.7	1462.6	1401.9	1267.3	1055.4	803.3	551.2	340.5	187.2	11.5
37.5°	1445.5	1432.7	1393.8	1290.8	1119.1	896.0	654.2	425.6	241.0	125.2	7.3
40°	1323.7	1307.5	1229.3	1105.0	925.1	705.9	486.7	292.7	159.0	76.5	3.0
42.5°	1098.1	1065.2	987.0	859.3	690.5	499.1	319.6	189.7	93.6	46.1	0.9
45°	815.7	790.5	708.4	592.6	452.5	320.0	193.6	102.5	51.7	28.2	0.4
47.5°	475.1	459.8	417.5	341.4	250.0	167.9	99.1	55.1	30.3	13.7	0.4
50°	248.7	229.5	197.4	149.6	110.2	77.3	48.3	29.5	15.0	4.3	0.4
52.5°	87.2	85.9	78.2	59.0	47.9	34.6	23.5	12.8	4.3	0.9	0.4
55°	12.4	12.4	11.5	12.8	13.7	12.4	8.1	3.4	0.9	0.4	0.4
57.5°	0.9	0.9	0.9	1.3	1.7	1.7	1.3	0.4	0.4	0.4	0.9
60°	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
62.5°	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
65°	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
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	0.4	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°	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.9
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°	50.0	50.0	50.0	50.0	50.0
2.5°	49.6	39.7	31.6	27.8	26.5
5°	46.6	29.9	19.7	15.4	14.5
7.5°	41.4	21.4	12.0	8.5	8.1
10°	36.3	15.4	7.3	5.1	4.7
12.5°	30.3	10.7	4.7	3.0	2.6
15°	25.2	7.3	2.6	2.1	1.7
17.5°	20.1	4.7	1.7	1.3	1.7
20°	15.8	3.0	0.9	0.9	0.9
22.5°	12.0	1.7	0.9	0.9	0.9
25°	8.5	0.9	0.4	0.4	0.9
27.5°	6.0	0.4	0.4	0.4	0.9
30°	3.4	0.4	0.4	0.4	0.9
32.5°	1.7	0.4	0.4	0.9	0.9
35°	0.9	0.4	0.4	0.9	0.9
37.5°	0.4	0.4	0.4	0.9	1.3
40°	0.4	0.4	0.9	1.3	1.3
42.5°	0.4	0.4	0.9	1.3	1.7
45°	0.4	0.9	1.3	1.7	2.1
47.5°	0.9	0.9	1.7	2.1	2.6
50°	0.9	1.3	1.7	2.6	2.6
52.5°	0.9	1.3	2.1	2.6	3.0
55°	0.9	1.7	2.1	3.0	3.0
57.5°	1.3	1.7	2.1	3.0	3.0
60°	1.3	1.7	2.1	3.0	3.0
62.5°	1.3	1.7	2.1	3.0	3.0
65°	1.3	1.7	2.1	3.0	3.0
67.5°	1.3	1.7	2.1	2.6	3.0
70°	1.3	1.7	2.1	2.6	2.6
72.5°	1.7	1.7	2.1	2.6	2.6
75°	1.3	1.7	1.7	2.1	2.1
77.5°	1.3	1.3	1.3	1.7	1.7
80°	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	0.9	0.9	1.3	1.3
85°	1.3	0.9	0.4	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)