

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: P1346028

Luminaire Tested: P3A13R409730DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346028
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: P3A13R409730DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

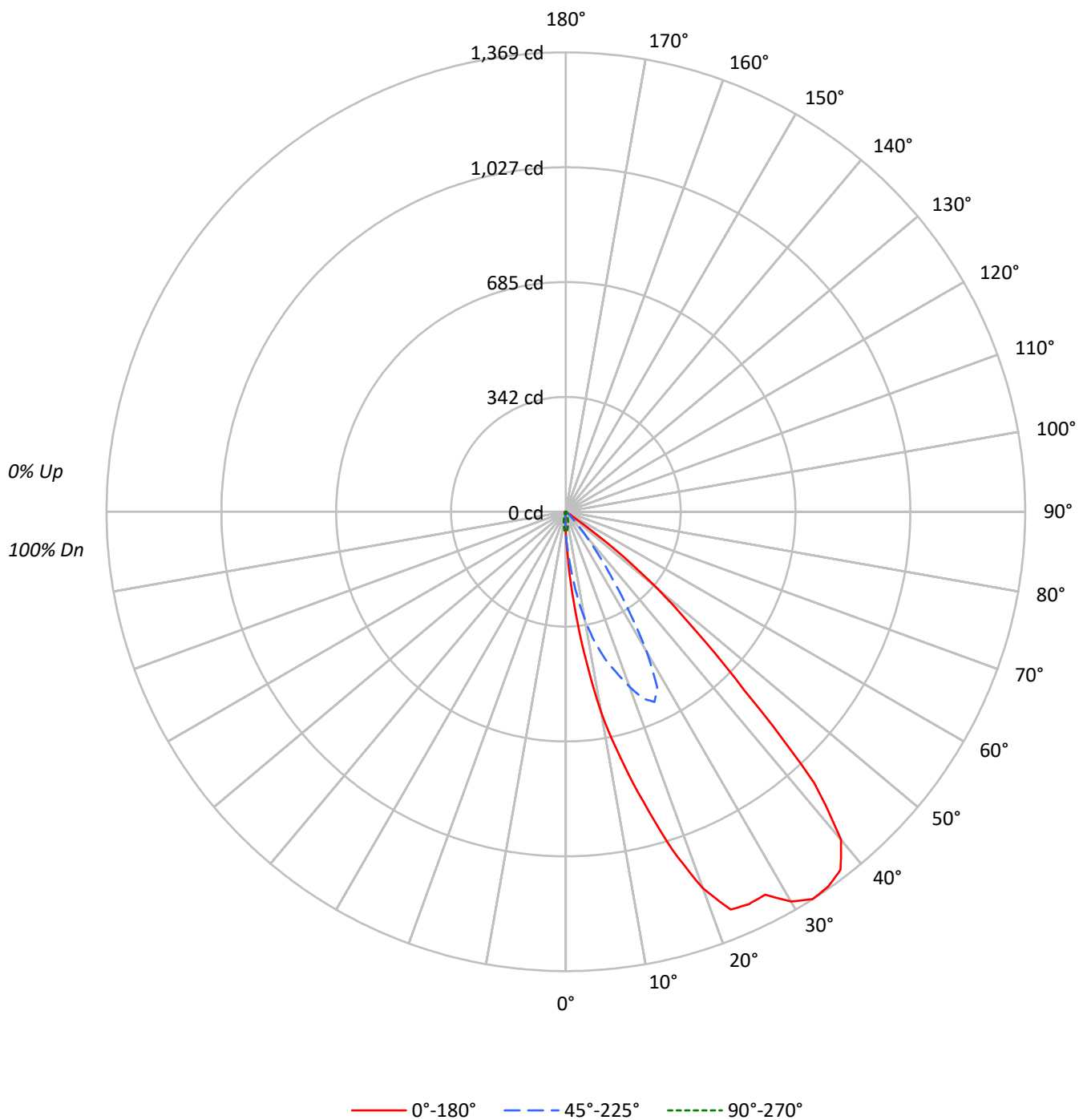
Lumens per Lamp: N/A
Luminaire Lumens: 505.0 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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	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°	13113	13113	13113	13113	13113
5°	59102	37684	11754	4512	3280
10°	135513	72789	8261	1625	1225
15°	203384	103292	5131	863	772
20°	278484	129488	2987	490	607
25°	312187	151291	1548	411	508
30°	339571	122120	658	329	532
35°	364945	62506	241	455	696
40°	365055	24932	115	487	859
45°	233078	8342	279	806	1178
50°	121002	1023	443	1023	1467
55°	10437	153	497	1300	1797
60°	395	175	570	1491	2061
65°	467	208	882	1557	2231
70°	256	256	1090	1667	2180
75°	339	339	1101	1779	2542
80°	505	505	1642	1642	2147
85°	0	1006	3271	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 233078 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	2.3
10°-20°	68.4	13.5
20°-30°	149.7	29.6
30°-40°	170.5	33.8
40°-50°	90.0	17.8
50°-60°	10.6	2.1
60°-70°	1.9	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°	229.7	45.5
0°-40°	400.2	79.2
0°-60°	500.8	99.2
0°-90°	505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	505.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	60	60	60	60	60	
5°	268	171	53	20	15	36
15°	896	455	23	4	3	264
25°	1290	625	6	2	2	595
35°	1363	234	1	2	3	845
45°	752	27	1	3	4	606
55°	27	0	1	3	5	85
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°	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
2.5°	133.2	133.2	132.7	128.9	128.5	128.0	121.2	119.5	111.4	105.9	80.7
5°	268.5	262.5	262.1	255.2	243.7	228.3	218.5	202.7	187.4	171.2	99.4
7.5°	427.7	432.8	418.7	411.5	385.8	367.5	339.3	314.6	280.0	247.6	114.8
10°	608.6	599.7	585.6	571.5	543.8	510.9	469.1	425.1	375.2	326.9	123.4
12.5°	749.9	738.4	729.9	710.7	683.3	641.1	591.1	532.2	466.1	396.5	122.9
15°	895.9	884.4	865.2	848.1	807.5	760.2	706.0	628.3	547.2	455.0	114.0
17.5°	1056.4	1041.4	1020.1	994.1	954.8	902.3	833.6	738.8	624.0	502.8	97.7
20°	1193.4	1184.4	1163.1	1132.3	1093.9	1042.7	963.3	858.3	718.3	554.9	77.7
22.5°	1283.0	1274.9	1260.4	1233.5	1204.5	1149.8	1077.3	962.0	797.3	602.2	58.9
25°	1290.3	1286.9	1283.0	1274.0	1256.5	1217.7	1146.9	1022.7	846.4	625.3	43.5
27.5°	1286.4	1285.1	1284.3	1279.6	1268.1	1229.7	1157.1	1031.6	840.0	589.4	32.0
30°	1341.1	1337.2	1335.1	1319.7	1289.4	1230.1	1135.3	983.4	746.5	482.3	23.0
32.5°	1368.8	1367.9	1365.8	1350.9	1308.2	1230.9	1098.6	866.9	592.0	348.3	15.8
35°	1363.3	1359.0	1351.3	1323.6	1264.2	1167.3	980.0	692.3	427.2	233.5	10.2
37.5°	1344.5	1334.7	1319.7	1269.8	1190.8	1058.5	794.7	509.6	290.7	151.1	6.0
40°	1275.3	1262.1	1238.6	1177.6	1073.9	872.4	587.7	344.4	190.8	87.1	1.7
42.5°	1096.5	1079.4	1062.3	994.1	875.4	650.5	386.7	213.0	108.8	47.8	0.4
45°	751.6	730.3	706.8	657.3	562.1	394.0	230.1	119.9	56.3	26.9	0.4
47.5°	522.0	512.2	471.2	408.0	312.9	208.7	119.1	58.9	29.9	12.4	0.4
50°	354.7	343.6	295.8	234.7	166.5	99.9	54.6	29.5	13.2	3.0	0.4
52.5°	186.1	172.4	142.1	108.4	67.4	41.8	23.9	12.8	3.8	0.4	0.4
55°	27.3	25.2	20.5	16.6	14.9	11.5	6.8	3.0	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°	59.8	59.8	59.8	59.8	59.8
2.5°	58.9	43.5	33.7	29.0	28.6
5°	53.4	31.2	20.5	15.8	14.9
7.5°	45.2	21.8	12.0	8.5	8.1
10°	37.1	14.9	7.3	6.0	5.5
12.5°	29.5	9.8	5.1	4.7	4.3
15°	22.6	6.4	3.8	3.4	3.4
17.5°	17.1	4.3	3.0	3.0	3.0
20°	12.8	3.0	2.1	2.6	2.6
22.5°	9.0	2.1	1.7	2.1	2.1
25°	6.4	1.7	1.7	2.1	2.1
27.5°	4.3	1.3	1.3	1.7	2.1
30°	2.6	0.9	1.3	1.7	2.1
32.5°	1.3	0.9	1.3	2.1	2.1
35°	0.9	1.3	1.7	2.1	2.6
37.5°	0.4	1.3	1.7	2.6	2.6
40°	0.4	1.3	1.7	2.6	3.0
42.5°	0.9	1.7	2.1	3.0	3.4
45°	0.9	1.7	2.6	3.4	3.8
47.5°	0.9	1.7	3.0	3.8	3.8
50°	1.3	2.1	3.0	3.8	4.3
52.5°	1.3	2.1	3.0	4.3	4.7
55°	1.3	2.1	3.4	4.3	4.7
57.5°	1.3	2.6	3.4	4.3	4.7
60°	1.3	2.1	3.4	4.3	4.7
62.5°	1.7	2.1	3.0	4.3	4.3
65°	1.7	2.1	3.0	4.3	4.3
67.5°	1.7	2.1	3.0	3.8	3.8
70°	1.7	2.1	2.6	3.4	3.4
72.5°	1.7	2.1	2.6	3.0	3.4
75°	1.3	1.7	2.1	2.6	3.0
77.5°	1.3	1.7	1.7	2.6	2.6
80°	1.3	1.3	1.3	1.7	1.7
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)