

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: P1346044

Luminaire Tested: P3A13R409735DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346044
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: P3A13R409735DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

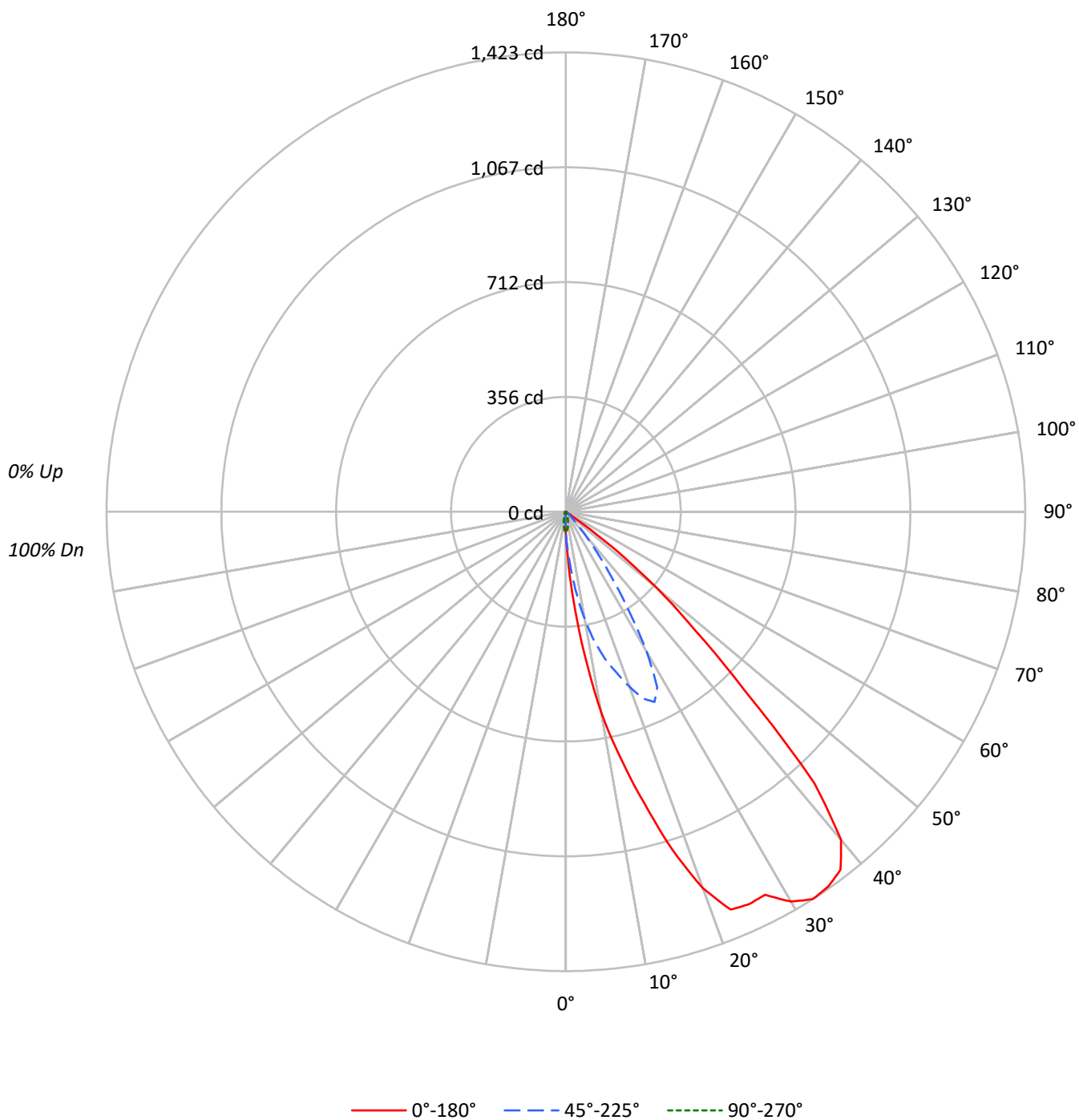
Lumens per Lamp: N/A
Luminaire Lumens: 524.9 lumens
Efficiency: N/A
Efficacy: 36.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			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	63	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	56	52	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°	13617	13617	13617	13617	13617
5°	61435	39159	12217	4689	3412
10°	140879	75683	8595	1670	1291
15°	211443	107379	5335	908	795
20°	289499	134598	3104	513	630
25°	324551	157291	1621	436	532
30°	353016	126956	684	329	557
35°	379373	64969	241	482	723
40°	379511	25906	115	515	887
45°	242320	8683	279	837	1240
50°	125778	1058	443	1058	1501
55°	10857	153	497	1338	1873
60°	395	175	570	1535	2149
65°	467	208	934	1608	2283
70°	256	256	1154	1731	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: 242320 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.1	2.3
10°-20°	71.1	13.5
20°-30°	155.6	29.6
30°-40°	177.3	33.8
40°-50°	93.5	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°	238.8	45.5
0°-40°	416.1	79.3
0°-60°	520.6	99.2
0°-90°	524.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	524.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	62	62	62	62	62	
5°	279	178	56	21	16	38
15°	931	473	24	4	4	274
25°	1341	650	7	2	2	618
35°	1417	243	1	2	3	878
45°	781	28	1	3	4	630
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°	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
2.5°	138.4	138.4	138.0	134.0	133.6	133.1	126.0	124.2	115.8	110.0	83.9
5°	279.1	272.9	272.4	265.3	253.4	237.4	227.2	210.8	194.8	177.9	103.4
7.5°	444.6	449.9	435.3	427.7	401.1	382.0	352.8	327.0	291.1	257.4	119.4
10°	632.7	623.4	608.8	594.1	565.3	531.1	487.6	441.9	390.0	339.9	128.2
12.5°	779.6	767.6	758.8	738.8	710.4	666.5	614.6	553.3	484.5	412.2	127.8
15°	931.4	919.4	899.4	881.7	839.5	790.3	733.9	653.2	568.8	473.0	118.5
17.5°	1098.2	1082.7	1060.5	1033.4	992.6	938.0	866.6	768.1	648.7	522.7	101.6
20°	1240.6	1231.3	1209.1	1177.2	1137.3	1084.0	1001.5	892.3	746.8	576.8	80.8
22.5°	1333.8	1325.4	1310.3	1282.4	1252.2	1195.4	1120.0	1000.1	828.9	626.1	61.2
25°	1341.4	1337.8	1333.8	1324.5	1306.3	1265.9	1192.3	1063.2	879.9	650.1	45.3
27.5°	1337.4	1336.0	1335.2	1330.3	1318.3	1278.4	1202.9	1072.5	873.2	612.8	33.3
30°	1394.2	1390.2	1388.0	1372.0	1340.5	1278.8	1180.3	1022.3	776.1	501.4	24.0
32.5°	1423.0	1422.1	1419.9	1404.4	1360.0	1279.7	1142.1	901.2	615.4	362.1	16.4
35°	1417.2	1412.8	1404.8	1376.0	1314.3	1213.6	1018.8	719.7	444.2	242.7	10.6
37.5°	1397.7	1387.5	1372.0	1320.1	1238.0	1100.4	826.2	529.8	302.2	157.1	6.2
40°	1325.8	1312.1	1287.7	1224.2	1116.4	907.0	611.0	358.1	198.3	90.5	1.8
42.5°	1139.9	1122.2	1104.4	1033.4	910.1	676.2	402.0	221.4	113.1	49.7	0.4
45°	781.4	759.2	734.8	683.3	584.4	409.6	239.2	124.7	58.6	28.0	0.4
47.5°	542.7	532.5	489.9	424.2	325.2	217.0	123.8	61.2	31.1	12.9	0.4
50°	368.7	357.2	307.5	244.0	173.1	103.8	56.8	30.6	13.8	3.1	0.4
52.5°	193.5	179.3	147.8	112.7	70.1	43.5	24.8	13.3	4.0	0.4	0.4
55°	28.4	26.2	21.3	17.3	15.5	12.0	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°	62.1	62.1	62.1	62.1	62.1
2.5°	61.2	45.3	35.1	30.2	29.7
5°	55.5	32.4	21.3	16.4	15.5
7.5°	47.0	22.6	12.4	8.9	8.4
10°	38.6	15.5	7.5	6.2	5.8
12.5°	30.6	10.2	5.3	4.9	4.4
15°	23.5	6.7	4.0	3.5	3.5
17.5°	17.7	4.4	3.1	3.1	3.1
20°	13.3	3.1	2.2	2.7	2.7
22.5°	9.3	2.2	1.8	2.2	2.2
25°	6.7	1.8	1.8	2.2	2.2
27.5°	4.4	1.3	1.3	1.8	2.2
30°	2.7	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	2.7
37.5°	0.4	1.3	1.8	2.7	2.7
40°	0.4	1.3	1.8	2.7	3.1
42.5°	0.9	1.8	2.2	3.1	3.5
45°	0.9	1.8	2.7	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	2.7	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	2.7	3.5	3.5
72.5°	1.8	2.2	2.7	3.1	3.5
75°	1.3	1.8	2.2	2.7	3.1
77.5°	1.3	1.8	1.8	2.7	2.7
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)