

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: P1346060

Luminaire Tested: P3A13R409740DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346060
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: P3A13R409740DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

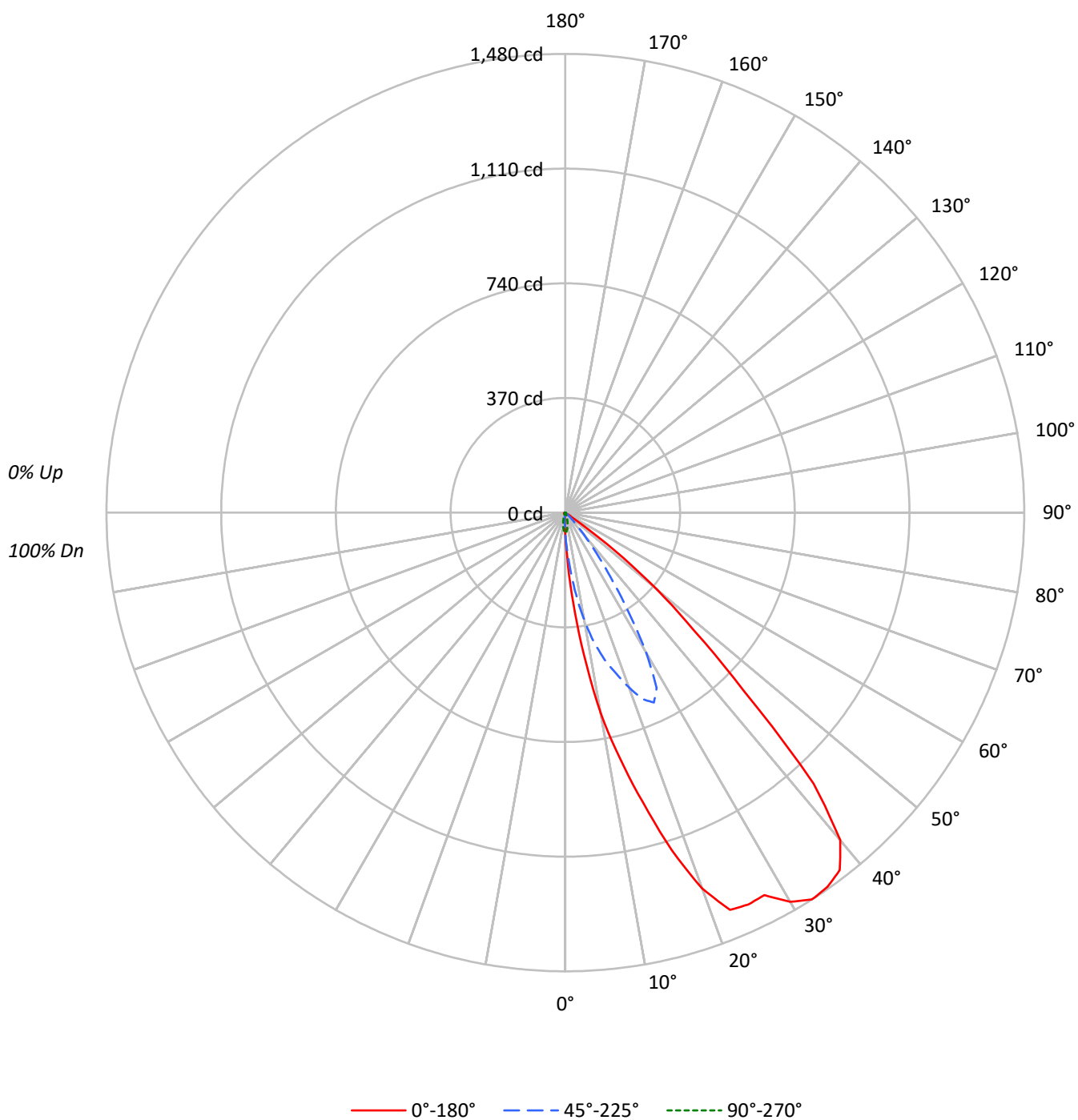
Lumens per Lamp: N/A
Luminaire Lumens: 546.0 lumens
Efficiency: N/A
Efficacy: 37.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	14166	14166	14166	14166	14166
5°	63900	40722	12701	4887	3566
10°	146535	78712	8929	1737	1336
15°	219888	111669	5562	953	840
20°	301096	139989	3220	537	653
25°	337519	163582	1669	436	556
30°	367120	132046	709	354	582
35°	394552	67566	241	482	750
40°	394711	26936	143	515	916
45°	251995	9024	279	868	1302
50°	130827	1092	478	1092	1569
55°	11278	191	535	1415	1950
60°	395	219	614	1623	2237
65°	467	259	934	1660	2387
70°	321	321	1154	1795	2372
75°	424	424	1186	1949	2711
80°	631	631	1768	1768	2273
85°	0	1258	3522	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 251995 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.6	2.3
10°-20°	73.9	13.5
20°-30°	161.8	29.6
30°-40°	184.4	33.8
40°-50°	97.3	17.8
50°-60°	11.5	2.1
60°-70°	2.1	0.4
70°-80°	1.7	0.3
80°-90°	0.8	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°	248.3	45.5
0°-40°	432.7	79.2
0°-60°	541.5	99.2
0°-90°	546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	546.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	65	65	65	65	65	
5°	290	185	58	22	16	39
15°	969	492	24	4	4	285
25°	1395	676	7	2	2	643
35°	1474	252	1	2	3	914
45°	813	29	1	3	4	655
55°	30	0	1	4	5	92
65°	1	0	2	3	5	1
75°	0	0	1	2	3	1
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°	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
2.5°	144.0	144.0	143.5	139.4	138.9	138.4	131.1	129.2	120.4	114.4	87.2
5°	290.3	283.8	283.3	276.0	263.5	246.9	236.3	219.2	202.6	185.0	107.5
7.5°	462.4	467.9	452.7	444.9	417.2	397.3	366.9	340.1	302.7	267.7	124.1
10°	658.1	648.4	633.1	617.9	587.9	552.4	507.2	459.6	405.6	353.5	133.4
12.5°	810.8	798.3	789.1	768.3	738.8	693.1	639.1	575.5	503.9	428.7	132.9
15°	968.6	956.2	935.4	916.9	873.1	821.9	763.3	679.3	591.6	491.9	123.2
17.5°	1142.1	1126.0	1102.9	1074.8	1032.3	975.5	901.2	798.8	674.7	543.6	105.7
20°	1290.3	1280.6	1257.5	1224.3	1182.7	1127.4	1041.5	928.0	776.7	599.9	84.0
22.5°	1387.2	1378.4	1362.7	1333.6	1302.3	1243.2	1164.7	1040.2	862.0	651.1	63.7
25°	1395.0	1391.3	1387.2	1377.5	1358.6	1316.6	1240.0	1105.7	915.1	676.1	47.1
27.5°	1390.9	1389.5	1388.6	1383.5	1371.0	1329.5	1251.0	1115.4	908.2	637.3	34.6
30°	1449.9	1445.8	1443.5	1426.9	1394.1	1330.0	1227.5	1063.2	807.1	521.5	24.9
32.5°	1479.9	1479.0	1476.7	1460.6	1414.4	1330.9	1187.8	937.2	640.1	376.6	17.1
35°	1473.9	1469.3	1461.0	1431.0	1366.9	1262.1	1059.5	748.5	461.9	252.4	11.1
37.5°	1453.6	1443.0	1426.9	1372.9	1287.5	1144.4	859.3	551.0	314.3	163.4	6.5
40°	1378.9	1364.6	1339.2	1273.2	1161.1	943.2	635.4	372.4	206.3	94.1	1.8
42.5°	1185.5	1167.1	1148.6	1074.8	946.5	703.3	418.1	230.3	117.7	51.7	0.5
45°	812.6	789.6	764.2	710.7	607.8	425.9	248.7	129.7	60.9	29.1	0.5
47.5°	564.4	553.8	509.5	441.2	338.3	225.7	128.7	63.7	32.3	13.4	0.5
50°	383.5	371.5	319.8	253.8	180.0	108.0	59.1	31.8	14.3	3.2	0.5
52.5°	201.2	186.4	153.7	117.2	72.9	45.2	25.8	13.8	4.2	0.5	0.5
55°	29.5	27.2	22.2	18.0	16.2	12.5	7.4	3.2	0.5	0.5	0.9
57.5°	0.9	0.9	0.9	0.9	1.4	1.4	0.9	0.5	0.5	0.5	0.9
60°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.9
67.5°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.9	1.4
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	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°	64.6	64.6	64.6	64.6	64.6
2.5°	63.7	47.1	36.5	31.4	30.9
5°	57.7	33.7	22.2	17.1	16.2
7.5°	48.9	23.5	12.9	9.2	8.8
10°	40.1	16.2	7.8	6.5	6.0
12.5°	31.8	10.6	5.5	5.1	4.6
15°	24.5	6.9	4.2	3.7	3.7
17.5°	18.5	4.6	3.2	3.2	3.2
20°	13.8	3.2	2.3	2.8	2.8
22.5°	9.7	2.3	1.8	2.3	2.3
25°	6.9	1.8	1.8	2.3	2.3
27.5°	4.6	1.4	1.4	1.8	2.3
30°	2.8	0.9	1.4	1.8	2.3
32.5°	1.4	0.9	1.4	2.3	2.3
35°	0.9	1.4	1.8	2.3	2.8
37.5°	0.5	1.4	1.8	2.8	2.8
40°	0.5	1.4	1.8	2.8	3.2
42.5°	0.9	1.8	2.3	3.2	3.7
45°	0.9	1.8	2.8	3.7	4.2
47.5°	0.9	1.8	3.2	4.2	4.2
50°	1.4	2.3	3.2	4.2	4.6
52.5°	1.4	2.3	3.2	4.6	5.1
55°	1.4	2.3	3.7	4.6	5.1
57.5°	1.4	2.8	3.7	4.6	5.1
60°	1.4	2.3	3.7	4.6	5.1
62.5°	1.8	2.3	3.2	4.6	4.6
65°	1.8	2.3	3.2	4.6	4.6
67.5°	1.8	2.3	3.2	4.2	4.2
70°	1.8	2.3	2.8	3.7	3.7
72.5°	1.8	2.3	2.8	3.2	3.7
75°	1.4	1.8	2.3	2.8	3.2
77.5°	1.4	1.8	1.8	2.8	2.8
80°	1.4	1.4	1.4	1.8	1.8
82.5°	1.4	1.4	0.9	1.4	1.4
85°	1.4	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)