

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: P1336500

Luminaire Tested: P3A05R159840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R159840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

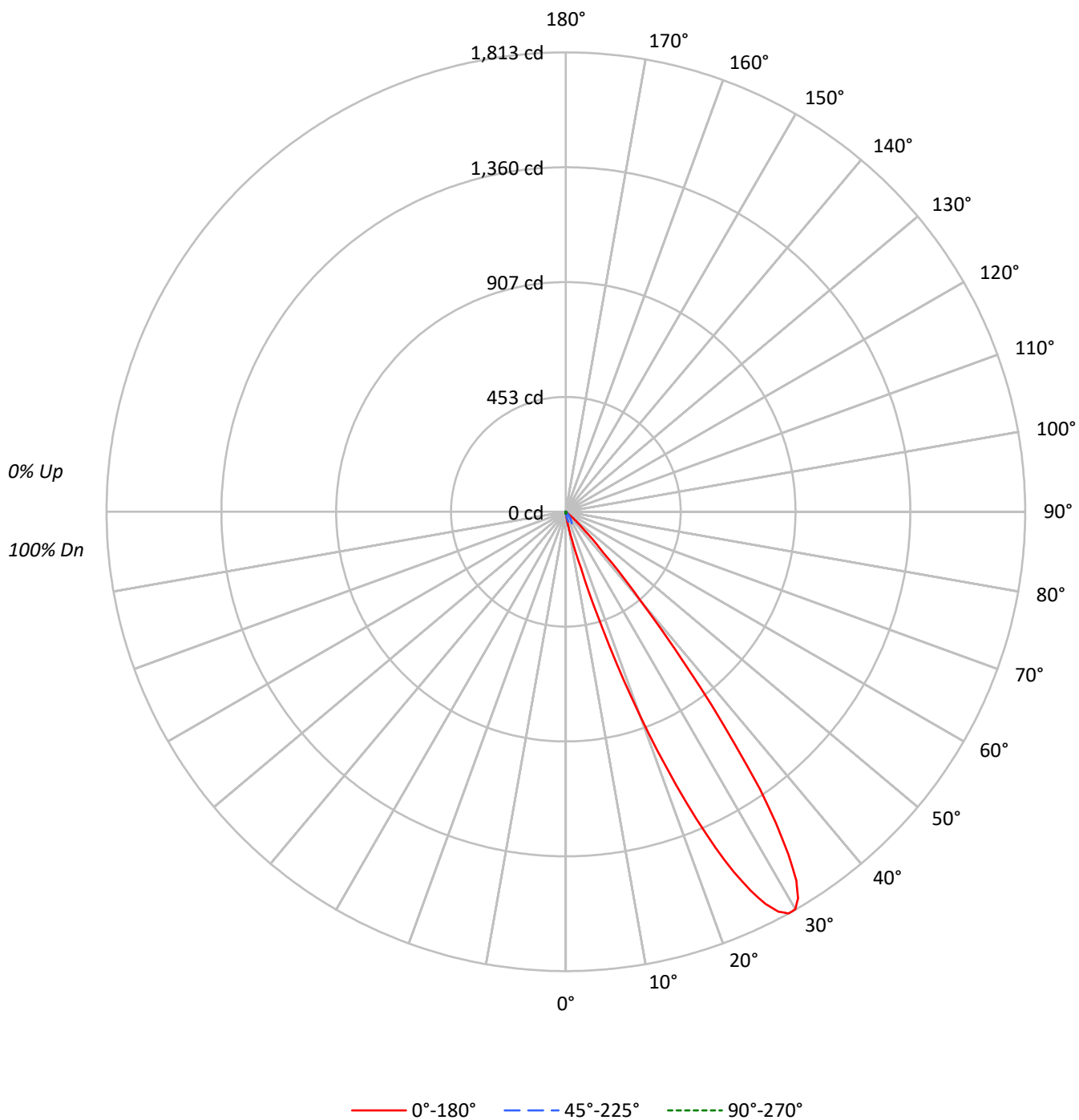
Lumens per Lamp: N/A
Luminaire Lumens: 198.1 lumens
Efficiency: N/A
Efficacy: 27.5 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.5 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	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°	1425	1425	1425	1425	1425
5°	3104	2289	1365	726	594
10°	13716	4342	1069	289	223
15°	51896	10011	749	136	91
20°	199611	14118	443	47	47
25°	379570	13235	242	0	0
30°	458526	10685	101	0	0
35°	357610	7281	54	0	0
40°	130502	3578	57	0	57
45°	33523	1085	62	0	124
50°	5663	136	68	68	205
55°	726	0	153	229	382
60°	88	88	263	351	526
65°	104	104	415	519	623
70°	128	128	513	513	641
75°	169	169	678	508	678
80°	0	253	758	505	758
85°	0	503	1510	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 33523 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.5
10°-20°	15.2	7.7
20°-30°	84.2	42.5
30°-40°	81.3	41.0
40°-50°	14.1	7.1
50°-60°	1.0	0.5
60°-70°	0.6	0.3
70°-80°	0.5	0.3
80°-90°	0.3	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°	100.2	50.6
0°-40°	181.5	91.6
0°-60°	196.7	99.3
0°-90°	198.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	198.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	14	10	6	3	3	3
15°	229	44	3	1	0	102
25°	1569	55	1	0	0	701
35°	1336	27	0	0	0	768
45°	108	4	0	0	0	116
55°	2	0	0	1	1	4
65°	0	0	1	1	1	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
2.5°	9.6	9.2	9.4	9.4	9.4	9.4	9.4	9.1	9.1	9.2	8.3
5°	14.1	14.1	13.9	14.1	14.1	13.9	13.5	13.3	13.3	12.9	10.4
7.5°	28.1	27.7	27.7	27.3	25.4	24.8	24.5	23.5	21.8	21.4	13.5
10°	61.6	61.8	60.5	58.7	58.6	55.7	54.7	53.0	49.7	46.4	19.5
12.5°	111.9	109.4	106.1	106.3	100.7	98.8	94.4	89.6	84.6	79.4	32.0
15°	228.6	221.5	225.7	215.3	203.6	190.3	176.8	159.9	145.4	130.0	44.1
17.5°	481.5	488.4	476.7	432.2	404.9	372.7	327.4	283.7	246.3	216.3	53.9
20°	855.4	865.6	825.7	787.0	720.5	648.1	572.6	487.1	405.2	334.4	60.5
21°	1011.6	1005.4	989.0	927.0	850.3	766.4	673.9	579.5	480.4	388.3	61.1
22°	1162.6	1165.4	1127.3	1062.4	982.7	889.6	776.8	660.2	553.4	432.2	60.1
23°	1313.0	1322.2	1271.8	1210.9	1110.6	1005.6	875.0	749.2	617.1	482.5	58.2
24°	1452.2	1445.9	1411.8	1335.1	1227.9	1105.0	969.4	816.8	669.5	525.4	56.6
25°	1568.8	1568.0	1514.4	1439.9	1317.2	1181.0	1031.6	872.1	714.4	554.5	54.7
26°	1664.1	1648.5	1606.3	1515.4	1394.3	1250.6	1082.6	912.4	739.6	569.1	52.8
27°	1737.7	1726.5	1669.9	1575.3	1448.8	1289.9	1115.4	932.4	751.2	574.0	50.3
28°	1787.2	1775.0	1714.8	1617.3	1478.8	1314.5	1132.7	940.9	751.2	569.3	48.0
29°	1812.8	1796.2	1736.1	1631.7	1485.7	1317.4	1128.5	932.6	739.4	555.1	45.3
30°	1810.9	1790.3	1727.3	1618.6	1465.1	1293.7	1104.8	902.7	712.8	533.9	42.2
31°	1779.7	1756.6	1686.2	1574.3	1422.6	1249.0	1060.1	862.7	676.4	506.4	39.1
32°	1716.3	1687.0	1618.5	1506.9	1357.1	1182.2	995.2	800.8	621.9	466.1	35.8
33°	1613.1	1583.6	1510.0	1405.4	1268.5	1097.5	909.1	734.4	559.9	418.1	33.1
34°	1483.8	1456.9	1393.5	1288.1	1156.8	990.2	810.1	642.5	495.6	370.6	30.2
35°	1335.9	1293.0	1235.6	1152.2	1024.1	856.5	703.2	557.0	429.3	320.7	27.2
36°	1135.8	1143.5	1082.6	980.5	874.4	743.1	595.9	464.4	359.0	273.3	24.5
37°	958.4	946.3	907.6	828.6	736.1	605.7	499.4	393.7	302.0	231.1	21.6
38°	773.1	775.8	737.9	677.2	585.5	498.1	402.0	323.4	252.7	196.6	18.9
39°	605.2	603.0	592.8	536.6	453.6	396.2	325.7	268.1	210.5	165.8	16.0
40°	455.9	459.4	435.5	401.6	353.2	306.0	259.4	213.8	174.1	139.8	12.5
42.5°	221.7	227.1	211.3	202.6	181.2	162.8	137.3	112.1	95.3	82.4	5.6
45°	108.1	105.0	103.6	99.4	94.4	84.4	74.7	64.1	56.0	48.3	3.5
47.5°	55.3	53.7	53.7	52.0	50.3	47.0	42.2	38.7	34.9	30.0	1.3
50°	16.6	16.4	16.2	16.4	15.8	16.4	16.8	16.9	15.4	15.2	0.4
52.5°	6.5	6.7	6.5	7.1	7.1	6.9	7.1	6.9	6.7	6.0	0.0
55°	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.3	2.1	2.3	0.0
57.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	6.5	6.5	6.5	6.5	6.5	6.5
2.5°	7.7	6.7	5.6	4.6	4.2	4.0
5°	8.3	6.2	4.2	3.3	2.9	2.7
7.5°	8.9	5.6	3.3	2.3	1.7	1.5
10°	9.2	4.8	2.5	1.3	1.0	1.0
12.5°	9.2	3.9	1.7	0.8	0.6	0.6
15°	9.1	3.3	1.2	0.6	0.4	0.4
17.5°	8.9	2.5	0.8	0.4	0.2	0.4
20°	8.3	1.9	0.4	0.2	0.2	0.2
21°	8.1	1.7	0.4	0.2	0.2	0.2
22°	7.7	1.5	0.2	0.0	0.2	0.2
23°	7.3	1.2	0.2	0.0	0.0	0.0
24°	6.7	1.0	0.2	0.0	0.0	0.0
25°	6.4	1.0	0.2	0.0	0.0	0.0
26°	6.0	0.6	0.0	0.0	0.0	0.0
27°	5.4	0.4	0.0	0.0	0.0	0.0
28°	5.0	0.4	0.0	0.0	0.0	0.0
29°	4.4	0.4	0.0	0.0	0.0	0.0
30°	3.9	0.4	0.0	0.0	0.0	0.0
31°	3.1	0.2	0.0	0.0	0.0	0.0
32°	2.5	0.2	0.0	0.0	0.0	0.0
33°	1.7	0.2	0.0	0.0	0.0	0.0
34°	1.2	0.2	0.0	0.0	0.0	0.0
35°	1.0	0.2	0.0	0.0	0.0	0.0
36°	0.6	0.2	0.0	0.0	0.0	0.2
37°	0.6	0.2	0.0	0.0	0.0	0.2
38°	0.4	0.2	0.0	0.0	0.0	0.2
39°	0.2	0.2	0.0	0.0	0.0	0.2
40°	0.2	0.2	0.0	0.0	0.0	0.2
42.5°	0.0	0.2	0.0	0.0	0.2	0.4
45°	0.0	0.2	0.0	0.0	0.2	0.4
47.5°	0.0	0.2	0.0	0.0	0.4	0.4
50°	0.0	0.2	0.2	0.2	0.4	0.6
52.5°	0.0	0.4	0.2	0.4	0.6	0.8
55°	0.2	0.4	0.4	0.6	0.8	1.0
57.5°	0.2	0.6	0.6	0.8	1.0	1.0
60°	0.4	0.6	0.8	0.8	1.2	1.2
62.5°	0.4	0.8	0.8	0.8	1.2	1.2
65°	0.4	0.8	0.8	1.0	1.2	1.2
67.5°	0.4	0.8	0.8	0.8	1.0	1.2
70°	0.4	0.8	0.6	0.8	1.0	1.0
72.5°	0.4	0.8	0.6	0.6	0.8	1.0
75°	0.4	0.8	0.6	0.6	0.8	0.8
77.5°	0.4	0.6	0.6	0.4	0.6	0.6
80°	0.4	0.6	0.4	0.4	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.6	0.4	0.2	0.4	0.4
85°	0.4	0.6	0.4	0.2	0.2	0.2
87.5°	0.4	0.6	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)