

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: P1336436

Luminaire Tested: P3A05R159740DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336436
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: P3A05R159740DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

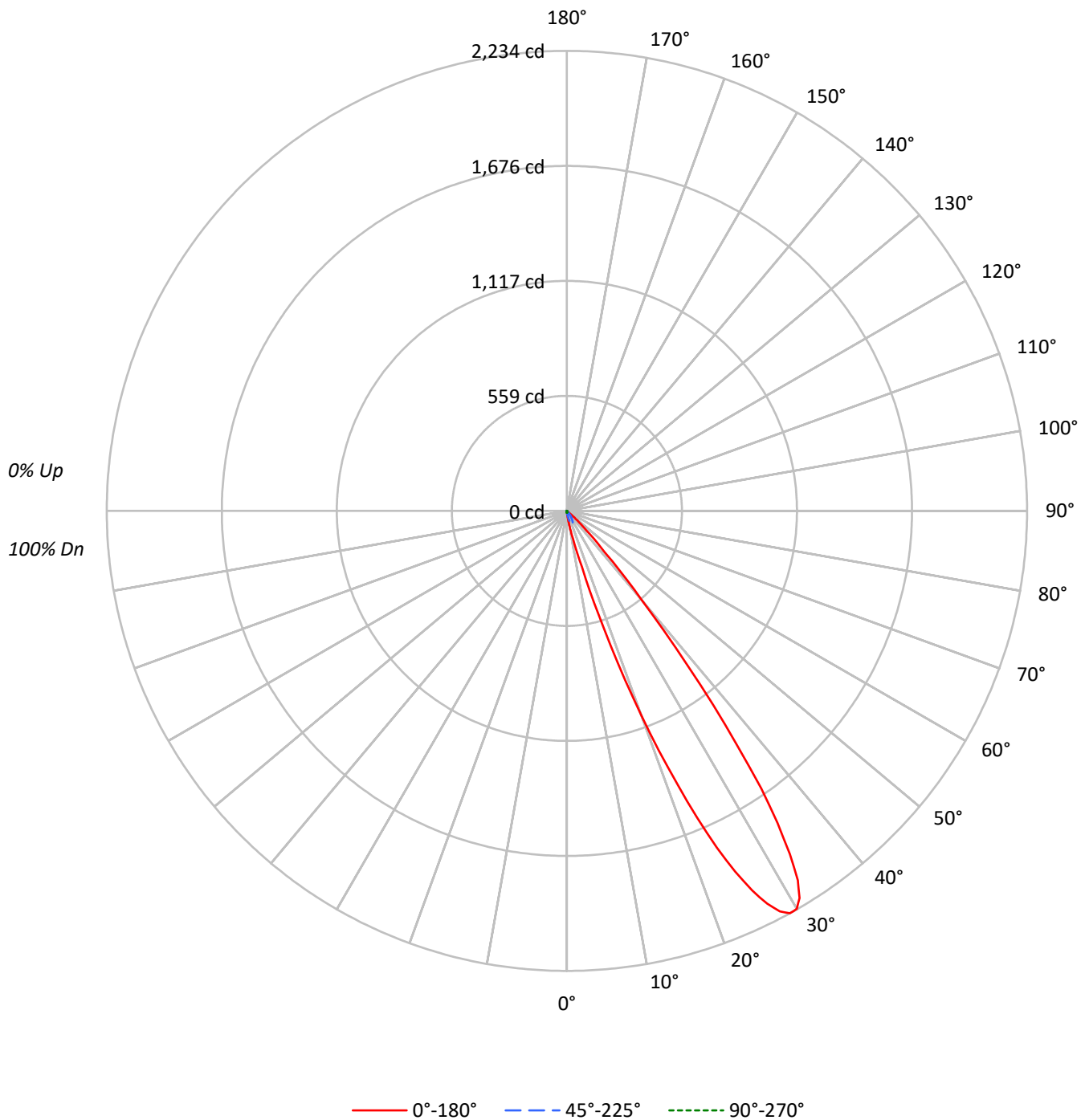
Lumens per Lamp: N/A
Luminaire Lumens: 243.9 lumens
Efficiency: N/A
Efficacy: 33.9 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.48 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	99	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	53	48	70	59	52	48	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°	1776	1776	1776	1776	1776
5°	3808	2818	1673	880	726
10°	16922	5344	1314	379	267
15°	63950	12350	908	159	114
20°	245978	17385	560	47	47
25°	467737	16307	290	0	0
30°	565049	13167	127	0	0
35°	440702	8968	54	0	0
40°	160816	4408	57	0	57
45°	41307	1333	62	0	155
50°	6959	171	68	68	239
55°	918	0	191	268	459
60°	88	88	307	395	614
65°	104	104	467	623	726
70°	128	128	577	577	769
75°	169	169	763	593	763
80°	0	253	884	631	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 41307 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	18.7	7.7
20°-30°	103.7	42.5
30°-40°	100.2	41.1
40°-50°	17.4	7.1
50°-60°	1.2	0.5
60°-70°	0.7	0.3
70°-80°	0.6	0.2
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°	123.5	50.6
0°-40°	223.7	91.7
0°-60°	242.3	99.3
0°-90°	243.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	243.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	17	13	8	4	3	3
15°	282	54	4	1	0	126
25°	1933	67	1	0	0	864
35°	1646	34	0	0	0	947
45°	133	4	0	0	0	143
55°	2	0	0	1	1	5
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°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
2.5°	11.9	11.4	11.6	11.6	11.6	11.6	11.6	11.2	11.2	11.4	10.2
5°	17.3	17.3	17.1	17.3	17.3	17.1	16.6	16.4	16.4	15.9	12.8
7.5°	34.7	34.2	34.2	33.7	31.3	30.6	30.1	29.0	26.8	26.3	16.6
10°	76.0	76.2	74.5	72.4	72.2	68.6	67.4	65.3	61.2	57.2	24.0
12.5°	137.9	134.8	130.8	131.0	124.1	121.8	116.3	110.4	104.2	97.8	39.4
15°	281.7	273.0	278.2	265.4	250.9	234.5	217.9	197.0	179.2	160.2	54.4
17.5°	593.4	601.9	587.4	532.6	498.9	459.3	403.5	349.6	303.6	266.5	66.5
20°	1054.1	1066.7	1017.5	969.8	887.9	798.7	705.6	600.3	499.4	412.0	74.5
21°	1246.6	1239.0	1218.8	1142.4	1047.9	944.4	830.5	714.2	592.0	478.5	75.2
22°	1432.6	1436.2	1389.2	1309.2	1211.0	1096.3	957.2	813.6	681.9	532.6	74.1
23°	1618.0	1629.4	1567.2	1492.2	1368.6	1239.2	1078.3	923.3	760.5	594.6	71.7
24°	1789.6	1781.8	1739.8	1645.3	1513.1	1361.7	1194.6	1006.6	825.0	647.5	69.8
25°	1933.2	1932.3	1866.3	1774.4	1623.2	1455.4	1271.3	1074.7	880.3	683.3	67.4
26°	2050.7	2031.5	1979.5	1867.5	1718.2	1541.1	1334.1	1124.3	911.4	701.4	65.0
27°	2141.4	2127.6	2057.8	1941.3	1785.4	1589.5	1374.5	1149.0	925.7	707.3	61.9
28°	2202.4	2187.4	2113.1	1993.0	1822.4	1619.9	1395.9	1159.5	925.7	701.6	59.1
29°	2233.9	2213.5	2139.5	2010.8	1830.9	1623.5	1390.6	1149.3	911.2	684.0	55.8
30°	2231.6	2206.2	2128.6	1994.7	1805.5	1594.3	1361.4	1112.5	878.4	657.9	52.0
31°	2193.1	2164.6	2078.0	1940.1	1753.1	1539.2	1306.4	1063.1	833.6	624.0	48.2
32°	2115.0	2079.0	1994.5	1857.0	1672.4	1456.9	1226.4	986.9	766.4	574.4	44.1
33°	1987.8	1951.5	1860.8	1731.9	1563.2	1352.4	1120.3	905.0	690.0	515.3	40.8
34°	1828.5	1795.3	1717.2	1587.4	1425.5	1220.2	998.3	791.8	610.7	456.7	37.3
35°	1646.3	1593.3	1522.6	1419.8	1262.0	1055.5	866.6	686.4	529.1	395.2	33.5
36°	1399.7	1409.2	1334.1	1208.4	1077.6	915.7	734.4	572.3	442.4	336.8	30.1
37°	1181.1	1166.1	1118.4	1021.1	907.2	746.5	615.5	485.1	372.2	284.8	26.6
38°	952.7	956.0	909.3	834.5	721.5	613.8	495.4	398.5	311.4	242.3	23.3
39°	745.8	743.1	730.6	661.3	559.0	488.2	401.4	330.4	259.4	204.4	19.7
40°	561.8	566.1	536.6	494.9	435.3	377.2	319.7	263.5	214.6	172.3	15.4
42.5°	273.2	279.8	260.4	249.7	223.3	200.6	169.2	138.1	117.5	101.6	6.9
45°	133.2	129.4	127.7	122.5	116.3	104.0	92.1	79.0	69.1	59.6	4.3
47.5°	68.1	66.2	66.2	64.1	61.9	57.9	52.0	47.7	43.0	37.0	1.7
50°	20.4	20.2	19.9	20.2	19.5	20.2	20.6	20.9	19.0	18.8	0.5
52.5°	8.1	8.3	8.1	8.8	8.8	8.5	8.8	8.5	8.3	7.4	0.0
55°	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.8	2.6	2.8	0.0
57.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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°	8.1	8.1	8.1	8.1	8.1	8.1
2.5°	9.5	8.3	6.9	5.7	5.2	5.0
5°	10.2	7.6	5.2	4.0	3.6	3.3
7.5°	10.9	6.9	4.0	2.8	2.1	1.9
10°	11.4	5.9	3.1	1.7	1.2	1.2
12.5°	11.4	4.7	2.1	0.9	0.7	0.7
15°	11.2	4.0	1.4	0.7	0.5	0.5
17.5°	10.9	3.1	0.9	0.5	0.2	0.5
20°	10.2	2.4	0.5	0.2	0.2	0.2
21°	10.0	2.1	0.5	0.2	0.2	0.2
22°	9.5	1.9	0.2	0.0	0.2	0.2
23°	9.0	1.4	0.2	0.0	0.0	0.0
24°	8.3	1.2	0.2	0.0	0.0	0.0
25°	7.8	1.2	0.2	0.0	0.0	0.0
26°	7.4	0.7	0.0	0.0	0.0	0.0
27°	6.6	0.5	0.0	0.0	0.0	0.0
28°	6.2	0.5	0.0	0.0	0.0	0.0
29°	5.5	0.5	0.0	0.0	0.0	0.0
30°	4.7	0.5	0.0	0.0	0.0	0.0
31°	3.8	0.2	0.0	0.0	0.0	0.0
32°	3.1	0.2	0.0	0.0	0.0	0.0
33°	2.1	0.2	0.0	0.0	0.0	0.0
34°	1.4	0.2	0.0	0.0	0.0	0.0
35°	1.2	0.2	0.0	0.0	0.0	0.0
36°	0.7	0.2	0.0	0.0	0.0	0.2
37°	0.7	0.2	0.0	0.0	0.0	0.2
38°	0.5	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	0.5
45°	0.0	0.2	0.0	0.0	0.2	0.5
47.5°	0.0	0.2	0.0	0.0	0.5	0.5
50°	0.0	0.2	0.2	0.2	0.5	0.7
52.5°	0.0	0.5	0.2	0.5	0.7	0.9
55°	0.2	0.5	0.5	0.7	0.9	1.2
57.5°	0.2	0.7	0.7	0.9	1.2	1.2
60°	0.5	0.7	0.9	0.9	1.4	1.4
62.5°	0.5	0.9	0.9	0.9	1.4	1.4
65°	0.5	0.9	0.9	1.2	1.4	1.4
67.5°	0.5	0.9	0.9	0.9	1.2	1.4
70°	0.5	0.9	0.7	0.9	1.2	1.2
72.5°	0.5	0.9	0.7	0.7	0.9	1.2
75°	0.5	0.9	0.7	0.7	0.9	0.9
77.5°	0.5	0.7	0.7	0.5	0.7	0.7
80°	0.5	0.7	0.5	0.5	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.7	0.5	0.2	0.5	0.5
85°	0.5	0.7	0.5	0.2	0.2	0.2
87.5°	0.5	0.7	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)