

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: P1336388

Luminaire Tested: P3A05R159727DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336388
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: P3A05R159727DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

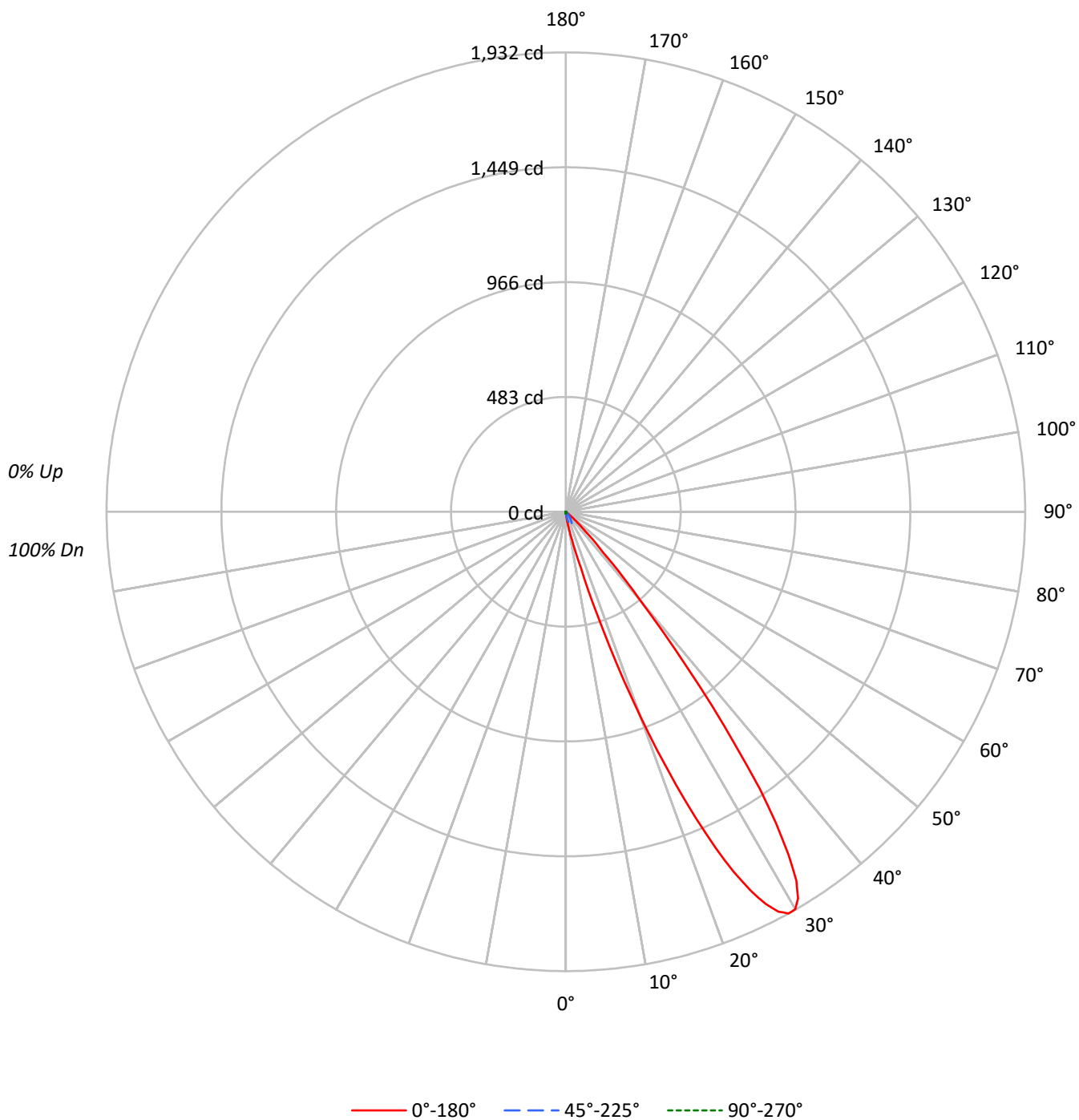
Lumens per Lamp: N/A
Luminaire Lumens: 210.9 lumens
Efficiency: N/A
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			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	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°	1535	1535	1535	1535	1535
5°	3302	2443	1453	770	638
10°	14629	4609	1136	312	223
15°	55301	10670	795	136	91
20°	212702	15028	490	47	47
25°	404491	14106	242	0	0
30°	488632	11369	101	0	0
35°	381087	7736	54	0	0
40°	139061	3807	57	0	57
45°	35694	1147	62	0	124
50°	6038	136	68	68	205
55°	803	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: 35694 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	16.2	7.7
20°-30°	89.7	42.5
30°-40°	86.6	41.1
40°-50°	15.1	7.1
50°-60°	1.1	0.5
60°-70°	0.6	0.3
70°-80°	0.5	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°	106.8	50.6
0°-40°	193.4	91.7
0°-60°	209.6	99.3
0°-90°	210.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	210.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	15	11	7	4	3	3
15°	244	47	4	1	0	109
25°	1672	58	1	0	0	747
35°	1424	29	0	0	0	819
45°	115	4	0	0	0	124
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°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
2.5°	10.3	9.9	10.1	10.1	10.1	10.1	10.1	9.6	9.6	9.9	8.8
5°	15.0	15.0	14.8	15.0	15.0	14.8	14.4	14.2	14.2	13.8	11.1
7.5°	30.0	29.6	29.6	29.1	27.1	26.5	26.1	25.0	23.2	22.8	14.4
10°	65.7	65.9	64.4	62.6	62.4	59.3	58.3	56.4	53.0	49.5	20.7
12.5°	119.3	116.6	113.1	113.3	107.3	105.3	100.6	95.4	90.1	84.6	34.1
15°	243.6	236.0	240.6	229.5	216.9	202.8	188.4	170.4	155.0	138.5	47.0
17.5°	513.1	520.5	508.0	460.6	431.4	397.2	348.9	302.3	262.5	230.5	57.5
20°	911.5	922.4	879.9	838.7	767.8	690.7	610.2	519.1	431.8	356.3	64.4
21°	1078.0	1071.4	1054.0	987.9	906.2	816.7	718.2	617.6	511.9	413.8	65.1
22°	1238.9	1242.0	1201.3	1132.2	1047.2	948.0	827.8	703.6	589.7	460.6	64.0
23°	1399.2	1409.0	1355.3	1290.4	1183.5	1071.6	932.5	798.4	657.6	514.2	62.0
24°	1547.6	1540.8	1504.5	1422.8	1308.5	1177.5	1033.0	870.5	713.4	559.9	60.3
25°	1671.8	1670.9	1613.9	1534.4	1403.7	1258.6	1099.3	929.4	761.3	590.9	58.3
26°	1773.4	1756.7	1711.8	1614.9	1485.8	1332.7	1153.7	972.3	788.2	606.5	56.2
27°	1851.8	1839.9	1779.5	1678.7	1543.9	1374.6	1188.6	993.6	800.5	611.6	53.6
28°	1904.5	1891.6	1827.3	1723.5	1575.9	1400.8	1207.1	1002.6	800.5	606.7	51.1
29°	1931.8	1914.2	1850.1	1738.9	1583.3	1403.9	1202.6	993.8	788.0	591.5	48.2
30°	1929.8	1907.8	1840.7	1724.9	1561.3	1378.7	1177.3	962.0	759.6	569.0	44.9
31°	1896.5	1871.9	1797.0	1677.7	1516.0	1331.0	1129.7	919.3	720.8	539.6	41.7
32°	1829.0	1797.8	1724.7	1605.9	1446.2	1259.8	1060.5	853.4	662.8	496.7	38.2
33°	1719.0	1687.6	1609.2	1497.7	1351.8	1169.5	968.8	782.6	596.7	445.6	35.3
34°	1581.2	1552.5	1485.0	1372.7	1232.7	1055.2	863.3	684.7	528.1	394.9	32.2
35°	1423.6	1377.8	1316.7	1227.8	1091.3	912.7	749.4	593.6	457.5	341.7	28.9
36°	1210.4	1218.6	1153.7	1044.9	931.8	791.9	635.0	494.9	382.6	291.2	26.1
37°	1021.3	1008.4	967.1	883.0	784.5	645.5	532.2	419.5	321.8	246.3	23.0
38°	823.9	826.7	786.3	721.7	624.0	530.8	428.4	344.6	269.3	209.6	20.1
39°	644.9	642.6	631.8	571.8	483.4	422.2	347.1	285.7	224.3	176.7	17.0
40°	485.8	489.5	464.1	427.9	376.4	326.1	276.5	227.8	185.5	149.0	13.3
42.5°	236.2	242.0	225.2	215.9	193.1	173.4	146.3	119.5	101.6	87.8	6.0
45°	115.1	111.9	110.4	105.9	100.6	89.9	79.6	68.3	59.7	51.5	3.7
47.5°	58.9	57.3	57.3	55.4	53.6	50.1	44.9	41.3	37.2	32.0	1.4
50°	17.7	17.4	17.2	17.4	16.8	17.4	17.9	18.1	16.4	16.2	0.4
52.5°	7.0	7.2	7.0	7.6	7.6	7.4	7.6	7.4	7.2	6.4	0.0
55°	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.5	2.3	2.5	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°	7.0	7.0	7.0	7.0	7.0	7.0
2.5°	8.2	7.2	6.0	4.9	4.5	4.3
5°	8.8	6.6	4.5	3.5	3.1	2.9
7.5°	9.4	6.0	3.5	2.5	1.8	1.6
10°	9.9	5.1	2.7	1.4	1.0	1.0
12.5°	9.9	4.1	1.8	0.8	0.6	0.6
15°	9.6	3.5	1.2	0.6	0.4	0.4
17.5°	9.4	2.7	0.8	0.4	0.2	0.4
20°	8.8	2.1	0.4	0.2	0.2	0.2
21°	8.6	1.8	0.4	0.2	0.2	0.2
22°	8.2	1.6	0.2	0.0	0.2	0.2
23°	7.8	1.2	0.2	0.0	0.0	0.0
24°	7.2	1.0	0.2	0.0	0.0	0.0
25°	6.8	1.0	0.2	0.0	0.0	0.0
26°	6.4	0.6	0.0	0.0	0.0	0.0
27°	5.7	0.4	0.0	0.0	0.0	0.0
28°	5.3	0.4	0.0	0.0	0.0	0.0
29°	4.7	0.4	0.0	0.0	0.0	0.0
30°	4.1	0.4	0.0	0.0	0.0	0.0
31°	3.3	0.2	0.0	0.0	0.0	0.0
32°	2.7	0.2	0.0	0.0	0.0	0.0
33°	1.8	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)