

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: P1336331

Luminaire Tested: P3A05R159030DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336331
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: P3A05R159030DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

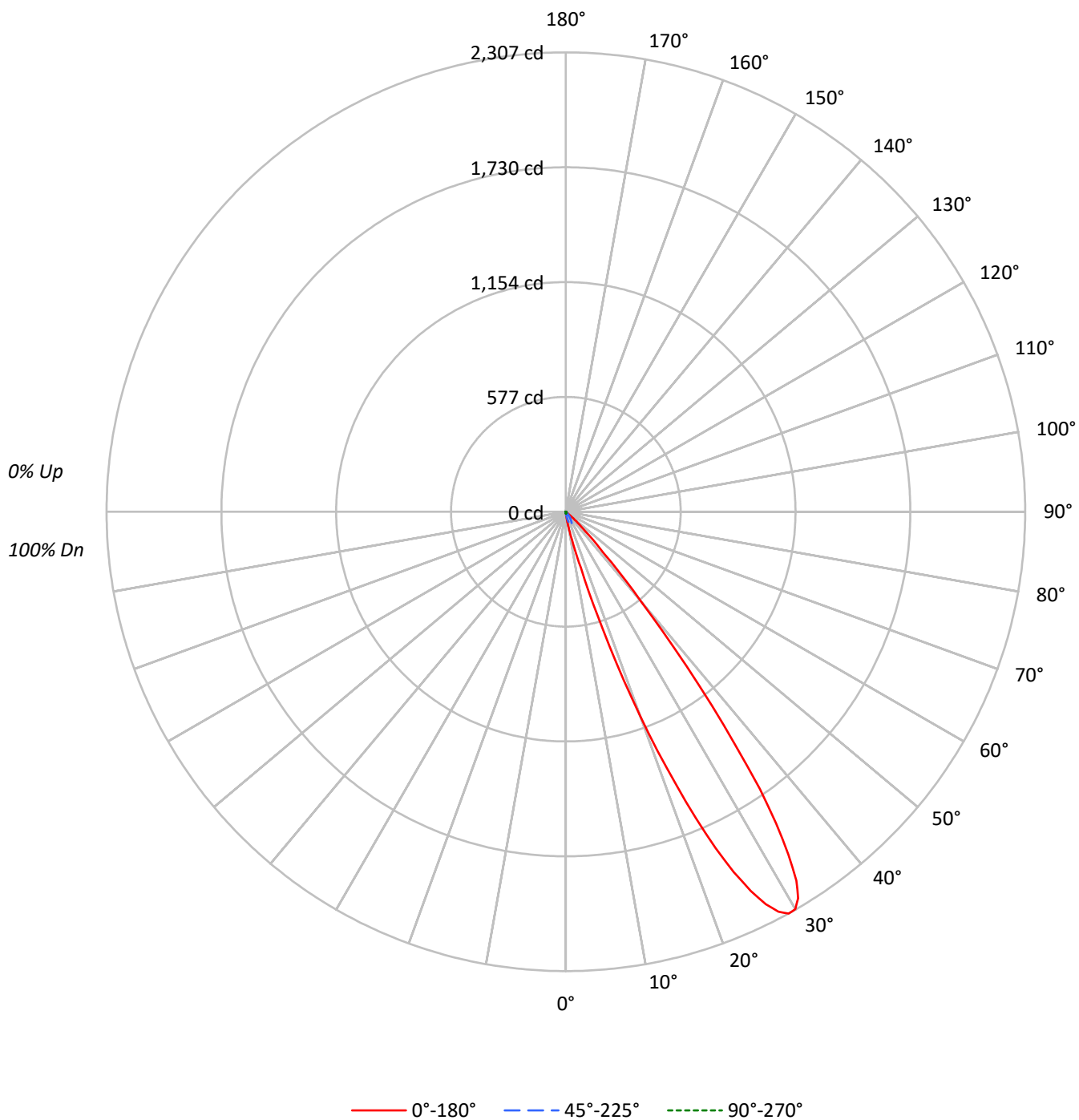
Lumens per Lamp: N/A
Luminaire Lumens: 251.9 lumens
Efficiency: N/A
Efficacy: 35.0 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	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°	1820	1820	1820	1820	1820
5°	3940	2906	1717	924	748
10°	17457	5522	1358	379	267
15°	66062	12736	953	159	114
20°	254029	17968	583	47	47
25°	483076	16840	290	0	0
30°	583558	13597	127	0	0
35°	455130	9262	54	0	0
40°	166083	4551	57	0	57
45°	42640	1364	62	0	155
50°	7198	171	68	68	239
55°	956	0	191	268	459
60°	88	88	307	439	658
65°	104	104	519	623	778
70°	128	128	641	641	769
75°	169	169	847	593	847
80°	0	253	884	631	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 42640 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	19.3	7.7
20°-30°	107.1	42.5
30°-40°	103.5	41.1
40°-50°	18.0	7.1
50°-60°	1.3	0.5
60°-70°	0.8	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°	127.6	50.6
0°-40°	231.0	91.7
0°-60°	250.3	99.3
0°-90°	251.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	251.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	18	13	8	4	3	4
15°	291	56	4	1	0	130
25°	1997	70	1	0	0	893
35°	1700	35	0	0	0	978
45°	138	4	0	0	0	148
55°	2	0	0	1	1	5
65°	0	0	1	1	2	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°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
2.5°	12.3	11.8	12.0	12.0	12.0	12.0	12.0	11.5	11.5	11.8	10.5
5°	17.9	17.9	17.6	17.9	17.9	17.6	17.2	16.9	16.9	16.4	13.2
7.5°	35.8	35.3	35.3	34.8	32.4	31.6	31.1	29.9	27.7	27.2	17.2
10°	78.4	78.7	77.0	74.8	74.5	70.8	69.6	67.4	63.2	59.1	24.8
12.5°	142.4	139.2	135.1	135.3	128.2	125.8	120.1	114.0	107.6	101.0	40.7
15°	291.0	281.9	287.3	274.1	259.1	242.2	225.0	203.5	185.1	165.5	56.1
17.5°	612.8	621.7	606.7	550.1	515.3	474.3	416.7	361.1	313.5	275.3	68.6
20°	1088.6	1101.6	1050.9	1001.6	917.0	824.9	728.8	619.9	515.8	425.6	77.0
21°	1287.4	1279.6	1258.8	1179.8	1082.3	975.4	857.7	737.6	611.4	494.2	77.7
22°	1479.6	1483.3	1434.8	1352.2	1250.7	1132.3	988.6	840.3	704.3	550.1	76.5
23°	1671.1	1682.8	1618.6	1541.1	1413.4	1279.8	1113.6	953.6	785.4	614.1	74.0
24°	1848.3	1840.2	1796.8	1699.3	1562.7	1406.3	1233.8	1039.6	852.1	668.7	72.1
25°	1996.6	1995.6	1927.5	1832.6	1676.5	1503.2	1312.9	1110.0	909.2	705.7	69.6
26°	2117.9	2098.1	2044.4	1928.7	1774.5	1591.6	1377.9	1161.2	941.3	724.4	67.2
27°	2211.6	2197.4	2125.3	2004.9	1843.9	1641.7	1419.6	1186.7	956.0	730.5	64.0
28°	2274.6	2259.1	2182.4	2058.4	1882.1	1673.0	1441.6	1197.5	956.0	724.6	61.0
29°	2307.2	2286.1	2209.6	2076.8	1891.0	1676.7	1436.2	1186.9	941.1	706.5	57.6
30°	2304.7	2278.5	2198.3	2060.1	1864.7	1646.6	1406.1	1148.9	907.2	679.5	53.7
31°	2265.0	2235.6	2146.1	2003.7	1810.5	1589.7	1349.2	1097.9	860.9	644.5	49.8
32°	2184.4	2147.1	2059.8	1917.9	1727.2	1504.6	1266.6	1019.3	791.5	593.2	45.6
33°	2053.0	2015.5	1921.8	1788.7	1614.4	1396.8	1157.0	934.7	712.6	532.2	42.2
34°	1888.5	1854.2	1773.5	1639.4	1472.3	1260.2	1031.0	817.8	630.7	471.6	38.5
35°	1700.2	1645.6	1572.5	1466.4	1303.4	1090.1	895.0	708.9	546.4	408.1	34.6
36°	1445.5	1455.4	1377.9	1248.0	1112.9	945.7	758.4	591.0	456.9	347.8	31.1
37°	1219.8	1204.3	1155.1	1054.6	936.9	770.9	635.6	501.1	384.4	294.2	27.5
38°	984.0	987.4	939.1	861.9	745.2	633.9	511.6	411.6	321.6	250.3	24.0
39°	770.2	767.5	754.5	682.9	577.3	504.2	414.5	341.2	267.9	211.1	20.3
40°	580.2	584.6	554.2	511.1	449.6	389.5	330.2	272.1	221.6	178.0	15.9
42.5°	282.1	289.0	268.9	257.9	230.7	207.1	174.8	142.7	121.3	104.9	7.1
45°	137.5	133.6	131.9	126.5	120.1	107.4	95.1	81.6	71.3	61.5	4.4
47.5°	70.4	68.4	68.4	66.2	64.0	59.8	53.7	49.3	44.4	38.2	1.7
50°	21.1	20.8	20.6	20.8	20.1	20.8	21.3	21.6	19.6	19.4	0.5
52.5°	8.3	8.6	8.3	9.1	9.1	8.8	9.1	8.8	8.6	7.6	0.0
55°	2.5	2.5	2.5	2.5	2.5	2.5	2.7	2.9	2.7	2.9	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°	8.3	8.3	8.3	8.3	8.3	8.3
2.5°	9.8	8.6	7.1	5.9	5.4	5.1
5°	10.5	7.8	5.4	4.2	3.7	3.4
7.5°	11.3	7.1	4.2	2.9	2.2	2.0
10°	11.8	6.1	3.2	1.7	1.2	1.2
12.5°	11.8	4.9	2.2	1.0	0.7	0.7
15°	11.5	4.2	1.5	0.7	0.5	0.5
17.5°	11.3	3.2	1.0	0.5	0.2	0.5
20°	10.5	2.5	0.5	0.2	0.2	0.2
21°	10.3	2.2	0.5	0.2	0.2	0.2
22°	9.8	2.0	0.2	0.0	0.2	0.2
23°	9.3	1.5	0.2	0.0	0.0	0.0
24°	8.6	1.2	0.2	0.0	0.0	0.0
25°	8.1	1.2	0.2	0.0	0.0	0.0
26°	7.6	0.7	0.0	0.0	0.0	0.0
27°	6.9	0.5	0.0	0.0	0.0	0.0
28°	6.4	0.5	0.0	0.0	0.0	0.0
29°	5.6	0.5	0.0	0.0	0.0	0.0
30°	4.9	0.5	0.0	0.0	0.0	0.0
31°	3.9	0.2	0.0	0.0	0.0	0.0
32°	3.2	0.2	0.0	0.0	0.0	0.0
33°	2.2	0.2	0.0	0.0	0.0	0.0
34°	1.5	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	1.0
55°	0.2	0.5	0.5	0.7	1.0	1.2
57.5°	0.2	0.7	0.7	1.0	1.2	1.2
60°	0.5	0.7	1.0	1.0	1.5	1.5
62.5°	0.5	1.0	1.0	1.0	1.5	1.5
65°	0.5	1.0	1.0	1.2	1.5	1.5
67.5°	0.5	1.0	1.0	1.0	1.2	1.5
70°	0.5	1.0	0.7	1.0	1.2	1.2
72.5°	0.5	1.0	0.7	0.7	1.0	1.2
75°	0.5	1.0	0.7	0.7	1.0	1.0
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)