

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: P1343423

Luminaire Tested: P3A13R159030DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343423
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: P3A13R159030DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

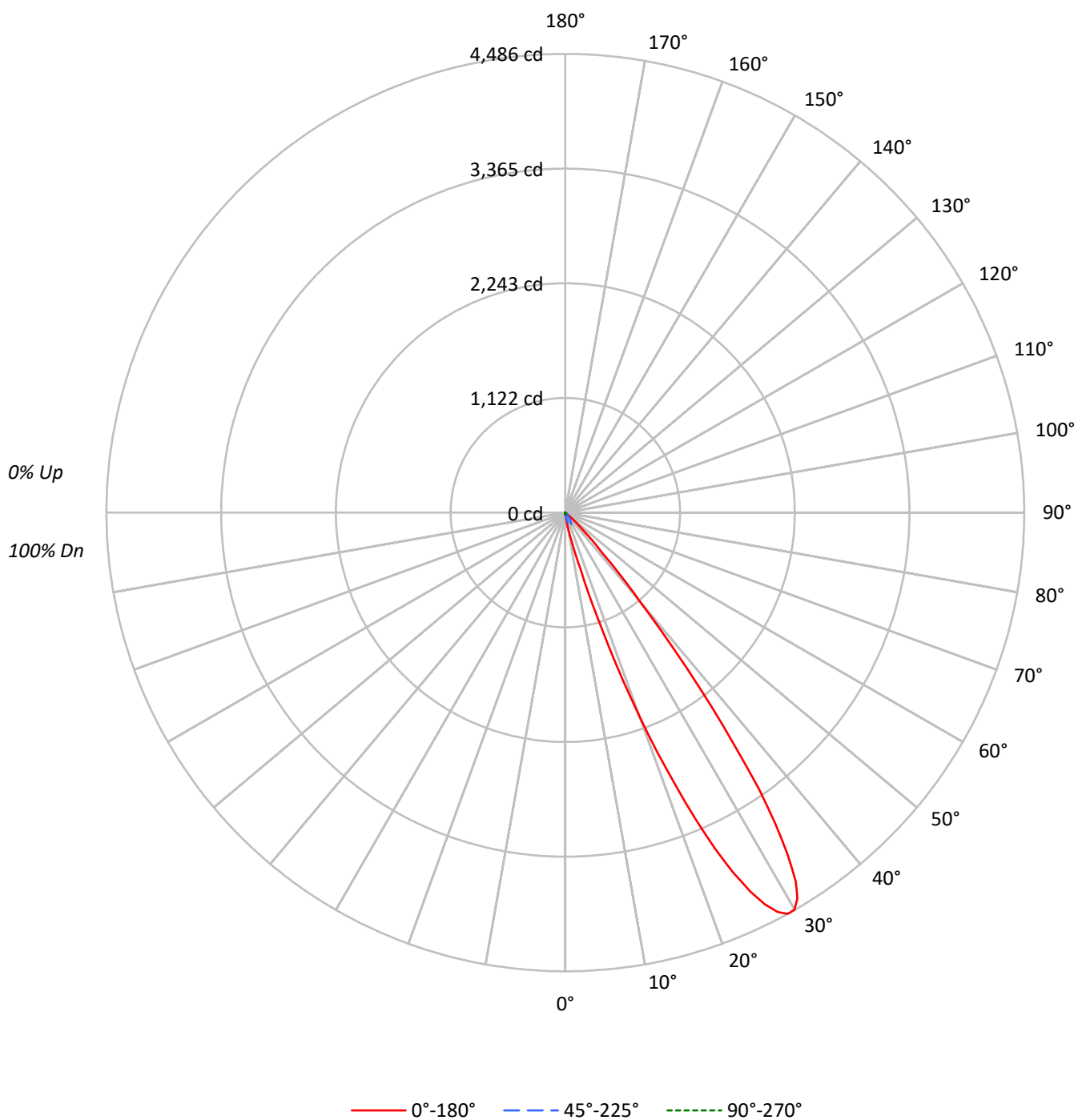
Lumens per Lamp: N/A
Luminaire Lumens: 490.1 lumens
Efficiency: N/A
Efficacy: 33.6 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1343423

CATALOG NUMBER: P3A13R159030DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1343423

CATALOG NUMBER: P3A13R159030DE010 E3A301WMH

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52
8	71	60	53	48	70	59	52	47	58	52	47	57	51	47	56	51	47
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3552	3552	3552	3552	3552
5°	7660	5657	3368	1783	1475
10°	33956	10710	2650	735	534
15°	128446	24790	1839	318	227
20°	493963	34933	1120	117	117
25°	939320	32760	581	0	0
30°	1134706	26434	253	0	0
35°	884991	17989	134	0	0
40°	322948	8874	143	0	143
45°	82923	2667	155	0	310
50°	13987	341	171	171	478
55°	1835	0	382	535	918
60°	219	219	614	833	1272
65°	259	259	986	1245	1505
70°	321	321	1218	1218	1539
75°	424	424	1610	1186	1610
80°	0	631	1768	1263	1768
85°	0	1258	3522	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 82923 cd/sqm

TEST NUMBER: P1343423

CATALOG NUMBER: P3A13R159030DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.5
10°-20°	37.5	7.7
20°-30°	208.3	42.5
30°-40°	201.2	41.1
40°-50°	35.0	7.1
50°-60°	2.5	0.5
60°-70°	1.5	0.3
70°-80°	1.2	0.2
80°-90°	0.6	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°	248.0	50.6
0°-40°	449.2	91.7
0°-60°	486.7	99.3
0°-90°	490.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	490.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	35	26	15	8	7	7
15°	566	109	8	1	1	252
25°	3882	135	2	0	0	1736
35°	3306	67	0	0	0	1901
45°	267	9	0	0	1	287
55°	5	0	1	1	2	9
65°	0	0	2	2	3	0
75°	0	0	2	1	2	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1343423

CATALOG NUMBER: P3A13R159030DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
2.5°	23.8	22.9	23.4	23.4	23.4	23.4	23.4	22.4	22.4	22.9	20.5
5°	34.8	34.8	34.3	34.8	34.8	34.3	33.4	32.9	32.9	31.9	25.7
7.5°	69.6	68.6	68.6	67.7	62.9	61.5	60.5	58.2	53.9	52.9	33.4
10°	152.5	153.0	149.7	145.4	144.9	137.8	135.4	131.1	123.0	114.9	48.1
12.5°	276.9	270.7	262.6	263.1	249.3	244.5	233.6	221.6	209.2	196.4	79.1
15°	565.8	548.1	558.6	532.9	503.8	470.9	437.6	395.6	359.9	321.7	109.2
17.5°	1191.6	1208.8	1179.7	1069.6	1001.9	922.3	810.3	702.1	609.6	535.3	133.5
20°	2116.8	2142.1	2043.4	1947.6	1783.1	1603.9	1417.1	1205.4	1002.9	827.5	149.7
21°	2503.3	2488.1	2447.6	2294.1	2104.4	1896.6	1667.8	1434.2	1188.8	960.9	151.1
22°	2877.0	2884.2	2789.8	2629.2	2431.9	2201.6	1922.3	1633.9	1369.4	1069.6	148.7
23°	3249.3	3272.2	3147.3	2996.7	2748.3	2488.6	2165.4	1854.2	1527.2	1194.0	143.9
24°	3593.9	3578.2	3493.8	3304.1	3038.6	2734.5	2399.0	2021.5	1656.8	1300.3	140.1
25°	3882.3	3880.4	3747.9	3563.4	3259.8	2922.8	2552.9	2158.3	1767.9	1372.3	135.4
26°	4118.2	4079.6	3975.2	3750.3	3450.4	3094.9	2679.2	2257.9	1830.3	1408.5	130.6
27°	4300.3	4272.7	4132.5	3898.5	3585.3	3192.1	2760.3	2307.4	1858.9	1420.4	124.4
28°	4422.8	4392.8	4243.6	4002.4	3659.7	3253.1	2803.2	2328.4	1858.9	1409.0	118.7
29°	4486.2	4445.2	4296.5	4038.2	3676.9	3260.3	2792.7	2307.9	1829.8	1373.7	112.0
30°	4481.4	4430.4	4274.6	4005.7	3625.9	3201.6	2734.0	2234.0	1764.1	1321.3	104.4
31°	4404.2	4347.0	4173.0	3896.1	3520.5	3091.1	2623.5	2134.9	1674.0	1253.1	96.8
32°	4247.4	4174.9	4005.3	3729.3	3358.5	2925.7	2462.8	1981.9	1539.1	1153.5	88.7
33°	3991.9	3919.0	3736.9	3478.1	3139.2	2715.9	2249.8	1817.5	1385.6	1034.8	82.0
34°	3672.1	3605.4	3448.5	3187.8	2862.7	2450.4	2004.8	1590.1	1226.4	917.1	74.8
35°	3306.0	3199.7	3057.7	2851.3	2534.3	2119.6	1740.2	1378.5	1062.4	793.6	67.2
36°	2810.8	2829.9	2679.2	2426.6	2164.0	1838.9	1474.7	1149.2	888.5	676.4	60.5
37°	2371.8	2341.8	2246.0	2050.5	1821.7	1499.1	1235.9	974.3	747.4	572.0	53.4
38°	1913.3	1919.9	1826.0	1675.9	1449.0	1232.6	994.8	800.3	625.4	486.7	46.7
39°	1497.6	1492.4	1467.1	1327.9	1122.5	980.5	806.0	663.5	521.0	410.4	39.6
40°	1128.2	1136.8	1077.7	993.8	874.2	757.4	642.0	529.1	430.9	346.0	31.0
42.5°	548.6	562.0	522.9	501.4	448.5	402.8	339.8	277.4	235.9	204.0	13.8
45°	267.4	259.8	256.4	245.9	233.6	208.8	184.9	158.7	138.7	119.6	8.6
47.5°	136.8	133.0	133.0	128.7	124.4	116.3	104.4	95.8	86.3	74.4	3.3
50°	41.0	40.5	40.0	40.5	39.1	40.5	41.5	41.9	38.1	37.7	1.0
52.5°	16.2	16.7	16.2	17.6	17.6	17.2	17.6	17.2	16.7	14.8	0.0
55°	4.8	4.8	4.8	4.8	4.8	4.8	5.2	5.7	5.2	5.7	0.0
57.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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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	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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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CATALOG NUMBER: P3A13R159030DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	16.2	16.2	16.2	16.2	16.2	16.2
2.5°	19.1	16.7	13.8	11.4	10.5	10.0
5°	20.5	15.3	10.5	8.1	7.1	6.7
7.5°	21.9	13.8	8.1	5.7	4.3	3.8
10°	22.9	11.9	6.2	3.3	2.4	2.4
12.5°	22.9	9.5	4.3	1.9	1.4	1.4
15°	22.4	8.1	2.9	1.4	1.0	1.0
17.5°	21.9	6.2	1.9	1.0	0.5	1.0
20°	20.5	4.8	1.0	0.5	0.5	0.5
21°	20.0	4.3	1.0	0.5	0.5	0.5
22°	19.1	3.8	0.5	0.0	0.5	0.5
23°	18.1	2.9	0.5	0.0	0.0	0.0
24°	16.7	2.4	0.5	0.0	0.0	0.0
25°	15.7	2.4	0.5	0.0	0.0	0.0
26°	14.8	1.4	0.0	0.0	0.0	0.0
27°	13.3	1.0	0.0	0.0	0.0	0.0
28°	12.4	1.0	0.0	0.0	0.0	0.0
29°	11.0	1.0	0.0	0.0	0.0	0.0
30°	9.5	1.0	0.0	0.0	0.0	0.0
31°	7.6	0.5	0.0	0.0	0.0	0.0
32°	6.2	0.5	0.0	0.0	0.0	0.0
33°	4.3	0.5	0.0	0.0	0.0	0.0
34°	2.9	0.5	0.0	0.0	0.0	0.0
35°	2.4	0.5	0.0	0.0	0.0	0.0
36°	1.4	0.5	0.0	0.0	0.0	0.5
37°	1.4	0.5	0.0	0.0	0.0	0.5
38°	1.0	0.5	0.0	0.0	0.0	0.5
39°	0.5	0.5	0.0	0.0	0.0	0.5
40°	0.5	0.5	0.0	0.0	0.0	0.5
42.5°	0.0	0.5	0.0	0.0	0.5	1.0
45°	0.0	0.5	0.0	0.0	0.5	1.0
47.5°	0.0	0.5	0.0	0.0	1.0	1.0
50°	0.0	0.5	0.5	0.5	1.0	1.4
52.5°	0.0	1.0	0.5	1.0	1.4	1.9
55°	0.5	1.0	1.0	1.4	1.9	2.4
57.5°	0.5	1.4	1.4	1.9	2.4	2.4
60°	1.0	1.4	1.9	1.9	2.9	2.9
62.5°	1.0	1.9	1.9	1.9	2.9	2.9
65°	1.0	1.9	1.9	2.4	2.9	2.9
67.5°	1.0	1.9	1.9	1.9	2.4	2.9
70°	1.0	1.9	1.4	1.9	2.4	2.4
72.5°	1.0	1.9	1.4	1.4	1.9	2.4
75°	1.0	1.9	1.4	1.4	1.9	1.9
77.5°	1.0	1.4	1.4	1.0	1.4	1.4
80°	1.0	1.4	1.0	1.0	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.0	1.4	1.0	0.5	1.0	1.0
85°	1.0	1.4	1.0	0.5	0.5	0.5
87.5°	1.0	1.4	0.5	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)