

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: P1343528

Luminaire Tested: P3A13R159740DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343528
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: P3A13R159740DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

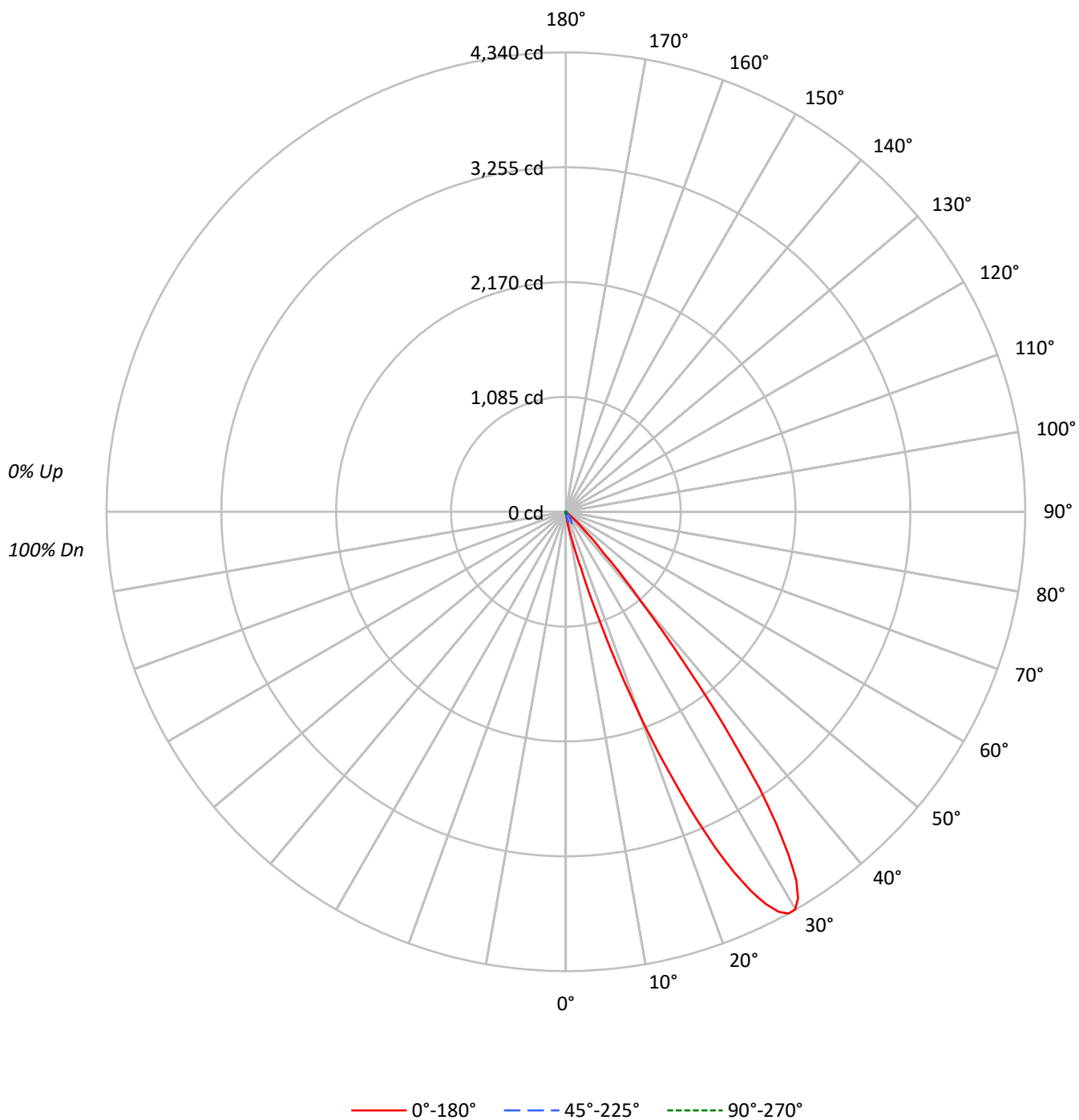
Lumens per Lamp: N/A
Luminaire Lumens: 474.0 lumens
Efficiency: N/A
Efficacy: 32.5 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1343528

CATALOG NUMBER: P3A13R159740DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1343528

CATALOG NUMBER: P3A13R159740DE010 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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3443	3443	3443	3443	3443
5°	7418	5481	3258	1717	1431
10°	32843	10376	2561	713	512
15°	124246	23973	1771	318	204
20°	477838	33790	1073	117	117
25°	908641	31671	556	0	0
30°	1097663	25574	228	0	0
35°	856107	17400	134	0	0
40°	312414	8588	143	0	143
45°	80225	2574	155	0	279
50°	13543	307	171	171	478
55°	1759	0	344	535	879
60°	219	219	614	789	1228
65°	259	259	934	1193	1453
70°	321	321	1154	1154	1475
75°	424	424	1525	1186	1525
80°	0	631	1768	1137	1768
85°	0	1258	3522	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 80225 cd/sqm

TEST NUMBER: P1343528

CATALOG NUMBER: P3A13R159740DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.5
10°-20°	36.3	7.7
20°-30°	201.5	42.5
30°-40°	194.6	41.1
40°-50°	33.9	7.1
50°-60°	2.4	0.5
60°-70°	1.4	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°	239.9	50.6
0°-40°	434.5	91.7
0°-60°	470.8	99.3
0°-90°	474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	474.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	34	25	15	8	6	7
15°	547	106	8	1	1	244
25°	3756	131	2	0	0	1679
35°	3198	65	0	0	0	1839
45°	259	8	0	0	1	278
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: P1343528

CATALOG NUMBER: P3A13R159740DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
2.5°	23.1	22.1	22.6	22.6	22.6	22.6	22.6	21.7	21.7	22.1	19.8
5°	33.7	33.7	33.2	33.7	33.7	33.2	32.3	31.8	31.8	30.9	24.9
7.5°	67.3	66.4	66.4	65.5	60.9	59.5	58.6	56.3	52.1	51.2	32.3
10°	147.5	148.0	144.8	140.6	140.2	133.3	130.9	126.8	119.0	111.1	46.6
12.5°	267.9	261.9	254.1	254.5	241.1	236.5	225.9	214.4	202.4	190.0	76.5
15°	547.3	530.2	540.4	515.5	487.4	455.5	423.3	382.7	348.1	311.2	105.6
17.5°	1152.7	1169.3	1141.2	1034.7	969.2	892.2	783.8	679.2	589.7	517.8	129.1
20°	2047.7	2072.1	1976.7	1884.0	1724.9	1551.5	1370.8	1166.1	970.1	800.4	144.8
21°	2421.6	2406.9	2367.7	2219.2	2035.7	1834.6	1613.3	1387.4	1149.9	929.5	146.2
22°	2783.1	2790.0	2698.7	2543.3	2352.4	2129.7	1859.5	1580.6	1324.7	1034.7	143.9
23°	3143.2	3165.3	3044.5	2898.8	2658.6	2407.3	2094.7	1793.6	1477.3	1155.0	139.2
24°	3476.6	3461.3	3379.7	3196.2	2939.4	2645.2	2320.6	1955.5	1602.7	1257.8	135.6
25°	3755.5	3753.7	3625.5	3447.1	3153.3	2827.4	2469.6	2087.8	1710.2	1327.5	130.9
26°	3983.8	3946.4	3845.4	3627.8	3337.8	2993.8	2591.7	2184.1	1770.6	1362.5	126.3
27°	4159.9	4133.1	3997.6	3771.2	3468.3	3087.9	2670.1	2232.1	1798.2	1374.0	120.3
28°	4278.4	4249.3	4105.0	3871.7	3540.2	3146.9	2711.6	2252.4	1798.2	1363.0	114.8
29°	4339.7	4300.1	4156.2	3906.3	3556.8	3153.8	2701.5	2232.6	1770.1	1328.8	108.4
30°	4335.1	4285.8	4135.0	3874.9	3507.5	3097.1	2644.8	2161.1	1706.5	1278.1	101.0
31°	4260.4	4205.1	4036.8	3768.9	3405.6	2990.1	2537.8	2065.2	1619.3	1212.2	93.6
32°	4108.7	4038.6	3874.5	3607.5	3248.8	2830.1	2382.4	1917.2	1488.8	1115.8	85.8
33°	3861.6	3791.0	3614.9	3364.5	3036.7	2627.2	2176.3	1758.1	1340.4	1001.0	79.3
34°	3552.2	3487.6	3335.9	3083.7	2769.3	2370.4	1939.3	1538.2	1186.4	887.1	72.4
35°	3198.1	3095.2	2957.8	2758.2	2451.6	2050.4	1683.4	1333.5	1027.8	767.7	65.0
36°	2719.0	2737.4	2591.7	2347.4	2093.3	1778.9	1426.6	1111.7	859.5	654.3	58.6
37°	2294.3	2265.3	2172.6	1983.6	1762.3	1450.1	1195.6	942.5	723.0	553.3	51.6
38°	1850.8	1857.2	1766.4	1621.2	1401.7	1192.4	962.3	774.2	604.9	470.8	45.2
39°	1448.7	1443.7	1419.2	1284.6	1085.9	948.4	779.7	641.8	504.0	397.0	38.3
40°	1091.4	1099.7	1042.5	961.4	845.6	732.7	621.1	511.8	416.8	334.7	30.0
42.5°	530.7	543.6	505.8	485.1	433.9	389.6	328.8	268.4	228.2	197.3	13.4
45°	258.7	251.3	248.1	237.9	225.9	202.0	178.9	153.5	134.2	115.7	8.3
47.5°	132.3	128.6	128.6	124.5	120.3	112.5	101.0	92.7	83.5	71.9	3.2
50°	39.7	39.2	38.7	39.2	37.8	39.2	40.1	40.6	36.9	36.4	0.9
52.5°	15.7	16.1	15.7	17.1	17.1	16.6	17.1	16.6	16.1	14.3	0.0
55°	4.6	4.6	4.6	4.6	4.6	4.6	5.1	5.5	5.1	5.5	0.0
57.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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



TEST NUMBER: P1343528

CATALOG NUMBER: P3A13R159740DE010 E3A301WMH

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

TEST NUMBER: P1343528

CATALOG NUMBER: P3A13R159740DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	15.7	15.7	15.7	15.7	15.7	15.7
2.5°	18.4	16.1	13.4	11.1	10.1	9.7
5°	19.8	14.8	10.1	7.8	6.9	6.5
7.5°	21.2	13.4	7.8	5.5	4.1	3.7
10°	22.1	11.5	6.0	3.2	2.3	2.3
12.5°	22.1	9.2	4.1	1.8	1.4	1.4
15°	21.7	7.8	2.8	1.4	0.9	0.9
17.5°	21.2	6.0	1.8	0.9	0.5	0.9
20°	19.8	4.6	0.9	0.5	0.5	0.5
21°	19.4	4.1	0.9	0.5	0.5	0.5
22°	18.4	3.7	0.5	0.0	0.5	0.5
23°	17.5	2.8	0.5	0.0	0.0	0.0
24°	16.1	2.3	0.5	0.0	0.0	0.0
25°	15.2	2.3	0.5	0.0	0.0	0.0
26°	14.3	1.4	0.0	0.0	0.0	0.0
27°	12.9	0.9	0.0	0.0	0.0	0.0
28°	12.0	0.9	0.0	0.0	0.0	0.0
29°	10.6	0.9	0.0	0.0	0.0	0.0
30°	9.2	0.9	0.0	0.0	0.0	0.0
31°	7.4	0.5	0.0	0.0	0.0	0.0
32°	6.0	0.5	0.0	0.0	0.0	0.0
33°	4.1	0.5	0.0	0.0	0.0	0.0
34°	2.8	0.5	0.0	0.0	0.0	0.0
35°	2.3	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°	0.9	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	0.9
45°	0.0	0.5	0.0	0.0	0.5	0.9
47.5°	0.0	0.5	0.0	0.0	0.9	0.9
50°	0.0	0.5	0.5	0.5	0.9	1.4
52.5°	0.0	0.9	0.5	0.9	1.4	1.8
55°	0.5	0.9	0.9	1.4	1.8	2.3
57.5°	0.5	1.4	1.4	1.8	2.3	2.3
60°	0.9	1.4	1.8	1.8	2.8	2.8
62.5°	0.9	1.8	1.8	1.8	2.8	2.8
65°	0.9	1.8	1.8	2.3	2.8	2.8
67.5°	0.9	1.8	1.8	1.8	2.3	2.8
70°	0.9	1.8	1.4	1.8	2.3	2.3
72.5°	0.9	1.8	1.4	1.4	1.8	2.3
75°	0.9	1.8	1.4	1.4	1.8	1.8
77.5°	0.9	1.4	1.4	0.9	1.4	1.4
80°	0.9	1.4	0.9	0.9	1.4	1.4



TEST NUMBER: P1343528

CATALOG NUMBER: P3A13R159740DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.9	1.4	0.9	0.5	0.9	0.9
85°	0.9	1.4	0.9	0.5	0.5	0.5
87.5°	0.9	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)