

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: P1343385

Luminaire Tested: P3A13R159024DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343385
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: P3A13R159024DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

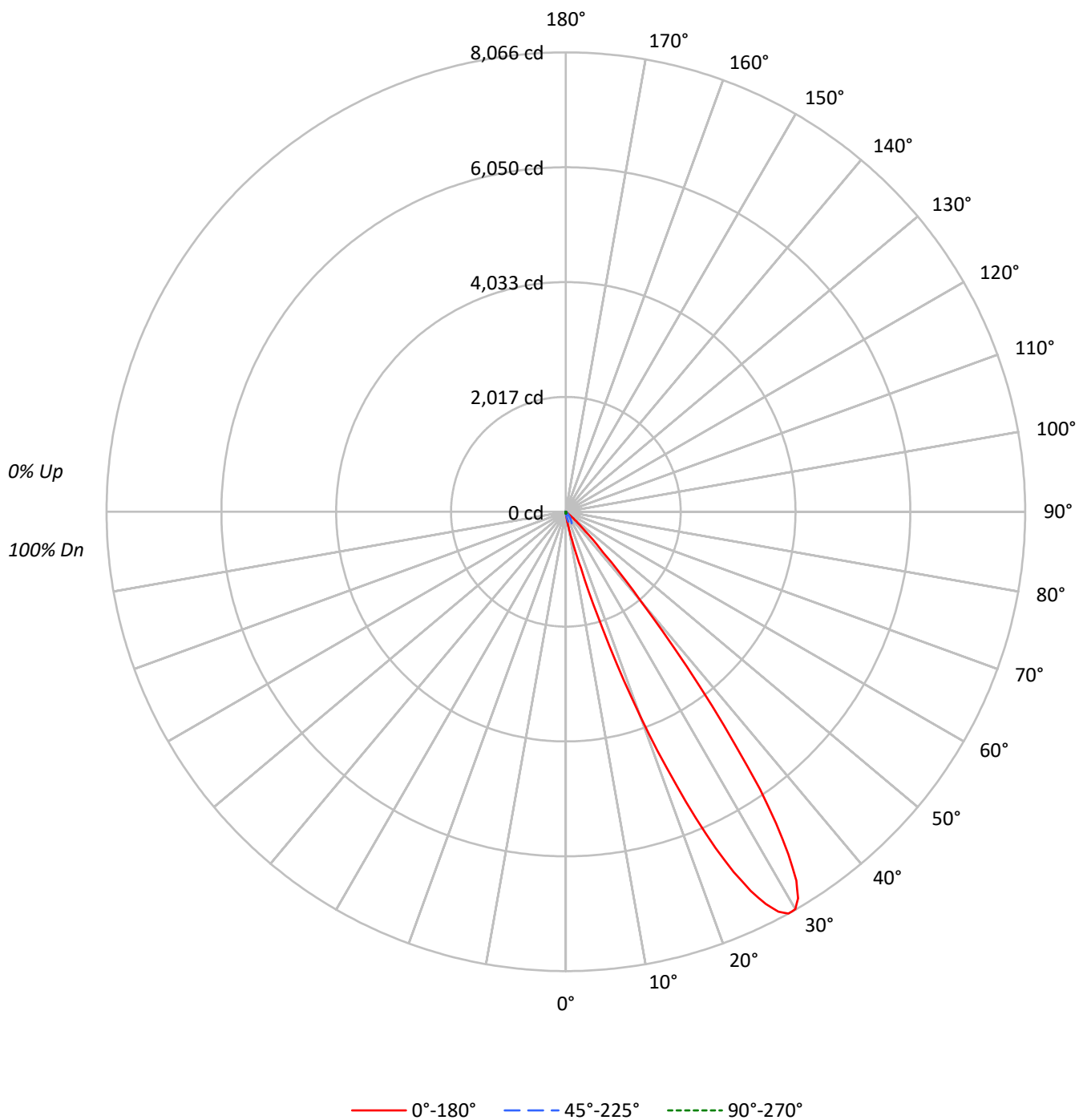
Lumens per Lamp: N/A
Luminaire Lumens: 881.0 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1343385

CATALOG NUMBER: P3A13R159024DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1343385

CATALOG NUMBER: P3A13R159024DE010 E3CA301MW

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	47	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°	6381	6381	6381	6381	6381
5°	13779	10191	6031	3214	2641
10°	61054	19283	4765	1336	957
15°	230921	44563	3314	590	386
20°	888121	62795	2007	210	210
25°	1688856	58890	1040	0	0
30°	2040162	47526	430	0	0
35°	1591190	32337	241	0	0
40°	580659	15944	258	0	258
45°	149101	4776	279	0	527
50°	25142	580	307	307	887
55°	3288	0	650	994	1644
60°	395	395	1140	1491	2237
65°	467	467	1764	2231	2646
70°	577	577	2180	2180	2757
75°	763	763	2881	2203	2881
80°	0	1137	3283	2147	3283
85°	0	2264	6542	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 149101 cd/sqm

TEST NUMBER: P1343385

CATALOG NUMBER: P3A13R159024DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.5
10°-20°	67.5	7.7
20°-30°	374.4	42.5
30°-40°	361.7	41.1
40°-50°	62.9	7.1
50°-60°	4.5	0.5
60°-70°	2.7	0.3
70°-80°	2.2	0.2
80°-90°	1.1	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°	445.9	50.6
0°-40°	807.7	91.7
0°-60°	875.1	99.3
0°-90°	881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	881.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	63	46	27	15	12	12
15°	1017	196	15	3	2	453
25°	6980	243	4	0	0	3121
35°	5944	121	1	0	0	3419
45°	481	15	1	0	2	516
55°	9	0	2	3	4	17
65°	1	1	3	4	5	1
75°	1	1	3	3	3	1
85°	0	1	3	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1343385

CATALOG NUMBER: P3A13R159024DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
2.5°	42.8	41.1	42.0	42.0	42.0	42.0	42.0	40.3	40.3	41.1	36.9
5°	62.6	62.6	61.7	62.6	62.6	61.7	60.0	59.1	59.1	57.4	46.3
7.5°	125.1	123.4	123.4	121.7	113.1	110.6	108.8	104.6	96.8	95.1	60.0
10°	274.2	275.1	269.1	261.4	260.5	247.7	243.4	235.7	221.1	206.5	86.6
12.5°	497.9	486.8	472.2	473.1	448.2	439.6	419.9	398.5	376.2	353.1	142.3
15°	1017.2	985.5	1004.4	958.1	905.8	846.7	786.7	711.3	647.0	578.5	196.3
17.5°	2142.5	2173.3	2121.1	1923.1	1801.4	1658.3	1456.9	1262.3	1096.1	962.4	240.0
20°	3805.9	3851.3	3673.9	3501.7	3206.0	2883.8	2547.8	2167.3	1803.1	1487.7	269.1
21°	4500.9	4473.5	4400.7	4124.7	3783.6	3410.0	2998.6	2578.7	2137.3	1727.7	271.7
22°	5172.8	5185.7	5016.0	4727.2	4372.4	3958.4	3456.2	2937.8	2462.1	1923.1	267.4
23°	5842.1	5883.2	5658.7	5387.9	4941.4	4474.4	3893.3	3333.7	2745.8	2146.8	258.8
24°	6461.7	6433.4	6281.7	5940.7	5463.3	4916.6	4313.2	3634.5	2978.9	2337.9	252.0
25°	6980.2	6976.8	6738.5	6406.9	5861.0	5255.1	4590.0	3880.5	3178.6	2467.3	243.4
26°	7404.4	7335.0	7147.3	6742.8	6203.8	5564.4	4817.1	4059.6	3290.8	2532.4	234.8
27°	7731.8	7682.1	7430.1	7009.3	6446.3	5739.3	4962.8	4148.7	3342.3	2553.8	223.7
28°	7952.0	7898.0	7629.8	7196.2	6580.0	5849.0	5040.0	4186.4	3342.3	2533.3	213.4
29°	8066.0	7992.3	7724.9	7260.4	6610.8	5861.8	5021.1	4149.6	3290.0	2469.8	201.4
30°	8057.4	7965.7	7685.5	7202.2	6519.1	5756.4	4915.7	4016.7	3171.7	2375.6	187.7
31°	7918.6	7815.8	7503.0	7005.0	6329.7	5557.6	4716.9	3838.5	3009.8	2253.0	174.0
32°	7636.7	7506.4	7201.3	6705.1	6038.4	5260.2	4428.1	3563.4	2767.2	2073.9	159.4
33°	7177.3	7046.2	6718.8	6253.5	5644.1	4883.1	4045.0	3267.7	2491.3	1860.5	147.4
34°	6602.3	6482.3	6200.3	5731.6	5147.1	4405.8	3604.5	2858.9	2205.0	1648.9	134.5
35°	5944.1	5753.0	5497.6	5126.5	4556.6	3811.0	3128.9	2478.4	1910.2	1426.9	120.8
36°	5053.7	5088.0	4817.1	4362.9	3890.7	3306.3	2651.5	2066.2	1597.4	1216.1	108.8
37°	4264.4	4210.4	4038.1	3686.8	3275.4	2695.2	2222.2	1751.7	1343.8	1028.4	96.0
38°	3440.0	3452.0	3283.1	3013.2	2605.3	2216.2	1788.5	1438.9	1124.4	875.0	84.0
39°	2692.7	2683.2	2637.8	2387.6	2018.2	1762.8	1449.2	1192.9	936.7	737.9	71.1
40°	2028.5	2043.9	1937.7	1786.8	1571.7	1361.8	1154.4	951.3	774.7	622.2	55.7
42.5°	986.4	1010.4	940.1	901.6	806.4	724.2	611.0	498.8	424.2	366.8	24.9
45°	480.8	467.1	461.1	442.2	419.9	375.4	332.5	285.4	249.4	215.1	15.4
47.5°	246.0	239.1	239.1	231.4	223.7	209.1	187.7	172.3	155.1	133.7	6.0
50°	73.7	72.8	72.0	72.8	70.3	72.8	74.6	75.4	68.6	67.7	1.7
52.5°	29.1	30.0	29.1	31.7	31.7	30.9	31.7	30.9	30.0	26.6	0.0
55°	8.6	8.6	8.6	8.6	8.6	8.6	9.4	10.3	9.4	10.3	0.0
57.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0
60°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9



TEST NUMBER: P1343385

CATALOG NUMBER: P3A13R159024DE010 E3CA301MW

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	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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: P1343385

CATALOG NUMBER: P3A13R159024DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	29.1	29.1	29.1	29.1	29.1	29.1
2.5°	34.3	30.0	24.9	20.6	18.9	18.0
5°	36.9	27.4	18.9	14.6	12.9	12.0
7.5°	39.4	24.9	14.6	10.3	7.7	6.9
10°	41.1	21.4	11.1	6.0	4.3	4.3
12.5°	41.1	17.1	7.7	3.4	2.6	2.6
15°	40.3	14.6	5.1	2.6	1.7	1.7
17.5°	39.4	11.1	3.4	1.7	0.9	1.7
20°	36.9	8.6	1.7	0.9	0.9	0.9
21°	36.0	7.7	1.7	0.9	0.9	0.9
22°	34.3	6.9	0.9	0.0	0.9	0.9
23°	32.6	5.1	0.9	0.0	0.0	0.0
24°	30.0	4.3	0.9	0.0	0.0	0.0
25°	28.3	4.3	0.9	0.0	0.0	0.0
26°	26.6	2.6	0.0	0.0	0.0	0.0
27°	24.0	1.7	0.0	0.0	0.0	0.0
28°	22.3	1.7	0.0	0.0	0.0	0.0
29°	19.7	1.7	0.0	0.0	0.0	0.0
30°	17.1	1.7	0.0	0.0	0.0	0.0
31°	13.7	0.9	0.0	0.0	0.0	0.0
32°	11.1	0.9	0.0	0.0	0.0	0.0
33°	7.7	0.9	0.0	0.0	0.0	0.0
34°	5.1	0.9	0.0	0.0	0.0	0.0
35°	4.3	0.9	0.0	0.0	0.0	0.0
36°	2.6	0.9	0.0	0.0	0.0	0.9
37°	2.6	0.9	0.0	0.0	0.0	0.9
38°	1.7	0.9	0.0	0.0	0.0	0.9
39°	0.9	0.9	0.0	0.0	0.0	0.9
40°	0.9	0.9	0.0	0.0	0.0	0.9
42.5°	0.0	0.9	0.0	0.0	0.9	1.7
45°	0.0	0.9	0.0	0.0	0.9	1.7
47.5°	0.0	0.9	0.0	0.0	1.7	1.7
50°	0.0	0.9	0.9	0.9	1.7	2.6
52.5°	0.0	1.7	0.9	1.7	2.6	3.4
55°	0.9	1.7	1.7	2.6	3.4	4.3
57.5°	0.9	2.6	2.6	3.4	4.3	4.3
60°	1.7	2.6	3.4	3.4	5.1	5.1
62.5°	1.7	3.4	3.4	3.4	5.1	5.1
65°	1.7	3.4	3.4	4.3	5.1	5.1
67.5°	1.7	3.4	3.4	3.4	4.3	5.1
70°	1.7	3.4	2.6	3.4	4.3	4.3
72.5°	1.7	3.4	2.6	2.6	3.4	4.3
75°	1.7	3.4	2.6	2.6	3.4	3.4
77.5°	1.7	2.6	2.6	1.7	2.6	2.6
80°	1.7	2.6	1.7	1.7	2.6	2.6



TEST NUMBER: P1343385

CATALOG NUMBER: P3A13R159024DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.7	2.6	1.7	0.9	1.7	1.7
85°	1.7	2.6	1.7	0.9	0.9	0.9
87.5°	1.7	2.6	0.9	0.0	0.0	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)