

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: P1343443

Luminaire Tested: P3A13R159035DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343443
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: P3A13R159035DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

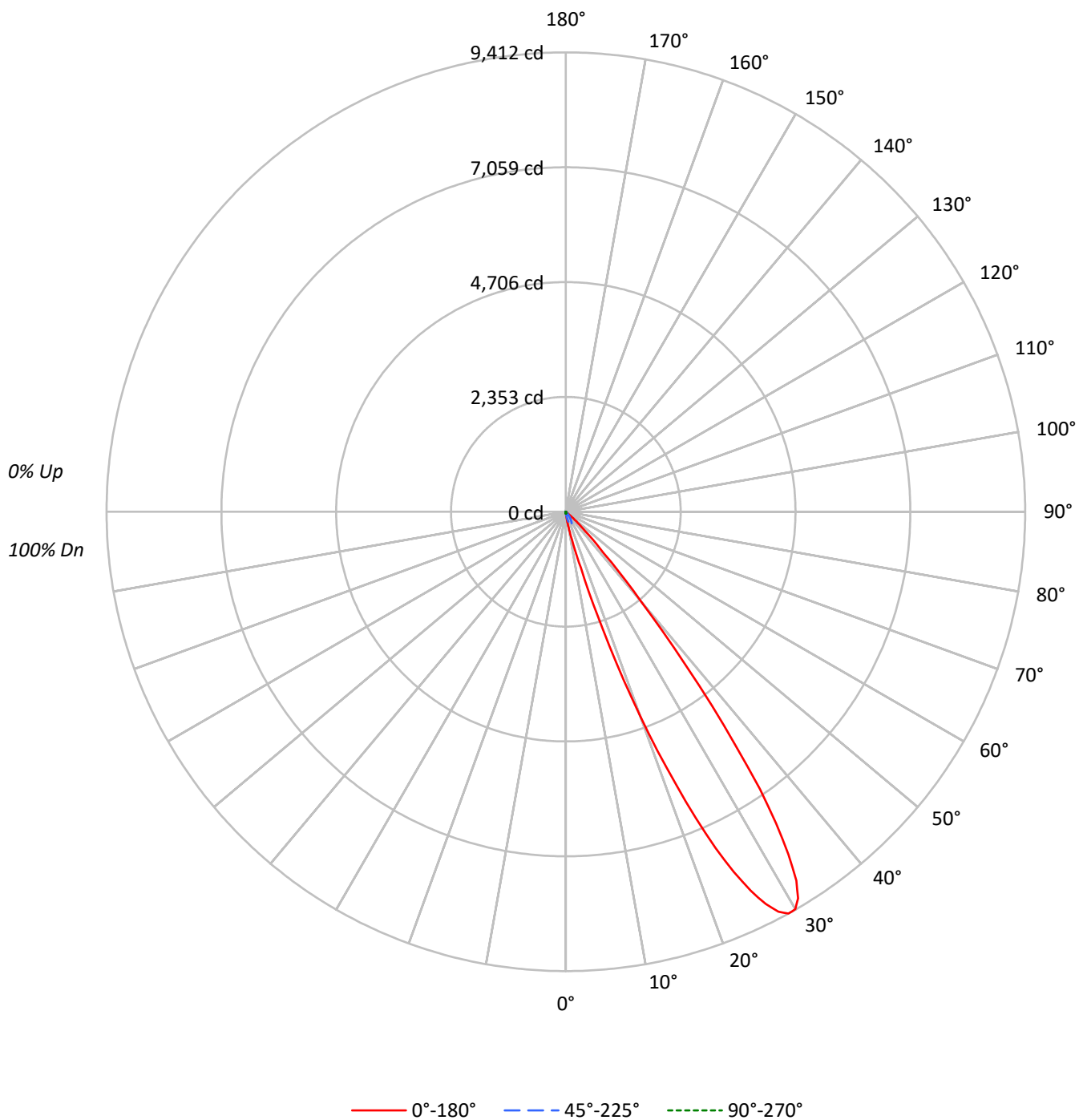
Lumens per Lamp: N/A
Luminaire Lumens: 1028.0 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1343443

CATALOG NUMBER: P3A13R159035DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1343443

CATALOG NUMBER: P3A13R159035DE010 E3CA301MW

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°	7456	7456	7456	7456	7456
5°	16069	11886	7044	3742	3082
10°	71252	22489	5567	1559	1113
15°	269468	51987	3859	681	454
20°	1036300	73273	2334	233	233
25°	1970654	68714	1210	0	0
30°	2380594	55452	506	0	0
35°	1856687	37745	268	0	0
40°	677555	18606	286	0	286
45°	173972	5582	310	0	620
50°	29338	682	341	341	1023
55°	3823	0	765	1147	1912
60°	439	439	1316	1754	2631
65°	519	519	2075	2594	3113
70°	641	641	2565	2565	3206
75°	847	847	3389	2542	3389
80°	0	1263	3788	2526	3788
85°	0	2516	7548	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 173972 cd/sqm

TEST NUMBER: P1343443

CATALOG NUMBER: P3A13R159035DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.5
10°-20°	78.8	7.7
20°-30°	436.9	42.5
30°-40°	422.1	41.1
40°-50°	73.4	7.1
50°-60°	5.3	0.5
60°-70°	3.1	0.3
70°-80°	2.5	0.2
80°-90°	1.3	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°	520.3	50.6
0°-40°	942.4	91.7
0°-60°	1021.1	99.3
0°-90°	1028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1028.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	73	54	32	17	14	14
15°	1187	229	17	3	2	529
25°	8145	284	5	0	0	3642
35°	6936	141	1	0	0	3989
45°	561	18	1	0	2	603
55°	10	0	2	3	5	19
65°	1	1	4	5	6	1
75°	1	1	4	3	4	1
85°	0	1	3	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1343443

CATALOG NUMBER: P3A13R159035DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
2.5°	50.0	48.0	49.0	49.0	49.0	49.0	49.0	47.0	47.0	48.0	43.0
5°	73.0	73.0	72.0	73.0	73.0	72.0	70.0	69.0	69.0	67.0	54.0
7.5°	146.0	144.0	144.0	142.0	132.0	129.0	127.0	122.0	113.0	111.0	70.0
10°	320.0	321.0	314.0	305.0	304.0	289.0	284.0	275.0	258.0	241.0	101.0
12.5°	581.0	568.0	551.0	552.0	523.0	513.0	490.0	465.0	439.0	412.0	166.0
15°	1187.0	1150.0	1172.0	1118.0	1057.0	988.0	918.0	830.0	755.0	675.0	229.0
17.5°	2500.0	2536.0	2475.0	2244.0	2102.0	1935.0	1700.0	1473.0	1279.0	1123.0	280.0
20°	4440.9	4493.9	4286.9	4085.9	3740.9	3365.0	2973.0	2529.0	2104.0	1736.0	314.0
21°	5251.9	5219.9	5134.9	4812.9	4414.9	3978.9	3498.9	3009.0	2494.0	2016.0	317.0
22°	6035.9	6050.9	5852.9	5515.9	5101.9	4618.9	4032.9	3428.0	2873.0	2244.0	312.0
23°	6816.9	6864.9	6602.9	6286.9	5765.9	5220.9	4542.9	3889.9	3204.0	2505.0	302.0
24°	7539.9	7506.9	7329.9	6931.9	6374.9	5736.9	5032.9	4240.9	3475.9	2728.0	294.0
25°	8144.9	8140.9	7862.9	7475.9	6838.9	6131.9	5355.9	4527.9	3708.9	2879.0	284.0
26°	8639.9	8558.9	8339.9	7867.9	7238.9	6492.9	5620.9	4736.9	3839.9	2955.0	274.0
27°	9021.9	8963.9	8669.9	8178.9	7521.9	6696.9	5790.9	4840.9	3899.9	2980.0	261.0
28°	9278.9	9215.9	8902.9	8396.9	7677.9	6824.9	5880.9	4884.9	3899.9	2956.0	249.0
29°	9411.9	9325.9	9013.9	8471.9	7713.9	6839.9	5858.9	4841.9	3838.9	2882.0	235.0
30°	9401.9	9294.9	8967.9	8403.9	7606.9	6716.9	5735.9	4686.9	3700.9	2772.0	219.0
31°	9239.9	9119.9	8754.9	8173.9	7385.9	6484.9	5503.9	4478.9	3511.9	2629.0	203.0
32°	8910.9	8758.9	8402.9	7823.9	7045.9	6137.9	5166.9	4157.9	3229.0	2420.0	186.0
33°	8374.9	8221.9	7839.9	7296.9	6585.9	5697.9	4719.9	3812.9	2907.0	2171.0	172.0
34°	7703.9	7563.9	7234.9	6687.9	6005.9	5140.9	4205.9	3336.0	2573.0	1924.0	157.0
35°	6935.9	6712.9	6414.9	5981.9	5316.9	4446.9	3650.9	2892.0	2229.0	1665.0	141.0
36°	5896.9	5936.9	5620.9	5090.9	4539.9	3857.9	3094.0	2411.0	1864.0	1419.0	127.0
37°	4975.9	4912.9	4711.9	4301.9	3821.9	3145.0	2593.0	2044.0	1568.0	1200.0	112.0
38°	4013.9	4027.9	3830.9	3515.9	3040.0	2586.0	2087.0	1679.0	1312.0	1021.0	98.0
39°	3142.0	3131.0	3078.0	2786.0	2355.0	2057.0	1691.0	1392.0	1093.0	861.0	83.0
40°	2367.0	2385.0	2261.0	2085.0	1834.0	1589.0	1347.0	1110.0	904.0	726.0	65.0
42.5°	1151.0	1179.0	1097.0	1052.0	941.0	845.0	713.0	582.0	495.0	428.0	29.0
45°	561.0	545.0	538.0	516.0	490.0	438.0	388.0	333.0	291.0	251.0	18.0
47.5°	287.0	279.0	279.0	270.0	261.0	244.0	219.0	201.0	181.0	156.0	7.0
50°	86.0	85.0	84.0	85.0	82.0	85.0	87.0	88.0	80.0	79.0	2.0
52.5°	34.0	35.0	34.0	37.0	37.0	36.0	37.0	36.0	35.0	31.0	0.0
55°	10.0	10.0	10.0	10.0	10.0	10.0	11.0	12.0	11.0	12.0	0.0
57.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0



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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	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	34.0	34.0	34.0	34.0	34.0	34.0
2.5°	40.0	35.0	29.0	24.0	22.0	21.0
5°	43.0	32.0	22.0	17.0	15.0	14.0
7.5°	46.0	29.0	17.0	12.0	9.0	8.0
10°	48.0	25.0	13.0	7.0	5.0	5.0
12.5°	48.0	20.0	9.0	4.0	3.0	3.0
15°	47.0	17.0	6.0	3.0	2.0	2.0
17.5°	46.0	13.0	4.0	2.0	1.0	2.0
20°	43.0	10.0	2.0	1.0	1.0	1.0
21°	42.0	9.0	2.0	1.0	1.0	1.0
22°	40.0	8.0	1.0	0.0	1.0	1.0
23°	38.0	6.0	1.0	0.0	0.0	0.0
24°	35.0	5.0	1.0	0.0	0.0	0.0
25°	33.0	5.0	1.0	0.0	0.0	0.0
26°	31.0	3.0	0.0	0.0	0.0	0.0
27°	28.0	2.0	0.0	0.0	0.0	0.0
28°	26.0	2.0	0.0	0.0	0.0	0.0
29°	23.0	2.0	0.0	0.0	0.0	0.0
30°	20.0	2.0	0.0	0.0	0.0	0.0
31°	16.0	1.0	0.0	0.0	0.0	0.0
32°	13.0	1.0	0.0	0.0	0.0	0.0
33°	9.0	1.0	0.0	0.0	0.0	0.0
34°	6.0	1.0	0.0	0.0	0.0	0.0
35°	5.0	1.0	0.0	0.0	0.0	0.0
36°	3.0	1.0	0.0	0.0	0.0	1.0
37°	3.0	1.0	0.0	0.0	0.0	1.0
38°	2.0	1.0	0.0	0.0	0.0	1.0
39°	1.0	1.0	0.0	0.0	0.0	1.0
40°	1.0	1.0	0.0	0.0	0.0	1.0
42.5°	0.0	1.0	0.0	0.0	1.0	2.0
45°	0.0	1.0	0.0	0.0	1.0	2.0
47.5°	0.0	1.0	0.0	0.0	2.0	2.0
50°	0.0	1.0	1.0	1.0	2.0	3.0
52.5°	0.0	2.0	1.0	2.0	3.0	4.0
55°	1.0	2.0	2.0	3.0	4.0	5.0
57.5°	1.0	3.0	3.0	4.0	5.0	5.0
60°	2.0	3.0	4.0	4.0	6.0	6.0
62.5°	2.0	4.0	4.0	4.0	6.0	6.0
65°	2.0	4.0	4.0	5.0	6.0	6.0
67.5°	2.0	4.0	4.0	4.0	5.0	6.0
70°	2.0	4.0	3.0	4.0	5.0	5.0
72.5°	2.0	4.0	3.0	3.0	4.0	5.0
75°	2.0	4.0	3.0	3.0	4.0	4.0
77.5°	2.0	3.0	3.0	2.0	3.0	3.0
80°	2.0	3.0	2.0	2.0	3.0	3.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.0	3.0	2.0	1.0	2.0	2.0
85°	2.0	3.0	2.0	1.0	1.0	1.0
87.5°	2.0	3.0	1.0	0.0	0.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)