

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: P1343429

Luminaire Tested: P3A13R159030DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343429
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 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

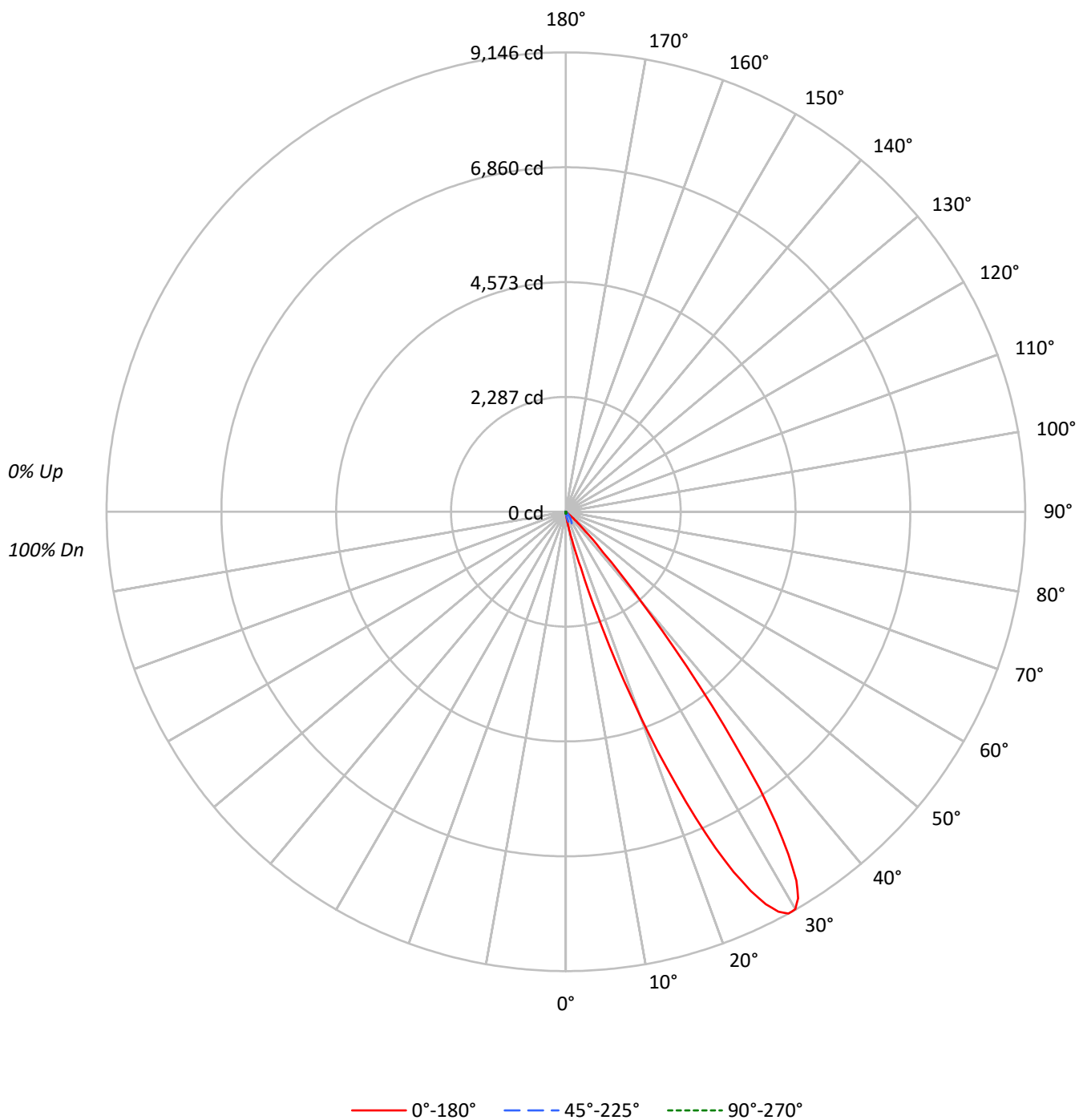
Lumens per Lamp: N/A
Luminaire Lumens: 999.0 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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
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	48	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°	7236	7236	7236	7236	7236
5°	15606	11556	6846	3632	2994
10°	69248	21843	5411	1514	1091
15°	261863	50511	3746	658	431
20°	1007084	71196	2264	233	233
25°	1915054	66778	1186	0	0
30°	2313419	53882	481	0	0
35°	1804299	36674	268	0	0
40°	658434	18091	286	0	286
45°	169072	5427	310	0	589
50°	28519	648	341	341	989
55°	3708	0	726	1109	1873
60°	439	439	1272	1710	2544
65°	519	519	2024	2542	3009
70°	641	641	2500	2500	3142
75°	847	847	3304	2457	3304
80°	0	1263	3662	2399	3662
85°	0	2516	7296	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 169072 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.5
10°-20°	76.5	7.7
20°-30°	424.6	42.5
30°-40°	410.2	41.1
40°-50°	71.3	7.1
50°-60°	5.1	0.5
60°-70°	3.0	0.3
70°-80°	2.4	0.2
80°-90°	1.2	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°	505.7	50.6
0°-40°	915.8	91.7
0°-60°	992.3	99.3
0°-90°	999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	999.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	71	52	31	16	14	14
15°	1154	222	16	3	2	514
25°	7915	276	5	0	0	3539
35°	6740	137	1	0	0	3876
45°	545	18	1	0	2	586
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	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
2.5°	48.6	46.6	47.6	47.6	47.6	47.6	47.6	45.7	45.7	46.6	41.8
5°	70.9	70.9	70.0	70.9	70.9	70.0	68.0	67.1	67.1	65.1	52.5
7.5°	141.9	139.9	139.9	138.0	128.3	125.4	123.4	118.6	109.8	107.9	68.0
10°	311.0	311.9	305.1	296.4	295.4	280.8	276.0	267.2	250.7	234.2	98.1
12.5°	564.6	552.0	535.4	536.4	508.2	498.5	476.2	451.9	426.6	400.4	161.3
15°	1153.5	1117.5	1138.9	1086.4	1027.2	960.1	892.1	806.6	733.7	655.9	222.5
17.5°	2429.4	2464.4	2405.1	2180.7	2042.7	1880.4	1652.0	1431.4	1242.9	1091.3	272.1
20°	4315.7	4367.2	4166.0	3970.7	3635.4	3270.0	2889.1	2457.6	2044.6	1687.0	305.1
21°	5103.8	5072.7	4990.1	4677.2	4290.4	3866.7	3400.2	2924.1	2423.6	1959.1	308.1
22°	5865.6	5880.2	5687.8	5360.3	4958.0	4488.6	3919.2	3331.2	2791.9	2180.7	303.2
23°	6624.6	6671.2	6416.6	6109.6	5603.3	5073.6	4414.8	3780.2	3113.6	2434.3	293.5
24°	7327.2	7295.1	7123.1	6736.4	6195.1	5575.1	4890.9	4121.3	3377.9	2651.0	285.7
25°	7915.1	7911.2	7641.1	7265.0	6646.0	5958.9	5204.8	4400.2	3604.3	2797.7	276.0
26°	8396.1	8317.4	8104.6	7645.9	7034.7	6309.7	5462.4	4603.3	3731.6	2871.6	266.3
27°	8767.4	8711.0	8425.3	7948.2	7309.7	6508.0	5627.6	4704.4	3789.9	2895.9	253.6
28°	9017.1	8955.9	8651.7	8160.0	7461.3	6632.4	5715.0	4747.1	3789.9	2872.6	242.0
29°	9146.4	9062.8	8759.6	8232.9	7496.3	6646.9	5693.6	4705.3	3730.6	2800.7	228.4
30°	9136.6	9032.7	8714.9	8166.8	7392.3	6527.4	5574.1	4554.7	3596.5	2693.8	212.8
31°	8979.2	8862.6	8507.9	7943.3	7177.5	6302.0	5348.7	4352.6	3412.9	2554.8	197.3
32°	8659.5	8511.8	8165.8	7603.2	6847.1	5964.8	5021.2	4040.6	3137.9	2351.7	180.8
33°	8138.6	7989.9	7618.7	7091.0	6400.1	5537.2	4586.8	3705.4	2825.0	2109.7	167.1
34°	7486.6	7350.5	7030.8	6499.2	5836.5	4995.9	4087.3	3241.8	2500.4	1869.7	152.6
35°	6740.2	6523.5	6233.9	5813.2	5166.9	4321.5	3548.0	2810.4	2166.1	1618.0	137.0
36°	5730.6	5769.4	5462.4	4947.3	4411.9	3749.1	3006.7	2343.0	1811.4	1378.9	123.4
37°	4835.6	4774.3	4579.0	4180.6	3714.1	3056.2	2519.8	1986.3	1523.7	1166.1	108.8
38°	3900.7	3914.3	3722.9	3416.8	2954.2	2513.0	2028.1	1631.6	1275.0	992.2	95.2
39°	3053.3	3042.6	2991.1	2707.4	2288.5	1998.9	1643.3	1352.7	1062.2	836.7	80.7
40°	2300.2	2317.7	2197.2	2026.2	1782.2	1544.2	1309.0	1078.7	878.5	705.5	63.2
42.5°	1118.5	1145.7	1066.0	1022.3	914.4	821.2	692.9	565.6	481.0	415.9	28.2
45°	545.2	529.6	522.8	501.4	476.2	425.6	377.0	323.6	282.8	243.9	17.5
47.5°	278.9	271.1	271.1	262.4	253.6	237.1	212.8	195.3	175.9	151.6	6.8
50°	83.6	82.6	81.6	82.6	79.7	82.6	84.5	85.5	77.7	76.8	1.9
52.5°	33.0	34.0	33.0	36.0	36.0	35.0	36.0	35.0	34.0	30.1	0.0
55°	9.7	9.7	9.7	9.7	9.7	9.7	10.7	11.7	10.7	11.7	0.0
57.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	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°	33.0	33.0	33.0	33.0	33.0	33.0
2.5°	38.9	34.0	28.2	23.3	21.4	20.4
5°	41.8	31.1	21.4	16.5	14.6	13.6
7.5°	44.7	28.2	16.5	11.7	8.7	7.8
10°	46.6	24.3	12.6	6.8	4.9	4.9
12.5°	46.6	19.4	8.7	3.9	2.9	2.9
15°	45.7	16.5	5.8	2.9	1.9	1.9
17.5°	44.7	12.6	3.9	1.9	1.0	1.9
20°	41.8	9.7	1.9	1.0	1.0	1.0
21°	40.8	8.7	1.9	1.0	1.0	1.0
22°	38.9	7.8	1.0	0.0	1.0	1.0
23°	36.9	5.8	1.0	0.0	0.0	0.0
24°	34.0	4.9	1.0	0.0	0.0	0.0
25°	32.1	4.9	1.0	0.0	0.0	0.0
26°	30.1	2.9	0.0	0.0	0.0	0.0
27°	27.2	1.9	0.0	0.0	0.0	0.0
28°	25.3	1.9	0.0	0.0	0.0	0.0
29°	22.4	1.9	0.0	0.0	0.0	0.0
30°	19.4	1.9	0.0	0.0	0.0	0.0
31°	15.5	1.0	0.0	0.0	0.0	0.0
32°	12.6	1.0	0.0	0.0	0.0	0.0
33°	8.7	1.0	0.0	0.0	0.0	0.0
34°	5.8	1.0	0.0	0.0	0.0	0.0
35°	4.9	1.0	0.0	0.0	0.0	0.0
36°	2.9	1.0	0.0	0.0	0.0	1.0
37°	2.9	1.0	0.0	0.0	0.0	1.0
38°	1.9	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	1.9
45°	0.0	1.0	0.0	0.0	1.0	1.9
47.5°	0.0	1.0	0.0	0.0	1.9	1.9
50°	0.0	1.0	1.0	1.0	1.9	2.9
52.5°	0.0	1.9	1.0	1.9	2.9	3.9
55°	1.0	1.9	1.9	2.9	3.9	4.9
57.5°	1.0	2.9	2.9	3.9	4.9	4.9
60°	1.9	2.9	3.9	3.9	5.8	5.8
62.5°	1.9	3.9	3.9	3.9	5.8	5.8
65°	1.9	3.9	3.9	4.9	5.8	5.8
67.5°	1.9	3.9	3.9	3.9	4.9	5.8
70°	1.9	3.9	2.9	3.9	4.9	4.9
72.5°	1.9	3.9	2.9	2.9	3.9	4.9
75°	1.9	3.9	2.9	2.9	3.9	3.9
77.5°	1.9	2.9	2.9	1.9	2.9	2.9
80°	1.9	2.9	1.9	1.9	2.9	2.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.9	2.9	1.9	1.0	1.9	1.9
85°	1.9	2.9	1.9	1.0	1.0	1.0
87.5°	1.9	2.9	1.0	0.0	0.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)