

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: P1345603

Luminaire Tested: P3A13R359835DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R359835DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

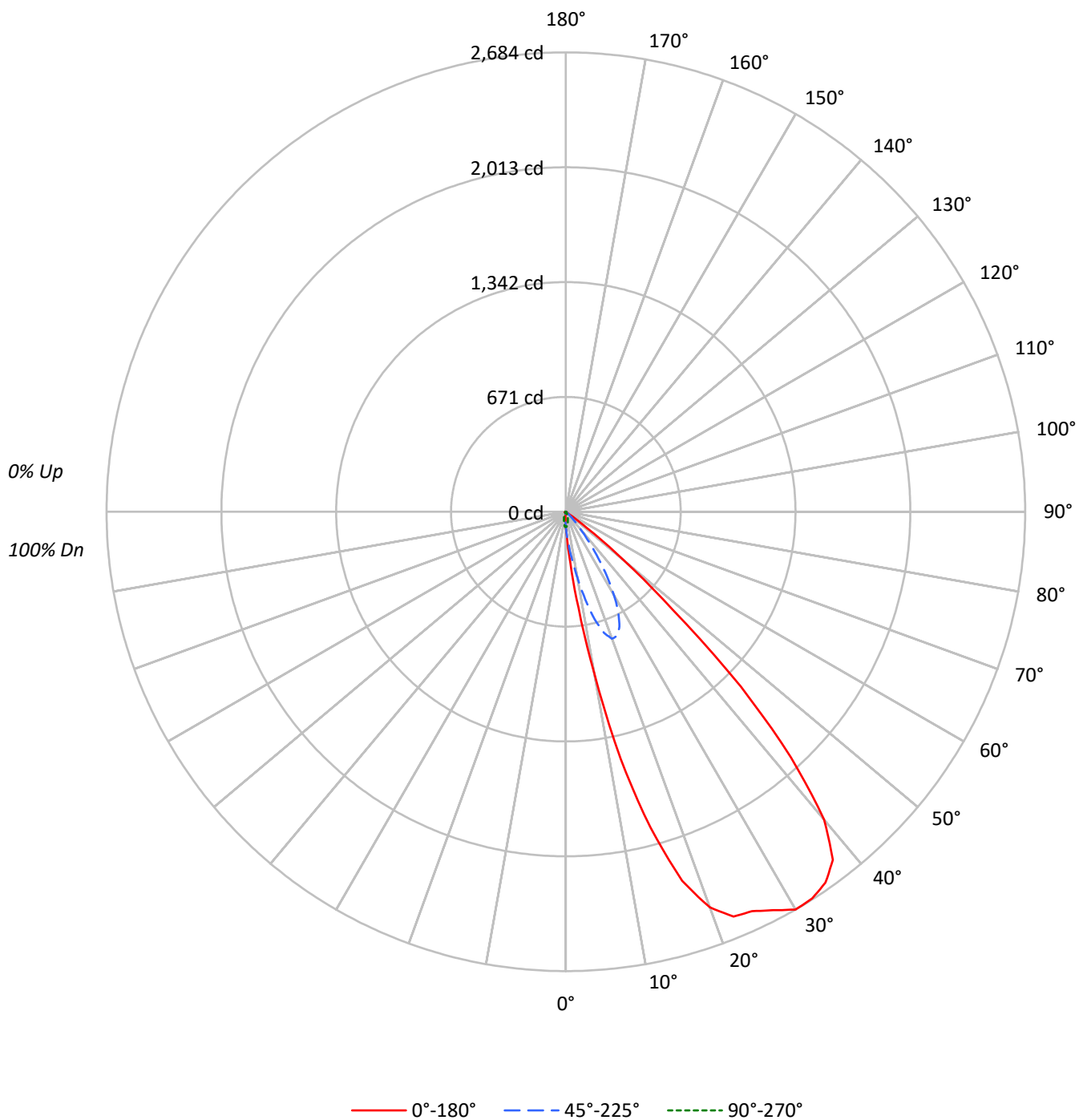
Lumens per Lamp: N/A
Luminaire Lumens: 844.0 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83		
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	74		
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	67		
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41		
10	62	50	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°	19428	19428	19428	19428	19428
5°	66212	43033	18182	7682	5679
10°	213067	87217	14340	2872	1848
15°	434123	147924	10148	1022	681
20°	574050	184209	6534	350	350
25°	622875	179091	3678	194	363
30°	679472	142731	1545	203	380
35°	708019	88820	402	214	402
40°	671859	38816	229	429	658
45°	448512	15505	248	713	1178
50°	150409	2593	512	1023	1535
55°	8411	306	573	1453	2026
60°	658	351	1009	1667	2324
65°	778	415	1193	1972	2750
70°	513	513	1475	2436	2885
75°	678	678	1949	2542	3219
80°	0	1010	2904	2904	2904
85°	0	2013	5787	2013	3774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 448512 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.4	1.8
10°-20°	121.2	14.4
20°-30°	255.9	30.3
30°-40°	290.3	34.4
40°-50°	142.9	16.9
50°-60°	12.4	1.5
60°-70°	2.5	0.3
70°-80°	2.4	0.3
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°	392.5	46.5
0°-40°	682.7	80.9
0°-60°	838.0	99.3
0°-90°	844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	844.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	89	89	89	89	89	
5°	301	196	83	35	26	50
15°	1912	652	45	4	3	544
25°	2574	740	15	1	2	1198
35°	2645	332	2	1	2	1630
45°	1446	50	1	2	4	1069
55°	22	1	2	4	5	86
65°	2	1	2	4	5	1
75°	1	1	2	3	4	1
85°	0	1	2	1	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
2.5°	153.8	157.6	156.1	155.3	154.6	151.5	144.7	143.9	137.1	132.6	109.9
5°	300.8	294.7	296.2	287.9	277.3	262.1	252.3	231.1	213.7	195.5	128.0
7.5°	566.7	558.4	542.5	518.2	493.2	460.6	411.4	372.0	326.5	283.4	142.4
10°	956.9	952.3	931.9	869.8	815.2	728.1	646.3	559.9	475.0	391.7	152.3
12.5°	1478.1	1447.1	1409.9	1327.4	1219.8	1110.7	949.3	800.1	664.4	525.0	153.0
15°	1912.3	1892.6	1840.3	1732.7	1603.1	1445.6	1253.9	1053.1	848.5	651.6	145.5
17.5°	2261.5	2231.2	2163.8	2058.5	1909.2	1704.7	1480.4	1235.7	986.4	741.7	132.6
20°	2460.0	2444.1	2392.6	2287.3	2124.4	1900.9	1645.6	1360.7	1072.8	789.4	115.9
22.5°	2560.0	2548.7	2510.8	2426.7	2274.4	2049.4	1756.9	1425.9	1097.8	784.1	98.5
25°	2574.4	2571.4	2538.8	2475.2	2347.9	2125.1	1805.4	1438.0	1077.3	740.2	81.8
27.5°	2624.4	2613.8	2575.2	2511.5	2383.5	2138.0	1788.8	1396.3	1011.4	662.9	68.2
30°	2683.5	2675.9	2637.3	2571.4	2419.9	2125.9	1729.7	1303.9	906.1	563.7	50.8
32.5°	2679.0	2675.9	2643.4	2573.7	2394.1	2054.7	1624.4	1165.2	762.9	444.7	31.8
35°	2644.9	2634.3	2593.4	2485.8	2247.1	1871.3	1424.3	977.3	603.8	331.8	20.5
37.5°	2563.1	2540.3	2471.4	2288.8	1984.2	1588.7	1159.9	754.6	427.3	222.0	12.9
40°	2347.1	2318.3	2179.7	1959.2	1640.3	1251.6	862.9	519.0	281.8	135.6	5.3
42.5°	1947.1	1888.8	1750.1	1523.6	1224.3	884.9	566.7	336.4	165.9	81.8	1.5
45°	1446.3	1401.6	1256.1	1050.8	802.3	567.5	343.2	181.8	91.7	50.0	0.8
47.5°	842.5	815.2	740.2	605.3	443.2	297.7	175.8	97.7	53.8	24.2	0.8
50°	440.9	406.8	350.0	265.2	195.5	137.1	85.6	52.3	26.5	7.6	0.8
52.5°	154.6	152.3	138.6	104.6	84.9	61.4	41.7	22.7	7.6	1.5	0.8
55°	22.0	22.0	20.5	22.7	24.2	22.0	14.4	6.1	1.5	0.8	0.8
57.5°	1.5	1.5	1.5	2.3	3.0	3.0	2.3	0.8	0.8	0.8	1.5
60°	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
62.5°	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
65°	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
77.5°	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5
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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CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	88.6	88.6	88.6	88.6	88.6
2.5°	87.9	70.5	56.1	49.2	47.0
5°	82.6	53.0	34.9	27.3	25.8
7.5°	73.5	37.9	21.2	15.2	14.4
10°	64.4	27.3	12.9	9.1	8.3
12.5°	53.8	18.9	8.3	5.3	4.5
15°	44.7	12.9	4.5	3.8	3.0
17.5°	35.6	8.3	3.0	2.3	3.0
20°	28.0	5.3	1.5	1.5	1.5
22.5°	21.2	3.0	1.5	1.5	1.5
25°	15.2	1.5	0.8	0.8	1.5
27.5°	10.6	0.8	0.8	0.8	1.5
30°	6.1	0.8	0.8	0.8	1.5
32.5°	3.0	0.8	0.8	1.5	1.5
35°	1.5	0.8	0.8	1.5	1.5
37.5°	0.8	0.8	0.8	1.5	2.3
40°	0.8	0.8	1.5	2.3	2.3
42.5°	0.8	0.8	1.5	2.3	3.0
45°	0.8	1.5	2.3	3.0	3.8
47.5°	1.5	1.5	3.0	3.8	4.5
50°	1.5	2.3	3.0	4.5	4.5
52.5°	1.5	2.3	3.8	4.5	5.3
55°	1.5	3.0	3.8	5.3	5.3
57.5°	2.3	3.0	3.8	5.3	5.3
60°	2.3	3.0	3.8	5.3	5.3
62.5°	2.3	3.0	3.8	5.3	5.3
65°	2.3	3.0	3.8	5.3	5.3
67.5°	2.3	3.0	3.8	4.5	5.3
70°	2.3	3.0	3.8	4.5	4.5
72.5°	3.0	3.0	3.8	4.5	4.5
75°	2.3	3.0	3.0	3.8	3.8
77.5°	2.3	2.3	2.3	3.0	3.0
80°	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	1.5	1.5	2.3	2.3
85°	2.3	1.5	0.8	1.5	1.5
87.5°	1.5	1.5	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)