

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: P1345987

Luminaire Tested: P3A13R409040DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R409040DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

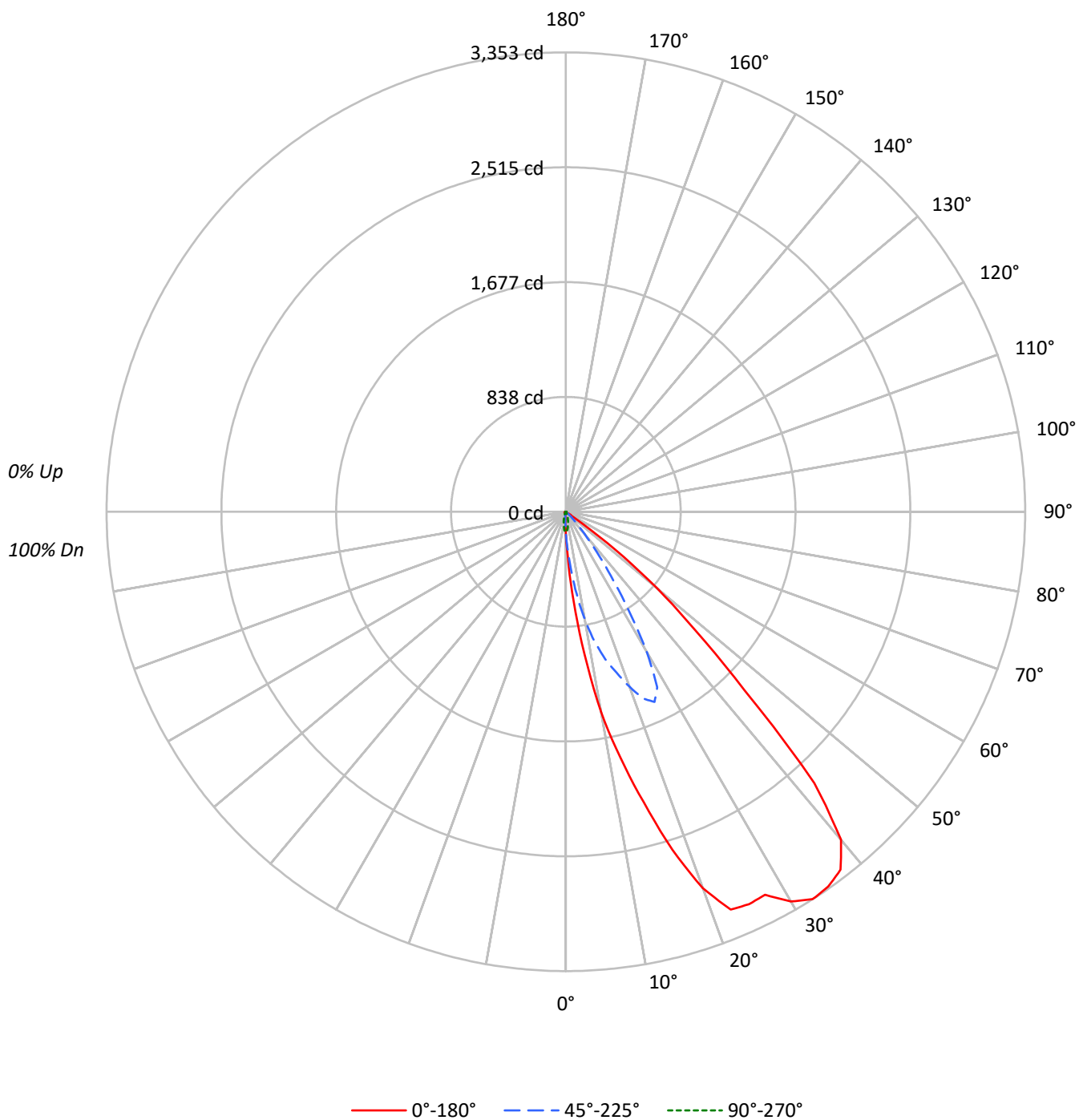
Lumens per Lamp: N/A
Luminaire Lumens: 1236.9 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	97	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32103	32103	32103	32103	32103
5°	144750	92274	28769	11050	8056
10°	331969	178309	20262	3963	3028
15°	498187	253009	12577	2134	1907
20°	682139	317151	7327	1213	1470
25°	764681	370570	3799	1016	1258
30°	831748	299135	1595	785	1317
35°	893905	153093	562	1124	1686
40°	894218	61057	286	1202	2090
45°	570943	20436	651	1954	2915
50°	296383	2490	1058	2490	3582
55°	25576	382	1185	3211	4396
60°	921	439	1360	3684	5043
65°	1090	519	2179	3788	5448
70°	641	641	2693	4039	5386
75°	847	847	2626	4406	6185
80°	1263	1263	3915	3915	5304
85°	0	2516	7799	5284	5284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 570943 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.5	2.3
10°-20°	167.4	13.5
20°-30°	366.7	29.6
30°-40°	417.7	33.8
40°-50°	220.4	17.8
50°-60°	26.0	2.1
60°-70°	4.7	0.4
70°-80°	3.8	0.3
80°-90°	1.7	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°	562.6	45.5
0°-40°	980.3	79.3
0°-60°	1226.7	99.2
0°-90°	1236.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1236.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	146	146	146	146	146	
5°	658	419	131	50	37	89
15°	2194	1114	55	9	8	647
25°	3160	1532	16	4	5	1456
35°	3339	572	2	4	6	2070
45°	1841	66	2	6	9	1484
55°	67	1	3	8	12	208
65°	2	1	4	7	10	2
75°	1	1	3	5	7	1
85°	0	1	3	2	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°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	326.2	326.2	325.1	315.7	314.7	313.6	296.9	292.7	272.9	259.3	197.6
5°	657.6	643.0	641.9	625.2	597.0	559.3	535.3	496.6	459.0	419.2	243.6
7.5°	1047.6	1060.1	1025.6	1007.9	945.1	900.2	831.2	770.5	685.8	606.4	281.2
10°	1490.9	1468.9	1434.4	1399.9	1332.0	1251.5	1149.0	1041.3	919.0	800.8	302.1
12.5°	1836.9	1808.7	1787.8	1740.7	1673.8	1570.3	1448.0	1303.7	1141.7	971.3	301.1
15°	2194.5	2166.3	2119.2	2077.4	1978.1	1862.0	1729.2	1539.0	1340.3	1114.5	279.1
17.5°	2587.6	2551.0	2498.7	2434.9	2338.8	2210.2	2041.8	1809.7	1528.5	1231.6	239.4
20°	2923.2	2901.2	2849.0	2773.7	2679.6	2554.1	2359.7	2102.5	1759.6	1359.1	190.3
22.5°	3142.7	3122.9	3087.3	3021.5	2950.4	2816.6	2638.8	2356.5	1953.0	1475.2	144.3
25°	3160.5	3152.2	3142.7	3120.8	3077.9	2982.8	2809.2	2505.0	2073.2	1531.6	106.6
27.5°	3151.1	3148.0	3145.9	3134.4	3106.2	3012.1	2834.3	2527.0	2057.5	1443.8	78.4
30°	3284.9	3275.5	3270.3	3232.7	3158.4	3013.1	2781.0	2408.8	1828.6	1181.4	56.5
32.5°	3352.9	3350.8	3345.6	3309.0	3204.4	3015.2	2691.1	2123.4	1450.1	853.1	38.7
35°	3339.3	3328.8	3310.0	3242.1	3096.7	2859.4	2400.4	1695.8	1046.5	571.9	25.1
37.5°	3293.3	3269.2	3232.7	3110.3	2916.9	2592.8	1946.7	1248.3	712.0	370.1	14.6
40°	3123.9	3091.5	3034.0	2884.5	2630.5	2137.0	1439.6	843.7	467.3	213.3	4.2
42.5°	2685.9	2644.0	2602.2	2434.9	2144.3	1593.3	947.2	521.7	266.6	117.1	1.0
45°	1841.1	1788.8	1731.3	1610.1	1376.9	965.0	563.5	293.8	138.0	65.9	1.0
47.5°	1278.6	1254.6	1154.2	999.5	766.3	511.2	291.7	144.3	73.2	30.3	1.0
50°	868.8	841.6	724.5	575.0	407.7	244.6	133.8	72.1	32.4	7.3	1.0
52.5°	455.8	422.4	348.1	265.6	165.2	102.5	58.5	31.4	9.4	1.0	1.0
55°	66.9	61.7	50.2	40.8	36.6	28.2	16.7	7.3	1.0	1.0	2.1
57.5°	2.1	2.1	2.1	2.1	3.1	3.1	2.1	1.0	1.0	1.0	2.1
60°	2.1	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	2.1
62.5°	2.1	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	2.1
65°	2.1	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	2.1
67.5°	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	2.1	3.1
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.1
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	3.1
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.1
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	3.1
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
82.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	3.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.1
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°	146.4	146.4	146.4	146.4	146.4
2.5°	144.3	106.6	82.6	71.1	70.0
5°	130.7	76.3	50.2	38.7	36.6
7.5°	110.8	53.3	29.3	20.9	19.9
10°	91.0	36.6	17.8	14.6	13.6
12.5°	72.1	24.0	12.5	11.5	10.5
15°	55.4	15.7	9.4	8.4	8.4
17.5°	41.8	10.5	7.3	7.3	7.3
20°	31.4	7.3	5.2	6.3	6.3
22.5°	22.0	5.2	4.2	5.2	5.2
25°	15.7	4.2	4.2	5.2	5.2
27.5°	10.5	3.1	3.1	4.2	5.2
30°	6.3	2.1	3.1	4.2	5.2
32.5°	3.1	2.1	3.1	5.2	5.2
35°	2.1	3.1	4.2	5.2	6.3
37.5°	1.0	3.1	4.2	6.3	6.3
40°	1.0	3.1	4.2	6.3	7.3
42.5°	2.1	4.2	5.2	7.3	8.4
45°	2.1	4.2	6.3	8.4	9.4
47.5°	2.1	4.2	7.3	9.4	9.4
50°	3.1	5.2	7.3	9.4	10.5
52.5°	3.1	5.2	7.3	10.5	11.5
55°	3.1	5.2	8.4	10.5	11.5
57.5°	3.1	6.3	8.4	10.5	11.5
60°	3.1	5.2	8.4	10.5	11.5
62.5°	4.2	5.2	7.3	10.5	10.5
65°	4.2	5.2	7.3	10.5	10.5
67.5°	4.2	5.2	7.3	9.4	9.4
70°	4.2	5.2	6.3	8.4	8.4
72.5°	4.2	5.2	6.3	7.3	8.4
75°	3.1	4.2	5.2	6.3	7.3
77.5°	3.1	4.2	4.2	6.3	6.3
80°	3.1	3.1	3.1	4.2	4.2
82.5°	3.1	3.1	2.1	3.1	3.1
85°	3.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)