

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: P1336911

Luminaire Tested: P3A05R209730DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R209730DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

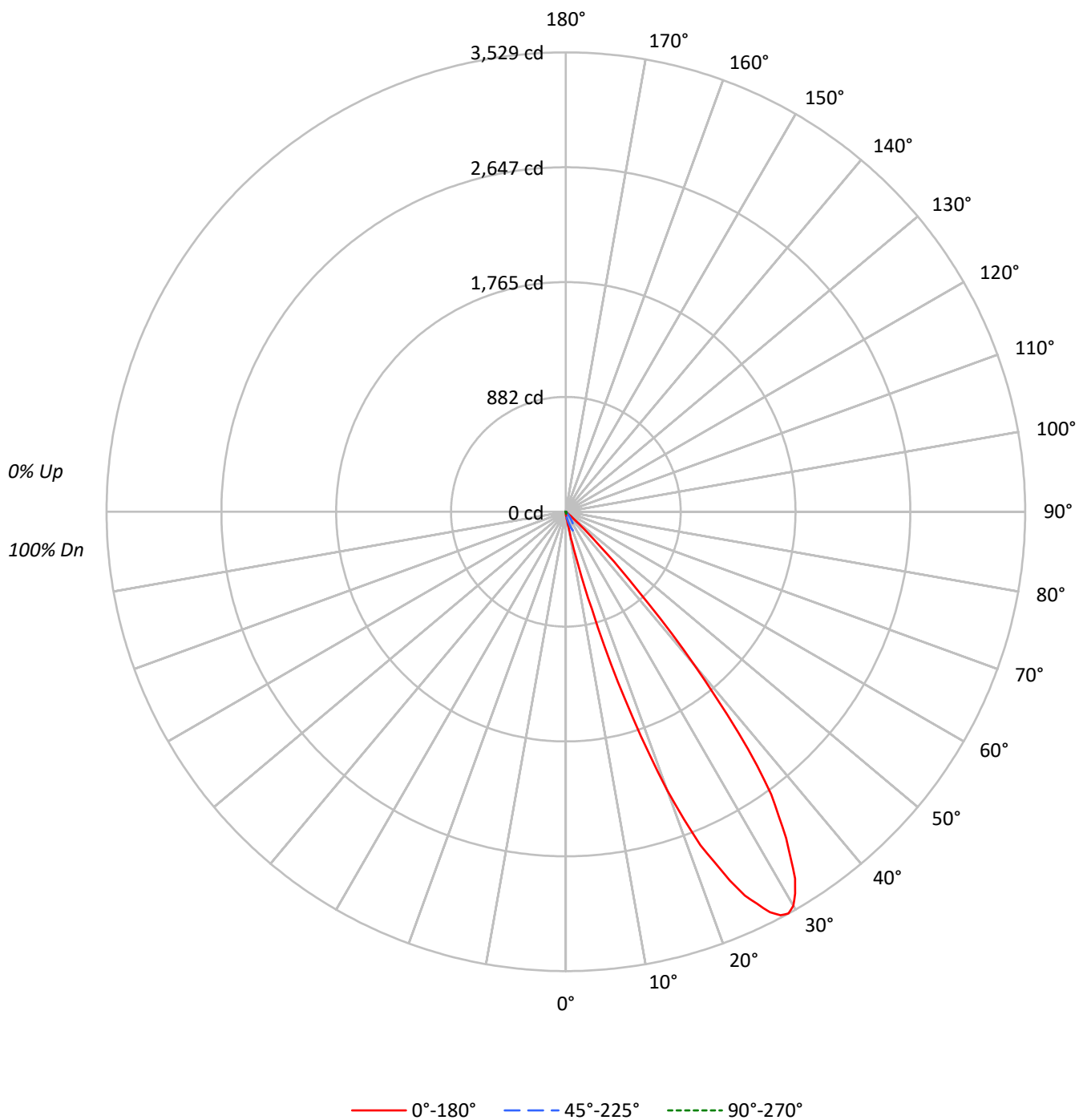
Lumens per Lamp: N/A
Luminaire Lumens: 494.9 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	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	76	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	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	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3750	3750	3750	3750	3750
5°	8607	6427	3566	2179	1871
10°	27098	11200	2895	1202	891
15°	175552	20704	2134	409	91
20°	529853	35423	1470	0	0
25°	786892	35736	871	0	0
30°	884896	27169	329	0	0
35°	763485	16222	241	0	0
40°	439652	5525	0	0	0
45°	107236	2233	124	0	124
50°	12861	614	136	136	443
55°	1720	0	344	344	688
60°	175	0	570	570	965
65°	208	208	934	934	1401
70°	256	256	1154	1154	1410
75°	0	339	1525	1101	1525
80°	0	505	1642	1137	1642
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 107918 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.5
10°-20°	45.9	9.3
20°-30°	199.9	40.4
30°-40°	201.4	40.7
40°-50°	40.4	8.2
50°-60°	2.0	0.4
60°-70°	1.3	0.3
70°-80°	1.2	0.2
80°-90°	0.6	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°	248.1	50.1
0°-40°	449.5	90.8
0°-60°	491.9	99.4
0°-90°	494.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	494.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	39	29	16	10	8	6
15°	773	91	9	2	0	303
25°	3252	148	4	0	0	1466
35°	2852	61	1	0	0	1697
45°	346	7	0	0	0	376
55°	4	0	1	1	2	8
65°	0	0	2	2	3	0
75°	0	0	2	1	2	0
85°	0	0	1	0	0	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°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
2.5°	25.6	25.6	25.1	25.1	24.7	25.1	24.3	24.7	24.7	24.3	22.0
5°	39.1	40.0	39.5	39.5	39.1	39.5	38.6	37.7	36.8	36.8	29.2
7.5°	64.2	63.8	62.9	63.3	62.0	61.1	60.2	59.7	57.0	55.7	38.2
10°	121.7	124.4	122.2	121.7	113.6	113.2	107.8	100.1	93.4	89.8	50.3
12.5°	335.0	349.4	326.9	316.2	309.9	285.6	275.3	248.8	223.2	203.9	63.8
15°	773.3	808.8	763.4	766.6	728.9	659.7	599.1	547.0	485.5	423.5	91.2
17.5°	1515.2	1486.5	1461.8	1420.0	1343.2	1241.7	1111.0	978.6	864.0	744.1	127.1
20°	2270.6	2245.0	2188.8	2097.7	1999.8	1849.3	1693.9	1495.0	1302.3	1121.8	151.8
21°	2530.6	2522.0	2430.0	2373.8	2223.0	2079.3	1900.1	1687.2	1470.3	1256.5	155.8
22°	2762.8	2711.6	2662.2	2579.1	2429.1	2272.8	2073.4	1849.3	1614.0	1376.4	156.3
23°	2923.5	2900.2	2853.5	2759.6	2610.5	2426.8	2216.7	1982.2	1734.4	1461.3	154.9
24°	3101.4	3071.7	3003.5	2893.9	2743.4	2562.0	2322.2	2089.6	1820.1	1532.7	151.3
25°	3252.3	3206.0	3125.2	3007.1	2842.7	2655.4	2414.3	2158.7	1879.9	1580.8	147.7
26°	3350.2	3325.0	3221.3	3092.8	2916.8	2723.7	2477.6	2211.7	1918.5	1602.8	141.9
27°	3452.1	3405.8	3303.9	3156.2	2965.3	2768.1	2513.5	2237.3	1932.0	1603.7	134.7
28°	3510.5	3460.2	3344.8	3189.4	2996.7	2792.8	2534.2	2245.4	1929.3	1589.8	126.2
29°	3528.9	3465.6	3352.8	3194.8	3004.4	2794.6	2531.0	2233.7	1905.5	1555.6	116.3
30°	3494.8	3430.1	3323.2	3169.2	2980.1	2772.2	2501.8	2195.1	1863.2	1506.7	107.3
31°	3420.2	3365.4	3262.1	3107.6	2926.2	2719.6	2435.8	2131.8	1791.4	1441.1	97.0
32°	3321.9	3268.0	3166.5	3026.8	2842.2	2633.9	2345.6	2033.0	1707.0	1343.2	86.7
33°	3174.1	3143.1	3052.0	2918.6	2734.0	2511.3	2224.3	1914.9	1586.6	1234.5	77.7
34°	3024.6	2985.5	2921.7	2775.8	2577.3	2355.0	2066.2	1751.9	1439.8	1112.8	69.2
35°	2852.1	2828.8	2728.6	2611.9	2412.5	2185.2	1898.3	1593.3	1268.7	977.2	60.6
36°	2685.1	2649.1	2535.1	2411.6	2218.0	1972.4	1689.0	1402.5	1120.9	850.1	51.6
37°	2442.6	2387.8	2306.5	2176.3	1949.9	1740.6	1482.0	1216.1	939.0	712.7	41.8
38°	2157.4	2131.8	2019.1	1887.9	1700.7	1502.2	1246.2	1020.8	774.7	595.0	31.9
39°	1821.0	1820.6	1712.8	1618.0	1434.8	1256.1	1025.3	828.6	639.5	479.2	24.7
40°	1535.9	1482.9	1416.4	1297.4	1156.8	1005.0	803.0	648.5	496.2	386.2	19.3
42.5°	805.2	800.7	761.6	672.3	593.7	504.3	401.0	334.1	261.4	212.9	12.1
45°	345.8	348.0	321.1	307.6	277.1	239.8	202.5	168.9	144.6	117.2	7.2
47.5°	87.6	84.0	83.1	86.2	86.2	83.5	75.0	70.5	65.1	59.7	4.0
50°	37.7	36.8	35.9	35.9	33.7	32.3	30.1	27.4	25.1	22.5	1.8
52.5°	13.9	14.4	14.8	14.4	14.4	13.9	13.9	13.5	12.1	10.8	0.9
55°	4.5	4.5	4.5	4.9	4.9	5.4	5.4	5.4	5.4	4.9	0.0
57.5°	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.8	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.0	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4



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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	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	17.1	17.1	17.1	17.1	17.1	17.1
2.5°	19.8	17.5	14.8	12.6	12.1	11.7
5°	22.0	16.2	12.1	9.9	9.0	8.5
7.5°	23.8	14.8	9.9	7.2	6.3	5.8
10°	24.7	13.0	8.1	5.4	4.0	4.0
12.5°	25.1	11.2	5.8	3.6	2.2	2.2
15°	24.7	9.4	4.5	1.8	0.4	0.4
17.5°	22.5	7.6	2.7	0.4	0.0	0.0
20°	19.3	6.3	1.8	0.0	0.0	0.0
21°	18.4	5.4	1.3	0.0	0.0	0.0
22°	17.1	4.9	0.9	0.0	0.0	0.0
23°	15.7	4.5	0.9	0.0	0.0	0.0
24°	14.4	4.0	0.4	0.0	0.0	0.0
25°	13.5	3.6	0.4	0.0	0.0	0.0
26°	12.6	3.1	0.4	0.0	0.0	0.0
27°	11.2	2.7	0.0	0.0	0.0	0.0
28°	10.3	2.2	0.0	0.0	0.0	0.0
29°	9.0	1.8	0.0	0.0	0.0	0.0
30°	7.6	1.3	0.0	0.0	0.0	0.0
31°	6.3	1.3	0.0	0.0	0.0	0.0
32°	5.4	0.9	0.0	0.0	0.0	0.0
33°	4.5	0.9	0.0	0.0	0.0	0.0
34°	4.0	0.9	0.0	0.0	0.0	0.0
35°	3.6	0.9	0.0	0.0	0.0	0.0
36°	2.7	0.4	0.0	0.0	0.0	0.0
37°	2.2	0.4	0.0	0.0	0.0	0.0
38°	1.8	0.4	0.0	0.0	0.0	0.0
39°	1.3	0.0	0.0	0.0	0.0	0.0
40°	1.3	0.0	0.0	0.0	0.0	0.0
42.5°	0.4	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.4	0.0	0.0	0.4	0.4
47.5°	0.0	0.4	0.0	0.0	0.4	0.9
50°	0.0	0.4	0.4	0.4	0.9	1.3
52.5°	0.0	0.9	0.4	0.4	1.3	1.3
55°	0.4	0.9	0.4	0.9	1.8	1.8
57.5°	0.4	0.9	0.9	1.3	1.8	2.2
60°	0.9	1.3	1.3	1.3	2.2	2.2
62.5°	0.9	1.3	1.8	1.8	2.2	2.7
65°	0.9	1.8	1.8	1.8	2.2	2.7
67.5°	1.3	1.8	1.8	1.8	2.2	2.7
70°	1.3	1.8	1.8	1.8	2.2	2.2
72.5°	1.3	1.8	1.3	1.8	1.8	2.2
75°	1.3	1.8	1.3	1.3	1.8	1.8
77.5°	0.9	1.3	1.3	0.9	1.3	1.3
80°	0.9	1.3	0.9	0.9	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.9	1.3	0.9	0.4	0.9	0.9
85°	0.9	1.3	0.9	0.4	0.4	0.4
87.5°	0.9	1.3	0.9	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)