

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: P1336823

Luminaire Tested: P3A05R209030D2WDE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336823
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: P3A05R209030D2WDE010 E3CA301MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

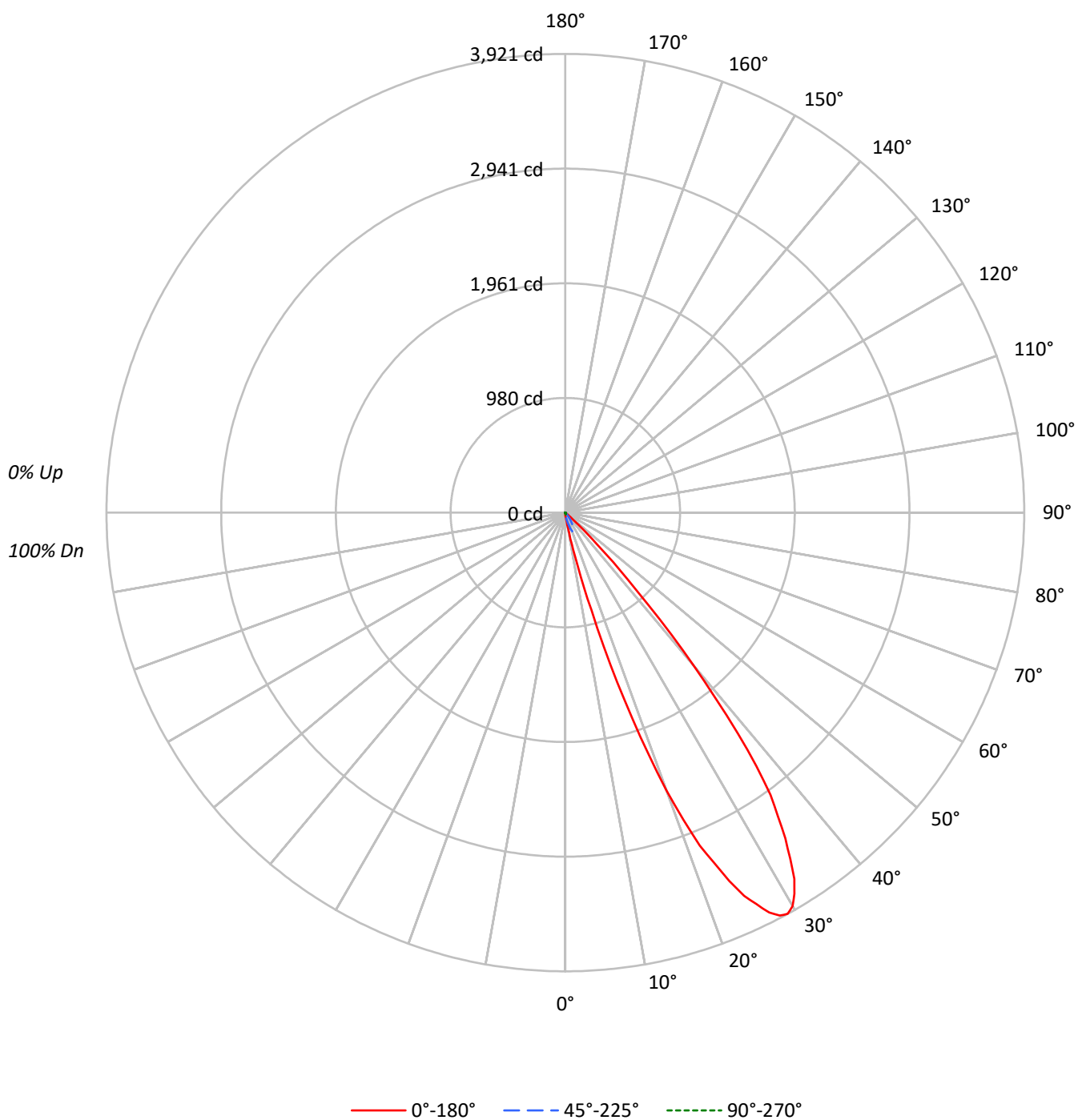
Lumens per Lamp: N/A
Luminaire Lumens: 550.0 lumens
Efficiency: N/A
Efficacy: 49.6 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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°	4166	4166	4166	4166	4166
5°	9553	7132	3962	2421	2091
10°	30104	12447	3229	1336	1002
15°	195052	22997	2384	454	114
20°	588705	39367	1633	0	0
25°	874309	39728	968	0	0
30°	983215	30207	380	0	0
35°	848317	18042	268	0	0
40°	488487	6154	0	0	0
45°	119144	2481	155	0	155
50°	14294	682	171	171	512
55°	1912	0	382	382	765
60°	219	0	658	658	1096
65°	259	259	1038	1038	1557
70°	321	321	1282	1282	1603
75°	0	424	1694	1271	1694
80°	0	631	1894	1263	1894
85°	0	1258	3774	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 119919 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.5
10°-20°	51.0	9.3
20°-30°	222.2	40.4
30°-40°	223.7	40.7
40°-50°	44.9	8.2
50°-60°	2.3	0.4
60°-70°	1.5	0.3
70°-80°	1.3	0.2
80°-90°	0.7	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°	275.7	50.1
0°-40°	499.4	90.8
0°-60°	546.5	99.4
0°-90°	550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	550.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	43	32	18	11	10	7
15°	859	101	10	2	0	337
25°	3614	164	4	0	0	1629
35°	3169	67	1	0	0	1886
45°	384	8	0	0	0	418
55°	5	0	1	1	2	9
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	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°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
2.5°	28.4	28.4	27.9	27.9	27.4	27.9	26.9	27.4	27.4	26.9	24.5
5°	43.4	44.4	43.9	43.9	43.4	43.9	42.9	41.9	40.9	40.9	32.4
7.5°	71.4	70.9	69.9	70.4	68.9	67.9	66.9	66.4	63.4	61.9	42.4
10°	135.2	138.2	135.7	135.2	126.2	125.7	119.8	111.3	103.8	99.8	55.9
12.5°	372.2	388.2	363.3	351.3	344.3	317.4	305.9	276.4	248.0	226.5	70.9
15°	859.2	898.7	848.3	851.8	809.8	733.0	665.6	607.8	539.4	470.5	101.3
17.5°	1683.6	1651.6	1624.2	1577.8	1492.5	1379.7	1234.5	1087.3	960.0	826.8	141.2
20°	2522.8	2494.4	2432.0	2330.7	2222.0	2054.8	1882.2	1661.1	1447.0	1246.5	168.7
21°	2811.8	2802.3	2700.0	2637.6	2470.0	2310.3	2111.2	1874.7	1633.7	1396.1	173.1
22°	3069.7	3012.8	2958.0	2865.6	2699.0	2525.3	2303.8	2054.8	1793.3	1529.4	173.6
23°	3248.4	3222.4	3170.5	3066.2	2900.6	2696.5	2463.0	2202.5	1927.1	1623.7	172.1
24°	3446.0	3413.0	3337.2	3215.4	3048.3	2846.7	2580.2	2321.8	2022.4	1703.0	168.2
25°	3613.6	3562.2	3472.4	3341.2	3158.5	2950.5	2682.5	2398.6	2088.7	1756.4	164.2
26°	3722.4	3694.5	3579.2	3436.5	3240.9	3026.3	2752.9	2457.5	2131.6	1780.9	157.7
27°	3835.7	3784.3	3671.0	3506.8	3294.8	3075.7	2792.8	2485.9	2146.6	1781.9	149.7
28°	3900.5	3844.6	3716.4	3543.8	3329.7	3103.2	2815.7	2494.9	2143.6	1766.4	140.2
29°	3921.0	3850.6	3725.4	3549.7	3338.2	3105.2	2812.3	2481.9	2117.2	1728.5	129.2
30°	3883.1	3811.2	3692.5	3521.3	3311.2	3080.2	2779.8	2439.0	2070.3	1674.1	119.3
31°	3800.2	3739.4	3624.6	3452.9	3251.4	3021.8	2706.5	2368.7	1990.4	1601.2	107.8
32°	3691.0	3631.1	3518.3	3363.1	3158.0	2926.5	2606.2	2258.9	1896.6	1492.5	96.3
33°	3526.8	3492.4	3391.1	3242.9	3037.8	2790.3	2471.4	2127.7	1762.9	1371.7	86.3
34°	3360.6	3317.2	3246.4	3084.2	2863.6	2616.7	2295.8	1946.5	1599.7	1236.5	76.8
35°	3169.0	3143.1	3031.8	2902.1	2680.5	2428.0	2109.2	1770.4	1409.6	1085.8	67.4
36°	2983.4	2943.5	2816.7	2679.5	2464.5	2191.5	1876.7	1558.3	1245.5	944.6	57.4
37°	2714.0	2653.1	2562.8	2418.1	2166.6	1934.0	1646.6	1351.2	1043.4	791.9	46.4
38°	2397.1	2368.7	2243.4	2097.7	1889.6	1669.1	1384.7	1134.2	860.7	661.1	35.4
39°	2023.4	2022.9	1903.1	1797.8	1594.2	1395.6	1139.2	920.6	710.5	532.4	27.4
40°	1706.5	1647.6	1573.8	1441.6	1285.4	1116.7	892.2	720.5	551.4	429.1	21.5
42.5°	894.7	889.7	846.3	747.0	659.7	560.4	445.6	371.2	290.4	236.5	13.5
45°	384.2	386.7	356.8	341.8	307.9	266.5	225.0	187.6	160.7	130.2	8.0
47.5°	97.3	93.3	92.3	95.8	95.8	92.8	83.3	78.3	72.4	66.4	4.5
50°	41.9	40.9	39.9	39.9	37.4	35.9	33.4	30.4	27.9	24.9	2.0
52.5°	15.5	16.0	16.5	16.0	16.0	15.5	15.5	15.0	13.5	12.0	1.0
55°	5.0	5.0	5.0	5.5	5.5	6.0	6.0	6.0	6.0	5.5	0.0
57.5°	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.0	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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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	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	19.0	19.0	19.0	19.0	19.0	19.0
2.5°	22.0	19.5	16.5	14.0	13.5	13.0
5°	24.5	18.0	13.5	11.0	10.0	9.5
7.5°	26.4	16.5	11.0	8.0	7.0	6.5
10°	27.4	14.5	9.0	6.0	4.5	4.5
12.5°	27.9	12.5	6.5	4.0	2.5	2.5
15°	27.4	10.5	5.0	2.0	0.5	0.5
17.5°	24.9	8.5	3.0	0.5	0.0	0.0
20°	21.5	7.0	2.0	0.0	0.0	0.0
21°	20.5	6.0	1.5	0.0	0.0	0.0
22°	19.0	5.5	1.0	0.0	0.0	0.0
23°	17.5	5.0	1.0	0.0	0.0	0.0
24°	16.0	4.5	0.5	0.0	0.0	0.0
25°	15.0	4.0	0.5	0.0	0.0	0.0
26°	14.0	3.5	0.5	0.0	0.0	0.0
27°	12.5	3.0	0.0	0.0	0.0	0.0
28°	11.5	2.5	0.0	0.0	0.0	0.0
29°	10.0	2.0	0.0	0.0	0.0	0.0
30°	8.5	1.5	0.0	0.0	0.0	0.0
31°	7.0	1.5	0.0	0.0	0.0	0.0
32°	6.0	1.0	0.0	0.0	0.0	0.0
33°	5.0	1.0	0.0	0.0	0.0	0.0
34°	4.5	1.0	0.0	0.0	0.0	0.0
35°	4.0	1.0	0.0	0.0	0.0	0.0
36°	3.0	0.5	0.0	0.0	0.0	0.0
37°	2.5	0.5	0.0	0.0	0.0	0.0
38°	2.0	0.5	0.0	0.0	0.0	0.0
39°	1.5	0.0	0.0	0.0	0.0	0.0
40°	1.5	0.0	0.0	0.0	0.0	0.0
42.5°	0.5	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.5	0.0	0.0	0.5	0.5
47.5°	0.0	0.5	0.0	0.0	0.5	1.0
50°	0.0	0.5	0.5	0.5	1.0	1.5
52.5°	0.0	1.0	0.5	0.5	1.5	1.5
55°	0.5	1.0	0.5	1.0	2.0	2.0
57.5°	0.5	1.0	1.0	1.5	2.0	2.5
60°	1.0	1.5	1.5	1.5	2.5	2.5
62.5°	1.0	1.5	2.0	2.0	2.5	3.0
65°	1.0	2.0	2.0	2.0	2.5	3.0
67.5°	1.5	2.0	2.0	2.0	2.5	3.0
70°	1.5	2.0	2.0	2.0	2.5	2.5
72.5°	1.5	2.0	1.5	2.0	2.0	2.5
75°	1.5	2.0	1.5	1.5	2.0	2.0
77.5°	1.0	1.5	1.5	1.0	1.5	1.5
80°	1.0	1.5	1.0	1.0	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.0	1.5	1.0	0.5	1.0	1.0
85°	1.0	1.5	1.0	0.5	0.5	0.5
87.5°	1.0	1.5	1.0	0.5	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)