

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: P1336837

Luminaire Tested: P3A05R209030DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336837
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: P3A05R209030DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

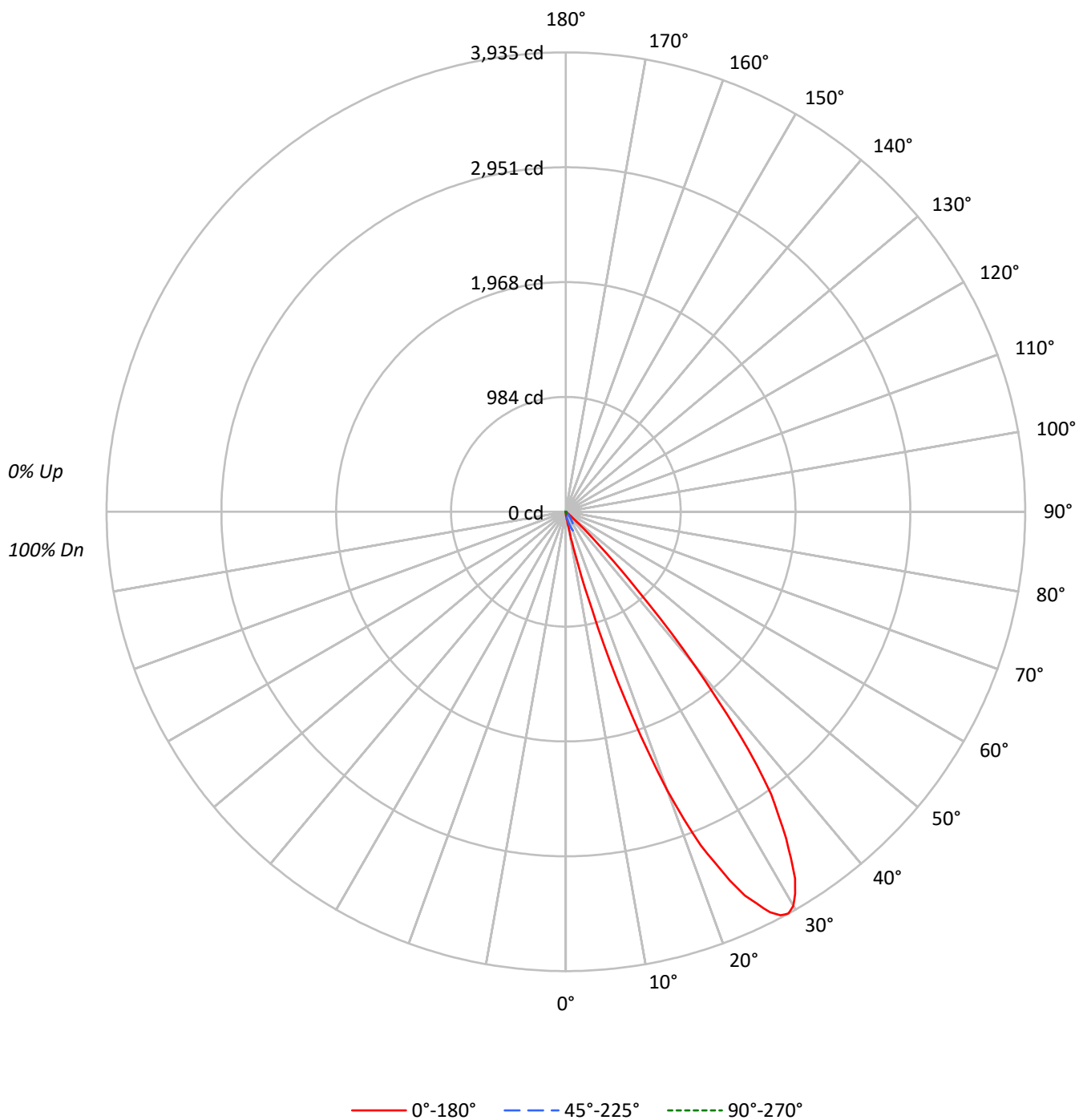
Lumens per Lamp: N/A
Luminaire Lumens: 552.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	4166	4166	4166	4166	4166
5°	9597	7176	3962	2421	2091
10°	30215	12491	3229	1336	1002
15°	195779	23088	2384	454	114
20°	590851	39507	1633	0	0
25°	877502	39873	968	0	0
30°	986785	30308	380	0	0
35°	851395	18096	268	0	0
40°	490261	6154	0	0	0
45°	119578	2481	155	0	155
50°	14362	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: 120354 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.5
10°-20°	51.2	9.3
20°-30°	223.0	40.4
30°-40°	224.5	40.7
40°-50°	45.0	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°	276.7	50.1
0°-40°	501.2	90.8
0°-60°	548.5	99.4
0°-90°	552.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	552.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	44	33	18	11	10	7
15°	862	102	10	2	0	338
25°	3627	165	4	0	0	1635
35°	3180	68	1	0	0	1892
45°	386	8	0	0	0	420
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°	28.5	28.5	28.0	28.0	27.5	28.0	27.0	27.5	27.5	27.0	24.5
5°	43.6	44.6	44.1	44.1	43.6	44.1	43.1	42.1	41.1	41.1	32.6
7.5°	71.6	71.1	70.1	70.6	69.1	68.1	67.1	66.6	63.6	62.1	42.6
10°	135.7	138.7	136.2	135.7	126.7	126.2	120.2	111.7	104.2	100.2	56.1
12.5°	373.6	389.6	364.6	352.6	345.5	318.5	307.0	277.4	248.9	227.4	71.1
15°	862.4	901.9	851.4	854.9	812.8	735.7	668.1	610.0	541.4	472.2	101.7
17.5°	1689.7	1657.6	1630.1	1583.5	1497.9	1384.7	1239.0	1091.2	963.5	829.8	141.7
20°	2532.0	2503.5	2440.9	2339.2	2230.0	2062.3	1889.0	1667.1	1452.3	1251.0	169.3
21°	2822.0	2812.5	2709.8	2647.2	2478.9	2318.7	2118.9	1881.5	1639.6	1401.2	173.8
22°	3080.9	3023.8	2968.7	2876.1	2708.8	2534.5	2312.2	2062.3	1799.9	1534.9	174.3
23°	3260.2	3234.1	3182.1	3077.4	2911.1	2706.3	2471.9	2210.5	1934.1	1629.6	172.8
24°	3458.5	3425.4	3349.3	3227.1	3059.4	2857.0	2589.6	2330.2	2029.7	1709.2	168.8
25°	3626.8	3575.2	3485.0	3353.3	3170.0	2961.2	2692.3	2407.3	2096.3	1762.8	164.8
26°	3735.9	3707.9	3592.2	3449.0	3252.7	3037.3	2762.9	2466.4	2139.4	1787.3	158.3
27°	3849.6	3798.0	3684.3	3519.6	3306.7	3086.9	2802.9	2495.0	2154.4	1788.3	150.2
28°	3914.7	3858.6	3729.9	3556.6	3341.8	3114.4	2826.0	2504.0	2151.4	1772.8	140.7
29°	3935.2	3864.6	3738.9	3562.7	3350.3	3116.4	2822.5	2491.0	2124.9	1734.8	129.7
30°	3897.2	3825.1	3705.9	3534.1	3323.3	3091.4	2789.9	2447.9	2077.8	1680.2	119.7
31°	3814.1	3753.0	3637.8	3465.5	3263.2	3032.8	2716.3	2377.3	1997.7	1607.1	108.2
32°	3704.4	3644.3	3531.1	3375.4	3169.5	2937.2	2615.7	2267.1	1903.5	1497.9	96.7
33°	3539.6	3505.1	3403.4	3254.7	3048.8	2800.4	2480.4	2135.4	1769.3	1376.7	86.6
34°	3372.9	3329.3	3258.2	3095.4	2874.1	2626.2	2304.2	1953.6	1605.5	1241.0	77.1
35°	3180.5	3154.5	3042.8	2912.6	2690.3	2436.9	2116.9	1776.8	1414.7	1089.7	67.6
36°	2994.3	2954.2	2827.0	2689.3	2473.4	2199.5	1883.5	1564.0	1250.0	948.0	57.6
37°	2723.8	2662.7	2572.1	2426.9	2174.5	1941.1	1652.6	1356.2	1047.2	794.8	46.6
38°	2405.8	2377.3	2251.6	2105.3	1896.5	1675.2	1389.7	1138.3	863.9	663.6	35.6
39°	2030.7	2030.2	1910.0	1804.4	1600.0	1400.7	1143.3	924.0	713.1	534.3	27.5
40°	1712.7	1653.6	1579.5	1446.8	1290.0	1120.8	895.4	723.1	553.4	430.7	21.5
42.5°	897.9	892.9	849.3	749.7	662.1	562.4	447.2	372.6	291.5	237.4	13.5
45°	385.6	388.1	358.1	343.0	309.0	267.4	225.9	188.3	161.3	130.7	8.0
47.5°	97.7	93.6	92.6	96.2	96.2	93.1	83.6	78.6	72.6	66.6	4.5
50°	42.1	41.1	40.1	40.1	37.6	36.1	33.6	30.5	28.0	25.0	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°	26.5	16.5	11.0	8.0	7.0	6.5
10°	27.5	14.5	9.0	6.0	4.5	4.5
12.5°	28.0	12.5	6.5	4.0	2.5	2.5
15°	27.5	10.5	5.0	2.0	0.5	0.5
17.5°	25.0	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)