

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: P1336307

Luminaire Tested: P3A05R159027DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R159027DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

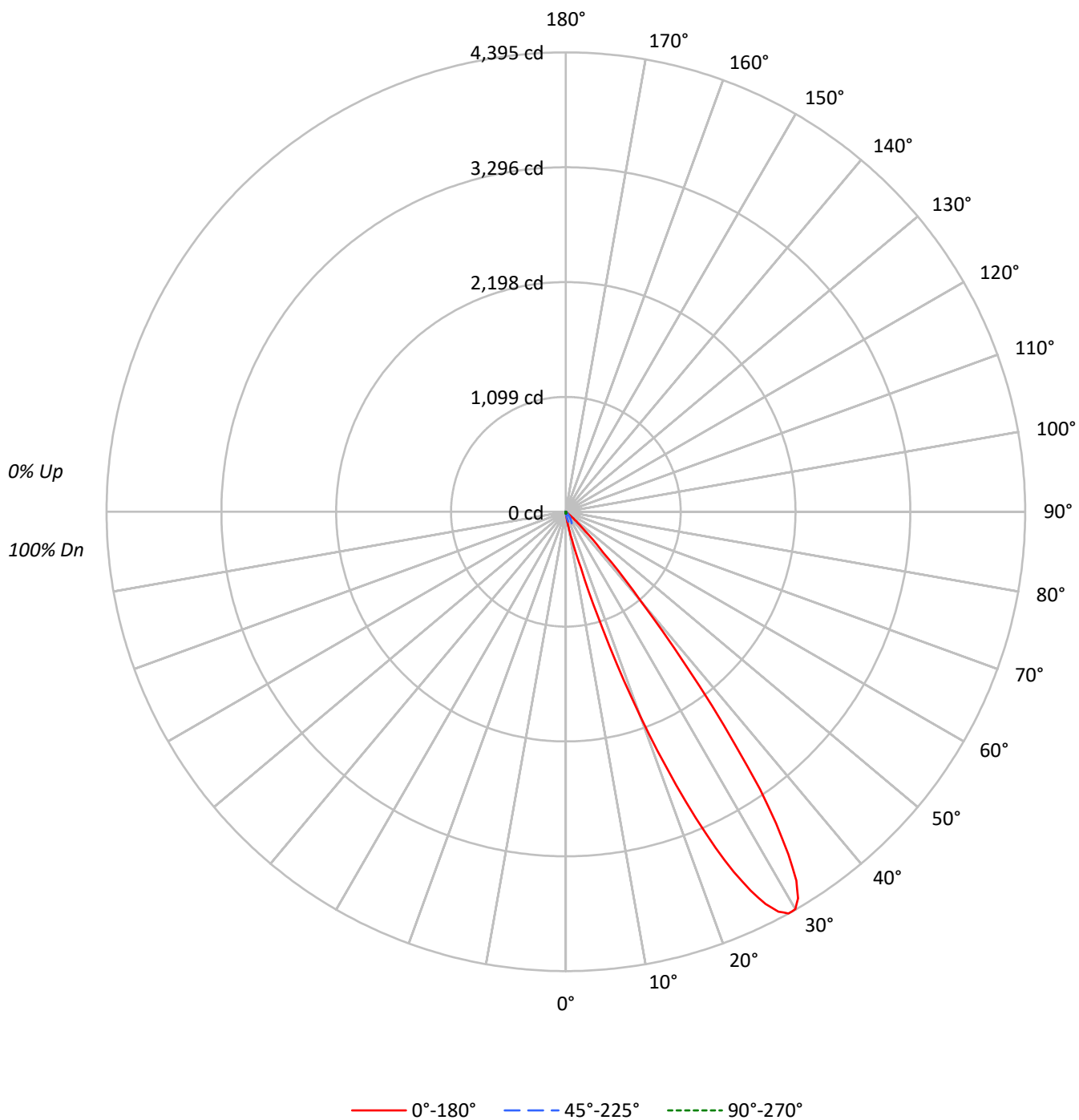
Lumens per Lamp: N/A
Luminaire Lumens: 480.0 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	47	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	42	41		
10	62	51	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°	3487	3487	3487	3487	3487
5°	7506	5547	3280	1739	1431
10°	33266	10510	2605	735	512
15°	125812	24268	1793	318	204
20°	483882	34210	1097	117	117
25°	920158	32082	556	0	0
30°	1111563	25903	228	0	0
35°	866948	17614	134	0	0
40°	316364	8673	143	0	143
45°	81218	2605	155	0	279
50°	13714	307	171	171	478
55°	1797	0	344	535	879
60°	219	219	614	833	1228
65°	259	259	986	1193	1453
70°	321	321	1218	1218	1475
75°	424	424	1610	1186	1610
80°	0	631	1768	1137	1768
85°	0	1258	3522	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 81218 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.5
10°-20°	36.8	7.7
20°-30°	204.0	42.5
30°-40°	197.1	41.1
40°-50°	34.3	7.1
50°-60°	2.5	0.5
60°-70°	1.5	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°	243.0	50.6
0°-40°	440.0	91.7
0°-60°	476.8	99.3
0°-90°	480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	480.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	34	25	15	8	6	7
15°	554	107	8	1	1	247
25°	3803	133	2	0	0	1700
35°	3239	66	0	0	0	1863
45°	262	8	0	0	1	281
55°	5	0	1	1	2	9
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°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
2.5°	23.3	22.4	22.9	22.9	22.9	22.9	22.9	21.9	21.9	22.4	20.1
5°	34.1	34.1	33.6	34.1	34.1	33.6	32.7	32.2	32.2	31.3	25.2
7.5°	68.2	67.2	67.2	66.3	61.6	60.2	59.3	57.0	52.8	51.8	32.7
10°	149.4	149.9	146.6	142.4	141.9	134.9	132.6	128.4	120.5	112.5	47.2
12.5°	271.3	265.2	257.3	257.7	244.2	239.5	228.8	217.1	205.0	192.4	77.5
15°	554.2	537.0	547.2	522.0	493.5	461.3	428.6	387.5	352.5	315.2	106.9
17.5°	1167.3	1184.1	1155.6	1047.8	981.5	903.5	793.8	687.8	597.2	524.4	130.7
20°	2073.6	2098.3	2001.7	1907.8	1746.7	1571.2	1388.2	1180.8	982.4	810.6	146.6
21°	2452.3	2437.3	2397.6	2247.3	2061.4	1857.9	1633.8	1405.0	1164.5	941.3	148.0
22°	2818.3	2825.3	2732.9	2575.5	2382.2	2156.7	1883.1	1600.6	1341.5	1047.8	145.7
23°	3183.0	3205.4	3083.1	2935.5	2692.3	2437.8	2121.2	1816.3	1496.0	1169.6	141.0
24°	3520.6	3505.2	3422.5	3236.7	2976.6	2678.7	2350.0	1980.2	1623.0	1273.8	137.3
25°	3803.1	3801.2	3671.4	3490.7	3193.3	2863.1	2500.8	2114.2	1731.8	1344.3	132.6
26°	4034.2	3996.4	3894.1	3673.7	3380.0	3031.7	2624.6	2211.8	1793.0	1379.7	127.9
27°	4212.5	4185.5	4048.2	3818.9	3512.2	3127.0	2703.9	2260.4	1821.0	1391.4	121.9
28°	4332.5	4303.1	4157.0	3920.7	3585.0	3186.7	2746.0	2280.9	1821.0	1380.2	116.3
29°	4394.6	4354.5	4208.8	3955.7	3601.8	3193.7	2735.7	2260.8	1792.5	1345.7	109.7
30°	4390.0	4340.0	4187.3	3924.0	3551.9	3136.3	2678.2	2188.5	1728.1	1294.3	102.3
31°	4314.3	4258.3	4087.9	3816.6	3448.7	3028.0	2569.9	2091.3	1639.8	1227.5	94.8
32°	4160.7	4089.7	3923.5	3653.2	3289.9	2866.0	2412.6	1941.5	1507.7	1129.9	86.8
33°	3910.4	3839.0	3660.6	3407.1	3075.1	2660.5	2203.9	1780.4	1357.3	1013.7	80.3
34°	3597.1	3531.8	3378.2	3122.8	2804.3	2400.4	1963.9	1557.6	1201.4	898.4	73.3
35°	3238.6	3134.4	2995.3	2793.1	2482.6	2076.4	1704.7	1350.3	1040.8	777.4	65.8
36°	2753.4	2772.1	2624.6	2377.1	2119.8	1801.4	1444.6	1125.7	870.3	662.6	59.3
37°	2323.4	2294.0	2200.1	2008.7	1784.6	1468.5	1210.7	954.4	732.1	560.3	52.3
38°	1874.2	1880.8	1788.8	1641.7	1419.4	1207.5	974.5	784.0	612.6	476.7	45.8
39°	1467.1	1461.9	1437.2	1300.8	1099.6	960.5	789.6	650.0	510.3	402.0	38.8
40°	1105.2	1113.6	1055.7	973.5	856.3	741.9	628.9	518.3	422.1	339.0	30.3
42.5°	537.4	550.5	512.2	491.2	439.4	394.5	332.9	271.7	231.1	199.8	13.5
45°	261.9	254.5	251.2	240.9	228.8	204.5	181.2	155.5	135.9	117.2	8.4
47.5°	134.0	130.3	130.3	126.1	121.9	113.9	102.3	93.9	84.5	72.8	3.3
50°	40.2	39.7	39.2	39.7	38.3	39.7	40.6	41.1	37.4	36.9	0.9
52.5°	15.9	16.3	15.9	17.3	17.3	16.8	17.3	16.8	16.3	14.5	0.0
55°	4.7	4.7	4.7	4.7	4.7	4.7	5.1	5.6	5.1	5.6	0.0
57.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
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	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	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°	15.9	15.9	15.9	15.9	15.9	15.9
2.5°	18.7	16.3	13.5	11.2	10.3	9.8
5°	20.1	14.9	10.3	7.9	7.0	6.5
7.5°	21.5	13.5	7.9	5.6	4.2	3.7
10°	22.4	11.7	6.1	3.3	2.3	2.3
12.5°	22.4	9.3	4.2	1.9	1.4	1.4
15°	21.9	7.9	2.8	1.4	0.9	0.9
17.5°	21.5	6.1	1.9	0.9	0.5	0.9
20°	20.1	4.7	0.9	0.5	0.5	0.5
21°	19.6	4.2	0.9	0.5	0.5	0.5
22°	18.7	3.7	0.5	0.0	0.5	0.5
23°	17.7	2.8	0.5	0.0	0.0	0.0
24°	16.3	2.3	0.5	0.0	0.0	0.0
25°	15.4	2.3	0.5	0.0	0.0	0.0
26°	14.5	1.4	0.0	0.0	0.0	0.0
27°	13.1	0.9	0.0	0.0	0.0	0.0
28°	12.1	0.9	0.0	0.0	0.0	0.0
29°	10.7	0.9	0.0	0.0	0.0	0.0
30°	9.3	0.9	0.0	0.0	0.0	0.0
31°	7.5	0.5	0.0	0.0	0.0	0.0
32°	6.1	0.5	0.0	0.0	0.0	0.0
33°	4.2	0.5	0.0	0.0	0.0	0.0
34°	2.8	0.5	0.0	0.0	0.0	0.0
35°	2.3	0.5	0.0	0.0	0.0	0.0
36°	1.4	0.5	0.0	0.0	0.0	0.5
37°	1.4	0.5	0.0	0.0	0.0	0.5
38°	0.9	0.5	0.0	0.0	0.0	0.5
39°	0.5	0.5	0.0	0.0	0.0	0.5
40°	0.5	0.5	0.0	0.0	0.0	0.5
42.5°	0.0	0.5	0.0	0.0	0.5	0.9
45°	0.0	0.5	0.0	0.0	0.5	0.9
47.5°	0.0	0.5	0.0	0.0	0.9	0.9
50°	0.0	0.5	0.5	0.5	0.9	1.4
52.5°	0.0	0.9	0.5	0.9	1.4	1.9
55°	0.5	0.9	0.9	1.4	1.9	2.3
57.5°	0.5	1.4	1.4	1.9	2.3	2.3
60°	0.9	1.4	1.9	1.9	2.8	2.8
62.5°	0.9	1.9	1.9	1.9	2.8	2.8
65°	0.9	1.9	1.9	2.3	2.8	2.8
67.5°	0.9	1.9	1.9	1.9	2.3	2.8
70°	0.9	1.9	1.4	1.9	2.3	2.3
72.5°	0.9	1.9	1.4	1.4	1.9	2.3
75°	0.9	1.9	1.4	1.4	1.9	1.9
77.5°	0.9	1.4	1.4	0.9	1.4	1.4
80°	0.9	1.4	0.9	0.9	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.9	1.4	0.9	0.5	0.9	0.9
85°	0.9	1.4	0.9	0.5	0.5	0.5
87.5°	0.9	1.4	0.5	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)