

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: P1340457

Luminaire Tested: P3A09R209730DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340457
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: P3A09R209730DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

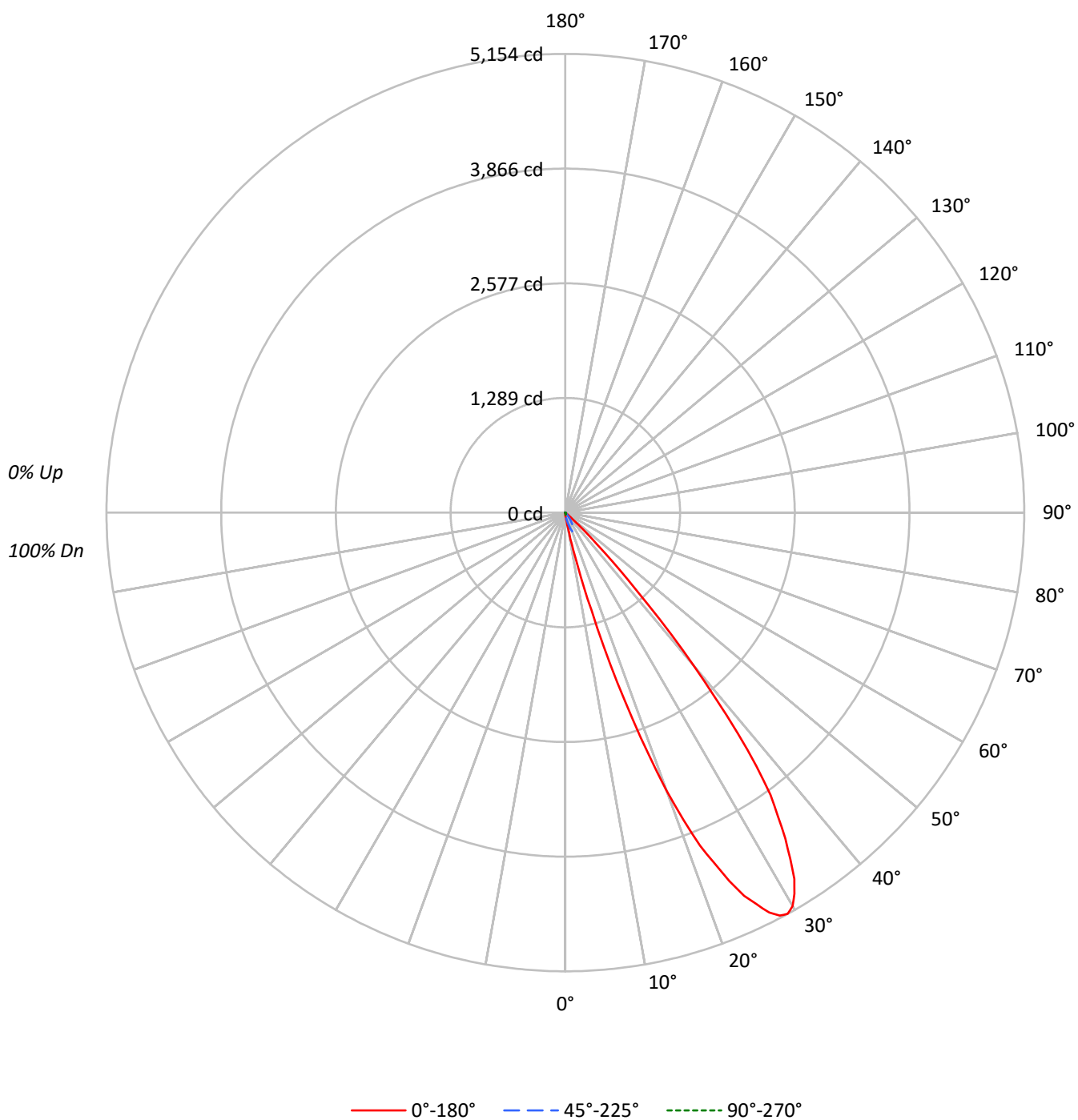
Lumens per Lamp: N/A
Luminaire Lumens: 723.1 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	5460	5460	5460	5460	5460
5°	12569	9377	5195	3170	2751
10°	39590	16366	4231	1759	1314
15°	256415	30239	3133	590	159
20°	773894	51734	2147	0	0
25°	1149333	52213	1258	0	0
30°	1292477	39702	506	0	0
35°	1115152	23718	348	0	0
40°	642146	8072	0	0	0
45°	156636	3256	217	0	217
50°	18797	887	239	239	682
55°	2523	0	497	497	994
60°	307	0	877	877	1447
65°	363	363	1349	1349	2024
70°	449	449	1667	1667	2116
75°	0	593	2203	1694	2203
80°	0	884	2526	1642	2526
85°	0	1761	5032	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 157629 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.5
10°-20°	67.0	9.3
20°-30°	292.0	40.4
30°-40°	294.1	40.7
40°-50°	59.0	8.2
50°-60°	3.0	0.4
60°-70°	2.0	0.3
70°-80°	1.7	0.2
80°-90°	0.9	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°	362.4	50.1
0°-40°	656.5	90.8
0°-60°	718.5	99.4
0°-90°	723.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	723.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	57	43	24	14	12	9
15°	1130	133	14	3	1	442
25°	4750	216	5	0	0	2142
35°	4166	89	1	0	0	2479
45°	505	10	1	0	1	550
55°	7	0	1	1	3	12
65°	1	1	3	3	4	1
75°	0	1	3	2	3	0
85°	0	1	2	1	1	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°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
2.5°	37.4	37.4	36.7	36.7	36.1	36.7	35.4	36.1	36.1	35.4	32.1
5°	57.1	58.4	57.7	57.7	57.1	57.7	56.4	55.1	53.8	53.8	42.6
7.5°	93.8	93.1	91.8	92.5	90.5	89.2	87.9	87.2	83.3	81.3	55.8
10°	177.8	181.7	178.4	177.8	166.0	165.3	157.4	146.3	136.4	131.2	73.5
12.5°	489.3	510.3	477.5	461.8	452.6	417.2	402.1	363.4	326.0	297.8	93.1
15°	1129.5	1181.3	1115.1	1119.7	1064.6	963.6	875.0	798.9	709.1	618.5	133.2
17.5°	2213.1	2171.1	2135.1	2074.1	1961.9	1813.7	1622.8	1429.3	1262.0	1086.9	185.6
20°	3316.4	3279.0	3197.0	3063.9	2920.9	2701.1	2474.2	2183.6	1902.2	1638.5	221.7
21°	3696.2	3683.7	3549.2	3467.3	3246.9	3037.0	2775.2	2464.3	2147.5	1835.3	227.6
22°	4035.3	3960.5	3888.4	3767.0	3547.9	3319.7	3028.4	2701.1	2357.4	2010.4	228.3
23°	4270.1	4236.0	4167.8	4030.7	3812.9	3544.7	3237.7	2895.3	2533.2	2134.4	226.3
24°	4529.9	4486.6	4386.9	4226.8	4007.1	3742.1	3391.8	3052.1	2658.5	2238.7	221.0
25°	4750.3	4682.7	4564.6	4392.1	4152.1	3878.5	3526.3	3153.1	2745.7	2308.9	215.8
26°	4893.3	4856.5	4705.0	4517.4	4260.3	3978.2	3618.8	3230.5	2802.1	2341.0	207.3
27°	5042.2	4974.6	4825.7	4609.9	4331.1	4043.2	3671.3	3267.9	2821.8	2342.3	196.8
28°	5127.4	5054.0	4885.4	4658.4	4377.0	4079.2	3701.4	3279.7	2817.9	2322.0	184.3
29°	5154.3	5061.8	4897.2	4666.3	4388.2	4081.9	3696.8	3262.6	2783.1	2272.1	169.9
30°	5104.5	5010.0	4853.9	4628.9	4352.8	4049.1	3654.2	3206.2	2721.5	2200.7	156.8
31°	4995.6	4915.6	4764.7	4539.1	4274.1	3972.3	3557.8	3113.7	2616.5	2104.9	141.7
32°	4851.9	4773.2	4625.0	4421.0	4151.4	3847.0	3425.9	2969.4	2493.2	1961.9	126.6
33°	4636.1	4590.9	4457.7	4262.9	3993.3	3668.0	3248.8	2796.9	2317.4	1803.2	113.5
34°	4417.7	4360.6	4267.5	4054.3	3764.4	3439.7	3017.9	2558.8	2102.9	1625.4	101.0
35°	4165.8	4131.7	3985.4	3814.9	3523.7	3191.8	2772.6	2327.2	1853.0	1427.3	88.6
36°	3921.8	3869.3	3702.7	3522.4	3239.6	2880.9	2467.0	2048.5	1637.2	1241.7	75.4
37°	3567.6	3487.6	3368.9	3178.6	2848.1	2542.4	2164.6	1776.3	1371.6	1041.0	61.0
38°	3151.1	3113.7	2949.1	2757.5	2484.0	2194.1	1820.2	1490.9	1131.5	869.1	46.6
39°	2659.8	2659.1	2501.7	2363.3	2095.7	1834.6	1497.5	1210.2	934.0	699.9	36.1
40°	2243.3	2165.9	2068.8	1895.0	1689.7	1468.0	1172.8	947.2	724.8	564.1	28.2
42.5°	1176.1	1169.5	1112.5	981.9	867.1	736.6	585.7	488.0	381.8	310.9	17.7
45°	505.1	508.3	469.0	449.3	404.7	350.3	295.8	246.6	211.2	171.2	10.5
47.5°	127.9	122.7	121.3	125.9	125.9	122.0	109.5	103.0	95.1	87.2	5.9
50°	55.1	53.8	52.5	52.5	49.2	47.2	43.9	40.0	36.7	32.8	2.6
52.5°	20.3	21.0	21.6	21.0	21.0	20.3	20.3	19.7	17.7	15.7	1.3
55°	6.6	6.6	6.6	7.2	7.2	7.9	7.9	7.9	7.9	7.2	0.0
57.5°	1.3	1.3	2.0	2.0	2.0	2.0	2.0	2.0	2.6	2.6	0.0
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.7	0.0	0.7	0.7	0.0	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7



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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	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°	24.9	24.9	24.9	24.9	24.9	24.9
2.5°	28.9	25.6	21.6	18.4	17.7	17.1
5°	32.1	23.6	17.7	14.4	13.1	12.5
7.5°	34.8	21.6	14.4	10.5	9.2	8.5
10°	36.1	19.0	11.8	7.9	5.9	5.9
12.5°	36.7	16.4	8.5	5.2	3.3	3.3
15°	36.1	13.8	6.6	2.6	0.7	0.7
17.5°	32.8	11.2	3.9	0.7	0.0	0.0
20°	28.2	9.2	2.6	0.0	0.0	0.0
21°	26.9	7.9	2.0	0.0	0.0	0.0
22°	24.9	7.2	1.3	0.0	0.0	0.0
23°	23.0	6.6	1.3	0.0	0.0	0.0
24°	21.0	5.9	0.7	0.0	0.0	0.0
25°	19.7	5.2	0.7	0.0	0.0	0.0
26°	18.4	4.6	0.7	0.0	0.0	0.0
27°	16.4	3.9	0.0	0.0	0.0	0.0
28°	15.1	3.3	0.0	0.0	0.0	0.0
29°	13.1	2.6	0.0	0.0	0.0	0.0
30°	11.2	2.0	0.0	0.0	0.0	0.0
31°	9.2	2.0	0.0	0.0	0.0	0.0
32°	7.9	1.3	0.0	0.0	0.0	0.0
33°	6.6	1.3	0.0	0.0	0.0	0.0
34°	5.9	1.3	0.0	0.0	0.0	0.0
35°	5.2	1.3	0.0	0.0	0.0	0.0
36°	3.9	0.7	0.0	0.0	0.0	0.0
37°	3.3	0.7	0.0	0.0	0.0	0.0
38°	2.6	0.7	0.0	0.0	0.0	0.0
39°	2.0	0.0	0.0	0.0	0.0	0.0
40°	2.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.7	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.7	0.0	0.0	0.7	0.7
47.5°	0.0	0.7	0.0	0.0	0.7	1.3
50°	0.0	0.7	0.7	0.7	1.3	2.0
52.5°	0.0	1.3	0.7	0.7	2.0	2.0
55°	0.7	1.3	0.7	1.3	2.6	2.6
57.5°	0.7	1.3	1.3	2.0	2.6	3.3
60°	1.3	2.0	2.0	2.0	3.3	3.3
62.5°	1.3	2.0	2.6	2.6	3.3	3.9
65°	1.3	2.6	2.6	2.6	3.3	3.9
67.5°	2.0	2.6	2.6	2.6	3.3	3.9
70°	2.0	2.6	2.6	2.6	3.3	3.3
72.5°	2.0	2.6	2.0	2.6	2.6	3.3
75°	2.0	2.6	2.0	2.0	2.6	2.6
77.5°	1.3	2.0	2.0	1.3	2.0	2.0
80°	1.3	2.0	1.3	1.3	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.3	2.0	1.3	0.7	1.3	1.3
85°	1.3	2.0	1.3	0.7	0.7	0.7
87.5°	1.3	2.0	1.3	0.7	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)