

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: P1340537

Luminaire Tested: P3A09R209835DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340537
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: P3A09R209835DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

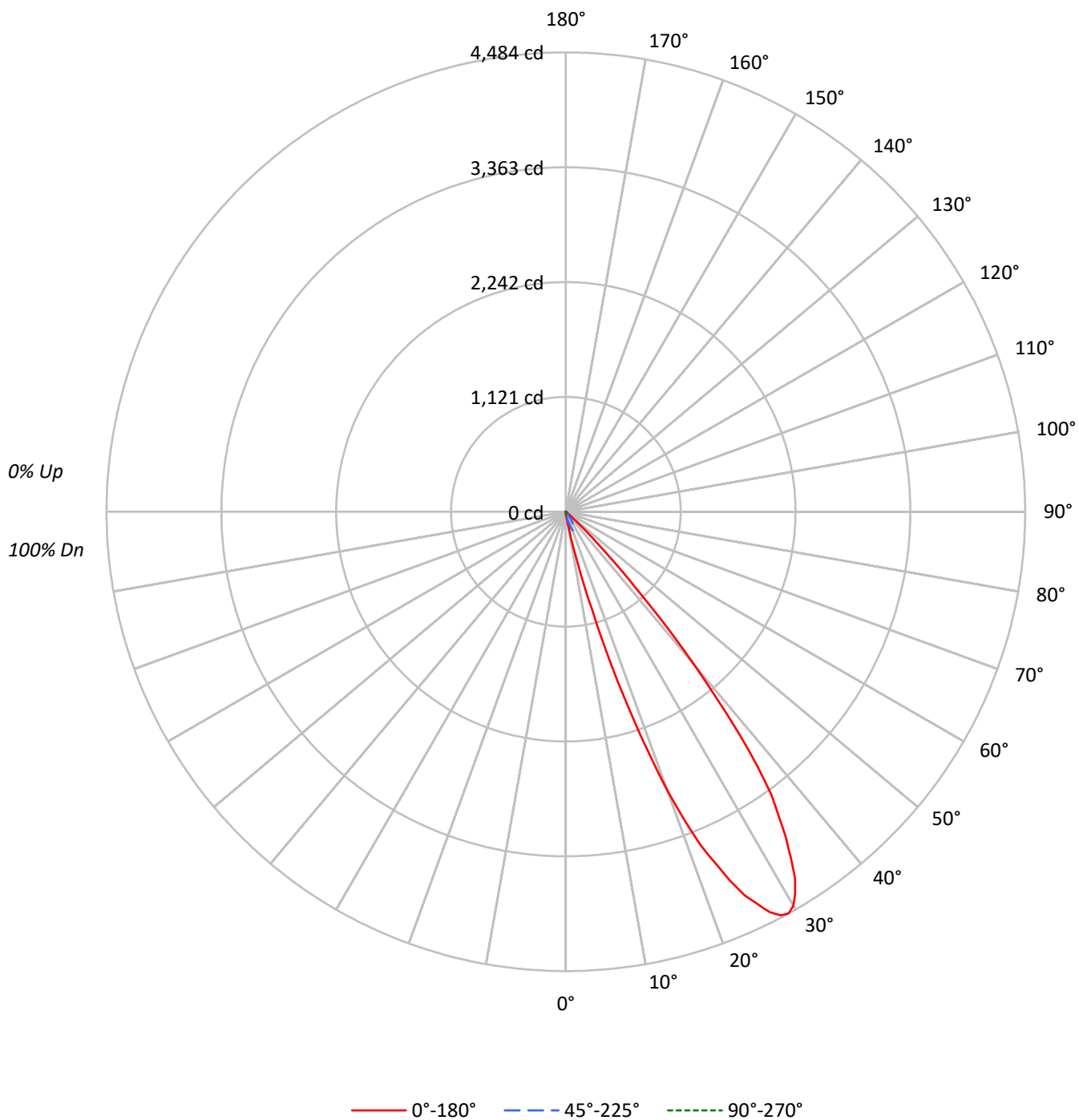
Lumens per Lamp: N/A
Luminaire Lumens: 629.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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°	4758	4758	4758	4758	4758
5°	10918	8166	4512	2773	2377
10°	34424	14228	3674	1514	1136
15°	223089	26288	2724	522	136
20°	673272	45014	1867	0	0
25°	999905	45414	1113	0	0
30°	1124426	34537	430	0	0
35°	970170	20612	294	0	0
40°	558647	7013	0	0	0
45°	136262	2822	186	0	186
50°	16341	785	205	205	580
55°	2179	0	421	421	879
60°	263	0	746	746	1272
65°	311	311	1193	1193	1764
70°	385	385	1475	1475	1859
75°	0	508	1949	1440	1949
80°	0	758	2147	1389	2147
85°	0	1510	4277	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 137162 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.5
10°-20°	58.3	9.3
20°-30°	254.1	40.4
30°-40°	255.9	40.7
40°-50°	51.3	8.2
50°-60°	2.6	0.4
60°-70°	1.7	0.3
70°-80°	1.5	0.2
80°-90°	0.8	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°	315.3	50.1
0°-40°	571.1	90.8
0°-60°	625.0	99.4
0°-90°	629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	629.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	50	37	20	13	11	8
15°	983	116	12	2	1	385
25°	4133	188	5	0	0	1863
35°	3624	77	1	0	0	2156
45°	439	9	1	0	1	478
55°	6	0	1	1	2	11
65°	1	1	2	2	3	1
75°	0	1	2	2	2	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°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
2.5°	32.5	32.5	32.0	32.0	31.4	32.0	30.8	31.4	31.4	30.8	28.0
5°	49.6	50.8	50.2	50.2	49.6	50.2	49.1	47.9	46.8	46.8	37.1
7.5°	81.6	81.0	79.9	80.5	78.7	77.6	76.5	75.9	72.5	70.8	48.5
10°	154.6	158.1	155.2	154.6	144.4	143.8	137.0	127.3	118.7	114.1	63.9
12.5°	425.7	444.0	415.4	401.7	393.7	362.9	349.8	316.1	283.6	259.1	81.0
15°	982.7	1027.7	970.1	974.1	926.2	838.3	761.2	695.1	616.9	538.1	115.8
17.5°	1925.4	1888.9	1857.5	1804.4	1706.8	1577.9	1411.8	1243.5	1097.9	945.6	161.5
20°	2885.2	2852.7	2781.4	2665.5	2541.1	2349.9	2152.5	1899.7	1654.9	1425.5	192.9
21°	3215.6	3204.8	3087.8	3016.5	2824.7	2642.1	2414.4	2143.9	1868.3	1596.7	198.0
22°	3510.7	3445.6	3382.8	3277.3	3086.7	2888.1	2634.7	2349.9	2050.9	1749.0	198.6
23°	3714.9	3685.3	3625.9	3506.7	3317.2	3083.8	2816.7	2518.9	2203.9	1856.9	196.9
24°	3940.9	3903.3	3816.5	3677.3	3486.1	3255.6	2950.8	2655.2	2312.9	1947.6	192.3
25°	4132.7	4073.9	3971.2	3821.1	3612.2	3374.3	3067.8	2743.1	2388.7	2008.7	187.7
26°	4257.1	4225.1	4093.3	3930.1	3706.4	3461.0	3148.3	2810.5	2437.8	2036.7	180.3
27°	4386.6	4327.8	4198.3	4010.5	3768.0	3517.5	3193.9	2843.0	2454.9	2037.8	171.2
28°	4460.8	4396.9	4250.2	4052.8	3808.0	3548.9	3220.2	2853.3	2451.5	2020.1	160.4
29°	4484.2	4403.7	4260.5	4059.6	3817.7	3551.2	3216.2	2838.4	2421.3	1976.7	147.8
30°	4440.8	4358.6	4222.8	4027.1	3786.8	3522.6	3179.1	2789.3	2367.6	1914.5	136.4
31°	4346.1	4276.5	4145.2	3948.9	3718.4	3455.9	3095.2	2708.9	2276.3	1831.2	123.3
32°	4221.1	4152.6	4023.7	3846.2	3611.7	3346.9	2980.5	2583.3	2169.0	1706.8	110.1
33°	4033.4	3994.0	3878.2	3708.7	3474.1	3191.1	2826.4	2433.3	2016.1	1568.7	98.7
34°	3843.3	3793.7	3712.7	3527.2	3275.0	2992.5	2625.6	2226.1	1829.5	1414.1	87.9
35°	3624.2	3594.5	3467.3	3318.9	3065.5	2776.8	2412.1	2024.7	1612.1	1241.7	77.0
36°	3411.9	3366.3	3221.3	3064.4	2818.5	2506.3	2146.2	1782.1	1424.3	1080.2	65.6
37°	3103.8	3034.2	2930.9	2765.4	2477.8	2211.8	1883.2	1545.3	1193.2	905.6	53.1
38°	2741.4	2708.9	2565.7	2399.0	2161.1	1908.8	1583.6	1297.1	984.4	756.1	40.5
39°	2314.0	2313.4	2176.5	2056.1	1823.2	1596.1	1302.8	1052.9	812.6	608.9	31.4
40°	1951.6	1884.3	1799.8	1648.6	1470.0	1277.1	1020.3	824.0	630.6	490.8	24.5
42.5°	1023.2	1017.5	967.8	854.3	754.4	640.8	509.6	424.6	332.1	270.5	15.4
45°	439.4	442.3	408.0	390.9	352.1	304.7	257.4	214.6	183.7	148.9	9.1
47.5°	111.3	106.7	105.6	109.6	109.6	106.1	95.3	89.6	82.7	75.9	5.1
50°	47.9	46.8	45.7	45.7	42.8	41.1	38.2	34.8	32.0	28.5	2.3
52.5°	17.7	18.3	18.8	18.3	18.3	17.7	17.7	17.1	15.4	13.7	1.1
55°	5.7	5.7	5.7	6.3	6.3	6.8	6.8	6.8	6.8	6.3	0.0
57.5°	1.1	1.1	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3	0.0
60°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
62.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.6	0.0	0.6	0.6	0.0	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6



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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	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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°	21.7	21.7	21.7	21.7	21.7	21.7
2.5°	25.1	22.3	18.8	16.0	15.4	14.8
5°	28.0	20.5	15.4	12.6	11.4	10.8
7.5°	30.2	18.8	12.6	9.1	8.0	7.4
10°	31.4	16.5	10.3	6.8	5.1	5.1
12.5°	32.0	14.3	7.4	4.6	2.9	2.9
15°	31.4	12.0	5.7	2.3	0.6	0.6
17.5°	28.5	9.7	3.4	0.6	0.0	0.0
20°	24.5	8.0	2.3	0.0	0.0	0.0
21°	23.4	6.8	1.7	0.0	0.0	0.0
22°	21.7	6.3	1.1	0.0	0.0	0.0
23°	20.0	5.7	1.1	0.0	0.0	0.0
24°	18.3	5.1	0.6	0.0	0.0	0.0
25°	17.1	4.6	0.6	0.0	0.0	0.0
26°	16.0	4.0	0.6	0.0	0.0	0.0
27°	14.3	3.4	0.0	0.0	0.0	0.0
28°	13.1	2.9	0.0	0.0	0.0	0.0
29°	11.4	2.3	0.0	0.0	0.0	0.0
30°	9.7	1.7	0.0	0.0	0.0	0.0
31°	8.0	1.7	0.0	0.0	0.0	0.0
32°	6.8	1.1	0.0	0.0	0.0	0.0
33°	5.7	1.1	0.0	0.0	0.0	0.0
34°	5.1	1.1	0.0	0.0	0.0	0.0
35°	4.6	1.1	0.0	0.0	0.0	0.0
36°	3.4	0.6	0.0	0.0	0.0	0.0
37°	2.9	0.6	0.0	0.0	0.0	0.0
38°	2.3	0.6	0.0	0.0	0.0	0.0
39°	1.7	0.0	0.0	0.0	0.0	0.0
40°	1.7	0.0	0.0	0.0	0.0	0.0
42.5°	0.6	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.6	0.0	0.0	0.6	0.6
47.5°	0.0	0.6	0.0	0.0	0.6	1.1
50°	0.0	0.6	0.6	0.6	1.1	1.7
52.5°	0.0	1.1	0.6	0.6	1.7	1.7
55°	0.6	1.1	0.6	1.1	2.3	2.3
57.5°	0.6	1.1	1.1	1.7	2.3	2.9
60°	1.1	1.7	1.7	1.7	2.9	2.9
62.5°	1.1	1.7	2.3	2.3	2.9	3.4
65°	1.1	2.3	2.3	2.3	2.9	3.4
67.5°	1.7	2.3	2.3	2.3	2.9	3.4
70°	1.7	2.3	2.3	2.3	2.9	2.9
72.5°	1.7	2.3	1.7	2.3	2.3	2.9
75°	1.7	2.3	1.7	1.7	2.3	2.3
77.5°	1.1	1.7	1.7	1.1	1.7	1.7
80°	1.1	1.7	1.1	1.1	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.1	1.7	1.1	0.6	1.1	1.1
85°	1.1	1.7	1.1	0.6	0.6	0.6
87.5°	1.1	1.7	1.1	0.6	0.0	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)