

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: P1343957

Luminaire Tested: P3A13R209040DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343957
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: P3A13R209040DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

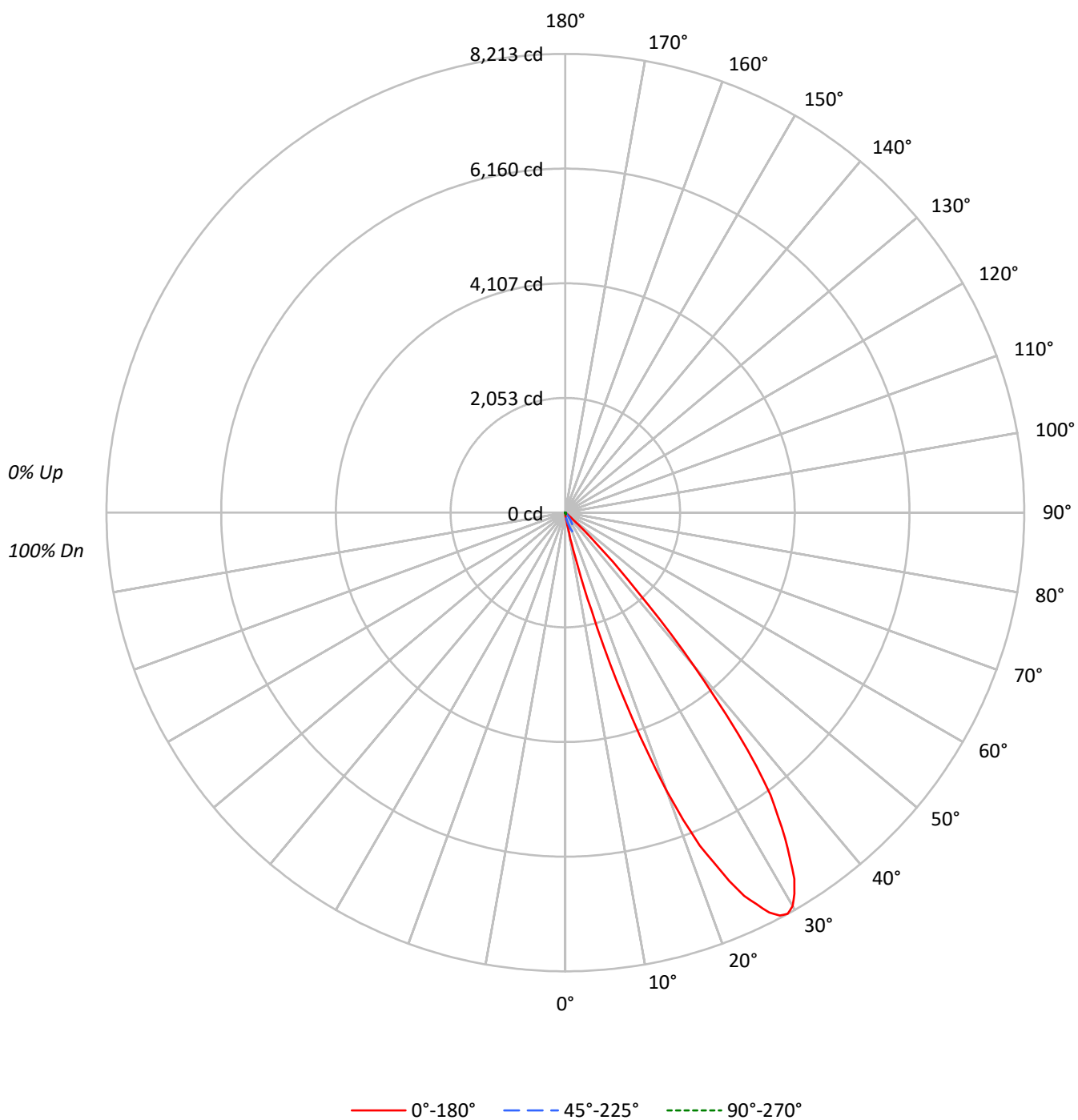
Lumens per Lamp: N/A
Luminaire Lumens: 1151.9 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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°	8705	8705	8705	8705	8705
5°	20009	14946	8276	5063	4380
10°	63058	26074	6747	2783	2093
15°	408561	48173	4972	953	227
20°	1233087	82444	3407	0	0
25°	1831291	83206	2032	0	0
30°	2059380	63250	785	0	0
35°	1776861	37771	562	0	0
40°	1023174	12853	0	0	0
45°	249576	5179	310	0	310
50°	29952	1433	341	341	1058
55°	4014	0	803	803	1606
60°	439	0	1360	1360	2281
65°	519	519	2179	2179	3269
70°	641	641	2693	2693	3334
75°	0	847	3558	2626	3558
80°	0	1263	3915	2652	3915
85°	0	2516	7799	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 251189 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.5
10°-20°	106.8	9.3
20°-30°	465.3	40.4
30°-40°	468.6	40.7
40°-50°	94.0	8.2
50°-60°	4.7	0.4
60°-70°	3.1	0.3
70°-80°	2.7	0.2
80°-90°	1.4	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°	577.4	50.1
0°-40°	1046.0	90.8
0°-60°	1144.7	99.4
0°-90°	1151.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1151.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	40	40	40	40	40	
5°	91	68	38	23	20	14
15°	1800	212	22	4	1	705
25°	7569	344	8	0	0	3413
35°	6638	141	2	0	0	3949
45°	805	17	1	0	1	876
55°	10	0	2	2	4	19
65°	1	1	4	4	6	1
75°	0	1	4	3	4	0
85°	0	1	3	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°	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
2.5°	59.6	59.6	58.5	58.5	57.5	58.5	56.4	57.5	57.5	56.4	51.2
5°	90.9	93.0	92.0	92.0	90.9	92.0	89.9	87.8	85.7	85.7	67.9
7.5°	149.5	148.4	146.3	147.4	144.2	142.1	140.0	139.0	132.7	129.6	88.8
10°	283.2	289.5	284.3	283.2	264.4	263.4	250.8	233.1	217.4	209.0	117.1
12.5°	779.7	813.1	760.9	735.8	721.1	664.7	640.7	579.0	519.4	474.5	148.4
15°	1799.7	1882.3	1776.7	1784.0	1696.3	1535.3	1394.2	1273.0	1129.8	985.6	212.2
17.5°	3526.3	3459.4	3401.9	3304.7	3126.0	2889.8	2585.7	2277.4	2010.8	1731.8	295.8
20°	5284.2	5224.6	5094.0	4881.8	4654.0	4303.9	3942.3	3479.3	3030.9	2610.8	353.3
21°	5889.3	5869.5	5655.2	5524.6	5173.4	4839.0	4422.0	3926.6	3421.8	2924.3	362.7
22°	6429.7	6310.5	6195.6	6002.2	5653.1	5289.4	4825.4	4303.9	3756.2	3203.3	363.7
23°	6803.8	6749.5	6640.8	6422.4	6075.4	5647.9	5158.8	4613.2	4036.3	3400.9	360.6
24°	7217.7	7148.7	6989.9	6734.9	6384.7	5962.5	5404.4	4863.0	4235.9	3567.1	352.2
25°	7568.9	7461.2	7273.1	6998.2	6615.7	6179.9	5618.7	5024.0	4374.9	3678.9	343.9
26°	7796.7	7738.2	7496.8	7197.9	6788.2	6338.8	5766.0	5147.3	4464.8	3730.1	330.3
27°	8034.0	7926.3	7689.1	7345.2	6901.0	6442.2	5849.6	5206.9	4496.2	3732.2	313.5
28°	8169.8	8052.8	7784.2	7422.6	6974.2	6499.7	5897.7	5225.7	4489.9	3699.8	293.7
29°	8212.7	8065.3	7803.0	7435.1	6992.0	6503.9	5890.4	5198.5	4434.5	3620.4	270.7
30°	8133.3	7982.8	7734.0	7375.5	6935.5	6451.6	5822.5	5108.6	4336.3	3506.4	249.8
31°	7959.8	7832.3	7591.9	7232.3	6810.1	6329.3	5668.8	4961.3	4169.1	3353.8	225.7
32°	7730.9	7605.5	7369.3	7044.2	6614.7	6129.7	5458.8	4731.3	3972.6	3126.0	201.7
33°	7387.0	7314.9	7102.8	6792.3	6362.8	5844.4	5176.6	4456.5	3692.5	2873.1	180.8
34°	7039.0	6948.1	6799.7	6460.0	5998.0	5480.7	4808.7	4077.1	3350.7	2589.8	161.0
35°	6637.7	6583.3	6350.3	6078.5	5614.5	5085.6	4417.8	3708.1	2952.5	2274.2	141.1
36°	6248.9	6165.3	5899.8	5612.4	5161.9	4590.2	3930.8	3264.0	2608.7	1978.4	120.2
37°	5684.5	5557.0	5367.8	5064.7	4538.0	4051.0	3449.0	2830.2	2185.4	1658.6	97.2
38°	5020.8	4961.3	4698.9	4393.8	3957.9	3496.0	2900.3	2375.6	1802.9	1384.8	74.2
39°	4238.0	4237.0	3986.2	3765.6	3339.2	2923.2	2386.0	1928.3	1488.3	1115.2	57.5
40°	3574.4	3451.0	3296.4	3019.4	2692.3	2339.0	1868.7	1509.2	1154.9	898.8	44.9
42.5°	1873.9	1863.5	1772.6	1564.6	1381.7	1173.7	933.3	777.6	608.3	495.4	28.2
45°	804.8	810.0	747.3	715.9	644.8	558.1	471.4	393.0	336.5	272.8	16.7
47.5°	203.8	195.4	193.4	200.7	200.7	194.4	174.5	164.1	151.5	139.0	9.4
50°	87.8	85.7	83.6	83.6	78.4	75.2	70.0	63.8	58.5	52.3	4.2
52.5°	32.4	33.4	34.5	33.4	33.4	32.4	32.4	31.4	28.2	25.1	2.1
55°	10.5	10.5	10.5	11.5	11.5	12.5	12.5	12.5	12.5	11.5	0.0
57.5°	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	0.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0



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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	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	39.7	39.7	39.7	39.7	39.7	39.7
2.5°	46.0	40.8	34.5	29.3	28.2	27.2
5°	51.2	37.6	28.2	23.0	20.9	19.9
7.5°	55.4	34.5	23.0	16.7	14.6	13.6
10°	57.5	30.3	18.8	12.5	9.4	9.4
12.5°	58.5	26.1	13.6	8.4	5.2	5.2
15°	57.5	21.9	10.5	4.2	1.0	1.0
17.5°	52.3	17.8	6.3	1.0	0.0	0.0
20°	44.9	14.6	4.2	0.0	0.0	0.0
21°	42.9	12.5	3.1	0.0	0.0	0.0
22°	39.7	11.5	2.1	0.0	0.0	0.0
23°	36.6	10.5	2.1	0.0	0.0	0.0
24°	33.4	9.4	1.0	0.0	0.0	0.0
25°	31.4	8.4	1.0	0.0	0.0	0.0
26°	29.3	7.3	1.0	0.0	0.0	0.0
27°	26.1	6.3	0.0	0.0	0.0	0.0
28°	24.0	5.2	0.0	0.0	0.0	0.0
29°	20.9	4.2	0.0	0.0	0.0	0.0
30°	17.8	3.1	0.0	0.0	0.0	0.0
31°	14.6	3.1	0.0	0.0	0.0	0.0
32°	12.5	2.1	0.0	0.0	0.0	0.0
33°	10.5	2.1	0.0	0.0	0.0	0.0
34°	9.4	2.1	0.0	0.0	0.0	0.0
35°	8.4	2.1	0.0	0.0	0.0	0.0
36°	6.3	1.0	0.0	0.0	0.0	0.0
37°	5.2	1.0	0.0	0.0	0.0	0.0
38°	4.2	1.0	0.0	0.0	0.0	0.0
39°	3.1	0.0	0.0	0.0	0.0	0.0
40°	3.1	0.0	0.0	0.0	0.0	0.0
42.5°	1.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.0	0.0	0.0	1.0	1.0
47.5°	0.0	1.0	0.0	0.0	1.0	2.1
50°	0.0	1.0	1.0	1.0	2.1	3.1
52.5°	0.0	2.1	1.0	1.0	3.1	3.1
55°	1.0	2.1	1.0	2.1	4.2	4.2
57.5°	1.0	2.1	2.1	3.1	4.2	5.2
60°	2.1	3.1	3.1	3.1	5.2	5.2
62.5°	2.1	3.1	4.2	4.2	5.2	6.3
65°	2.1	4.2	4.2	4.2	5.2	6.3
67.5°	3.1	4.2	4.2	4.2	5.2	6.3
70°	3.1	4.2	4.2	4.2	5.2	5.2
72.5°	3.1	4.2	3.1	4.2	4.2	5.2
75°	3.1	4.2	3.1	3.1	4.2	4.2
77.5°	2.1	3.1	3.1	2.1	3.1	3.1
80°	2.1	3.1	2.1	2.1	3.1	3.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.1	3.1	2.1	1.0	2.1	2.1
85°	2.1	3.1	2.1	1.0	1.0	1.0
87.5°	2.1	3.1	2.1	1.0	0.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)