

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: P1344457

Luminaire Tested: P3A13R259040DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-61)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R259040DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

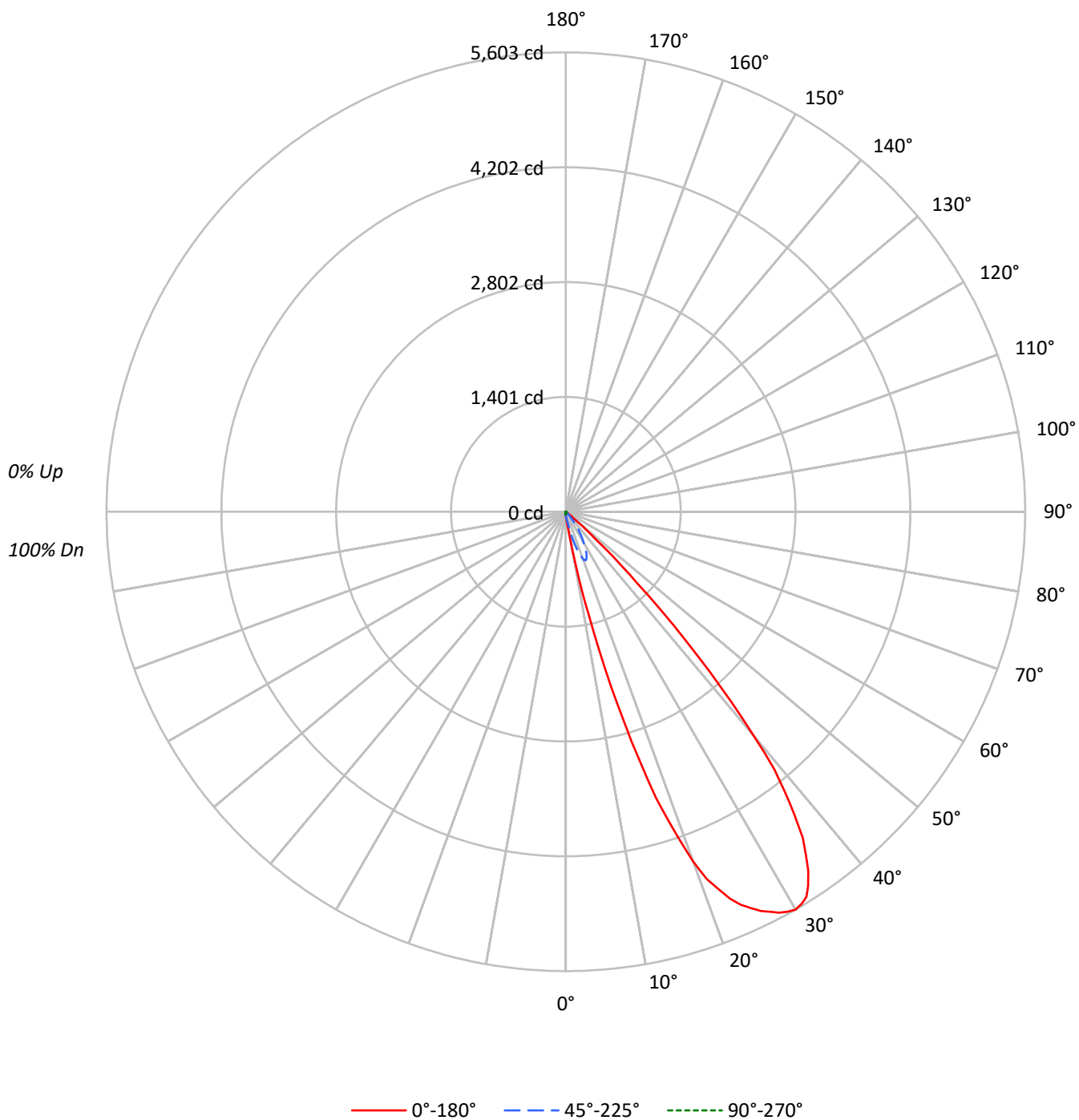
Lumens per Lamp: N/A
Luminaire Lumens: 1120.9 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	95	92	104	98	94	90	95	92	88		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	79	77	75
4	93	84	77	72	91	83	77	72	80	75	71		78	74	70		76	73	69	68
5	87	77	70	65	85	76	69	65	74	68	64		72	67	63		71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58		67	61	57		65	60	57	55
7	76	65	58	53	74	64	57	52	63	57	52		61	56	52		60	55	52	50
8	71	60	52	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	44	39	49	43	39		48	43	39		48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10547	10547	10547	10547	10547
5°	26480	19569	9905	5063	3918
10°	115740	33310	8149	2338	1625
15°	550378	89762	5698	953	704
20°	1059495	143746	3664	233	233
25°	1290341	145000	2032	0	0
30°	1418674	110954	785	0	0
35°	1367158	70564	268	0	0
40°	1021514	30543	0	0	286
45°	378179	8094	310	310	961
50°	44587	1058	716	716	1433
55°	4396	0	803	1185	1988
60°	439	0	1360	1842	2281
65°	519	519	2179	2698	3269
70°	641	641	2693	2693	4039
75°	847	847	2626	2626	3558
80°	0	1263	3915	2652	3915
85°	0	2516	7799	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 378179 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.6
10°-20°	130.7	11.7
20°-30°	410.2	36.6
30°-40°	431.8	38.5
40°-50°	126.9	11.3
50°-60°	6.8	0.6
60°-70°	3.3	0.3
70°-80°	2.8	0.3
80°-90°	1.5	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°	547.9	48.9
0°-40°	979.7	87.4
0°-60°	1113.4	99.3
0°-90°	1120.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1120.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	120	89	45	23	18	21
15°	2424	395	25	4	3	764
25°	5333	599	8	0	0	2446
35°	5107	264	1	0	0	3082
45°	1220	26	1	1	3	1108
55°	12	0	2	3	5	29
65°	1	1	4	5	6	1
75°	1	1	3	3	4	1
85°	0	1	3	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
2.5°	74.3	75.3	72.2	74.3	72.2	71.1	70.1	64.8	56.5	48.1	39.7
5°	120.3	120.3	115.0	114.0	111.9	107.7	103.5	88.9	63.8	45.0	31.4
7.5°	188.3	187.2	185.1	179.9	169.4	159.0	148.5	116.1	70.1	41.8	24.1
10°	519.8	512.5	503.1	446.6	382.8	326.3	277.2	149.6	75.3	36.6	17.8
12.5°	1291.7	1249.9	1150.5	1037.5	893.2	741.5	593.0	243.7	77.4	30.3	12.6
15°	2424.4	2337.6	2182.8	1956.9	1661.9	1330.4	1048.0	395.4	75.3	25.1	9.4
17.5°	3660.7	3577.0	3362.6	3019.5	2585.5	2076.1	1576.2	524.0	70.1	20.9	6.3
20°	4540.3	4451.4	4250.6	3886.6	3417.0	2738.2	2075.1	616.0	65.9	15.7	3.1
21°	4797.6	4708.7	4496.4	4144.9	3651.3	2970.4	2235.1	631.7	62.8	13.6	2.1
22°	4960.7	4908.4	4680.4	4339.5	3836.4	3156.5	2372.1	639.0	60.7	12.6	2.1
23°	5124.9	5046.5	4833.1	4473.3	3977.6	3294.6	2473.6	633.8	58.6	10.5	1.0
24°	5246.3	5180.4	4932.5	4576.9	4075.9	3379.3	2533.2	620.2	55.4	9.4	1.0
25°	5333.1	5272.4	5014.1	4647.0	4141.8	3425.3	2552.0	599.3	52.3	8.4	1.0
26°	5415.7	5349.8	5082.1	4687.8	4176.3	3440.0	2534.2	576.3	49.2	7.3	0.0
27°	5475.3	5408.4	5129.1	4711.8	4178.4	3422.2	2486.1	544.9	46.0	6.3	0.0
28°	5539.1	5461.7	5161.6	4725.4	4165.8	3380.4	2417.1	511.4	43.9	5.2	0.0
29°	5577.8	5504.6	5195.0	4740.1	4139.7	3310.3	2316.7	471.7	38.7	3.1	0.0
30°	5602.9	5516.1	5191.9	4724.4	4105.2	3235.0	2196.4	438.2	33.5	3.1	0.0
31°	5582.0	5491.0	5158.4	4680.4	4049.8	3136.7	2073.0	396.4	27.2	2.1	0.0
32°	5537.0	5429.3	5099.8	4604.1	3950.4	3010.1	1945.4	361.9	19.9	2.1	0.0
33°	5427.2	5336.2	4994.2	4501.6	3820.7	2838.6	1779.1	328.4	13.6	1.0	0.0
34°	5289.2	5198.2	4849.9	4364.6	3647.1	2616.9	1577.2	293.9	11.5	1.0	0.0
35°	5107.2	5017.2	4686.7	4173.2	3417.0	2350.2	1369.1	263.6	9.4	1.0	0.0
36°	4915.8	4796.5	4480.7	3969.2	3108.4	2046.8	1146.3	229.1	7.3	1.0	0.0
37°	4634.4	4553.9	4203.5	3658.6	2774.8	1756.1	984.2	197.7	5.2	1.0	0.0
38°	4342.6	4268.3	3926.3	3345.9	2402.4	1468.5	824.2	167.3	4.2	0.0	0.0
39°	4041.4	3918.0	3580.1	2945.3	2012.3	1230.0	693.4	140.2	2.1	0.0	0.0
40°	3568.6	3474.5	3113.7	2464.2	1665.1	996.7	590.9	106.7	2.1	0.0	0.0
42.5°	2365.8	2278.0	1899.4	1336.7	884.8	582.6	390.1	41.8	0.0	1.0	0.0
45°	1219.5	1164.1	945.5	699.7	502.0	357.7	251.0	26.1	0.0	1.0	1.0
47.5°	484.3	474.8	428.8	370.3	285.5	212.3	137.0	11.5	0.0	1.0	1.0
50°	130.7	131.8	123.4	114.0	103.5	97.3	57.5	3.1	0.0	2.1	1.0
52.5°	55.4	56.5	54.4	51.2	46.0	34.5	23.0	1.0	1.0	2.1	2.1
55°	11.5	12.6	13.6	14.6	16.7	14.6	9.4	0.0	1.0	2.1	2.1
57.5°	2.1	2.1	2.1	2.1	3.1	3.1	2.1	0.0	1.0	2.1	3.1
60°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	2.1	3.1	3.1
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	3.1	4.2
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	4.2	4.2
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.1	4.2	4.2
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.1	4.2	4.2
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.1	4.2	3.1
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.1	3.1	3.1
77.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.1	3.1	3.1
80°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.1	3.1	2.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.1	3.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	3.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	3.1	2.1
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):

	135°	157.5°	180°
0°	48.1	48.1	48.1
2.5°	33.5	30.3	29.3
5°	23.0	19.9	17.8
7.5°	15.7	12.6	11.5
10°	10.5	8.4	7.3
12.5°	7.3	4.2	4.2
15°	4.2	3.1	3.1
17.5°	2.1	1.0	1.0
20°	1.0	1.0	1.0
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	1.0
39°	0.0	1.0	1.0
40°	0.0	1.0	1.0
42.5°	0.0	1.0	2.1
45°	1.0	2.1	3.1
47.5°	2.1	3.1	4.2
50°	2.1	4.2	4.2
52.5°	3.1	4.2	5.2
55°	3.1	5.2	5.2
57.5°	4.2	5.2	6.3
60°	4.2	5.2	5.2
62.5°	4.2	6.3	6.3
65°	5.2	6.3	6.3
67.5°	5.2	6.3	6.3
70°	4.2	5.2	6.3
72.5°	4.2	5.2	5.2
75°	3.1	4.2	4.2
77.5°	3.1	3.1	4.2
80°	2.1	3.1	3.1



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	2.1	2.1	2.1
85°	1.0	1.0	1.0
87.5°	1.0	1.0	1.0
90°	0.0	0.0	0.0

(END OF REPORT)