

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: P1335173

Luminaire Tested: P3A02R309840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R309840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

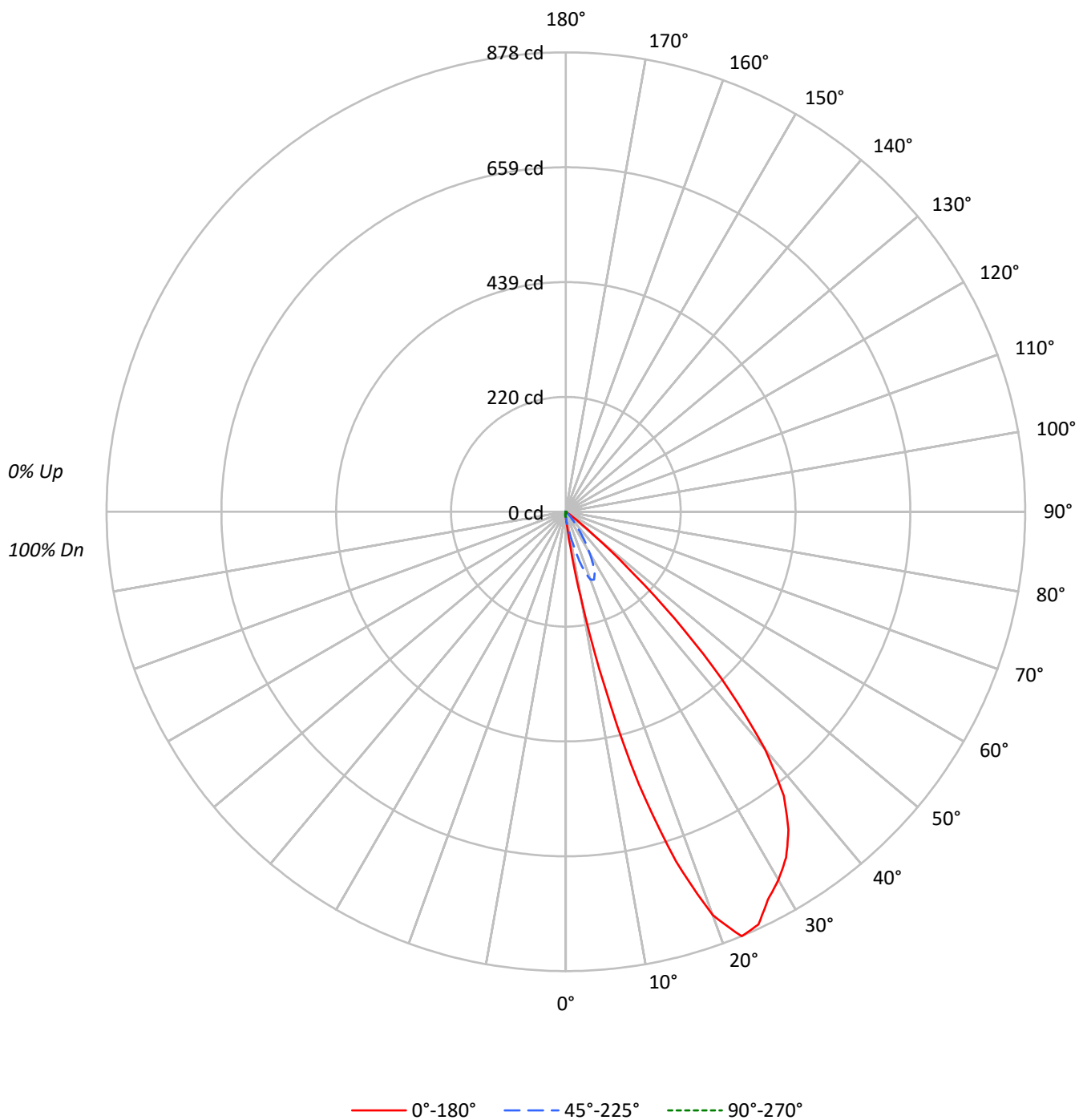
Lumens per Lamp: N/A
Luminaire Lumens: 207.1 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	87	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	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	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2149	2149	2149	2149	2149
5°	6493	4336	2047	924	748
10°	37608	9174	1603	423	289
15°	122339	20817	1112	91	45
20°	191420	32226	700	0	0
25°	210617	31478	363	0	0
30°	205703	22712	152	0	0
35°	198547	12903	54	0	0
40°	169317	5467	0	0	0
45°	99359	2047	62	0	62
50°	24119	375	68	68	205
55°	2103	0	153	229	306
60°	88	0	175	263	395
65°	104	104	311	311	467
70°	128	128	385	385	513
75°	0	169	508	508	508
80°	0	253	758	505	505
85°	0	503	1510	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 99359 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.9
10°-20°	28.4	13.7
20°-30°	72.3	34.9
30°-40°	72.1	34.8
40°-50°	29.2	14.1
50°-60°	2.0	1.0
60°-70°	0.5	0.2
70°-80°	0.5	0.2
80°-90°	0.3	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°	102.6	49.5
0°-40°	174.6	84.3
0°-60°	205.8	99.4
0°-90°	207.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	207.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	30	20	9	4	3	7
15°	539	92	5	0	0	157
25°	870	130	2	0	0	393
35°	742	48	0	0	0	455
45°	320	7	0	0	0	244
55°	6	0	0	1	1	14
65°	0	0	1	1	1	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
2.5°	16.3	16.5	16.5	16.1	15.9	15.9	15.3	15.1	14.6	14.0	12.1
5°	29.5	28.9	28.2	28.2	26.5	25.5	24.2	22.7	21.6	19.7	14.0
7.5°	67.0	62.4	61.1	59.4	53.0	47.9	42.0	36.9	32.2	28.2	15.5
10°	168.9	160.0	152.6	137.7	119.0	101.0	84.4	65.1	51.8	41.2	16.6
12.5°	340.3	328.4	314.2	286.9	251.9	207.1	167.4	125.0	87.8	60.7	17.0
15°	538.9	518.7	496.5	461.9	404.6	340.3	268.6	201.1	140.9	91.7	16.6
17.5°	700.8	692.9	660.1	612.8	542.7	459.8	371.5	279.2	190.1	120.1	15.5
20°	820.3	814.9	775.3	725.0	645.9	551.0	438.8	328.0	224.3	138.1	13.8
22.5°	878.0	877.1	848.5	797.1	713.3	605.7	482.1	356.2	234.9	140.5	11.5
25°	870.5	873.9	857.6	819.4	739.0	628.2	495.0	356.2	227.2	130.1	9.6
27.5°	836.0	838.3	828.1	798.8	723.9	611.9	477.0	333.3	204.7	111.8	7.9
30°	812.4	813.3	800.7	769.3	689.8	574.8	434.7	290.9	170.6	89.7	5.9
32.5°	783.7	783.5	768.7	732.8	645.2	522.8	380.9	240.4	131.1	68.1	3.4
35°	741.7	736.9	716.9	675.5	578.6	452.8	312.3	183.1	94.4	48.2	2.1
37.5°	684.0	671.7	643.3	587.9	485.2	355.0	231.5	128.6	64.5	32.0	1.3
40°	591.5	578.4	539.8	472.5	367.0	255.5	156.0	83.8	40.7	19.1	0.8
42.5°	463.8	454.9	402.9	335.7	242.3	163.0	93.8	49.6	22.9	11.0	0.2
45°	320.4	308.9	268.0	211.1	145.5	90.4	52.6	25.9	13.1	6.6	0.0
47.5°	176.9	162.7	139.0	109.3	73.2	47.5	26.5	14.0	7.4	3.2	0.0
50°	70.7	70.2	55.8	39.7	28.0	21.6	13.2	7.6	3.8	1.1	0.2
52.5°	24.8	24.8	21.4	17.4	13.6	9.8	6.6	3.6	1.3	0.4	0.2
55°	5.5	6.1	5.7	5.3	5.1	4.4	2.8	1.3	0.4	0.0	0.2
57.5°	0.6	0.6	0.6	0.8	0.9	0.9	0.8	0.4	0.0	0.0	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.4
62.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.2	0.4
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
75°	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.6
77.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
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):

	90°	112.5°	135°	157.5°	180°
0°	9.8	9.8	9.8	9.8	9.8
2.5°	9.8	7.8	6.4	5.7	5.5
5°	9.3	5.9	4.2	3.6	3.4
7.5°	8.3	4.4	2.8	2.3	2.1
10°	7.2	3.2	1.9	1.3	1.3
12.5°	6.1	2.5	1.1	0.6	0.4
15°	4.9	1.5	0.4	0.2	0.2
17.5°	3.8	0.9	0.0	0.0	0.0
20°	3.0	0.4	0.0	0.0	0.0
22.5°	2.3	0.2	0.0	0.0	0.0
25°	1.5	0.0	0.0	0.0	0.0
27.5°	0.9	0.0	0.0	0.0	0.0
30°	0.6	0.0	0.0	0.0	0.0
32.5°	0.2	0.0	0.0	0.0	0.0
35°	0.2	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.2	0.0	0.0	0.2	0.2
47.5°	0.2	0.2	0.2	0.4	0.4
50°	0.2	0.2	0.2	0.4	0.6
52.5°	0.4	0.2	0.4	0.6	0.6
55°	0.4	0.4	0.6	0.8	0.8
57.5°	0.4	0.4	0.6	0.8	0.8
60°	0.4	0.4	0.6	0.8	0.9
62.5°	0.6	0.6	0.6	0.8	0.8
65°	0.6	0.6	0.6	0.8	0.9
67.5°	0.6	0.6	0.6	0.8	0.9
70°	0.6	0.6	0.6	0.8	0.8
72.5°	0.8	0.6	0.6	0.8	0.8
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.4	0.6	0.6
80°	0.6	0.4	0.4	0.4	0.4
82.5°	0.6	0.4	0.4	0.4	0.4
85°	0.6	0.4	0.2	0.2	0.2
87.5°	0.6	0.4	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)