

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: P1341561

Luminaire Tested: P3A09R309840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1341561
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: P3A09R309840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

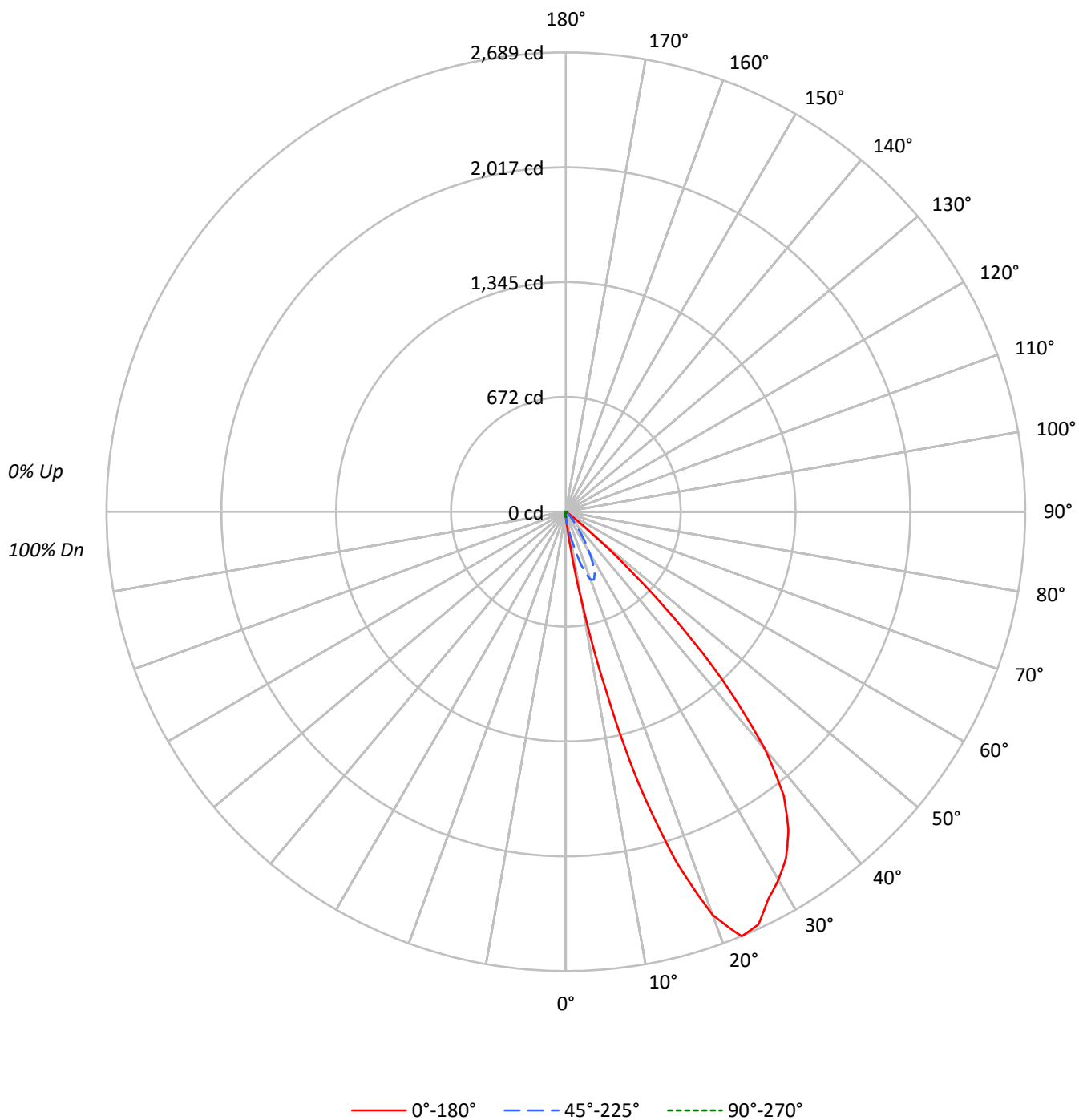
Lumens per Lamp: N/A
Luminaire Lumens: 634.0 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77	77	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6600	6600	6600	6600	6600
5°	19899	13273	6251	2796	2289
10°	115184	28122	4899	1291	913
15°	374690	63792	3428	272	136
20°	586324	98685	2170	0	0
25°	645061	96441	1113	0	0
30°	630021	69530	430	0	0
35°	608090	39538	161	0	0
40°	518572	16746	0	0	0
45°	304342	6295	186	0	186
50°	73925	1194	205	205	580
55°	6423	0	459	650	879
60°	263	0	526	746	1272
65°	311	311	882	882	1505
70°	385	385	1090	1090	1475
75°	0	508	1440	1440	1440
80°	0	758	2147	1515	1515
85°	0	1510	4277	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 304342 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.9
10°-20°	87.1	13.7
20°-30°	221.4	34.9
30°-40°	220.7	34.8
40°-50°	89.4	14.1
50°-60°	6.2	1.0
60°-70°	1.4	0.2
70°-80°	1.4	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°	314.1	49.5
0°-40°	534.8	84.4
0°-60°	630.4	99.4
0°-90°	634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	634.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	90	60	28	13	10	21
15°	1650	281	15	1	1	480
25°	2666	399	5	0	0	1204
35°	2272	148	1	0	0	1392
45°	981	20	1	0	1	749
55°	17	0	1	2	2	44
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°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
2.5°	49.8	50.4	50.4	49.2	48.7	48.7	46.9	46.3	44.6	42.9	37.1
5°	90.4	88.6	86.3	86.3	81.1	78.2	74.2	69.5	66.0	60.3	42.9
7.5°	205.1	191.2	187.1	181.9	162.2	146.6	128.6	113.0	98.5	86.3	47.5
10°	517.3	490.1	467.5	421.8	364.4	309.4	258.4	199.3	158.7	126.3	51.0
12.5°	1042.2	1005.7	962.3	878.8	771.7	634.4	512.7	382.9	268.8	186.0	52.1
15°	1650.5	1588.5	1520.7	1414.7	1239.2	1042.2	822.6	615.8	431.6	281.0	51.0
17.5°	2146.4	2122.1	2021.9	1877.0	1662.1	1408.4	1137.8	855.1	582.2	367.9	47.5
20°	2512.6	2495.8	2374.7	2220.6	1978.4	1687.6	1344.0	1004.6	687.1	422.9	42.3
22.5°	2689.3	2686.4	2598.9	2441.3	2184.7	1855.0	1476.7	1090.9	719.5	430.4	35.3
25°	2666.1	2676.5	2626.7	2509.7	2263.4	1924.0	1516.1	1090.9	695.8	398.6	29.5
27.5°	2560.6	2567.6	2536.3	2446.5	2217.1	1874.1	1461.1	1020.8	626.8	342.4	24.3
30°	2488.2	2491.1	2452.3	2356.1	2112.8	1760.6	1331.3	891.0	522.6	274.6	18.0
32.5°	2400.2	2399.6	2354.4	2244.3	1976.1	1601.3	1166.8	736.3	401.5	208.6	10.4
35°	2271.6	2257.1	2195.7	2068.8	1772.2	1386.9	956.5	560.8	289.1	147.7	6.4
37.5°	2094.9	2057.2	1970.3	1800.6	1486.0	1087.4	709.1	393.9	197.6	97.9	4.1
40°	1811.6	1771.6	1653.4	1447.2	1123.9	782.7	477.9	256.6	124.6	58.5	2.3
42.5°	1420.5	1393.3	1234.0	1028.3	742.1	499.4	287.3	151.8	70.1	33.6	0.6
45°	981.4	946.0	820.9	646.5	445.5	276.9	161.1	79.4	40.0	20.3	0.0
47.5°	541.7	498.2	425.8	334.9	224.2	145.4	81.1	42.9	22.6	9.8	0.0
50°	216.7	214.9	170.9	121.7	85.7	66.0	40.6	23.2	11.6	3.5	0.6
52.5°	75.9	75.9	65.5	53.3	41.7	30.1	20.3	11.0	4.1	1.2	0.6
55°	16.8	18.5	17.4	16.2	15.6	13.3	8.7	4.1	1.2	0.0	0.6
57.5°	1.7	1.7	1.7	2.3	2.9	2.9	2.3	1.2	0.0	0.0	0.6
60°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	1.2
62.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.6	0.6	1.2
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.7
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.7
75°	0.0	0.0	0.6	0.6	0.0	0.6	0.6	0.6	0.6	0.6	1.7
77.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.2
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°	30.1	30.1	30.1	30.1	30.1
2.5°	30.1	23.8	19.7	17.4	16.8
5°	28.4	18.0	12.7	11.0	10.4
7.5°	25.5	13.3	8.7	7.0	6.4
10°	22.0	9.8	5.8	4.1	4.1
12.5°	18.5	7.5	3.5	1.7	1.2
15°	15.1	4.6	1.2	0.6	0.6
17.5°	11.6	2.9	0.0	0.0	0.0
20°	9.3	1.2	0.0	0.0	0.0
22.5°	7.0	0.6	0.0	0.0	0.0
25°	4.6	0.0	0.0	0.0	0.0
27.5°	2.9	0.0	0.0	0.0	0.0
30°	1.7	0.0	0.0	0.0	0.0
32.5°	0.6	0.0	0.0	0.0	0.0
35°	0.6	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°	0.6	0.0	0.0	0.6	0.6
47.5°	0.6	0.6	0.6	1.2	1.2
50°	0.6	0.6	0.6	1.2	1.7
52.5°	1.2	0.6	1.2	1.7	1.7
55°	1.2	1.2	1.7	2.3	2.3
57.5°	1.2	1.2	1.7	2.3	2.3
60°	1.2	1.2	1.7	2.3	2.9
62.5°	1.7	1.7	1.7	2.3	2.3
65°	1.7	1.7	1.7	2.3	2.9
67.5°	1.7	1.7	1.7	2.3	2.9
70°	1.7	1.7	1.7	2.3	2.3
72.5°	2.3	1.7	1.7	2.3	2.3
75°	1.7	1.7	1.7	1.7	1.7
77.5°	1.7	1.7	1.2	1.7	1.7
80°	1.7	1.2	1.2	1.2	1.2
82.5°	1.7	1.2	1.2	1.2	1.2
85°	1.7	1.2	0.6	0.6	0.6
87.5°	1.7	1.2	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)