

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: P1335701

Luminaire Tested: P3A02R409040DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R409040DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

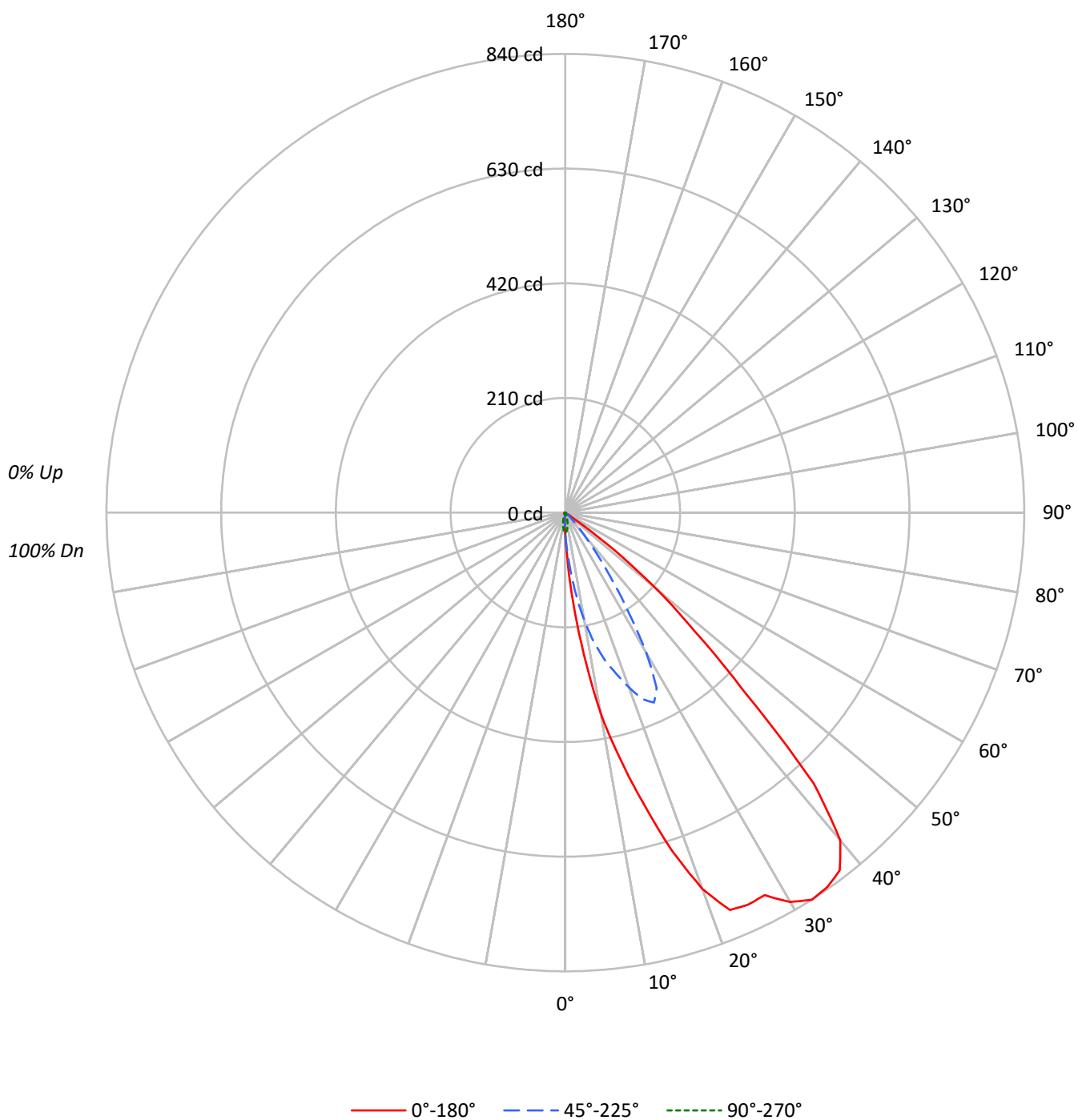
Lumens per Lamp: N/A
Luminaire Lumens: 310.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8048	8048	8048	8048	8048
5°	36275	23134	7220	2773	2025
10°	83187	44689	5077	1002	757
15°	124859	63406	3156	545	477
20°	170955	79480	1843	303	373
25°	191624	92860	944	242	315
30°	208437	74974	405	203	329
35°	224005	38360	134	268	428
40°	224106	15286	86	286	515
45°	143085	5117	155	496	744
50°	74266	614	273	614	887
55°	6423	115	306	803	1109
60°	219	132	351	921	1272
65°	259	156	519	934	1349
70°	192	192	641	1026	1346
75°	254	254	678	1101	1525
80°	379	379	1010	1010	1263
85°	0	755	2013	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 143085 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	2.3
10°-20°	42.0	13.5
20°-30°	91.9	29.6
30°-40°	104.7	33.8
40°-50°	55.2	17.8
50°-60°	6.5	2.1
60°-70°	1.2	0.4
70°-80°	1.0	0.3
80°-90°	0.4	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°	141.0	45.5
0°-40°	245.7	79.3
0°-60°	307.4	99.2
0°-90°	310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	310.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	165	105	33	13	9	22
15°	550	279	14	2	2	162
25°	792	384	4	1	1	365
35°	837	143	0	1	2	519
45°	461	16	0	2	2	372
55°	17	0	1	2	3	52
65°	0	0	1	2	3	0
75°	0	0	1	1	2	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°	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
2.5°	81.7	81.7	81.5	79.1	78.9	78.6	74.4	73.4	68.4	65.0	49.5
5°	164.8	161.1	160.9	156.7	149.6	140.2	134.1	124.5	115.0	105.1	61.0
7.5°	262.5	265.7	257.0	252.6	236.9	225.6	208.3	193.1	171.9	152.0	70.5
10°	373.6	368.1	359.5	350.8	333.8	313.6	287.9	261.0	230.3	200.7	75.7
12.5°	460.3	453.3	448.0	436.2	419.5	393.5	362.9	326.7	286.1	243.4	75.5
15°	550.0	542.9	531.1	520.6	495.7	466.6	433.4	385.7	335.9	279.3	70.0
17.5°	648.5	639.3	626.2	610.2	586.1	553.9	511.7	453.5	383.1	308.6	60.0
20°	732.6	727.1	714.0	695.1	671.5	640.1	591.3	526.9	441.0	340.6	47.7
22.5°	787.6	782.6	773.7	757.2	739.4	705.8	661.3	590.6	489.4	369.7	36.2
25°	792.0	789.9	787.6	782.1	771.3	747.5	704.0	627.8	519.6	383.8	26.7
27.5°	789.7	788.9	788.4	785.5	778.4	754.8	710.3	633.3	515.6	361.8	19.7
30°	823.2	820.9	819.6	810.1	791.5	755.1	696.9	603.7	458.2	296.1	14.1
32.5°	840.3	839.7	838.4	829.3	803.0	755.6	674.4	532.1	363.4	213.8	9.7
35°	836.8	834.2	829.5	812.5	776.1	716.6	601.6	425.0	262.3	143.3	6.3
37.5°	825.3	819.3	810.1	779.5	731.0	649.8	487.9	312.8	178.4	92.8	3.7
40°	782.9	774.8	760.3	722.9	659.2	535.5	360.8	211.4	117.1	53.4	1.0
42.5°	673.1	662.6	652.1	610.2	537.4	399.3	237.4	130.7	66.8	29.3	0.3
45°	461.4	448.3	433.9	403.5	345.1	241.8	141.2	73.6	34.6	16.5	0.3
47.5°	320.4	314.4	289.3	250.5	192.1	128.1	73.1	36.2	18.3	7.6	0.3
50°	217.7	210.9	181.6	144.1	102.2	61.3	33.5	18.1	8.1	1.8	0.3
52.5°	114.2	105.9	87.2	66.5	41.4	25.7	14.7	7.9	2.4	0.3	0.3
55°	16.8	15.5	12.6	10.2	9.2	7.1	4.2	1.8	0.3	0.3	0.5
57.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.5	0.3	0.3	0.3	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
67.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5	0.8
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5
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°	36.7	36.7	36.7	36.7	36.7
2.5°	36.2	26.7	20.7	17.8	17.6
5°	32.8	19.1	12.6	9.7	9.2
7.5°	27.8	13.4	7.3	5.2	5.0
10°	22.8	9.2	4.5	3.7	3.4
12.5°	18.1	6.0	3.1	2.9	2.6
15°	13.9	3.9	2.4	2.1	2.1
17.5°	10.5	2.6	1.8	1.8	1.8
20°	7.9	1.8	1.3	1.6	1.6
22.5°	5.5	1.3	1.0	1.3	1.3
25°	3.9	1.0	1.0	1.3	1.3
27.5°	2.6	0.8	0.8	1.0	1.3
30°	1.6	0.5	0.8	1.0	1.3
32.5°	0.8	0.5	0.8	1.3	1.3
35°	0.5	0.8	1.0	1.3	1.6
37.5°	0.3	0.8	1.0	1.6	1.6
40°	0.3	0.8	1.0	1.6	1.8
42.5°	0.5	1.0	1.3	1.8	2.1
45°	0.5	1.0	1.6	2.1	2.4
47.5°	0.5	1.0	1.8	2.4	2.4
50°	0.8	1.3	1.8	2.4	2.6
52.5°	0.8	1.3	1.8	2.6	2.9
55°	0.8	1.3	2.1	2.6	2.9
57.5°	0.8	1.6	2.1	2.6	2.9
60°	0.8	1.3	2.1	2.6	2.9
62.5°	1.0	1.3	1.8	2.6	2.6
65°	1.0	1.3	1.8	2.6	2.6
67.5°	1.0	1.3	1.8	2.4	2.4
70°	1.0	1.3	1.6	2.1	2.1
72.5°	1.0	1.3	1.6	1.8	2.1
75°	0.8	1.0	1.3	1.6	1.8
77.5°	0.8	1.0	1.0	1.6	1.6
80°	0.8	0.8	0.8	1.0	1.0
82.5°	0.8	0.8	0.5	0.8	0.8
85°	0.8	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)