

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: P1335621

Luminaire Tested: P3A02R409024DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335621
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: P3A02R409024DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 2400K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

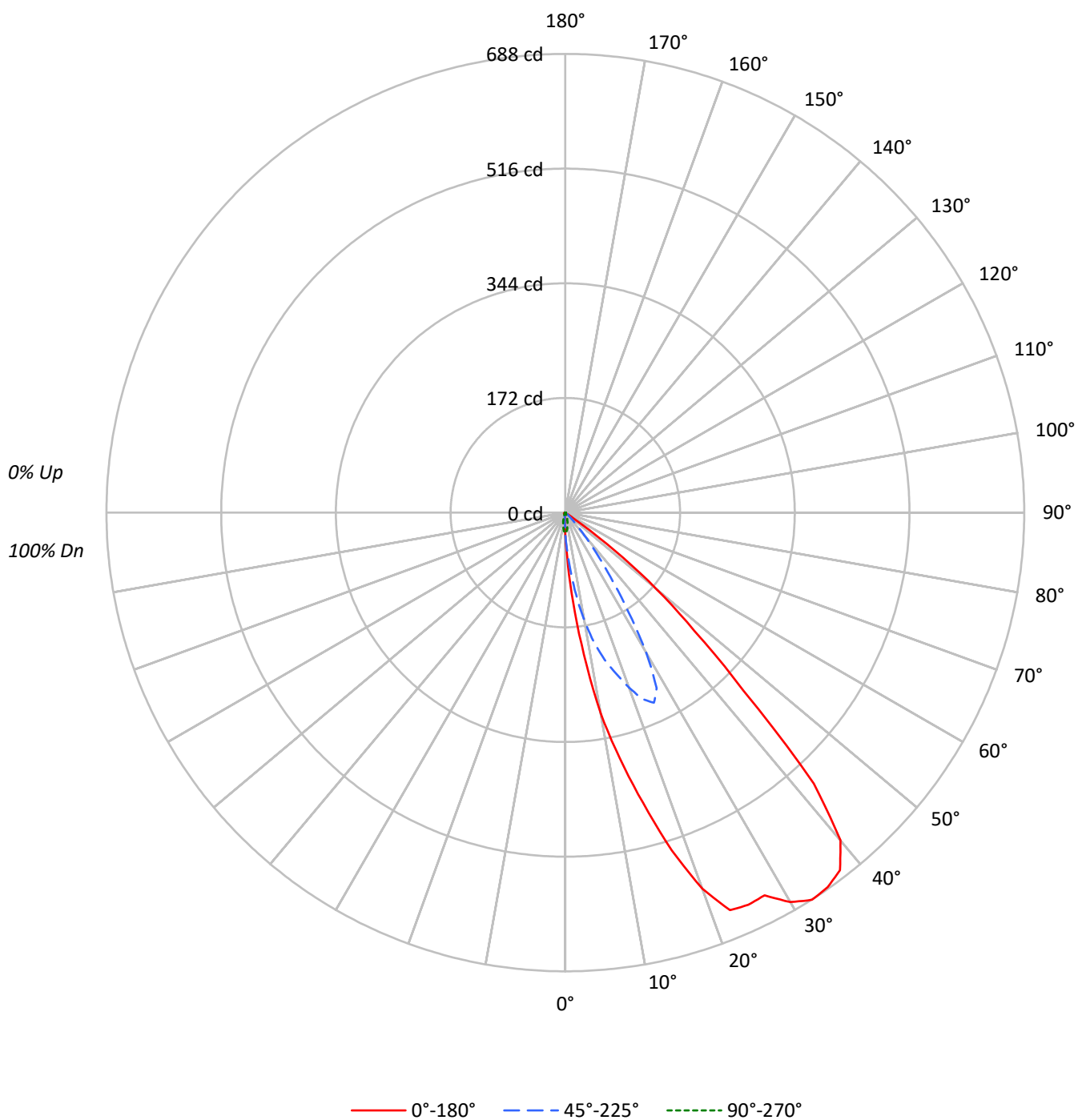
Lumens per Lamp: N/A
Luminaire Lumens: 253.9 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 2.52 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6600	6600	6600	6600	6600
5°	29716	18952	5899	2267	1651
10°	68157	36606	4164	802	623
15°	102293	51941	2588	431	386
20°	140059	65129	1493	257	303
25°	157025	76093	774	218	266
30°	170786	61427	329	152	279
35°	183557	31427	107	241	348
40°	183630	12538	57	258	429
45°	117221	4186	124	403	589
50°	60859	512	205	512	716
55°	5238	76	229	650	918
60°	175	88	263	746	1053
65°	208	104	467	778	1090
70°	128	128	577	833	1090
75°	169	169	508	932	1271
80°	253	253	758	758	1137
85°	0	503	1510	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 117221 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	2.3
10°-20°	34.4	13.5
20°-30°	75.3	29.7
30°-40°	85.8	33.8
40°-50°	45.3	17.8
50°-60°	5.3	2.1
60°-70°	0.9	0.4
70°-80°	0.8	0.3
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°	115.5	45.5
0°-40°	201.3	79.3
0°-60°	251.9	99.2
0°-90°	253.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	253.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	135	86	27	10	8	18
15°	451	229	11	2	2	133
25°	649	314	3	1	1	299
35°	686	117	0	1	1	425
45°	378	14	0	1	2	305
55°	14	0	1	2	2	43
65°	0	0	1	2	2	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°	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
2.5°	67.0	67.0	66.8	64.8	64.6	64.4	61.0	60.1	56.0	53.2	40.6
5°	135.0	132.0	131.8	128.4	122.6	114.9	109.9	102.0	94.2	86.1	50.0
7.5°	215.1	217.7	210.6	206.9	194.1	184.8	170.7	158.2	140.8	124.5	57.7
10°	306.1	301.6	294.5	287.5	273.5	257.0	235.9	213.8	188.7	164.4	62.0
12.5°	377.2	371.4	367.1	357.4	343.7	322.4	297.3	267.7	234.4	199.4	61.8
15°	450.6	444.8	435.1	426.6	406.2	382.3	355.1	316.0	275.2	228.8	57.3
17.5°	531.3	523.8	513.1	500.0	480.2	453.8	419.3	371.6	313.9	252.9	49.2
20°	600.2	595.7	585.0	569.5	550.2	524.5	484.5	431.7	361.3	279.1	39.1
22.5°	645.3	641.2	633.9	620.4	605.8	578.3	541.8	483.9	401.0	302.9	29.6
25°	649.0	647.2	645.3	640.8	632.0	612.5	576.8	514.4	425.7	314.5	21.9
27.5°	647.0	646.4	646.0	643.6	637.8	618.5	582.0	518.9	422.5	296.5	16.1
30°	674.5	672.6	671.5	663.8	648.5	618.7	571.0	494.6	375.5	242.6	11.6
32.5°	688.5	688.0	687.0	679.5	658.0	619.1	552.6	436.0	297.8	175.2	7.9
35°	685.7	683.5	679.7	665.7	635.9	587.1	492.9	348.2	214.9	117.4	5.2
37.5°	676.2	671.3	663.8	638.7	598.9	532.4	399.7	256.3	146.2	76.0	3.0
40°	641.5	634.8	623.0	592.3	540.1	438.8	295.6	173.2	96.0	43.8	0.9
42.5°	551.5	542.9	534.3	500.0	440.3	327.2	194.5	107.1	54.7	24.0	0.2
45°	378.0	367.3	355.5	330.6	282.7	198.1	115.7	60.3	28.3	13.5	0.2
47.5°	262.5	257.6	237.0	205.2	157.4	105.0	59.9	29.6	15.0	6.2	0.2
50°	178.4	172.8	148.8	118.1	83.7	50.2	27.5	14.8	6.7	1.5	0.2
52.5°	93.6	86.7	71.5	54.5	33.9	21.0	12.0	6.4	1.9	0.2	0.2
55°	13.7	12.7	10.3	8.4	7.5	5.8	3.4	1.5	0.2	0.2	0.4
57.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.4	0.2	0.2	0.2	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
67.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.6
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	0.4	0.6
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	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°	30.1	30.1	30.1	30.1	30.1
2.5°	29.6	21.9	17.0	14.6	14.4
5°	26.8	15.7	10.3	7.9	7.5
7.5°	22.8	10.9	6.0	4.3	4.1
10°	18.7	7.5	3.6	3.0	2.8
12.5°	14.8	4.9	2.6	2.4	2.1
15°	11.4	3.2	1.9	1.7	1.7
17.5°	8.6	2.1	1.5	1.5	1.5
20°	6.4	1.5	1.1	1.3	1.3
22.5°	4.5	1.1	0.9	1.1	1.1
25°	3.2	0.9	0.9	1.1	1.1
27.5°	2.1	0.6	0.6	0.9	1.1
30°	1.3	0.4	0.6	0.9	1.1
32.5°	0.6	0.4	0.6	1.1	1.1
35°	0.4	0.6	0.9	1.1	1.3
37.5°	0.2	0.6	0.9	1.3	1.3
40°	0.2	0.6	0.9	1.3	1.5
42.5°	0.4	0.9	1.1	1.5	1.7
45°	0.4	0.9	1.3	1.7	1.9
47.5°	0.4	0.9	1.5	1.9	1.9
50°	0.6	1.1	1.5	1.9	2.1
52.5°	0.6	1.1	1.5	2.1	2.4
55°	0.6	1.1	1.7	2.1	2.4
57.5°	0.6	1.3	1.7	2.1	2.4
60°	0.6	1.1	1.7	2.1	2.4
62.5°	0.9	1.1	1.5	2.1	2.1
65°	0.9	1.1	1.5	2.1	2.1
67.5°	0.9	1.1	1.5	1.9	1.9
70°	0.9	1.1	1.3	1.7	1.7
72.5°	0.9	1.1	1.3	1.5	1.7
75°	0.6	0.9	1.1	1.3	1.5
77.5°	0.6	0.9	0.9	1.3	1.3
80°	0.6	0.6	0.6	0.9	0.9
82.5°	0.6	0.6	0.4	0.6	0.6
85°	0.6	0.4	0.4	0.4	0.4
87.5°	0.4	0.4	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)