

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: P1336165

Luminaire Tested: P3A02R459835DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R459835DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

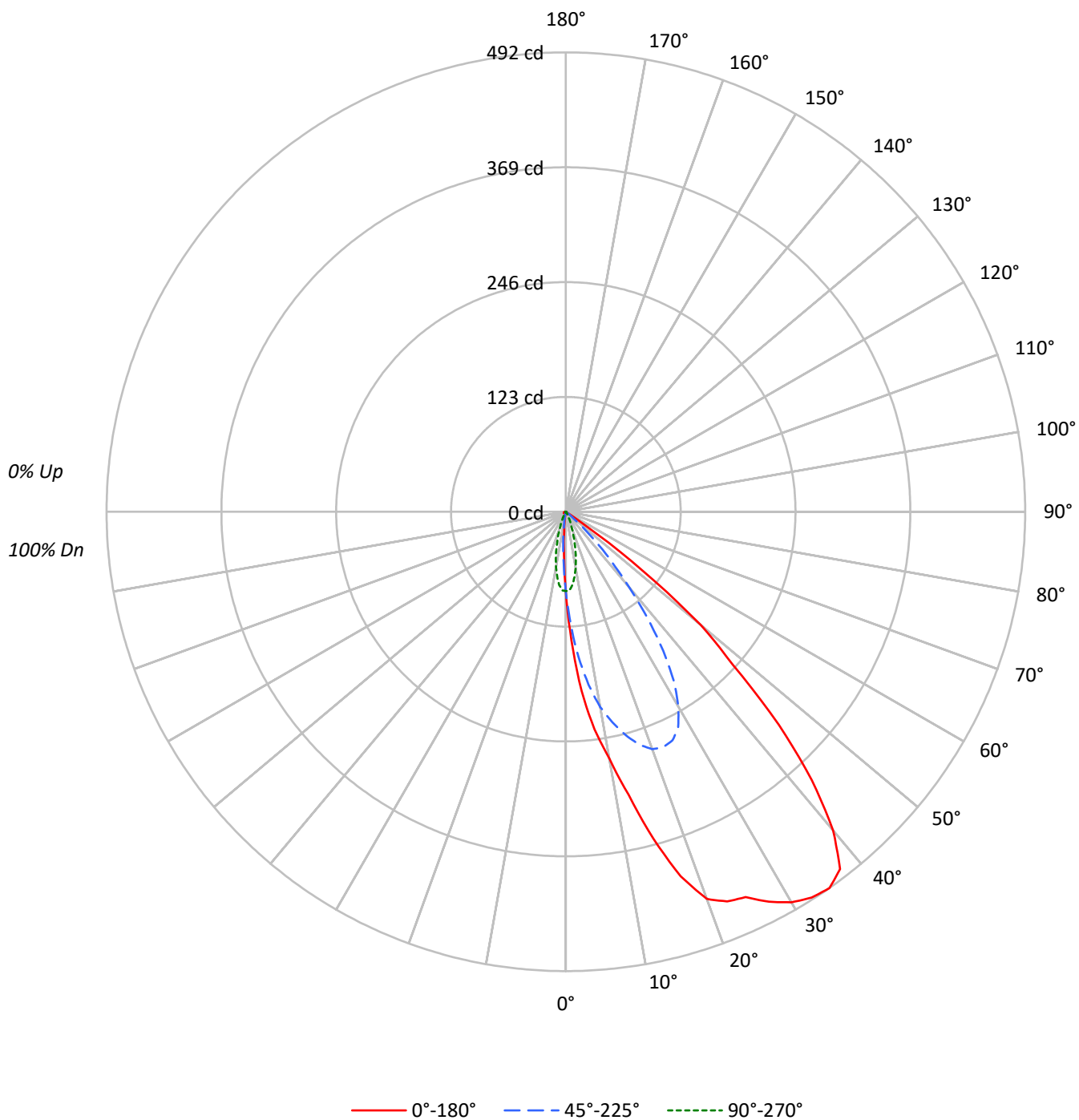
Lumens per Lamp: N/A
Luminaire Lumens: 223.0 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	93	90	94	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	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	81	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	57	52	62	56	51	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	42	42	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°	18617	18617	18617	18617	18617
5°	42417	34404	17411	6978	4755
10°	59763	47249	13449	1536	713
15°	82339	56232	8604	499	431
20°	102979	63145	4480	350	350
25°	110184	65375	2081	266	315
30°	122297	61047	937	279	329
35°	131758	48666	294	294	402
40°	127496	30171	172	372	487
45°	100103	14234	186	465	589
50°	64305	1637	239	580	751
55°	9787	153	268	726	918
60°	175	175	307	833	965
65°	208	208	363	882	1141
70°	256	256	449	962	1346
75°	169	339	593	1101	1440
80°	253	505	758	1137	1642
85°	0	503	1006	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 100103 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	4.2
10°-20°	33.6	15.1
20°-30°	59.0	26.4
30°-40°	67.0	30.0
40°-50°	43.4	19.4
50°-60°	8.5	3.8
60°-70°	1.0	0.5
70°-80°	0.9	0.4
80°-90°	0.4	0.2
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°	101.8	45.7
0°-40°	168.8	75.7
0°-60°	220.7	99.0
0°-90°	223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	223.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	85	85	85	85	85	
5°	193	156	79	32	22	21
15°	363	248	38	2	2	105
25°	455	270	9	1	1	213
35°	492	182	1	1	2	303
45°	323	46	1	2	2	243
55°	26	0	1	2	2	49
65°	0	0	1	2	2	0
75°	0	0	1	1	2	0
85°	0	0	0	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°	50°
0°	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
2.5°	137.8	137.4	138.0	134.3	134.1	131.3	130.5	127.4	123.1	121.0	116.2
5°	192.7	190.8	190.8	186.3	184.8	181.6	176.2	169.5	163.9	156.3	148.1
7.5°	235.0	234.6	234.6	230.7	227.0	222.5	215.2	207.6	198.6	186.9	174.9
10°	268.4	268.9	267.2	263.7	258.3	253.4	244.9	235.5	224.5	212.2	196.4
12.5°	310.5	306.4	305.1	297.1	290.2	280.9	270.6	260.0	246.4	230.9	213.0
15°	362.7	357.5	352.3	341.7	330.1	315.7	299.7	284.0	266.5	247.7	225.3
17.5°	409.4	409.4	402.5	385.7	370.8	349.5	327.9	307.0	286.3	261.5	233.5
20°	441.3	439.6	434.4	422.0	405.1	381.0	352.9	323.6	298.6	270.6	238.2
22.5°	451.7	451.3	451.5	444.2	430.6	405.6	371.1	336.6	305.3	272.8	235.9
25°	455.4	456.2	458.0	455.2	445.0	420.0	382.3	342.8	307.3	270.2	227.3
27.5°	470.9	469.4	471.5	469.6	458.0	428.2	384.6	341.3	302.9	260.7	212.0
30°	483.0	482.7	486.2	484.5	469.4	433.4	382.5	335.7	291.9	241.1	188.0
32.5°	489.9	490.1	491.0	484.1	461.8	422.0	372.4	324.3	271.2	215.6	156.7
35°	492.2	491.0	485.8	468.9	438.3	395.7	347.6	297.3	243.0	181.8	123.8
37.5°	482.5	476.7	463.3	437.9	402.5	362.7	315.9	263.1	204.4	143.6	92.3
40°	445.4	437.7	420.7	394.8	361.8	323.4	275.5	220.3	158.5	105.4	64.9
42.5°	389.8	385.9	368.1	345.6	317.6	278.8	229.4	173.4	117.3	72.7	41.4
45°	322.8	317.8	306.6	286.6	264.6	224.0	177.9	124.2	80.0	45.9	20.5
47.5°	242.1	242.4	234.8	219.7	198.1	164.1	121.8	83.4	50.2	23.7	4.7
50°	188.5	185.9	175.1	159.6	134.5	109.3	78.7	52.6	26.5	4.8	0.4
52.5°	104.4	106.1	100.3	95.3	82.2	65.3	46.4	26.7	5.6	0.6	0.4
55°	25.6	27.0	25.9	26.5	27.4	24.4	18.8	5.2	0.6	0.4	0.4
57.5°	0.6	0.6	0.6	0.6	0.9	1.3	1.3	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.2	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	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
2.5°	113.8	110.2	103.7	84.3	67.7	54.6	46.8	46.1
5°	140.8	131.3	117.5	79.1	50.0	31.7	22.9	21.6
7.5°	162.3	148.8	127.6	70.5	34.1	16.2	9.0	7.5
10°	180.0	160.9	132.8	60.4	21.4	6.9	3.7	3.2
12.5°	192.1	169.2	133.7	49.2	12.3	3.4	2.4	2.2
15°	199.9	171.8	129.2	37.9	6.9	2.2	2.1	1.9
17.5°	203.1	169.5	120.7	27.4	3.7	1.7	1.7	1.7
20°	201.6	162.3	108.0	19.2	2.4	1.5	1.5	1.5
22.5°	194.5	149.8	92.1	12.9	1.7	1.3	1.3	1.3
25°	180.5	132.8	75.3	8.6	1.1	1.1	1.3	1.3
27.5°	159.6	111.9	57.6	5.8	0.9	1.1	1.3	1.3
30°	133.3	88.6	41.4	3.7	0.9	1.1	1.1	1.3
32.5°	105.9	64.5	27.2	2.2	0.7	1.1	1.3	1.5
35°	76.8	44.0	17.3	1.1	0.9	1.1	1.3	1.5
37.5°	53.9	28.7	10.1	0.7	0.9	1.1	1.5	1.5
40°	35.1	16.0	3.7	0.6	0.9	1.3	1.5	1.7
42.5°	18.3	5.6	0.7	0.6	0.9	1.3	1.7	1.9
45°	4.7	0.7	0.2	0.6	1.1	1.5	1.9	1.9
47.5°	0.6	0.2	0.2	0.7	1.1	1.7	1.9	2.1
50°	0.2	0.4	0.4	0.7	1.1	1.7	2.1	2.2
52.5°	0.4	0.4	0.4	0.7	1.3	1.7	2.2	2.4
55°	0.4	0.4	0.4	0.7	1.3	1.9	2.2	2.4
57.5°	0.4	0.4	0.4	0.7	1.3	1.9	2.2	2.2
60°	0.4	0.4	0.4	0.7	1.3	1.9	2.2	2.2
62.5°	0.4	0.4	0.6	0.7	1.3	1.7	2.2	2.2
65°	0.4	0.6	0.6	0.7	1.3	1.7	2.1	2.2
67.5°	0.4	0.4	0.6	0.7	1.3	1.7	2.1	2.2
70°	0.4	0.4	0.6	0.7	1.1	1.5	1.9	2.1
72.5°	0.4	0.4	0.6	0.7	1.1	1.5	1.7	1.9
75°	0.4	0.4	0.6	0.7	0.9	1.3	1.7	1.7
77.5°	0.4	0.4	0.6	0.6	0.9	1.1	1.5	1.5
80°	0.4	0.4	0.6	0.6	0.7	0.9	1.1	1.3
82.5°	0.4	0.4	0.4	0.6	0.6	0.7	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
87.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)