

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: P1335957

Luminaire Tested: P3A02R459024DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335957
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: P3A02R459024DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

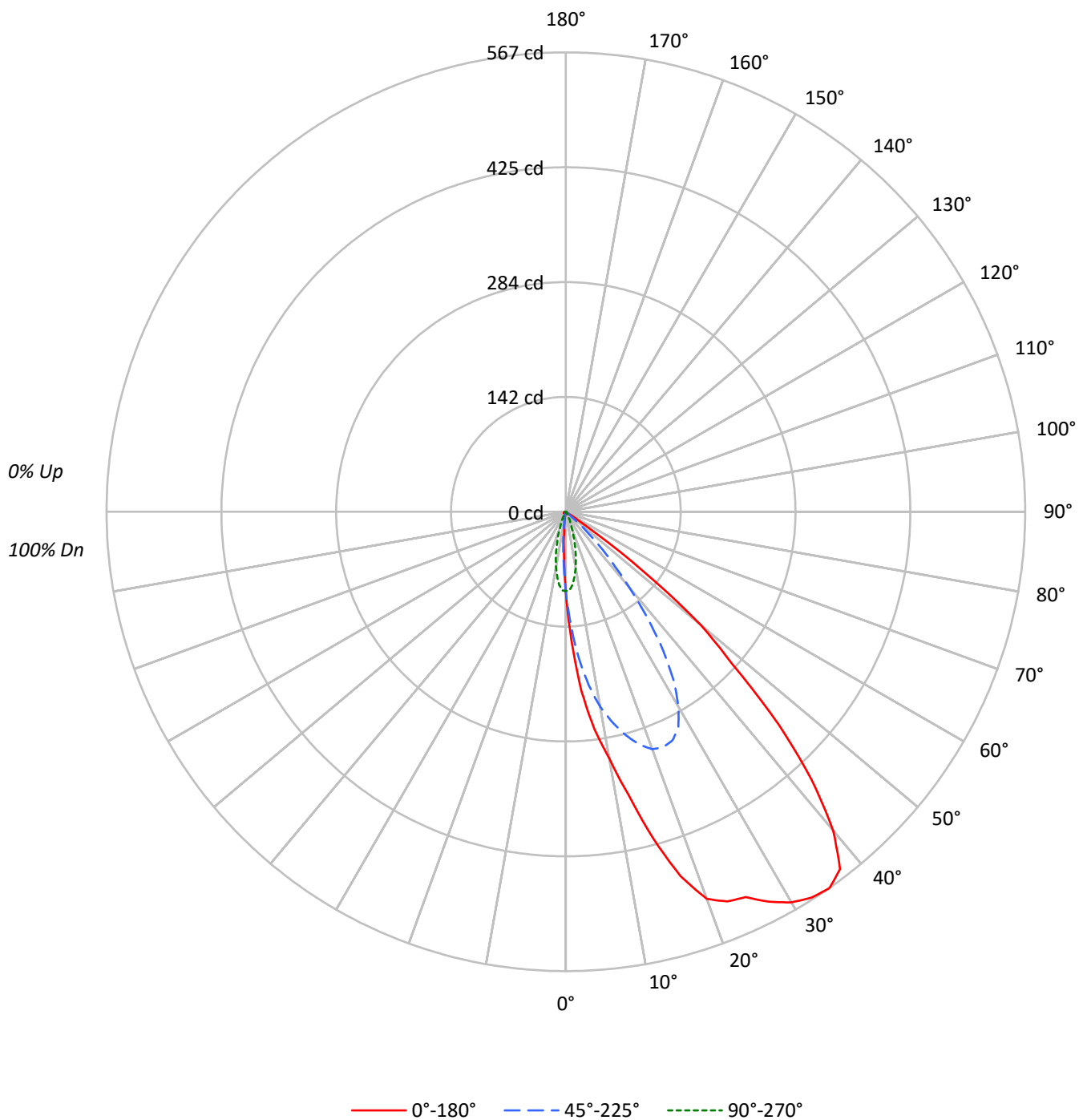
Lumens per Lamp: N/A
Luminaire Lumens: 256.9 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1335957

CATALOG NUMBER: P3A02R459024DE010 E3CA301MW

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	95	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°	21446	21446	21446	21446	21446
5°	48866	39643	20053	8034	5481
10°	68870	54463	15497	1781	824
15°	94893	64790	9898	590	477
20°	118660	72783	5157	397	397
25°	126999	75343	2395	315	363
30°	140958	70365	1089	329	380
35°	151835	56108	348	348	455
40°	146932	34751	172	429	544
45°	115361	16405	186	527	651
50°	74130	1910	307	648	887
55°	11240	153	344	803	1070
60°	175	175	395	921	1140
65°	208	208	467	986	1349
70°	256	256	577	1090	1539
75°	169	339	763	1271	1610
80°	253	505	758	1389	1894
85°	0	503	1006	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 115361 cd/sqm

TEST NUMBER: P1335957

CATALOG NUMBER: P3A02R459024DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.7	4.2
10°-20°	38.7	15.1
20°-30°	68.0	26.5
30°-40°	77.2	30.0
40°-50°	50.0	19.5
50°-60°	9.8	3.8
60°-70°	1.2	0.5
70°-80°	1.0	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°	117.4	45.7
0°-40°	194.6	75.7
0°-60°	254.4	99.0
0°-90°	256.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	256.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	98	98	98	98	98	
5°	222	180	91	36	25	24
15°	418	285	44	3	2	120
25°	525	311	10	1	2	246
35°	567	210	1	1	2	349
45°	372	53	1	2	2	280
55°	29	0	1	2	3	56
65°	0	0	1	2	3	0
75°	0	0	1	2	2	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1335957

CATALOG NUMBER: P3A02R459024DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
2.5°	158.8	158.4	159.0	154.8	154.5	151.3	150.5	146.8	141.9	139.5	133.9
5°	222.0	219.9	219.9	214.7	213.0	209.3	203.1	195.4	188.9	180.1	170.7
7.5°	270.8	270.4	270.4	265.9	261.6	256.4	248.0	239.2	228.9	215.4	201.6
10°	309.3	309.9	308.0	303.9	297.7	292.1	282.2	271.5	258.8	244.6	226.3
12.5°	357.9	353.1	351.6	342.4	334.4	323.7	311.9	299.6	283.9	266.1	245.5
15°	418.0	412.0	406.0	393.8	380.4	363.9	345.4	327.3	307.1	285.4	259.6
17.5°	471.8	471.8	463.8	444.5	427.3	402.8	377.8	353.8	329.9	301.3	269.1
20°	508.5	506.6	500.6	486.4	466.8	439.1	406.6	372.9	344.1	311.9	274.5
22.5°	520.6	520.1	520.3	512.0	496.3	467.5	427.7	388.0	351.8	314.4	271.9
25°	524.9	525.7	527.9	524.6	512.8	484.0	440.6	395.0	354.2	311.4	262.0
27.5°	542.7	541.0	543.3	541.2	527.9	493.5	443.2	393.3	349.0	300.5	244.4
30°	556.7	556.2	560.3	558.4	541.0	499.5	440.8	386.9	336.4	277.9	216.7
32.5°	564.6	564.8	565.9	558.0	532.2	486.4	429.2	373.8	312.5	248.5	180.5
35°	567.2	565.9	559.9	540.3	505.1	456.1	400.6	342.6	280.1	209.6	142.7
37.5°	556.0	549.4	533.9	504.7	463.8	418.0	364.1	303.3	235.6	165.5	106.4
40°	513.3	504.4	484.9	455.0	417.0	372.7	317.5	253.8	182.7	121.4	74.8
42.5°	449.2	444.7	424.3	398.3	366.0	321.3	264.4	199.9	135.2	83.8	47.7
45°	372.0	366.2	353.3	330.3	305.0	258.1	205.0	143.1	92.2	52.9	23.6
47.5°	279.0	279.4	270.6	253.2	228.3	189.1	140.3	96.1	57.8	27.3	5.4
50°	217.3	214.3	201.8	184.0	155.0	125.9	90.7	60.6	30.5	5.6	0.4
52.5°	120.4	122.3	115.6	109.8	94.8	75.2	53.5	30.7	6.4	0.6	0.4
55°	29.4	31.2	29.9	30.5	31.6	28.2	21.7	6.0	0.6	0.4	0.4
57.5°	0.6	0.6	0.6	0.6	1.1	1.5	1.5	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

TEST NUMBER: P1335957

CATALOG NUMBER: P3A02R459024DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
2.5°	131.1	127.0	119.5	97.1	78.0	63.0	53.9	53.1
5°	162.3	151.3	135.4	91.1	57.6	36.5	26.4	24.9
7.5°	187.0	171.5	147.0	81.2	39.3	18.7	10.3	8.6
10°	207.4	185.5	153.0	69.6	24.7	8.0	4.3	3.7
12.5°	221.4	194.9	154.1	56.7	14.2	3.9	2.8	2.6
15°	230.4	198.0	148.9	43.6	8.0	2.6	2.4	2.1
17.5°	234.1	195.4	139.1	31.6	4.3	1.9	1.9	1.9
20°	232.3	187.0	124.4	22.1	2.8	1.7	1.7	1.7
22.5°	224.2	172.6	106.2	14.8	1.9	1.5	1.5	1.5
25°	208.1	153.0	86.8	9.9	1.3	1.3	1.5	1.5
27.5°	184.0	129.0	66.4	6.7	1.1	1.3	1.5	1.5
30°	153.7	102.1	47.7	4.3	1.1	1.3	1.3	1.5
32.5°	122.1	74.4	31.4	2.6	0.9	1.3	1.5	1.7
35°	88.6	50.7	20.0	1.3	1.1	1.3	1.5	1.7
37.5°	62.1	33.1	11.6	0.9	1.1	1.3	1.7	1.7
40°	40.4	18.5	4.3	0.6	1.1	1.5	1.7	1.9
42.5°	21.1	6.4	0.9	0.6	1.1	1.5	1.9	2.1
45°	5.4	0.9	0.2	0.6	1.3	1.7	2.1	2.1
47.5°	0.6	0.2	0.2	0.9	1.3	1.9	2.1	2.4
50°	0.2	0.4	0.4	0.9	1.3	1.9	2.4	2.6
52.5°	0.4	0.4	0.4	0.9	1.5	1.9	2.6	2.8
55°	0.4	0.4	0.4	0.9	1.5	2.1	2.6	2.8
57.5°	0.4	0.4	0.4	0.9	1.5	2.1	2.6	2.6
60°	0.4	0.4	0.4	0.9	1.5	2.1	2.6	2.6
62.5°	0.4	0.4	0.6	0.9	1.5	1.9	2.6	2.6
65°	0.4	0.6	0.6	0.9	1.5	1.9	2.4	2.6
67.5°	0.4	0.4	0.6	0.9	1.5	1.9	2.4	2.6
70°	0.4	0.4	0.6	0.9	1.3	1.7	2.1	2.4
72.5°	0.4	0.4	0.6	0.9	1.3	1.7	1.9	2.1
75°	0.4	0.4	0.6	0.9	1.1	1.5	1.9	1.9
77.5°	0.4	0.4	0.6	0.6	1.1	1.3	1.7	1.7
80°	0.4	0.4	0.6	0.6	0.9	1.1	1.3	1.5
82.5°	0.4	0.4	0.4	0.6	0.6	0.9	1.1	1.1
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)