

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: P1336037

Luminaire Tested: P3A02R459040DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336037
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: P3A02R459040DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

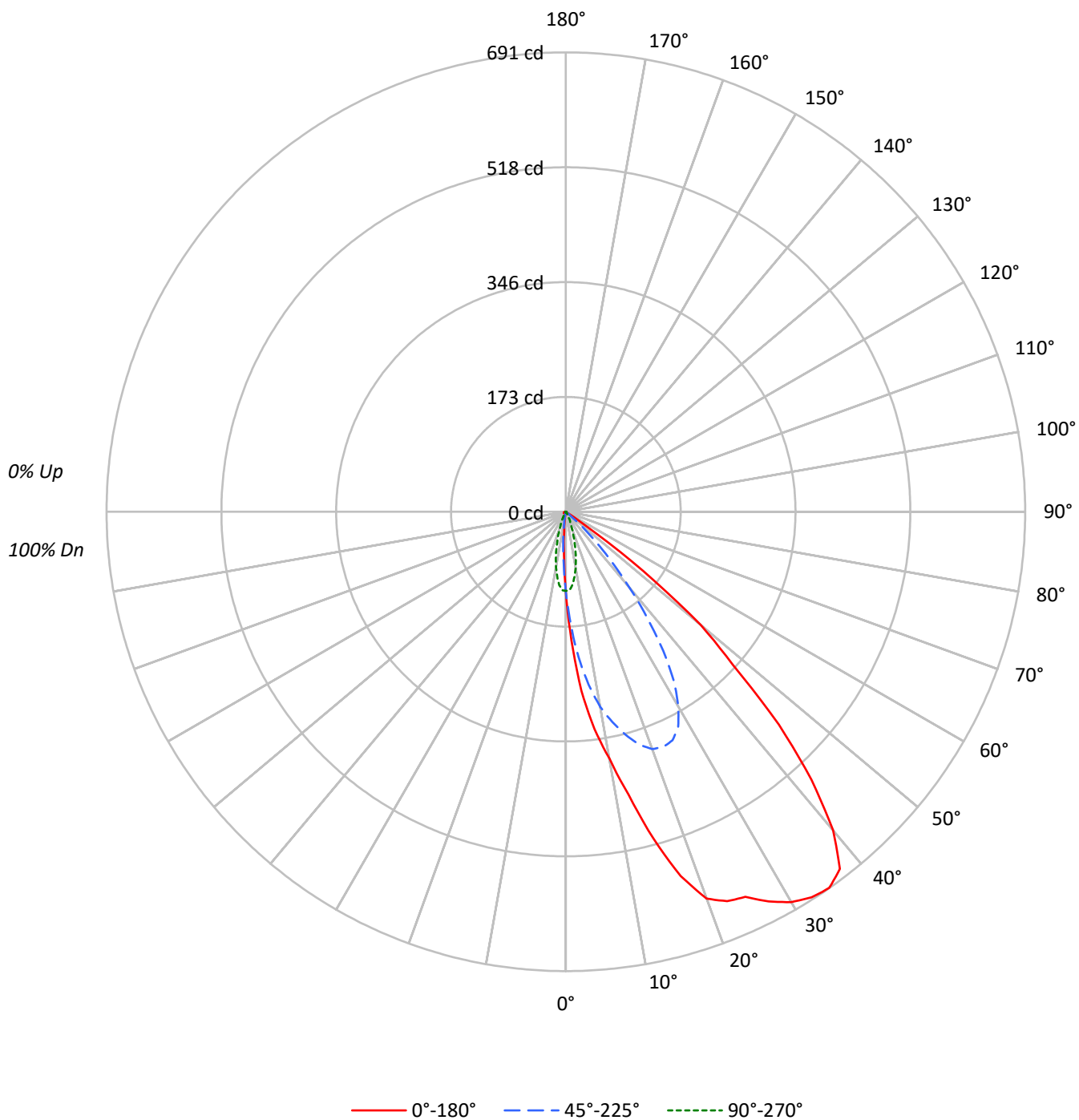
Lumens per Lamp: N/A
Luminaire Lumens: 313.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96
2	105	100	95	91	103	98	93	90	95	91	88		91	88	86		89
3	99	91	85	80	96	89	84	80	87	82	78		84	80	77		82
4	92	83	76	71	90	82	76	71	80	74	70		77	73	69		76
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70
6	81	70	63	57	79	69	62	57	67	61	57		66	60	56		64
7	75	64	57	52	74	63	57	52	62	56	51		61	55	51		60
8	71	59	52	47	69	59	52	47	57	51	47		56	51	47		55
9	66	55	48	43	65	54	47	43	53	47	43		52	47	43		51
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	26116	26116	26116	26116	26116
5°	59520	48294	24433	9795	6692
10°	83877	66331	18882	2160	980
15°	115574	78911	12055	704	590
20°	144516	88628	6301	490	490
25°	154654	91771	2903	387	436
30°	171672	85709	1317	405	456
35°	184922	68315	428	428	562
40°	178935	42336	229	515	687
45°	140511	19971	248	651	806
50°	90266	2320	341	819	1058
55°	13725	191	382	994	1300
60°	219	219	439	1140	1360
65°	259	259	519	1245	1608
70°	321	321	641	1346	1859
75°	254	424	847	1525	2033
80°	379	631	1010	1642	2273
85°	0	755	1258	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 140511 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	4.2
10°-20°	47.1	15.1
20°-30°	82.8	26.5
30°-40°	94.0	30.0
40°-50°	60.9	19.5
50°-60°	11.9	3.8
60°-70°	1.4	0.5
70°-80°	1.2	0.4
80°-90°	0.5	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°	143.0	45.7
0°-40°	237.0	75.7
0°-60°	309.8	99.0
0°-90°	313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	313.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	119	119	119	119	119	
5°	270	219	111	44	30	29
15°	509	348	53	3	3	147
25°	639	379	12	2	2	300
35°	691	255	2	2	2	425
45°	453	64	1	2	3	342
55°	36	0	1	3	3	68
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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1
2.5°	193.4	192.9	193.7	188.5	188.2	184.3	183.2	178.8	172.8	169.9	163.1
5°	270.4	267.8	267.8	261.5	259.4	255.0	247.4	237.9	230.1	219.4	207.8
7.5°	329.8	329.3	329.3	323.8	318.6	312.3	302.1	291.3	278.8	262.3	245.5
10°	376.7	377.5	375.1	370.1	362.5	355.7	343.7	330.6	315.2	297.9	275.6
12.5°	435.8	430.1	428.2	417.0	407.3	394.2	379.8	364.9	345.8	324.1	298.9
15°	509.1	501.8	494.5	479.6	463.3	443.2	420.7	398.7	374.1	347.6	316.2
17.5°	574.6	574.6	564.9	541.3	520.4	490.5	460.2	430.9	401.8	367.0	327.7
20°	619.3	617.0	609.6	592.4	568.6	534.8	495.3	454.2	419.1	379.8	334.3
22.5°	634.0	633.5	633.7	623.5	604.4	569.3	520.9	472.5	428.5	383.0	331.1
25°	639.2	640.3	642.9	639.0	624.6	589.5	536.6	481.1	431.4	379.3	319.1
27.5°	661.0	658.9	661.7	659.1	642.9	601.0	539.8	479.0	425.1	365.9	297.6
30°	678.0	677.4	682.4	680.1	658.9	608.3	536.9	471.2	409.7	338.5	263.9
32.5°	687.7	687.9	689.2	679.5	648.1	592.4	522.7	455.2	380.6	302.6	219.9
35°	690.8	689.2	681.9	658.1	615.1	555.5	487.9	417.3	341.1	255.2	173.8
37.5°	677.2	669.1	650.2	614.6	564.9	509.1	443.4	369.3	286.9	201.6	129.6
40°	625.1	614.4	590.5	554.2	507.8	453.9	386.6	309.1	222.5	147.9	91.1
42.5°	547.1	541.6	516.7	485.0	445.8	391.3	322.0	243.4	164.6	102.1	58.1
45°	453.1	446.0	430.3	402.3	371.4	314.4	249.7	174.3	112.3	64.4	28.8
47.5°	339.8	340.3	329.6	308.4	278.0	230.4	170.9	117.0	70.4	33.2	6.5
50°	264.6	261.0	245.8	224.1	188.7	153.4	110.5	73.8	37.2	6.8	0.5
52.5°	146.6	148.9	140.8	133.8	115.4	91.6	65.2	37.4	7.9	0.8	0.5
55°	35.9	38.0	36.4	37.2	38.5	34.3	26.4	7.3	0.8	0.5	0.5
57.5°	0.8	0.8	0.8	0.8	1.3	1.8	1.8	0.5	0.5	0.5	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
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°	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1
2.5°	159.7	154.7	145.5	118.3	95.0	76.7	65.7	64.7
5°	197.6	184.3	164.9	111.0	70.2	44.5	32.2	30.4
7.5°	227.7	208.9	179.0	98.9	47.9	22.8	12.6	10.5
10°	252.6	225.9	186.4	84.8	30.1	9.7	5.2	4.4
12.5°	269.6	237.4	187.7	69.1	17.3	4.7	3.4	3.1
15°	280.6	241.1	181.4	53.1	9.7	3.1	2.9	2.6
17.5°	285.1	237.9	169.4	38.5	5.2	2.4	2.4	2.4
20°	283.0	227.7	151.6	27.0	3.4	2.1	2.1	2.1
22.5°	273.0	210.2	129.3	18.1	2.4	1.8	1.8	1.8
25°	253.4	186.4	105.8	12.0	1.6	1.6	1.8	1.8
27.5°	224.1	157.1	80.9	8.1	1.3	1.6	1.8	1.8
30°	187.2	124.3	58.1	5.2	1.3	1.6	1.6	1.8
32.5°	148.7	90.6	38.2	3.1	1.0	1.6	1.8	2.1
35°	107.8	61.8	24.3	1.6	1.3	1.6	1.8	2.1
37.5°	75.6	40.3	14.1	1.0	1.3	1.6	2.1	2.1
40°	49.2	22.5	5.2	0.8	1.3	1.8	2.1	2.4
42.5°	25.7	7.9	1.0	0.8	1.3	1.8	2.4	2.6
45°	6.5	1.0	0.3	0.8	1.6	2.1	2.6	2.6
47.5°	0.8	0.3	0.3	1.0	1.6	2.4	2.6	2.9
50°	0.3	0.5	0.5	1.0	1.6	2.4	2.9	3.1
52.5°	0.5	0.5	0.5	1.0	1.8	2.4	3.1	3.4
55°	0.5	0.5	0.5	1.0	1.8	2.6	3.1	3.4
57.5°	0.5	0.5	0.5	1.0	1.8	2.6	3.1	3.1
60°	0.5	0.5	0.5	1.0	1.8	2.6	3.1	3.1
62.5°	0.5	0.5	0.8	1.0	1.8	2.4	3.1	3.1
65°	0.5	0.8	0.8	1.0	1.8	2.4	2.9	3.1
67.5°	0.5	0.5	0.8	1.0	1.8	2.4	2.9	3.1
70°	0.5	0.5	0.8	1.0	1.6	2.1	2.6	2.9
72.5°	0.5	0.5	0.8	1.0	1.6	2.1	2.4	2.6
75°	0.5	0.5	0.8	1.0	1.3	1.8	2.4	2.4
77.5°	0.5	0.5	0.8	0.8	1.3	1.6	2.1	2.1
80°	0.5	0.5	0.8	0.8	1.0	1.3	1.6	1.8
82.5°	0.5	0.5	0.5	0.8	0.8	1.0	1.3	1.3
85°	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8
87.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)