

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: P1335094

Luminaire Tested: P3A02R309735DE010 E3CA451MB

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R309735DE010 E3CA451MB
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 97CRI , E3CA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

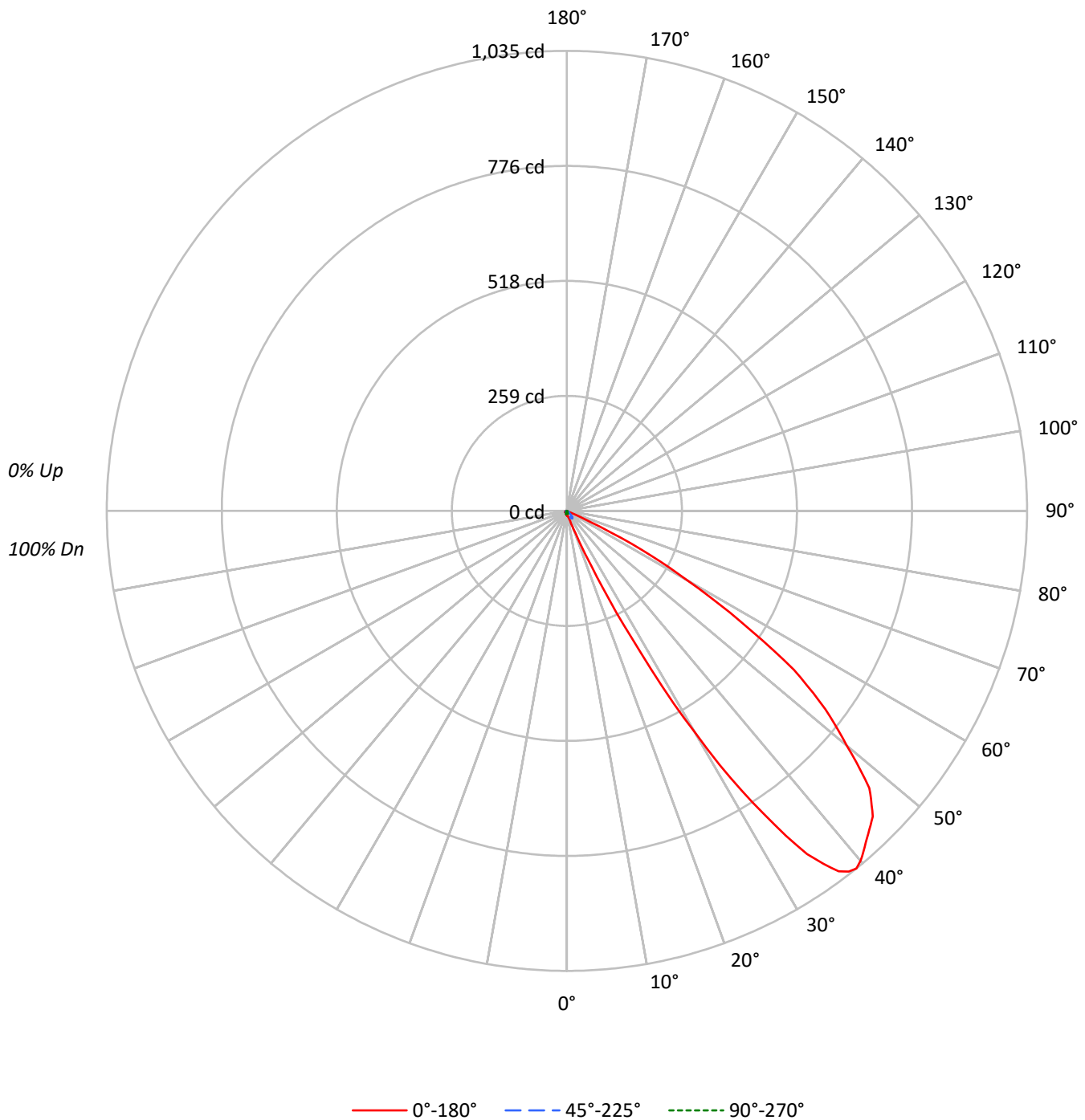
Lumens per Lamp: N/A
Luminaire Lumens: 269.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1335094

CATALOG NUMBER: P3A02R309735DE010 E3CA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1335094

CATALOG NUMBER: P3A02R309735DE010 E3CA451MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92	90	89	87
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	83	71	62	55	80	69	61	55	67	60	54		64	58	53		62	57	52	50
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	42	37	35
7	62	48	38	32	60	47	38	32	45	37	31		44	36	31		42	36	31	29
8	56	42	33	27	55	41	33	27	40	32	26		39	32	26		37	31	26	24
9	52	37	29	23	50	37	28	23	36	28	22		34	27	22		33	27	22	20
10	48	33	25	19	46	33	25	19	32	24	19		31	24	19		30	24	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2281	2281	2281	2281	2281
5°	2443	2399	2245	2047	2003
10°	2672	2360	1959	1759	1715
15°	3905	2361	1657	1498	1544
20°	9824	2590	1260	1260	1423
25°	45680	3242	992	1161	1307
30°	145389	4482	734	1089	1317
35°	252273	5461	616	1044	1338
40°	294208	5439	458	1031	1374
45°	301737	3876	496	1116	1489
50°	280588	2149	375	1160	1706
55°	238481	1109	421	1300	1912
60°	137752	307	482	1403	2105
65°	28122	0	571	1660	2335
70°	449	128	705	1859	2757
75°	424	169	763	1949	3304
80°	253	253	1137	2273	3662
85°	0	503	2264	2264	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 301737 cd/sqm

TEST NUMBER: P1335094

CATALOG NUMBER: P3A02R309735DE010 E3CA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.4
10°-20°	2.7	1.0
20°-30°	15.5	5.8
30°-40°	72.5	26.9
40°-50°	102.5	38.1
50°-60°	63.0	23.4
60°-70°	9.6	3.6
70°-80°	1.5	0.6
80°-90°	0.8	0.3
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°	19.2	7.1
0°-40°	91.6	34.1
0°-60°	257.1	95.6
0°-90°	269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	269.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	11	11	10	9	9	1
15°	17	10	7	7	7	6
25°	189	13	4	5	5	116
35°	942	20	2	4	5	566
45°	973	12	2	4	5	738
55°	624	3	1	3	5	531
65°	54	0	1	3	4	98
75°	0	0	1	2	4	1
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1335094

CATALOG NUMBER: P3A02R309735DE010 E3CA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
2.5°	10.6	10.6	10.9	10.9	10.6	10.9	10.9	10.9	10.4	10.2	9.7
5°	11.1	11.1	11.1	11.3	11.1	11.1	10.9	10.6	10.2	9.5	9.3
7.5°	11.6	11.6	11.3	11.6	11.3	11.3	10.9	10.4	9.7	9.1	8.6
10°	12.0	12.0	11.8	11.8	11.6	11.6	10.6	10.0	8.8	8.2	7.9
12.5°	13.4	13.4	13.1	12.9	12.5	12.2	10.4	9.3	7.9	7.3	7.0
15°	17.2	17.0	16.5	15.9	14.7	14.5	10.4	8.6	7.3	6.6	6.6
17.5°	23.6	23.3	22.7	20.8	18.8	18.1	10.4	7.7	6.3	5.9	5.9
20°	42.1	40.3	36.9	32.4	27.6	25.2	11.1	6.8	5.4	5.2	5.4
21°	55.1	53.2	48.9	41.5	33.1	30.4	11.6	6.6	5.2	5.0	5.4
22°	75.0	73.0	64.1	53.9	41.9	37.2	11.8	6.1	4.8	4.8	5.2
23°	104.7	101.3	86.3	70.0	52.3	45.5	12.2	5.9	4.5	4.8	5.0
24°	137.1	134.1	117.1	92.7	66.8	57.1	12.7	5.7	4.3	4.3	4.8
25°	188.8	185.4	155.2	116.9	84.7	68.7	13.4	5.2	4.1	4.1	4.8
26°	255.6	240.0	199.9	150.7	104.5	86.1	14.0	5.0	3.9	4.1	4.5
27°	319.0	306.1	261.0	193.3	129.2	105.8	15.0	4.8	3.6	3.9	4.5
28°	402.4	384.3	327.4	244.5	162.7	128.0	15.9	4.5	3.4	3.9	4.3
29°	495.8	470.4	401.8	302.1	200.5	153.0	16.8	4.3	3.2	3.6	4.3
30°	574.2	550.4	481.7	370.3	244.0	185.8	17.7	4.1	2.9	3.6	4.3
31°	666.2	630.2	547.0	428.0	281.4	218.7	18.6	3.6	2.7	3.4	4.1
32°	740.7	715.6	627.2	493.3	330.6	254.9	19.3	3.4	2.7	3.4	4.1
33°	812.8	779.0	693.6	555.8	375.0	292.1	19.9	3.2	2.5	3.2	4.1
34°	881.7	850.6	756.4	606.4	416.9	327.4	20.4	2.7	2.5	3.2	3.9
35°	942.4	906.4	811.7	655.8	460.0	359.6	20.4	2.5	2.3	2.9	3.9
36°	981.8	956.0	859.7	704.5	499.0	390.2	20.4	2.3	2.0	2.9	3.6
37°	1015.6	985.5	898.2	741.9	527.7	414.7	20.4	2.0	2.0	2.9	3.6
38°	1029.4	1003.6	924.7	775.0	554.7	439.6	20.2	1.8	1.8	2.7	3.6
39°	1034.9	1011.7	944.7	798.7	574.6	456.4	19.7	1.6	1.8	2.7	3.6
40°	1027.8	1010.4	954.9	814.2	590.5	468.6	19.0	1.4	1.6	2.7	3.6
42.5°	998.8	987.3	952.6	829.6	604.1	477.7	16.5	0.9	1.6	2.5	3.6
45°	973.0	960.3	929.7	813.5	586.4	459.8	12.5	0.5	1.6	2.5	3.6
47.5°	922.9	915.0	891.0	772.5	547.7	419.4	8.8	0.2	1.4	2.3	3.4
50°	822.5	815.1	783.3	670.7	471.1	354.6	6.3	0.2	1.1	2.3	3.4
52.5°	732.6	724.6	679.1	557.6	361.9	259.9	4.1	0.2	1.1	2.3	3.4
55°	623.8	610.0	550.2	423.3	256.5	174.3	2.9	0.2	1.1	2.0	3.4
57.5°	461.8	441.6	388.2	288.7	147.7	94.5	1.6	0.2	1.1	2.0	3.4
60°	314.1	302.1	242.9	152.3	63.0	39.9	0.7	0.2	1.1	2.0	3.2
62.5°	190.3	175.2	122.1	64.8	27.2	18.1	0.0	0.5	1.1	2.0	3.2
65°	54.2	48.0	31.9	14.7	7.7	5.9	0.0	0.5	1.1	2.0	3.2
67.5°	1.8	1.8	1.8	1.6	1.1	1.1	0.2	0.5	1.1	2.0	2.9
70°	0.7	0.7	0.7	0.5	0.5	0.2	0.2	0.5	1.1	1.8	2.9
72.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5	0.9	1.6	2.7
75°	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	0.9	1.6	2.3
77.5°	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.7	0.9	1.4	2.3
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.4	1.8



TEST NUMBER: P1335094

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.7	0.9	0.9	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.9	0.7	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.7	0.7	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



TEST NUMBER: P1335094

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	10.4	10.4
2.5°	9.7	9.7
5°	9.1	9.1
7.5°	8.4	8.4
10°	7.7	7.7
12.5°	7.3	7.3
15°	6.6	6.8
17.5°	6.1	6.3
20°	5.9	6.1
21°	5.9	6.1
22°	5.7	5.9
23°	5.7	5.9
24°	5.4	5.7
25°	5.2	5.4
26°	5.2	5.4
27°	5.2	5.4
28°	5.0	5.4
29°	5.0	5.2
30°	5.0	5.2
31°	4.8	5.2
32°	4.8	5.2
33°	4.8	5.0
34°	4.5	5.0
35°	4.5	5.0
36°	4.5	5.0
37°	4.5	4.8
38°	4.5	5.0
39°	4.5	4.8
40°	4.5	4.8
42.5°	4.5	4.8
45°	4.5	4.8
47.5°	4.5	5.0
50°	4.5	5.0
52.5°	4.5	5.0
55°	4.5	5.0
57.5°	4.5	4.8
60°	4.5	4.8
62.5°	4.3	4.8
65°	4.3	4.5
67.5°	4.3	4.5
70°	4.1	4.3
72.5°	3.9	4.1
75°	3.4	3.9
77.5°	3.2	3.4
80°	2.7	2.9

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	2.3	2.3
85°	1.6	1.8
87.5°	0.9	0.9
90°	0.0	0.0

(END OF REPORT)