

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: P1335414

Luminaire Tested: P3A02R359730DE010 E3CA451MB

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R359730DE010 E3CA451MB
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 97CRI , E3CA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

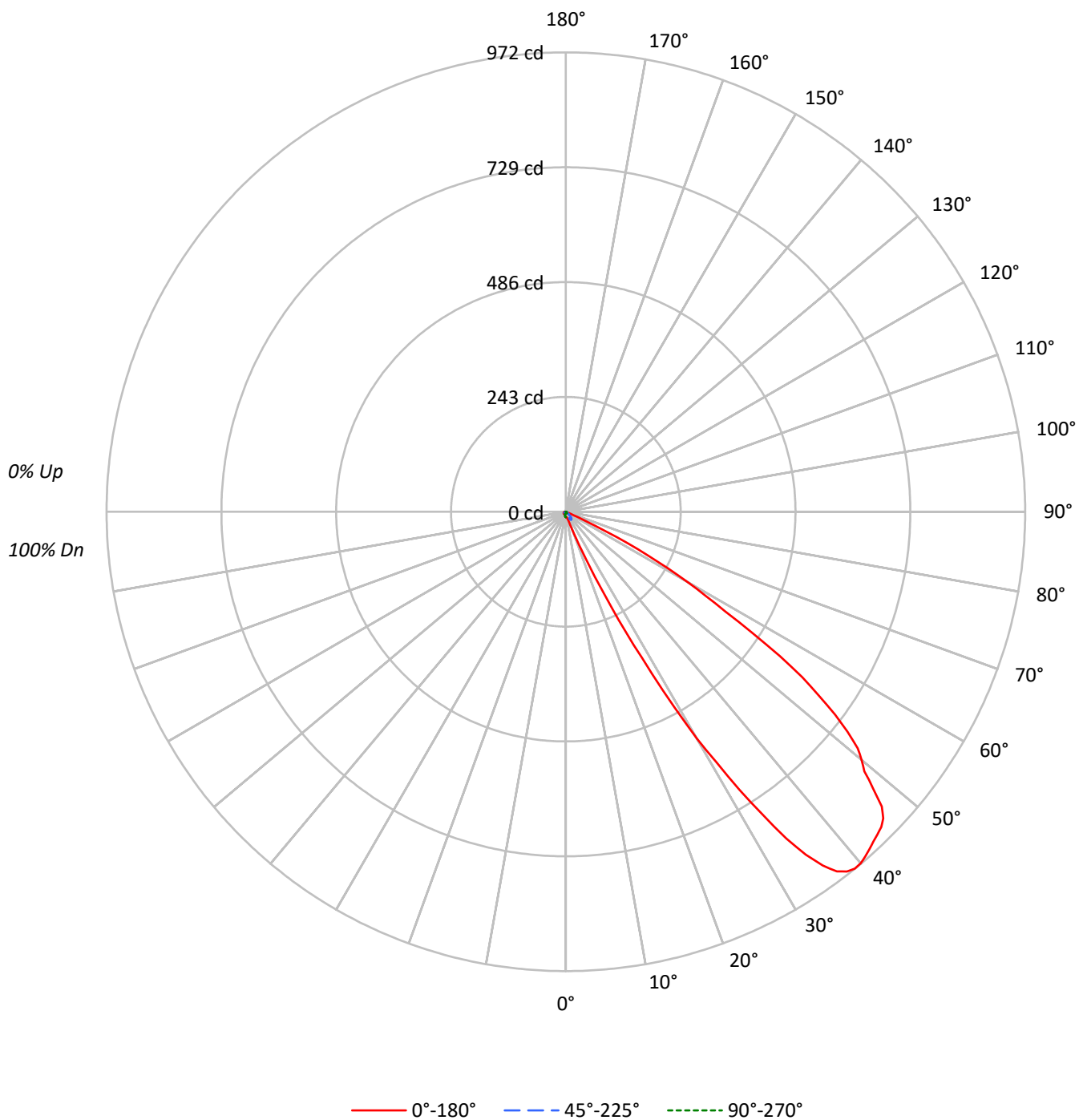
Lumens per Lamp: N/A
Luminaire Lumens: 242.0 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	99		107	104	100	97		100	97	94		96	93	91		92	90	89
2	100	93	86	81		98	91	85	80		87	83	78		84	80	77		81	78	75
3	91	81	73	67		89	79	72	66		76	70	65		74	68	64		71	67	63
4	83	71	62	55		80	69	61	55		67	60	54		64	58	53		62	57	52
5	75	62	52	46		73	61	52	45		58	51	45		56	50	44		55	49	44
6	68	54	45	38		66	53	44	38		51	43	38		50	43	37		48	42	37
7	62	48	38	32		60	47	38	32		45	37	32		44	37	31		42	36	31
8	57	42	33	27		55	41	33	27		40	32	27		39	32	26		38	31	26
9	52	38	29	23		50	37	29	23		36	28	23		35	28	22		34	27	22
10	48	34	25	19		46	33	25	19		32	25	19		31	24	19		30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2434	2434	2434	2434	2434
5°	2641	2597	2399	2157	2113
10°	2783	2538	2138	1848	1848
15°	3973	2474	1725	1589	1635
20°	9941	2660	1377	1377	1540
25°	46140	3387	1065	1258	1428
30°	140275	4583	836	1165	1443
35°	237068	5327	696	1124	1392
40°	277892	5267	573	1116	1489
45°	292651	3721	465	1209	1613
50°	278575	2252	443	1262	1774
55°	233435	918	497	1415	2103
60°	130691	175	570	1623	2281
65°	22571	104	571	1816	2594
70°	449	128	705	1988	2949
75°	339	169	932	2203	3304
80°	253	253	1137	2526	3915
85°	0	503	2264	2768	4277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 294738 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.4
10°-20°	2.9	1.2
20°-30°	14.9	6.1
30°-40°	64.1	26.5
40°-50°	91.5	37.8
50°-60°	56.6	23.4
60°-70°	8.6	3.6
70°-80°	1.6	0.7
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°	18.7	7.7
0°-40°	82.8	34.2
0°-60°	230.9	95.4
0°-90°	242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	242.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	12	12	11	10	10	1
15°	18	11	8	7	7	6
25°	191	14	4	5	6	114
35°	886	20	3	4	5	532
45°	944	12	2	4	5	713
55°	611	2	1	4	6	520
65°	44	0	1	4	5	89
75°	0	0	1	3	4	0
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
2.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.1	10.9
5°	12.0	12.0	11.8	11.8	11.8	11.8	11.8	11.8	11.4	10.9	10.3
7.5°	12.2	12.2	12.0	12.0	12.0	12.0	11.8	11.6	11.1	10.3	9.6
10°	12.5	12.5	12.5	12.5	12.2	12.0	11.8	11.4	10.7	9.6	9.0
12.5°	14.0	14.0	13.8	13.3	12.9	12.5	12.0	11.1	9.8	8.7	8.1
15°	17.5	17.3	16.8	16.2	15.3	14.2	13.3	10.9	9.0	7.6	7.2
17.5°	24.5	24.0	23.4	21.2	19.2	17.3	15.5	10.9	8.1	6.8	6.3
20°	42.6	42.8	38.2	33.0	28.6	23.8	19.4	11.4	7.2	5.9	5.7
22.5°	88.9	85.4	74.5	61.8	47.2	36.5	27.5	12.5	6.3	5.0	5.0
25°	190.7	177.4	151.0	114.0	80.4	57.0	40.0	14.0	5.7	4.4	4.6
27.5°	348.2	336.2	283.1	213.2	141.6	86.1	54.2	15.9	5.0	3.7	4.2
30°	554.0	520.8	451.6	349.5	236.6	131.7	72.7	18.1	4.2	3.3	3.9
31°	618.2	602.9	518.6	404.4	277.2	156.4	80.6	18.8	3.9	3.3	3.7
32°	694.5	667.4	591.8	464.4	318.5	178.5	90.0	19.4	3.7	2.8	3.7
33°	762.6	736.4	644.4	517.3	360.2	203.6	100.1	19.7	3.3	2.8	3.5
34°	834.3	798.5	707.4	572.6	403.1	230.7	109.2	19.9	3.1	2.6	3.5
35°	885.6	849.8	761.5	616.3	440.0	254.7	119.7	19.9	2.8	2.6	3.3
36°	925.4	893.9	808.3	661.3	476.7	276.3	128.0	19.9	2.4	2.4	3.3
37°	952.7	922.8	839.7	699.9	504.6	295.6	135.4	19.9	2.2	2.4	3.3
38°	966.0	941.1	870.1	728.1	531.7	310.6	141.3	19.4	2.0	2.2	3.1
39°	971.7	951.4	888.7	751.9	552.0	323.8	145.7	19.0	1.7	2.2	3.1
40°	970.8	953.1	899.2	768.3	568.4	332.7	148.1	18.4	1.5	2.0	3.1
41°	965.8	950.5	904.6	782.3	578.3	338.8	148.8	17.7	1.3	2.0	2.8
42°	960.1	946.1	906.4	789.7	584.6	340.8	147.0	16.8	1.3	1.7	2.8
43°	954.2	941.3	906.4	792.1	586.1	339.5	144.2	15.3	1.1	1.7	2.8
44°	949.4	937.2	903.5	791.5	582.8	334.5	138.9	13.5	0.9	1.7	2.8
45°	943.7	931.7	899.8	787.3	576.5	325.9	132.4	12.0	0.7	1.5	2.8
46°	933.7	924.3	893.3	778.8	566.5	314.1	124.1	10.9	0.4	1.5	2.6
47°	914.2	906.2	880.6	766.1	553.1	300.2	115.6	9.8	0.4	1.5	2.6
48°	875.1	874.9	855.3	742.5	531.9	282.7	106.6	8.7	0.4	1.5	2.6
49°	837.3	833.4	808.9	701.0	501.6	261.7	97.2	7.9	0.2	1.5	2.6
50°	816.6	808.1	767.9	652.1	462.7	232.7	87.2	6.6	0.2	1.3	2.6
51°	795.0	782.7	735.3	608.0	416.4	204.7	76.2	5.2	0.2	1.3	2.4
52°	755.9	744.3	691.2	565.8	371.4	176.1	65.8	4.4	0.2	1.3	2.6
53°	713.7	697.1	639.4	519.5	331.8	150.7	55.1	3.7	0.2	1.3	2.4
54°	660.6	653.2	587.0	462.7	285.5	126.3	45.2	3.1	0.2	1.3	2.4
55°	610.6	599.7	530.9	404.6	243.6	103.5	37.8	2.4	0.2	1.3	2.4
56°	546.8	530.4	466.0	351.3	201.0	83.5	31.9	2.0	0.2	1.3	2.4
57°	470.8	453.3	402.4	292.1	157.7	63.6	26.7	1.5	0.2	1.3	2.4
58°	398.2	383.2	328.6	225.4	118.8	44.1	22.1	1.1	0.2	1.1	2.4
59°	344.1	327.5	273.3	173.5	82.6	32.6	16.6	0.9	0.2	1.3	2.4
60°	298.0	276.6	220.0	134.4	59.0	23.4	12.2	0.4	0.4	1.3	2.4
62.5°	171.7	151.6	105.1	54.6	24.2	12.0	5.9	0.2	0.4	1.3	2.4
65°	43.5	38.7	25.1	11.8	6.8	4.2	2.2	0.2	0.4	1.1	2.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	1.5	1.5	1.5	1.3	1.1	0.9	0.4	0.2	0.4	1.1	2.2
70°	0.7	0.7	0.7	0.4	0.4	0.2	0.2	0.2	0.4	1.1	2.0
72.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.7	1.1	1.7
75°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.7	1.1	1.7
77.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.3
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.9	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.7	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.9	0.7
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):

	135°	157.5°	180°
0°	11.1	11.1	11.1
2.5°	10.5	10.5	10.5
5°	9.8	9.8	9.6
7.5°	9.2	9.0	9.0
10°	8.3	8.3	8.3
12.5°	7.6	7.6	7.6
15°	7.0	7.2	7.2
17.5°	6.3	6.8	6.8
20°	5.9	6.3	6.6
22.5°	5.5	5.9	6.1
25°	5.2	5.7	5.9
27.5°	4.8	5.5	5.9
30°	4.6	5.2	5.7
31°	4.6	5.2	5.5
32°	4.4	5.2	5.5
33°	4.4	5.2	5.5
34°	4.4	5.0	5.5
35°	4.2	5.0	5.2
36°	4.2	5.0	5.2
37°	4.2	5.0	5.5
38°	4.2	5.0	5.2
39°	3.9	5.0	5.2
40°	3.9	5.0	5.2
41°	3.9	5.0	5.2
42°	3.9	5.0	5.2
43°	3.9	5.0	5.2
44°	3.9	4.8	5.2
45°	3.9	4.8	5.2
46°	3.9	5.0	5.2
47°	3.9	5.0	5.5
48°	3.9	4.8	5.2
49°	3.7	4.8	5.2
50°	3.7	4.8	5.2
51°	3.7	5.0	5.5
52°	3.7	5.0	5.5
53°	3.7	5.0	5.5
54°	3.7	5.0	5.2
55°	3.7	5.0	5.5
56°	3.7	5.0	5.2
57°	3.7	5.0	5.2
58°	3.7	4.8	5.2
59°	3.7	4.8	5.2
60°	3.7	4.8	5.2
62.5°	3.5	4.8	5.2
65°	3.5	4.6	5.0



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	3.3	4.6	4.8
70°	3.1	4.4	4.6
72.5°	2.8	4.2	4.4
75°	2.6	3.7	3.9
77.5°	2.2	3.3	3.7
80°	2.0	2.8	3.1
82.5°	1.5	2.4	2.6
85°	1.1	1.7	1.7
87.5°	0.4	0.9	0.9
90°	0.0	0.0	0.0

(END OF REPORT)