

I-Lux LED Taxiway and Runway Signs FAA L-858

Compliance

FAA: AC 150/5345-44; Engineering Brief No. 67, ETL Certified

Features

- The average LED life is 100,000 hours at high intensity / 180,000 hours under typical operating conditions.
- Easily replaces traditional L-858 signs.
- Solidly and seamlessly integrates off-the-shelf parts and custom fabrication for strength and flexibility while minimizing operating costs.
- The platform for the cabinet is machined from solid, heavy-gauge aluminum construction.
- Free of gaps and joints that weaken modular signs and allow penetration of wind, rain, dirt, and snow.
- Inherently stronger than modular signs because it doesn't rely on the strength of hardware used to piece modular signs together.
- I-Lux is as short as possible because it is made per FAA lettering specifications and not artificially lengthened over seams and gaps.
- AGM's I-Lux is the only airfield sign available in half-module sizing.
- Quick and economical installation, with smaller excavation, less concrete, and fewer legs to bolt to the pad.
- Smaller obstruction in the field than modular signs, presenting less inertial load on aircraft should a collision occur.
- Seamless panels display messages without distortion.
- Highly impact-resistant, up to 30 times more than other brands.
- No tools required for relamping.
- Base model brightness controls use technology that has been proven for years in the field.

I-Lux Sign Options

- **On/Off Switch, Option 1 – Part Number D7-SWA, I7-SWA, I7-SWA-4:** The Isolating Safety Switch allows the guidance sign's power control and circuitry to be isolated from the airfield constant current regulator (CCR) circuit, providing a greater measure of safety during maintenance. This allows the rest of the airfield circuitry to remain illuminated to maintain necessary visual guidance for pilots. The isolating switch is an IP67-rated, 15A bat-style toggle switch and includes a weatherproof cover that provides additional protection against mechanical damage. The I7-SWA-4 is used only on I-Lux Size 4 signs.



I-LUX SIGN OPTIONS:

On/Off Switch

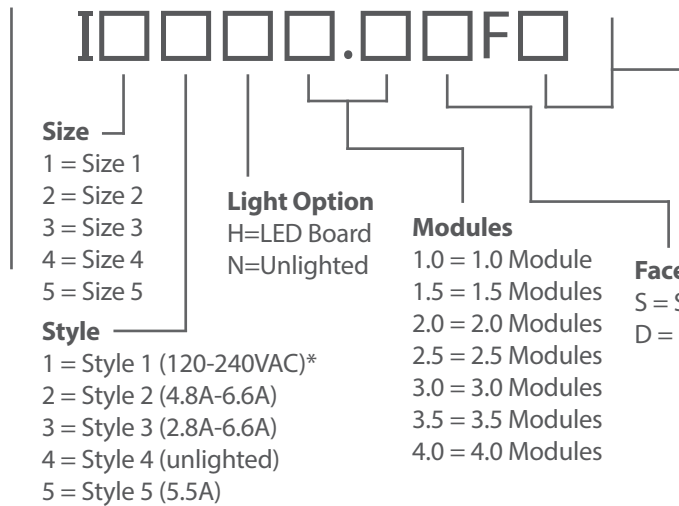
Lamp Out Indicator

View Port

Device placement varies by sign type and size.

- **Lamp Out Indicator, Option S – Part Number C7-CBLOI:** The Lamp Out Indicator is designed to aid maintenance staff in determining if a sign is not operating within specifications. The C7-CBLOI consists of an LED monitor circuit board and indicator LED. The C7-CBLOIH36 wire harness is used in conjunction with the C7-CBLOI on D-Lux signs. Per FAA Engineering Brief 67D, the system must turn off upon 25% failure of LEDs. The red Lamp Out Indicator will illuminate if this 25% threshold has been exceeded and the sign is out. This alerts maintenance staff that the LEDs within the sign require attention.
- **View Port, Option P – Part Number C8-WPLG:** The View Port is designed to aid maintenance staff in verifying that the sign is illuminated. This small transparent polycarbonate plug is placed on the end of the sign closest to the pavement, allowing quick visual confirmation from passing vehicles that the sign lights are on.

General Catalog Numbers



- Options**
- 1 = On/Off Switch
 - 3 = Mode 3** (If blank: Mode 2)
 - S = LED Light Out Indicator
 - P = View Port
 - E = External Power Cord*

- Faces**
- S = Single Face
 - D = Double Face

*Not ETL Certified

Example: I32H3.0SF1 is a size 3 L-858 I-Lux sign in style 2, with an LED light option, 3.0 modules, single face, mode 2 with an on/off switch

**Mode 3 is available for Sizes 2, 3, 4, & 5

Replacement Parts (LED Light Option)

Part Number	Description
C7-LVCV2	Low voltage power control module
I7-LEDV2	LED board with optics
C7-DRVR	LED driver module
C7-BRG	Bridge rectifier
I7-120PA1D	120-240V Power Supply, Style 1 Only
C7-VLVC	120V-48VDC Power Supply, Style 1
C7-SOLA	Comm Adapter, Style 1
120-CBLG	Power Cord, 60", Style 1 Only

Style 1 Power Specifications

Size	Modules	Watts	VA	PF
1	1	7	15	0.48
1	1.5 - 2	12	22	0.53
1	2.5 - 3	16	29	0.56
1	3.5 - 4	21	36	0.59
2	1	12	22	0.54
2	1.5 - 2	21	36	0.59
2	2.5 - 3	30	48	0.62
2	3.5 - 4	41	63	0.65
3	1	16	29	0.57
3	1.5 - 2	30	48	0.61
3	2.5 - 3	45	69	0.65
3	3.5 - 4	59	89	0.66

I-Lux Size 4 (LED Board Light Option)

Style	Modules	L-830 Transformer*	Primary Power Factor	Primary VA Load	Secondary Power Factor	Secondary VA Load
2	1.0	65W	49	.94	49	.94
3	1.0	65W	44	.94	44	.94
5	1.0	65W	44	.94	44	.94

Transformer Requirements: LED Board

Size	Style	Modules	L-830 Transformer*	Primary Power Factor	Primary VA Load	Secondary Power Factor	Secondary VA Load	# of LEDs
1	2	1.0	65W	0.94	41	0.95	27	2
1	2	1.5 & 2.0	65W	0.95	45	0.94	32	4
1	2	2.5 & 3.0	65W	0.95	49	0.94	35	6
2	2	3.5 & 4.0	65W	0.95	54	0.94	40	8
2	2	1.0	65W	0.95	45	0.95	32	4
2	2	1.5 & 2.0	65W	0.95	54	0.94	40	8
2	2	2.5 & 3.0	65W	0.94	63	0.93	50	12
3	2	3.5 & 4.0	100W	0.93	75	0.92	60	16
3	2	1.0	65W	0.94	48	0.94	36	6
3	2	1.5 & 2.0	65W	0.94	64	0.93	51	12
3	2	2.5 & 3.0	100W	0.93	78	0.92	65	18
5	2	3.5 & 4.0	100W	0.93	93	0.92	79	24
1	2	1.0	65W	0.94	41	0.95	27	2
1	3	1.5 & 2.0	65W	0.95	45	0.94	32	4
1	3	2.5 & 3.0	65W	0.95	49	0.94	36	6
1	3	3.5 & 4.0	65W	0.95	54	0.94	41	8
2	3	1.0	65W	0.95	45	0.95	31	4
2	3	1.5 & 2.0	65W	0.94	54	0.94	41	8
2	3	2.5 & 3.0	100W	0.93	64	0.93	49	12
2	3	3.5 & 4.0	200W	0.92	78	0.92	62	16
3	3	1.0	65W	0.94	48	0.94	36	6
3	3	1.5 & 2.0	100W	0.93	64	0.93	50	12
3	3	2.5 & 3.0	200W	0.92	82	0.92	65	18
3	3	3.5 & 4.0	200W	0.92	96	0.92	79	24
5	3	1.0	65W	0.95	32	0.94	23	2
1	3	1.5 & 2.0	65W	0.95	37	0.94	27	4
1	5	2.5 & 3.0	65W	0.94	41	0.93	32	6
1	5	3.5 & 4.0	65W	0.94	46	0.93	37	8
1	5	1.0	65W	0.95	37	0.94	28	4
2	5	1.5 & 2.0	65W	0.94	47	0.93	37	8
2	5	2.5 & 3.0	65W	0.93	56	0.92	46	12
2	5	3.5 & 4.0	100W	0.93	67	0.91	57	16
2	5	1.0	65W	0.93	67	0.91	57	6
3	5	1.5 & 2.0	65W	0.93	57	0.92	47	12
3	5	2.5 & 3.0	100W	0.92	71	0.91	62	18
3	5	3.5 & 4.0	100W	0.92	85	0.91	76	24

*Minimum

I-Lux Sign Dimensions

Sign Size	Legend Size	Viewable Panel Height	Panel Height	Overall Sign Height
1	12"	18"	19.875"	27"
2	15"	24"	25.875"	33"
3	18"	30"	31.875"	39"
4	40"	48"	50"	56.5"
5	25"	30"	31.875"	39"

