



Flight Light Inc.
2708 47th Ave.
Sacramento, California, U.S.A.
95822-3806



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

PH (916) 394-2800 FX (916) 394-2809
TF (800) 806-3548 EM info@flightlight.com

Compliance and Applications

FAA AC 15/5345-44 (Current Edition)
FAA Engineering Brief No. 67

Our I-Lux signs solidly and seamlessly integrate off-the-shelf parts and custom fabrication for strength and flexibility while minimizing operating costs.

Features

- Solid, seamless construction for strength and reliable performance.
- Lowest VA loads: Most efficient ETL Certified L-858 signs available.
- Quick, simple and less expensive to install.
- Bright, clear panels are highly impact resistant.
- Uses off-the-shelf MR16 lamps (lamp life ±10,000 hours) with no tools required for re-lamping.
- Style U passive, non-inductive control provides near-unity power factors on all regulator steps.

Construction

The platform for the I-Lux is a cabinet machined from solid, heavy gauge aluminum extrusion. Monolithic tops and bottoms are impervious to blowing rains, dirt, and snow because they are free of the gaps found in signs of modular construction. The I-Lux is inherently stronger than modular signs because it doesn't rely on the strength of the hardware used to piece modular signs together.

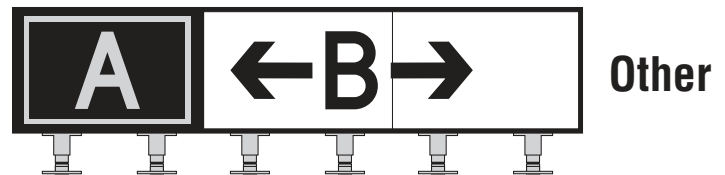
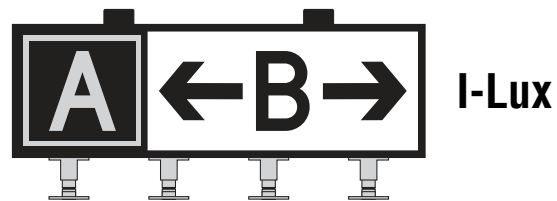
The I-Lux L-858 is the only airfield sign available in half module sizing. This keeps it as short as possible, though well within FAA legend specifications. Installation is quick and economical, with a smaller excavation, less concrete and fewer legs to bolt to the pad.

The I-Lux is a smaller obstruction in the field than modular signs, presenting less inertial load on an aircraft should a collision occur.

The seamless panels of the I-Lux display messages without distortion. They are free of the gaps and joints that weaken modular signs and allow penetration by wind, rain, dirt and snow. Bright and clear, I-Lux panels are up to 30 times more impact resistant than other brands.

Bringing light to the I-Lux are commercial off-the-shelf MR16 lamps. Changing the lamp is easy with no tools required - the cabinet stays closed up tight. Lamp life is approximately 10,000 hours - that makes over 2 years at 12 hours a day - so they won't be replaced often.

There are no expensive proprietary lamp replacements, when



new lamps are needed, replacements are as close as the nearest hardware store.

The base model brightness controls use technology that has been proven for years in the field. Better, the I-Lux also features a Style U power control system - a passive non-inductive design that exhibits unity power factors on all regulator steps. Tried and true, the I-Lux is the solid and sensible choice for hassle-free longevity.

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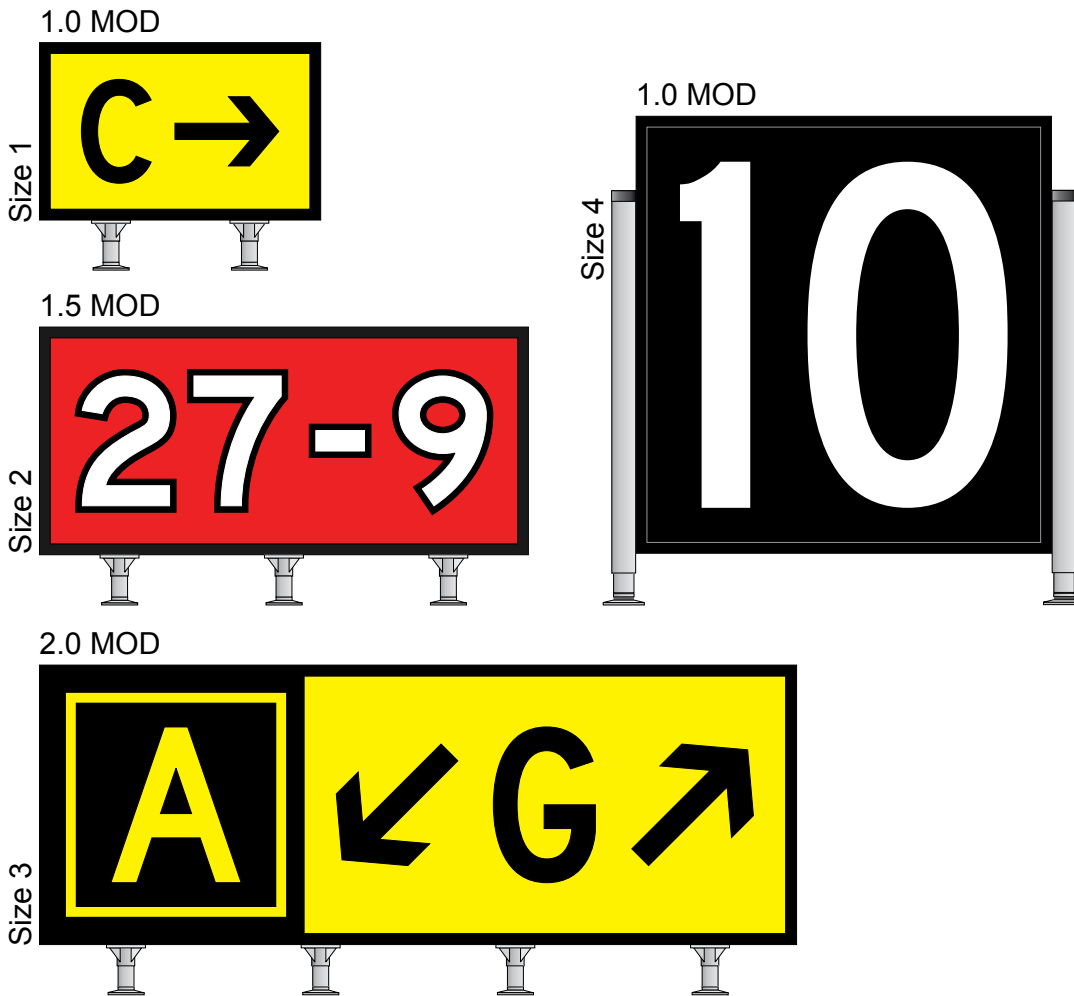
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Panel Dimensions

Sign Size	Legend Size	Viewable Panel Height	Overall Sign Height	Panel Height
1	12"	18"	27"	19 ^{7/8} "
2	15"	24"	33"	25 ^{7/8} "
3	18"	30"	39"	31 ^{7/8} "
4	40"	48"	56.5"	50"
5	25"	30"	39"	31 ^{7/8} "



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L830 Transformer Requirements, VA Loads & Power Factors

MR16 Coil & Shunt Light Source

Size	Style	Modules	L830		Power Factor	# of Lamps
			Transformer	VA		
All Sizes	2	1.0	100W	96	0.84	1
All Sizes	2	1.5	200W	157	0.81	2
All Sizes	2	2.0	200W	157	0.81	2
All Sizes	2	2.5	200W	231	0.78	3
All Sizes	2	3.0	200W	231	0.78	3
All Sizes	2	3.5	300W	288	0.79	4
All Sizes	2	4.0	300W	288	0.79	4
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All Sizes	5	1.0	45W	68	1.0	1
All Sizes	5	1.5	100W	117	1.0	2
All Sizes	5	2.0	100W	117	1.0	2
All Sizes	5	2.5	200W	160	1.0	3
All Sizes	5	3.0	200W	160	1.0	3
All Sizes	5	3.5	300W	207	1.0	4
All Sizes	5	4.0	300W	207	1.0	4

MR16 TapSwitch Light Source

Size	Style	Modules	L830		Power Factor	# of Lamps
			Transformer	VA		
All Sizes	2	1.0	100W	85	1.0	1
All Sizes	2	1.5	200W	132	1.0	2
All Sizes	2	2.0	200W	132	1.0	2
All Sizes	2	2.5	300W	183	1.0	3
All Sizes	2	3.0	300W	183	1.0	3
All Sizes	2	3.5	500W	225	1.0	4
All Sizes	2	4.0	500W	225	1.0	4
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All Sizes	3	1.0	100W	90	1.0	1
All Sizes	3	1.5	300W	141	1.0	2
All Sizes	3	2.0	300W	141	1.0	2
All Sizes	3	2.5	500W	185	1.0	3
All Sizes	3	3.0	500W	185	1.0	3
All Sizes	3	3.5	600W ²	245	1.0	4
All Sizes	3	4.0	600W ²	245	1.0	4

Power factors are measured on the primary of the corresponding L830 transformer, per FAA Circular 150/5345-44 (current edition). This takes into account the inherent deficiencies of the isolation transformer in the values. These ratings are subject to change without notice.

² Use Y-connector to add wattages of two L830s to achieve correct power.

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Ordering Codes

Model	Sign Size	Power Style	Lamp Type	Modules (length in inches)				Sign Faces	Optional Items	Mode
I: ILUX	1: Size 1	2: Style 2 (3 step 4.8A to 6.6A)	G: Coil & Shunt w/ MR16 Lamp (Style 2)	Size 1	Size 2	Size 3	Size 5	SF: Single Face DF: Double Face	1: On/Off Switch (with cover) P: View Port S: LED Lamp Out Indicator E: External Power Cord* MX: FAA size panel & frame, ICAO specified legend, illumination & retroreflective* (*Not ETL Certified)	3: Mode 3 (if blank = Mode 2)
	2: Size 2			1.0: 32.5"	38.5"	45.00"	32.5"			
	3: Size 3	3: Style 3 (5 step 2.8A to 6.6A)	C: Coil w/ MR16 Lamp (Style 5)	1.5: 47.6"	56.5"	66.25"				
	5: Size 5			2.0: 62.5"	74.5"	87.50"				
		4: Style 4 (unlighted)	N: Unlighted	2.5: 77.6"	92.5"	108.75"				
	3.0: 92.5"			110.5"	130.00"					
	5: Style 5 (1 step 5.5A)	U: Tapswitch w/ MR16 Lamp (Style 2, 3)	3.5: 107.6"	128.5"	151.75"					
			4.0: 122.5"	146.5"	172.25"					

All signs are Class 2.

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