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

Compliance and Applications

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

For those seeking a truly modular sign, or preferring to maintain a uniform look where rounded airfield signage is already installed, we are pleased to offer the patented D-Lux. The D-Lux is a formidable upgrade from standard curved signs. The appearance may be familiar, but the high quality and thoughtful engineering is refreshingly new.

Features

- Patented modular curved sign design.
- Lowest VA loads: Most efficient ETL Certified L-858 signs available.
- Years of reliability, durability and performance.
- Withstands harsh weather conditions and jet blast.
- Uses quartz or incandescent 6.6A 45W lamps.
- Easy-open top requires no tools for re-lamping.
- Optional passive, non-inductive control provides near-unity power factors on all regulator steps.
- Optional Herculens panels available in Size 1 & 2.

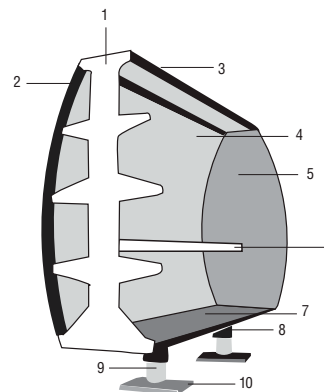
Construction

Our L-858 taxiway guidance signs are manufactured in the USA with the patented D-Lux design, the best modular design in airfield signage. Each module of a D-Lux sign is mounted on an evenly spaced pair of legs. The D-Lux slip flanges hold the legs secure with almost no gap in the assembly. Environmental forces are shared by the legs and cabinet, and not concentrated on the hardware.

On a D-Lux, each rounded face is made from expertly formed acrylic. Size 1 and 2 signs can be fitted with the optional Herculens panel, which is CNC machined from 3/8" thick acrylic. The Herculens is factory installed on our Size 3 D-Lux, allowing the sign to shed jet blast without the use of bothersome flimsy plastic internal bracing or gimmicky cabinet "upgrades" employed by others.

Connecting the legend panels are translucent panel joints, which are welded together with adhesive and then additionally reinforced with stainless steel hardware.

Every D-Lux module features a top that is designed to easily guide the top edge of panels into place when it is replaced after re-lamping, and is fixed to the sign with two turn fasteners. No tools are required for re-lamping. The D-Lux uses familiar and inexpensive 6.6A 45W lamps, either quartz or



Body Components

- 1: Support Junction
- 3: Top
- 5: End
- 6: Lamp Mounting Bar
- 7: Bottom
- 9: Frangible Coupling

Face Components

- 2: Panel Joint
- 4: Panel

Universal Components

- 8: Slip Flange
- 10: Floor Flange

incandescent. Configurations using miniature 12v 20w lamps are also available.

The D-Lux base model brightness controls use familiar technology that has been proven for years in the field. Better, the D-Lux also features a Style U power control system as an option - a passive, non-inductive design that exhibits near-unity power factors on all regulator steps.

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L830 Transformer Requirements, VA Loads & Power Factors

T10, TapSwitch Light Source

Size	Modules	Style	L830 Transformer	VA	Power Factor	# of Lamps
1	1.0	2	100W	73	1.00	1
1	2.0	2	100W	100	1.00	2
1	3.0	2	100W	128	1.00	3
1	4.0	2	200W	155	1.00	4
2	1.0	2	100W	100	1.00	2
2	2.0	2	200W	155	1.00	4
2	3.0	2	300W	210	1.00	6
2	4.0	2	300W	261	1.00	8
3	1.0	2	100W	128	1.00	3
3	2.0	2	300W	210	1.00	6
3	3.0	2	300W	273	1.00	9
3	4.0	2	500W	368	1.00	12
1	1.0	3	100W	73	1.00	1
1	2.0	3	200W	102	1.00	2
1	3.0	3	300W	129	1.00	3
1	4.0	3	300W	157	1.00	4
2	1.0	3	200W	102	1.00	2
2	2.0	3	300W	157	1.00	4
2	3.0	3	500W	210	1.00	6
2	4.0	3	600W	293	1.00	8
3	1.0	3	300W	129	1.00	3
3	2.0	3	500W	210	1.00	6
3	3.0	3	600W ¹	312	1.00	9
3	4.0	3	800W ¹	390	1.00	12

T10, Style 5 Light Source

Size	Style	Modules	L830 Transformer	VA	Power Factor	# of Lamps
1	5	1.0	45W	48	1.0	1
1	5	2.0	100W	81	1.0	2
1	5	3.0	100W	102	1.0	3
1	5	4.0	200W	134	1.0	4
2	5	1.0	100W	81	1.0	2
2	5	2.0	200W	134	1.0	4
2	5	3.0	200W	180	1.0	6
2	5	4.0	300W	234	1.0	8
3	5	1.0	100W	102	1.0	3
3	5	2.0	200W	180	1.0	6
3	5	3.0	300W	259	1.0	9
3	5	4.0	500W	335	1.0	12

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.

¹ 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
D: DLUX	1: Size 1	2: Style 2 (3 step	A: T10 Style 5	Size 1	Size 2	Size 3	Size 5	SF: Single Face DF: Double Face	I: On/Off Switch (with cover) P: View Port S: LED Lamp Out Indicator E: External Power Cord* (*Not ETL Certified)
	2: Size 2	4.8A to 6.6A)	N: Unlighted	1: 30"	37.5"	41.875"	41.875"		
	3: Size 3	3: Style 3 (5 step	U: Tapswitch w/	2: 59"	73.75"	83.75"			
	5: Size 5	2.8A to 6.6A)	T10 Lamp	3: 88"	110"	125.625"			
		4: Style 4 (unlighted)		4: 117"	146.375"	167.5"			
		5: Style 5 (1 step							
		5.5A)							

All signs are Class 2, Mode 2.

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