



Catalog Number:	
Project:	
Comments:	
Prepared By:	Date:

## Description

Introducing the Lumecon Detroit Series™ (LDS) Forward Throw Wall Pack. The LDS-FT offers a bold, rugged Detroit inspired design that performs efficiently and reliably in any outdoor environment. The tiered wattage / lumen packages deliver exactly the light output needed for the job without wasting energy or efficiency and is a perfect fixture for building facades, general security, storage areas, tunnel, bridge underpass/overpass, and entry door applications. The LDS-FT utilizes the Lumecon ETD™ Thermal Design backed by an industry leading 10 year L70 performance based warranty and protected by 20kA / 40kV Extreme Rated Surge protection. The Lumecon Detroit Series Forward Throw, inspired, designed, engineered, built and shipped from the USA, proudly boasting the most US content possible.

## Performance Data

High Efficiency 2	Watts	Equiv	Lumens	Efficacy
LDS-FT-25	27W	175W HID	3,780 Lm	140 LPW
LDS-FT-35	35W	175W HID	4,795 Lm	137 LPW
LDS-FT-45	45W	250W HID	6,165 Lm	137 LPW
LDS-FT-55	55W	250W HID	7,535 Lm	137 LPW
LDS-FT-65	65W	250W HID	8,515 Lm	131 LPW
LDS-FT-80	80W	400W HID	10,480 Lm	131 LPW

Regular	Watts	Equiv	Lumens	Efficacy
LDS-FT-25	27W	175W HID	2,680 Lm	100 LPW
LDS-FT-35	35W	175W HID	3,668 Lm	105 LPW
LDS-FT-45	45W	250W HID	4,716 Lm	105 LPW
LDS-FT-55	55W	250W HID	5,764 Lm	105 LPW
LDS-FT-65	65W	250W HID	6,323 Lm	97 LPW
LDS-FT-80	80W	250W HID	7,782 Lm	97 LPW

## Technical Specifications

**Input Voltage:** 120-277V or 347-480V

**Housing:** Die cast aluminum housing with hinged front frame and architectural bronze powder coat finish. 1/2" coin plugs with O-rings for conduit, photocell and/or occupancy installation.

**Lens:** Designed and injected molded in Michigan, our acrylic lens features precise prisms achievable only through injection molding. The prisms provide pleasing daytime "prismatic sparkle" and provide excellent uniformity, light distribution and efficiency for nighttime performance.

**Vandal Resistant:** Our lens is also resistant to vandalism with internally placed mounting hardware; vandals cannot remove our lenses without removing the entire fixture. We build to withstand high abuse lighting environments.

**Mounting:** Cast-in template for wall or junction box mounting. Mount directly over a 4" recessed outlet box, or use 1/2" surface conduit.

**Effective Projected Area (EPA):** 0.75 ft²

**Color Temperature:** 2200K, 2700K, 3000K, 4000K, and 5000K.

**LED Lifetime:** All LEDs are rated for a minimum of 100,000 hours of continuous operation at ambient outdoor temperatures from -40°F/-40°C to 115°F/46°C.

**Color Rendering Index (CRI):** Minimum of 80 or higher. CRI 90+ available upon request.

**Dimming:** 0-10V standard dimming capability.

**Surge Protection:** Thermally protected 20kA / 40kV varistor type surge suppressor is included and meets ANSI C136.2-2015: Extreme Level. Also meets IEC61643-11 Class II / EN61643-11 Type 2, and US Dept of Energy MSSLC Model Spec for surge protection. The device is wired in series with the luminaire input power in order to interrupt power to the luminaire when consumed, protecting the LED power supply and circuit boards from additional electrical surges.

**Lumecon ETD™ System:** The enhanced thermal dissipation system engines are thermally bonded to provide maximum thermal dissipation to the exterior of the fixture to ensure long life. To protect the light engine panel from moisture and corrosion, the LED light engine panel is uniformly coated with a UV stabilized acrylic polymer resin that meets MIL and ASTM dielectric standards, UL, and IPC standards for flammability, moisture resistance and thermal shock.

**Certification Data:** All Testing is done in the United States. CSA Listed to UL 1598, UL 8750 and CSA 22.2 No. 250 for Wet Locations. \*Full compliance and test documentation is available for TM-21, LM-79, LM-80. Salt Fog tested for 3,000 hours per ASTM B117-16 / ASTM D610-08.

**Luminaire Vibration Testing:** Passed ANSI C136.31 Vibration testing for both "Normal" and "Bridge/Overpass" acceleration applications, simulating wind- and traffic-induced vibrations. The testing utilized the predetermined resonant frequency of the fixture, and was tested to 100,000 cycles in all 3 axes to a peak acceleration level of 3G.

**Battery Back-Up and Battery Back-Up Cold Rated (Optional):** The BBU operates the LEDs for a code-compliant 90 minutes when triggered into emergency mode. When AC power is restored, the driver automatically returns to charging mode. The BB and BBCR are UL-recognized component and meets all applicable safety standards. BBCR is cold rated to -20°

**Occupancy Sensor (Optional):** Microwave sensor technology rated for -40°F to 130°F. Available in on/off and dim/high functionality.

**Manufacturing Origin:** Built in Farmington Hills, MI with nearly all US parts and some foreign components.

**BABA Compliant:** Meets Build America, Buy America Act Included in the Infrastructure Investment and Jobs Act, Public Law Number 117-58, Title IX, Subtitle A, Part I – Buy America Sourcing Requirements, Sections 70911-70917 stating Manufactured in the U.S. The cost of components mined, produced, or manufactured in the U.S. is greater than 55 percent of the total cost of all manufactured product components.

**Warranty:** 10 Year L70 performance based warranty. For full warranty terms, please visit our website: [www.lumecon.com](http://www.lumecon.com)



## Ordering Information

LDS – FT Options / Ordering Example: LDS-FT-25-DB-1-40-R

Wattage	Color	Voltage	Color Temperature	Output Version
25 - 25 Watts	DB - Dark Bronze	1 - 120-277V	22 - 2200K	HE2 - High Efficiency 2
35 - 35 Watts	WH - White	2 - 347-480V	27 - 2700K	R - Regular
45 - 45 Watts	BK - Black		30 - 3000K	
55 - 55 Watts	GR - Gray		40 - 4000K	
65 - 65 Watts	CC - Custom		50 - 5000K	
80 - 80 Watts	AF - Automotive Finish			

## Options & Accessories

BB- Battery back-Up 120-277V

BBCR- Battery Back-Up Cold Rated 120-277V

PC1 - 120-277V Button Eye Style

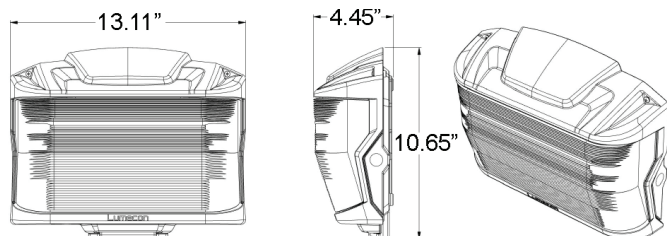
PC2 - 347-480V Button Eye Style

OC1 - On/Off Occupancy Sensor

OC2 - Dim/High Occupancy Sensor

## Dimensions & Weight

Model	Width	Height	Depth	Weight
LDS-FT	13.11"	10.65"	4.45"	9.9 lbs



## Color Option Samples

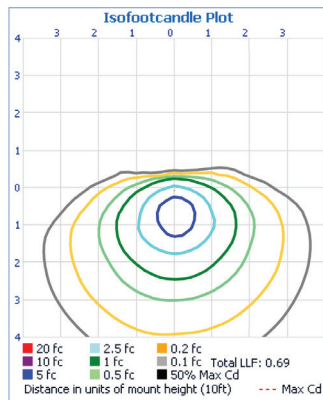
Due to variations in monitor settings and color printing settings, colors will not be exact.



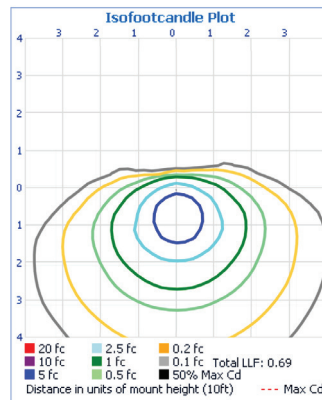
### Photometric Data

For .ies files of this product, please visit the downloads tabs on the LDS-FT product page: <http://lumecon.com/products/lds-ft-forward-throw/>

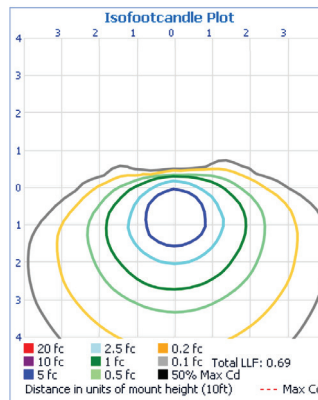
LDS-FT-25-HE2



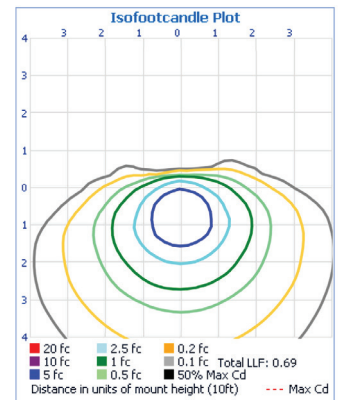
LDS-FT-35-HE2



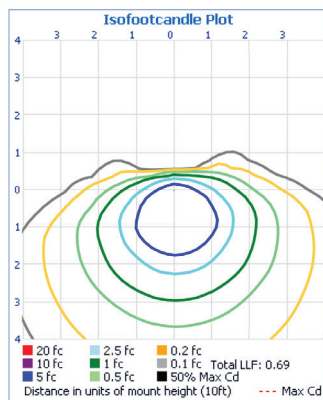
LDS-FT-45-HE2



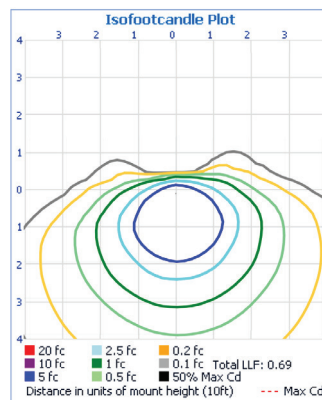
LDS-FT-55-HE2



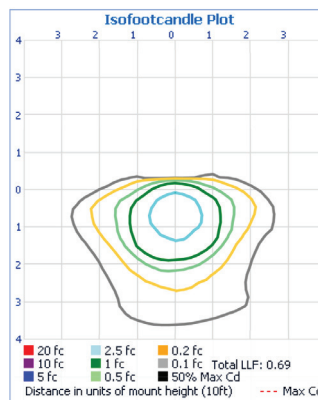
LDS-FT-65-HE2



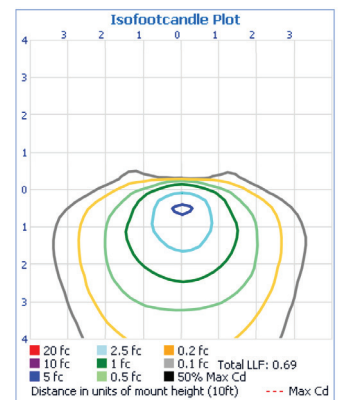
LDS-FT-80-HE2



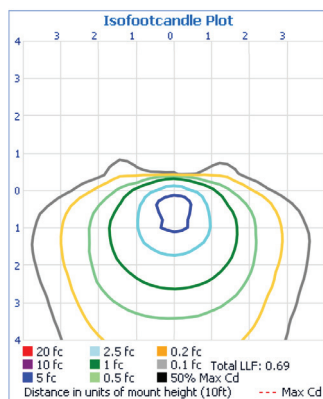
LDS-FT-25-R



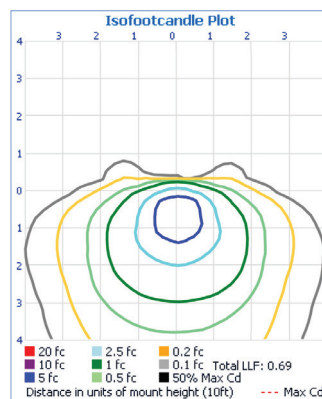
LDS-FT-35-R



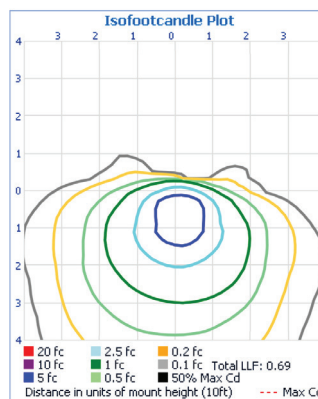
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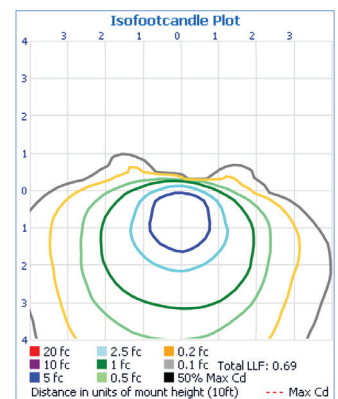
LDS-FT-55-R



LDS-FT-65-R



LDS-FT-80-R



**Performance Data**
**Electrical Load Data**

Fixture Model	Drive Current (mA)	System Watts (W)	AC Current Load (A)			
			120V	208V	240V	277V
LDS-FT-25-R	44	27	0.25	0.14	0.13	0.11
LDS-FT-35-R	111	35	0.32	0.19	0.16	0.14
LDS-FT-45-R	76	45	0.42	0.24	0.21	0.18
LDS-FT-55-R	92	55	0.51	0.29	0.25	0.22
LDS-FT-65-R	103	65	0.60	0.35	0.30	0.26
LDS-FT-80-R	125	80	0.74	0.43	0.37	0.32
LDS-FT-25-HE2	44	27	0.25	0.14	0.13	0.11
LDS-FT-35-HE2	56	35	0.32	0.19	0.16	0.14
LDS-FT-45-HE2	76	45	0.42	0.24	0.21	0.18
LDS-FT-55-HE2	92	55	0.51	0.29	0.25	0.22
LDS-FT-65-HE2	108	65	0.60	0.35	0.30	0.26
LDS-FT-80-HE2	129	80	0.74	0.43	0.37	0.32

**Lumen Maintenance**

Data in the table below references projected performance in a 25°C ambient and is based on 10,000 hours of LED testing. Performance data has been tested per IESNA LM-80-08 and projected per IESNA TM-21-11.

Use the lumen maintenance factor that corresponds to the desired number of operating hours below to calculate LLF.

Fixture Model	Lumen Maintenance Factors @ 25°C, by hours:				
	0	25,000	50,000	70,000	100,000
LDS-FT-25-R	1.0	0.95	0.90	0.87	0.83
LDS-FT-35-R	1.0	0.95	0.90	0.87	0.83
LDS-FT-45-R	1.0	0.95	0.90	0.87	0.83
LDS-FT-55-R	1.0	0.95	0.90	0.87	0.83
LDS-FT-65-R	1.0	0.95	0.90	0.87	0.83
LDS-FT-80-R	1.0	0.95	0.90	0.87	0.83
LDS-FT-25-HE2	1.0	0.97	0.94	0.92	0.89
LDS-FT-35-HE2	1.0	0.95	0.90	0.87	0.83
LDS-FT-45-HE2	1.0	0.95	0.90	0.87	0.83
LDS-FT-55-HE2	1.0	0.95	0.90	0.87	0.83
LDS-FT-65-HE2	1.0	0.95	0.90	0.87	0.83
LDS-FT-80-HE2	1.0	0.95	0.90	0.87	0.83