



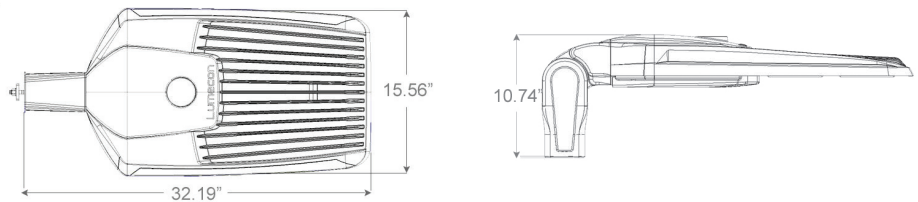
Catalog Number:	
Project:	
Comments:	
Prepared By:	Date:

### Description

The sleek fixture design of the LDS-LFL is a blend of modern sophistication and unmatched energy efficiency. The LDS-LFL Large area light includes the benefits of superior thermal efficiency, an industry-leading ten-year all-parts warranty, and custom optics ensuring best-in-class photometric results. Optimize photometric designs with greater pole spacing, uniformity, and lower energy usage. The LDS-LFL includes lumen packages up to 50,000 lumens allowing one-for-one replacements of existing HID fixtures up to 1000 Watt, and is a perfect spec-grade solution for parking lots, pathways, tennis courts, and many other outdoor applications. Proudly Made in the USA.

### Dimensions & Weights

Model	Width	Length	Height	Weight
LDS-LFL	15.56"	32.19"	10.74" (SF)	34.5 lbs



### Technical Specifications

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

**Housing:** Die-cast aluminum housing with 60% gloss polyester powder coat finishes for maximum durability. The base aluminum material is prepared using an environmentally-friendly non-chrome 2-step surface cleaning and passivation process. The process results in a more durable conversion layer than traditional chromate conversion coatings and allows maximum adhesion of the powder coating to the aluminum substrate. Housing features an integrated heat sink and driver compartment built into the fixture design.

**Mounting:** Two-piece swivel bracket (standard). Additional mounting options include: slip fitter.

**Split Circuit:** Standard except on the 165W model.

**Effective Projected Area (EPA):** 3.60 ft<sup>2</sup>

**Color Temperature:** 2200K, 2700K, 3000K, 4000K (standard), 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. CRI 90+ not available in 2200K.

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

**Custom Optics:** Lumecon meticulously engineered premium acrylic optical lenses to maximize the distribution and uniformity of light while minimizing cost. Our arrays distribute light at least 21% further and with 29% more uniformity than leading competitors. Lumecon custom lenses create a uniform, well-lit environment that mitigates illuminance "hot spots" and use less wattage than typical LED area lights.

**Vandal Resistant:** Our lens is also resistant to vandalism with a low compact design making the lens material dense and impact resistant. We build to withstand high abuse lighting environments.

**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:** ETL Listed to UL 1598, UL 8750 for Wet Locations. \*Full compliance and test documentation is available for TM-21, LM-79, LM-80, ETL Listing to UL1598 and UL 8750. Salt Fog tested for 3,000 hours per ASTM B117-16 / ASTM D610-08. Ingress Protection: IP66 per ANSI/IEC 60529-2004. Passed 3G vibration @ 100K cycles, per ANSI C136.31-2018.

**DesignLights Consortium® (DLC) Qualified Product:** Unless noted, not all versions of this product may be DLC® qualified. For a complete list of Lumecon DLC® Qualified Products visit: [www.designlights.org](http://www.designlights.org).

**Dimulator Photo-Control:** Maximize the cost-saving benefits of your outdoor LED light fixtures with the stand-alone Dimming solution. All Dimulators (except for CD and DIM 3 versions) have three selectable dimming levels (30%, 50%, 70%) with three different start times (10:00 pm, Midnight, or 2:00 am), which are selectable through the ten position selector switch located on the bottom of the base. All dimming schedules will return to full brightness at 5:00 am. The stand-alone unit is made to work with the ANSI C136.41 receptacle and will provide dimming of LED fixtures.

**Manufacturing Origin:** US Manufactured and Assembled.

**Buy American Act:** The product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS, and DOT regulations.

**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-LFL – Options / Ordering Example: LDS-LFL-200-DB-ST-1-50-SB

Wattage	Color	Distribution	Voltage	Color Temperature	Mounting Methods
165 - 165 Watts	DB - Dark Bronze	ST - Standard <sup>5</sup>	1 - 120-277V	22 - 2200K	SF - Slip Fitter
200 - 200 Watts	GR - Gray	NR - Narrow <sup>5</sup>	2 - 347-480V	27 - 2700K	SB - Swivel Bracket
250 - 250 Watts	BK - Black			30 - 3000K	
275 - 275 Watts	WH - White			40 - 4000K	
300 - 300 Watts	CC - Custom Color			50 - 5000K	
330 - 330 Watts	AF - Automotive Finish				

### Options & Accessories

R - Receptacle Only

RS - Receptacle Only with Shorting Cap

7P - Seven-pin Twist Lock Photocell Receptacle Only<sup>1</sup>

PC1 - 120-277V Button Eye Photocell<sup>2</sup>

PC2 - 347-480V Button Eye Photocell<sup>2</sup>

PC3 - 120-277V Twist Lock Photocell (10 year warranty)

PC4 - 347-480V Twist Lock Photocell (10 year warranty)

OC1 - On/Off Occupancy Sensor<sup>3</sup>

OC2 - Dim/High Occupancy Sensor<sup>3,4</sup>

OC3 - On/Off Occupancy Sensor w/Photocell<sup>3</sup>

OC4 - Dim/High Occupancy Sensor w/Photocell<sup>3,4</sup>

SC - Split Circuit (Standard except on the 165W model.)

DIM4 - 105-305 VAC, 50/60 Hz with 10 position field adjustable selector switch with integrated photocell

DIM4-HV - High Voltage 312-530 VAC, 50/60 Hz with 10 position field adjustable selector switch with integrated photocell

DIM4-CD - Constant all-night Dimming with integrated photocell

DIM4-CD-HV - Constant all-night Dimming, 315-530 VAC 50/60Hz with integrated photocell

DIM4-CUL - 120 VAC, 50/60 Hz, cUL certified version with gray cover with integrated photocell

DIM4-ALC - Adaptive Lighting Control with 2% per year incremental increase to compensate for aging fixture with integrated photocell

DIM3-XX - Factory set dimming schedule (10 position selector switch not available) with integrated photocell

BS5 - Bird Spikes (Field Installed)

#### Accessories ordered as a separate line item:

33-00111 - External Glare Shield

33-00119 - Full Glare Snoot

#### Notes:

1. For units with 7P the mounting must be restricted to +/-45° from horizontal aim per ANSI C1136.10-2010. If more than a 45° Tilt, use PC1 or PC2
2. Cannot be combined with Occupancy Sensor. Use OC3 or OC4 when Occupancy Sensor and Photocell are needed and aiming greater than 45° from horizontal.
3. Must note on PO Mounting Height for proper lens application
4. See Occupancy Sensor Default Settings Table
5. Standard: NEMA 7x7 and Narrow: NEMA 4x4

### Color Option Samples

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



DB - DARK  
BRONZE

GR - GRAY

BK - BLACK

WH - WHITE

If OCC Sensor Option is selected, mounting height specifications need to be clarified:  Mounting height between 0' - 10'

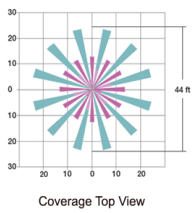
If Mounting height and parameter settings not specified when ordered. Default mounting height is 10-40' lens and preset factory settings.

Mounting height between 10' - 20'

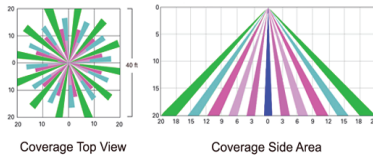
Mounting height over 20'+

### OCC Sensor Patterns

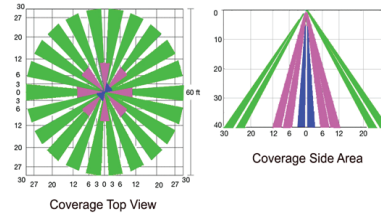
#### 0' - 10' Mounting Height



#### 10' - 40' Mounting Height



#### 40' + Mounting Height



### Occupancy Sensor Default Settings - Option OC2

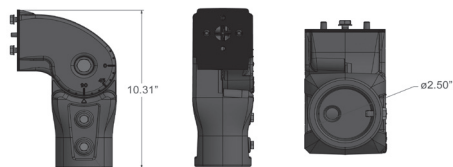
Option	Dimmed State (Unoccupied)	High Level (When occupied)	Photocell Operation (OC4 Option Only*)	Dwell Time (Occupancy time delay)	Ramp-up Time (From unoccupied to occupied)	Ramp-up Time (From occupied to unoccupied)
OC2 and OC4	Approx. 20% Output	100% Output	Enabled @ 1.5 FC*	5 Minutes	Disabled	Disabled

\*Note: OC2 and OC4 settings including photocell set point, high/low dim rates, and occupancy sensor time delay are all configurable by using the Wattstopper® App. If any other settings are desired to be set at the factory, please note these changes on Purchase Order.

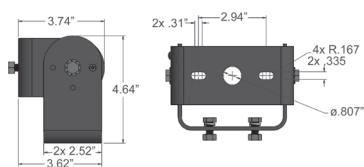
### Performance Data

	Distribution Type	Watts	2200K		2700K		3000K		4000K		5000K	
			Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy
LDS-LFL-165	Standard	165W	20,359	126	23,406	145	25,258	156	26,249	162	26,260	162
	Narrow	165W	21,135	130	24,294	149	26,026	160	27,042	166	27,060	166
LDS-LFL-200	Standard	200W	24,257	121	27,883	140	29,871	149	31,035	155	31,056	155
	Narrow	200W	24,887	125	28,607	143	30,647	153	31,843	159	31,863	159
LDS-LFL-250	Standard	242W	28,670	118	32,955	136	35,305	146	36,670	151	36,705	151
	Narrow	242W	29,414	121	33,811	140	36,222	149	37,636	155	37,659	155
LDS-LFL-275	Standard	276W	31,604	115	36,328	132	38,917	141	40,443	147	40,462	147
	Narrow	276W	32,425	118	37,271	135	39,928	145	41,487	150	41,513	151
LDS-LFL-300	Standard	293W	33,046	113	37,985	130	40,693	139	42,280	144	42,308	144
	Narrow	293W	33,904	116	38,972	133	41,750	143	43,380	148	43,407	148
LDS-LFL-330	Standard	331W	33,538	107	42,453	128	44,697	135	47,051	143	47,180	142
	Narrow	331W	35,532	107	42,393	128	44,663	135	47,144	142	47,099	142

**Mounting Method Dimensions**

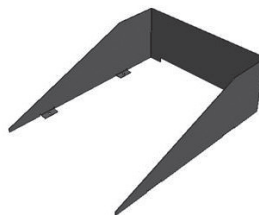
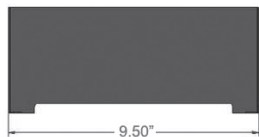
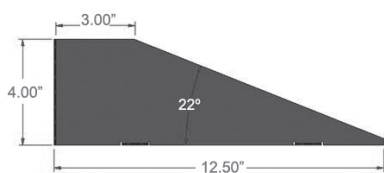


SF - Slip Fitter Arm Dimensions

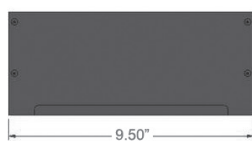
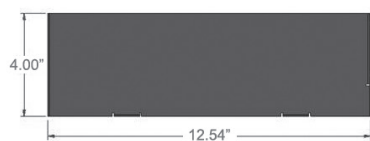


SB - Swivel Bracket Dimensions

**External Glare Shield and Full Glare Snoot Dimensions**



33-00111 – External Glare Shield



33-00119 – Full Glare Snoot

### Performance Data

#### Electrical Load Data

Fixture Model	Drive Current (mA)	System Watts (W)	AC Current Load (A)				
			120V	208V	240V	277V	480V
LDS-LFL-165	1450	165	1.53	0.88	0.76	0.66	0.38
LDS-LFL-200	910	200	1.85	1.07	0.93	0.80	0.46
LDS-LFL-250	1100	250	2.31	1.34	1.16	1.00	0.58
LDS-LFL-275	1250	275	2.55	1.47	1.27	1.10	0.64
LDS-LFL-300	1325	300	2.78	1.60	1.39	1.20	0.69
LDS-LFL-330	1475	330	3.06	1.76	1.53	1.32	0.76

#### 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-LFL-165	1.0	0.99	0.994	0.989	0.983
LDS-LFL-200	1.0	0.99	0.994	0.989	0.983
LDS-LFL-250	1.0	0.99	0.994	0.989	0.983
LDS-LFL-275	1.0	0.99	0.994	0.989	0.983
LDS-LFL-300	1.0	0.99	0.994	0.989	0.983
LDS-LFL-330	1.0	0.99	0.994	0.989	0.983