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

Description

The sleek fixture design of the LDS-LFC is a blend of modern sophistication and unmatched energy efficiency. The LDS-LFC small 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-LFC includes lumen packages up to 30,000 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-LFC	13.25"	15.52:	3.61"	13 lbs
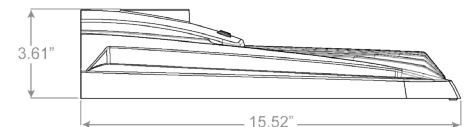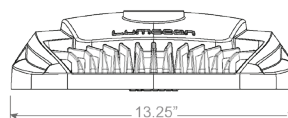
Technical Specifications

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: Wall mount bracket standard.

Split Circuit: Optional

Effective Projected Area (EPA): 0.83 ft²

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 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.

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°C.

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.

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.

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

Ordering Information

LDS-LFC – Options / Ordering Example: LDS-LFC-110-DB-T5-1-50-WM

Wattage	Color	Distribution	Voltage	Color Temperature	Mounting Methods
30 - 30 Watts	DB - Dark Bronze	T2 - Type II	1 - 120-277V	22 - 2200K [8]	WM - Wall Mount Bracket
45 - 45 Watts	WH - White	T3 - Type III	2 - 347-480V	27 - 2700K [8]	
60 - 60 Watts	BK - Black	T4 - Type IV		30 - 3000K [8]	
75 - 75 Watts	GR - Gray	T5 - Type V		40 - 4000K	
80 - 80 Watts	CC - Custom	NR - Narrow		50 - 5000K	
85 - 85 Watts	AF - Automotive Finish				
95 - 95 Watts					
110 - 110 Watts					
125 - 125 Watts					
160 - 160 Watts					
200 - 200 Watts					
220 - 220 Watts					

Options & Accessories

R - Receptacle Only

RS - Receptacle Only with Shorting Cap

7P - Seven-pin Twist Lock Photocell Receptacle Only [1]

PC1 - 120v-277v Button Eye Photocell [2]

PC2 - 347v 480v Button Eye Photocell [2]

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

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

OC1 - On/Off [3]

OC2 - Dim/High [3,4]

OC3 - On/Off w/Photocell [3,4]

OC4 - Dim/High w/Photocell [3,4]

BB - Battery Back-Up (only available on the 30W - 80W models and on 120/277V models)

BBCR - Battery Back-Up Cold Rated (only available on the 30W - 80W models and on 120/277v models)

SC - Split Circuit [5,6,7]

CWMB - Cosmetic Wall Mount Bracket

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

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

DIM4-CD - Constant all-night Dimming

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

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

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

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

BS5 - Bird Spikes (Field Installed)

BL - Backlight Louver(s) snap over LED Array(s) for Backlight Control at the source.[6]

Accessories ordered as a separate line item:

33-00112 - External Glare Shield

33-00120 - Full Glare Snoot

Notes:
1. For units with 7P the mounting must be restricted to +/-45º from horizontal aim per ANSI C1136.10-2010. If more than a 45º 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 45º from horizontal.

3. Must note on PO Mounting Height for proper lens application

4. See Occupancy Sensor Default Settings Table

5. Split circuit is only available for 30W, 45W, 60W, and 80W models.

6. Split circuit is not compatible with Occupancy sensing our photo-eye control.

7. Split Circuit and Battery Back-up cannot both fit in the same housing. Battery Back-Up will require external. Battery Backup will only control one of the circuits.

8. 3000K or warmer, and fixed mounts must be ordered for IDA certification compliance.
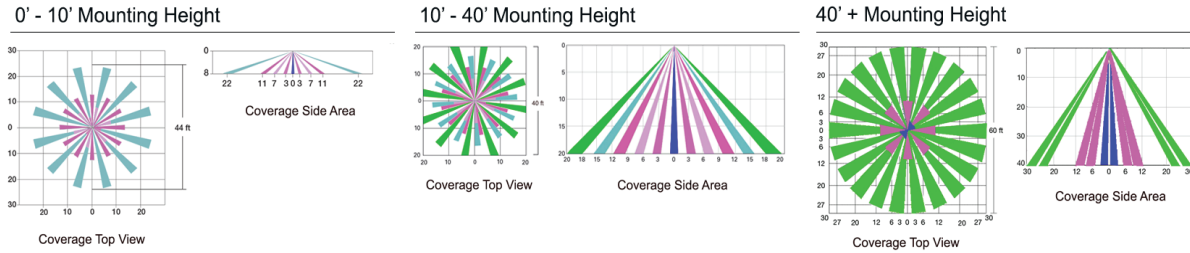
9. Works with Type 2, Type 3 and Type 4 arrays.

Color Option Samples

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

DB - DARK BRONZE	WH - WHITE	BK - BLACK	GR - GRAY

If OCC Sensor Option is selected, mounting height specifications need to be clarified:

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

☐ Mounting height between 0' - 10'

☐ Mounting height between 10' - 20'

☐ Mounting height over 20'+

OCC Sensor Patterns

0' - 10' Mounting Height

Coverage Top View

Coverage Side Area

10' - 40' Mounting Height

Coverage Top View

Coverage Side Area

40' + Mounting Height

Coverage Top View

Coverage Side Area

	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.

Mounting Method Dimensions

4x ø .221"

2.50"

1.81"

10.57"
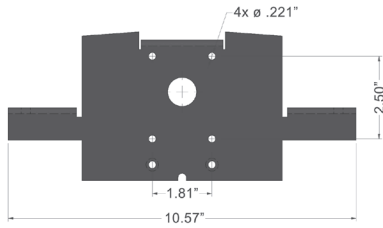
LDS-LFC Wall Mount Bracket

15"

9.5"
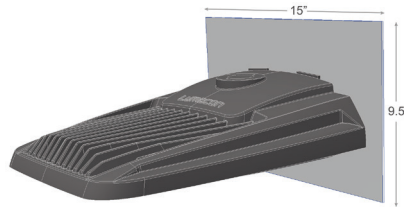
LDS-FC Optional Cosmetic Wall Mount Bracket

Backlight Louver(s)

BL - Backlight Louver(s) snap over LED Array(s) for Backlight Control at the source.
Works with Type 2, Type 3 and Type 4 arrays.

External Glare Shield and Full Glare Snoot Dimensions

1.50"

4.00"

34°

7.13"

8.50"

33-00112 – External Glare Shield

4.00"

8.50"

7.17"

33-00120 – Full Glare Snoot

LDS - LFC
LED Wall Pack
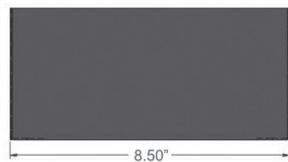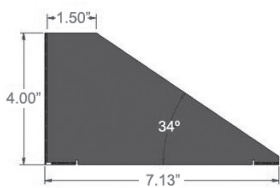
Performance Data

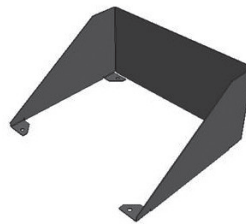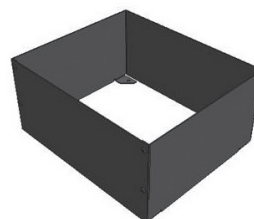| Model	Distribution Type	Watts	Lumens (2200K)	B	U	G	Eff	Lumens (2700K)	B	U	G	Eff	Lumens (3000K)	B	U	G	Eff	Lumens (4000K)	B	U	G	Eff	Lumens (5000K)	B	U	G	Eff
LDS-SAL/LFC-30	Type 2	30	2,904	1	0	1	98	3,739	1	0	1	131	3791	1	0	1	132	4378	1	0	1	147	4393	1	0	1	148
	Type3	30	2,927	1	0	1	99	3,769	1	0	1	132	3821	1	0	1	133	4412	1	0	1	149	4428	1	0	1	149
	Type4	30	2,878	1	0	1	97	3,706	1	0	1	129	3757	1	0	1	131	4357	1	0	1	146	4352	1	0	1	147
	Type5	30	2,975	2	0	2	100	3,749	2	0	2	131	3801	2	0	2	133	4474	2	0	2	151	4491	2	0	2	151
LDS-SAL/LFC-45	Type2	45	4899	1	0	1	103	6591	1	0	1	147	6683	1	0	1	149	6930	1	0	1	154	6975	1	0	1	155
	Type3	45	4635	1	0	1	97	6356	1	0	1	141	6445	1	0	1	143	6570	1	0	1	146	6570	1	0	1	146
	Type4	45	4591	1	0	1	96	6172	1	0	1	137	6259	1	0	1	139	6525	1	0	1	145	6525	1	0	1	145
	Type5	45	4738	3	0	2	99	6370	3	0	2	142	6459	3	0	2	144	6705	3	0	2	149	6750	3	0	2	150
LDS-SAL/LFC-60	Type2	60	5400	1	0	2	90	7620	1	0	2	127	7800	1	0	2	130	8100	1	0	2	135	8100	1	—	0	135
	Type3	60	5400	2	0	2	90	7560	2	0	2	126	7680	2	0	2	128	8160	2	0	2	136	8220	2	0	2	137
	Type4	60	5340	2	0	2	89	7440	2	0	2	124	7560	2	0	2	126	8040	2	0	2	134	8040	2	0	2	134
	Type5	60	5520	3	0	3	92	7680	3	0	3	128	7800	3	0	3	130	8280	3	0	3	138	8340	3	0	3	139
LDS-SAL/LFC-75	Type2	75	5700	2	0	2	76	8753	2	0	2	117	8876	2	0	2	118	9939	2	0	2	133	9196	2	0	2	123
	Type3	75	5625	2	0	2	75	8648	2	0	2	115	8770	2	0	2	117	10019	2	0	2	134	9265	2	0	2	124
	Type4	75	5925	2	0	2	79	8500	2	0	2	113	8619	2	0	2	115	9849	2	0	2	131	9106	2	0	2	121
	Type5	75	6450	3	0	3	86	8773	3	0	3	117	8896	3	0	3	119	9982	3	0	3	133	9234	3	0	3	123
LDS-SAL/LFC-80	Type2	80	7669	2	0	2	90	9128	2	0	2	114	9256	2	0	2	116	10560	2	0	2	132	9559	2	0	2	119
	Type3	80	7575	2	0	3	89	9019	2	0	3	113	9146	2	0	3	114	10645	2	0	3	133	9630	3	0	3	120
	Type4	80	7446	3	0	3	87	8865	3	0	3	111	8989	3	0	3	112	10465	3	0	3	131	9465	3	0	3	118
	Type5	80	7685	4	0	2	90	9149	4	0	2	114	9277	4	0	2	116	10557	4	0	2	132	9550	4	0	2	119
LDS-SAL/LFC-85	Type2	85	8949	2	0	2	105	10654	2	0	2	128	10796	2	0	2	129	11257	2	0	2	135	11719	2	0	2	141
	Type3	85	9019	3	0	3	106	10737	3	0	3	129	10878	3	0	3	130	11344	3	0	3	136	11810	3	0	3	142
	Type4	85	8696	3	0	3	102	10353	3	0	3	124	10495	3	0	3	126	10968	3	0	3	131	11440	3	0	3	138
	Type5	85	9175	4	0	2	107	10923	4	0	2	131	11065	4	0	2	133	11540	4	0	2	138	12015	4	0	2	145
LDS-SAL/LFC-95	Type 2	95	10644	2	0	2	125	12672	2	0	2	135	12813	2	0	2	137	13275	2	0	2	142	13737	2	0	2	147
	Type3	95	10713	3	0	3	126	12754	3	0	3	136	12896	3	0	3	138	13362	3	0	3	142	13828	3	0	3	148
	Type4	95	10391	3	0	3	122	12371	3	0	3	132	12513	3	0	3	133	12986	3	0	3	138	13458	3	0	3	144
	Type5	95	10870	4	0	2	127	12941	4	0	2	138	13083	4	0	2	140	13558	4	0	2	145	14033	4	0	2	150
LDS-SAL/LFC-110	Type2	110	12502	2	0	2	114	14955	2	0	2	135	14487	2	0	2	131	14520	2	0	2	132	14520	2	0	2	132
	Type3	110	12599	3	0	3	115	15072	3	0	3	137	14599	3	0	3	132	14637	3	0	3	133	14637	3	0	3	133
	Type4	110	12146	3	0	2	111	14524	3	0	2	132	14350	3	0	2	130	14382	3	0	2	130	14382	3	0	2	130
	Type5	110	12819	4	0	2	117	14698	4	0	2	133	14517	4	0	2	131	14549	4	0	2	132	14549	4	0	2	132
LDS-SAL/LFC-125	Type2	125	13970	2	0	2	111	16712	2	0	2	133	16463	2	0	2	131	16225	2	0	2	129	16225	2	0	2	129
	Type3	125	14079	3	0	3	112	16841	3	0	3	134	16590	3	0	3	132	16353	3	0	3	130	16353	3	0	3	130
	Type4	125	13572	3	0	3	108	16236	3	0	3	129	16307	3	0	3	130	16072	3	0	3	128	16072	3	0	3	128
	Type5	125	14000	4	0	2	112	16424	4	0	2	131	16496	4	0	2	131	16258	4	0	2	130	16258	4	0	2	130
LDS-SAL/LFC-160	Type2	160	16962	2	0	2	108	20290	2	0	2	129	20575	2	0	2	131	21554	2	0	2	137	21395	2	0	2	137
	Type3	160	1709S	3	0	3	109	20449	3	0	3	130	2073S	3	0	3	132	215S4	3	0	3	138	215S4	3	0	3	138
	Type4	160	16802	3	0	3	107	20100	3	0	3	128	20381	3	0	3	129	21183	3	0	3	136	21183	3	0	3	136
	Type5	160	17136	5	0	3	109	20659	5	0	3	131	20659	5	0	3	131	21429	5	0	3	137	21429	5	0	3	137
LDS-SAL/LFC-200	Type2	200	19200	2	0	2	96	24600	2	0	2	123	24800	2	0	2	124	24400	2	0	2	122	25000	2	0	2	125
	Type3	200	19400	3	0	3	97	24800	3	0	3	124	25000	3	0	3	125	24600	3	0	3	123	25600	3	0	3	128
	Type4	200	19000	4	0	3	95	23400	4	0	3	117	24600	4	0	3	123	24200	4	0	3	121	24800	3	0	3	124
	Type5	200	19200	4	0	2	96	24200	4	0	2	121	25000	4	0	2	125	24600	4	0	2	123	25000	4	0	2	125
LDS-SAL/LFC-220	Type2	220	21120	2	0	2	96	27060	2	0	2	123	27280	2	0	2	124	27280	2	0	2	124	27280	2	0	2	124
	Type3	220	21340	3	0	3	97	27280	3	0	3	124	27500	3	0	3	125	27500	3	0	3	125	27500	3	0	3	125
	Type4	220	20900	3	0	3	95	25740	3	0	3	117	27060	3	0	3	123	27060	3	0	3	123	27060	3	0	3	123
	Type5	220	21120	4	0	2	96	26620	4	0	2	121	27500	4	0	2	125	27060	4	0	2	125	27500	4	0	2	125

Performance Data

Electrical Load Data

Fixture Model	Drive Current (mA)	System Watts (W)	AC Current Load (A)				
			120V	208V	240V	277V	480V
LDS-LFC-30	550	30	0.28	0.16	0.14	0.12	0.07
LDS-LFC-45	875	45	0.42	0.24	0.21	0.18	0.10
LDS-LFC-60	1100	60	0.56	0.32	0.28	0.24	0.14
LDS-LFC-75	1475	75	0.70	0.40	0.36	0.31	0.18
LDS-LFC-80	1480	80	0.74	0.43	0.37	0.32	0.19
LDS-LFC-85	695	85	0.79	0.45	0.40	0.35	0.20
LDS-LFC-95	840	95	0.89	0.51	0.44	0.39	0.23
LDS-LFC-110	975	110	1.02	0.59	0.51	0.44	0.25
LDS-LFC-125	1150	125	1.16	0.67	0.58	0.50	0.29
LDS-LFC-160	1450	160	1.48	0.85	0.74	0.64	0.37
LDS-LFC-200	1642	200	1.86	1.06	0.92	0.82	0.48
LDS-LFC-220	1925	220	2.05	1.17	1.00	0.90	0.53

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-LFC-30	1.0	0.99	0.96	0.92	0.85
LDS-LFC-45	1.0	0.99	0.96	0.92	0.85
LDS-LFC-60	1.0	0.99	0.96	0.92	0.85
LDS-LFC-75	1.0	0.99	0.96	0.92	0.85
LDS-LFC-80	1.0	0.99	0.96	0.92	0.85
LDS-LFC-85	1.0	0.99	0.96	0.92	0.85
LDS-LFC-95	1.0	0.99	0.96	0.92	0.85
LDS-LFC-110	1.0	0.99	0.96	0.92	0.85
LDS-LFC-125	1.0	0.99	0.96	0.92	0.85
LDS-LFC-160	1.0	0.99	0.96	0.92	0.85
LDS-LFC-200	1.0	0.99	0.96	0.92	0.85
LDS-LFC-220	1.0	0.99	0.96	0.92	0.85