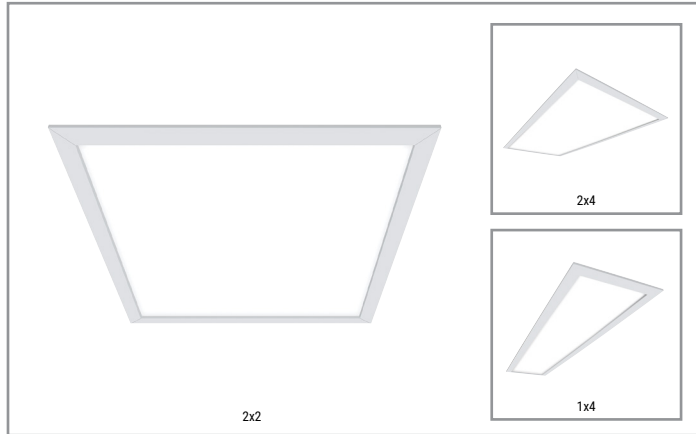


Project		Catalog #		Type	
Prepared by		Notes		Date	



Fail-Safe



FLR Fully Luminous Recessed

- FLR-WL Wet Location
- FLR-HA High Abuse
- FLR-MC Medical/Cleanroom

Typical Applications

Healthcare • Public Spaces • Locker Rooms • Behavioral Health • Wet Locations • Cleanrooms • Labs • Canopies • Pharmacies • Research Centers • High Tech Manufacturing • Food Processing Service

Interactive Menu

- Order Information page 2
- Performance page 4
- Product Warranty

Product Certification



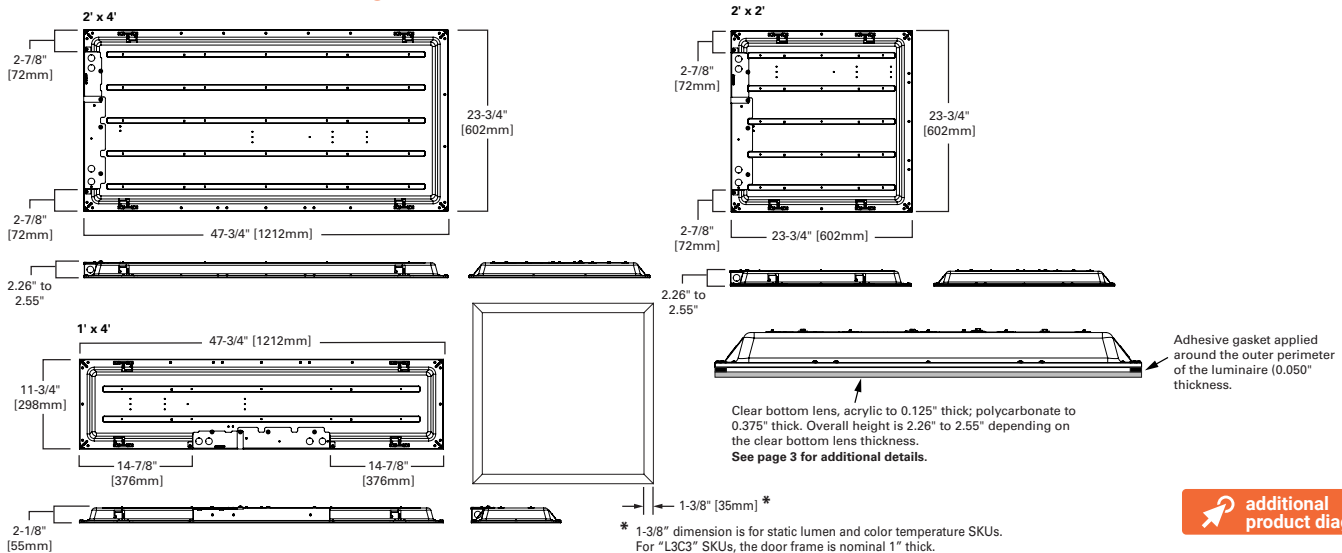
Product Features



Top Product Features

- Fully luminous back-lit luminaire for use in high abuse, medical, wet location, and cleanroom applications
- NSF listed for use in food service/food processing applications - easy cleaning and wipe-down
- Nominal 2-1/2" depth for use in shallow plenums
- Clear polycarbonate bottom lens for use in **behavioral health** applications (FLR-HA). **Ligature resistant.**
- Wet location standard / IP65 and IP66 available for water and dust ingress protection
- ISO5-9 certified for use in cleanroom applications (FLR-MC)
- IK10 with polycarbonate lens (FLR-HA)
- Options to meet Buy American and other domestic preference requirements

Dimensional and Mounting Details



additional product diagrams



Order Information

SAMPLE ORDER NUMBER: **Wet Location:** FLR-WL-22-L3C3-CA080-A3/8-4/18GDIM
 SAMPLE ORDER NUMBER: **High Abuse:** FLR-HA-24-45-50-CP125
 SAMPLE ORDER NUMBER: **Medical/Cleanroom:** FLR-MC-14-40-35-CA125-EL14W

Domestic Preferences	Fixture	Application	Size	Lumen Output		CCT	Voltage	Lens
Domestic Preferences ⁽¹⁾	Fixture	Application	Size	Lumen Output		CCT ^{(2) (3)}	Voltage	Clear Bottom Lens ⁽⁴⁾
[Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act	FLR=Fully Luminous Recessed	WL=Wet Location HA=High Abuse MC=Medical/Cleanroom	14=1x4 22=2x2 24=2x4	1x4 40=4000 Lumens 2x2 35=3500 Lumens L3C3=2700-5000	2x4 45=4500 Lumens 55=5500 Lumens L3C3=3000-6900	35=3500K 40=4000K 50=5000K 35/50= 3 CTT Selectable, ⁽⁶⁾ L3500K/4000K/L5000K	Blank=(120-277)	Acrylic CA080=Clear Acrylic (0.080" thickness) CA125=Clear Acrylic (0.125" thickness) Polycarbonate CP125=Clear Polycarbonate (0.125" thickness) CP187=Clear Polycarbonate (0.187" thickness) CP250=Clear Polycarbonate (0.250" thickness) CP375=Clear Polycarbonate (0.375" thickness)
Notes (1) Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements				Notes L3C3 is a selection (field selectable) of the three lumen packages and three (CCT) color temperatures (3500K, 4000K, 5000K).		Notes (2) Check Performance table for available lumen/CCT combinations. (3) 35/50 only compatible with L3C3 CCT		Notes (4) Acrylic lens typically used for wet location (WL) or medical/cleanroom (MC) applications. Polycarbonate lens used for high abuse (HA) applications or whenever an impact resistant luminaire is required.

Options	Accessories
Options	Accessories ⁽¹⁾
EL7W=7-watt, 120V-277V emergency battery pack installed ^{(5), (8), (12)} EL14W=14-watt 120V-277V emergency battery pack installed ^{(5), (8), (12)} IP65=Installation Brackets for IP65 Rating ⁽⁶⁾ IP66=Installation Brackets for IP66 Rating ⁽⁶⁾ A3/8-4/18GDIM=6' length, 3/8" cable, 2 wire, 2 dimming leads, ground A3/8-5/18GDIM=6' length, 3/8" cable, 3 wire, 2 dimming leads, ground GSK=Gasket around perimeter of bottom edge of lens between fixture and ceiling grid (HA only - standard on MC & WL)	FLR60=Set of mounting security clips (4 qty) for FLR to secure fixture to grid. Works with lenses up to 0.250" thick DFCL-2448W-U*=2' x 4' gasketed drywall framing kit. Cut out dimension 24.25" x 48.25" ⁽⁹⁾ DFCL-2424W-U*=2' x 2' gasketed drywall framing kit. Cut out dimension 24.25" x 24.25" ⁽⁹⁾ DFCL-1248W-U*=1' x 4' gasketed drywall framing kit. Cut out dimension 12.25" x 48.25" ⁽⁹⁾ DFVR/FLR-2448W-U*=2' x 4' vandal resistant drywall framing kit. Cut out dimension 24.25" x 48.25" ^{(9) (9)} DFVR/FLR-2424W-U*=2' x 2' vandal resistant drywall framing kit. Cut out dimension 24.25" x 24.25" ^{(9) (9)} DFVR/FLR-1248W-U*=1' x 4' vandal resistant drywall framing kit. Cut out dimension 12.25" x 48.25" ^{(9) (9)}
Notes (5) With remote test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). IES-format photometry. Remote Test Switch is not WL, NSF, or IP rated. (6) IP65 & IP66 standard with DFVR/FLR drywall kit. (8) EM pack is always specified before (to the left of) the flex.	Notes *For Antimicrobial matte white finish, replace the W with AMW. ex. DFCL-1248AMW-U. (9) DFCL & DFVR framing kits are used to install the FLR in hard ceiling applications. DFCL is not applicable with IP65 or IP66 options. (11) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

Product Specifications

Construction

- Robust die-formed steel back plate is post-painted to ensure durability
- Housing is absent of holes to resist debris/bug intrusion
- Aluminum door frame with mitered corners, tightly fastened to the housing

Mounting

- Integral grid clips provided and include suspension / wire retention features
- Junction box constructed of code gauge galvanized steel with access plate
- Multiple Trade size KO provided and JBox is suitable for up to 12AWG wiring
- Factory installed flex with dimming leads available

Controls

- Standard UNV 120 - 277V driver with 0-10V dimming, 10% standard
- Can be used with tile mounted sensor or other remote mount controls

Electrical

- Projected lumen maintenance based on TM21 testing standards is >L84 @60,000 hours
- Driver rated for FCC part 15 Class B for use in residential or commercial applications
- LEDs are 80 CRI (minimum) and available in 3500K, 4000K, and 5000K CCT

Emergency Options

- 120V-277V integral emergency battery pack comes in 7-watts, or 14-watts
- Constant power to the LED system for controlled, predictable discharge
- Integrated test switch/indicator light visible from the floor
- Min. 90-minute backup period for code compliance

Optical Shielding

- Acrylic micro-optics enable uniform distribution of the LEDs for uniform lens illumination (interior lens)
- Frosted lens with smooth pattern delivers uniform illumination across the entire lens (interior lens)
- Durable lens with surface texture to minimize scratch and impact damage
- Clear bottom lens, acrylic or polycarbonate for functional performance - adhered to door frame

Compliance

- cULus listed for 25C ambient environments, indoor applications
- IC rated for direct insulation contact
- Wet location listed, under covered ceiling
- IESNA LM-79 and LM-80 standards compliant
- Suitable for State of California Title 24 high efficacy luminaire
- FCC part 15 class B (residential) compliant
- Meets IP65 or IP66 rating from the room side, when specified in catalog logic
- Tested for ISO 5 compliance. ISO3 and ISO4 environments typically employ uni-directional vertical air-flow and a ventilated raised floor to remove airborne particles. Not uncommon for the entire ceiling to be either HEPA or ULPA filters. Filtered air is continually directed downward, passing through the ventilated raised floor, and recirculated - to remove more of the airborne particles than are created. Often, laminar-flow surface mount luminaires are used to illuminate the space. With proper air flow and air exchanges, proper installation, this non-shedding luminaire is acceptable for use in ISO3-9 environments.

Warranty

- Five year warranty
- Extended warranty to 10 years available

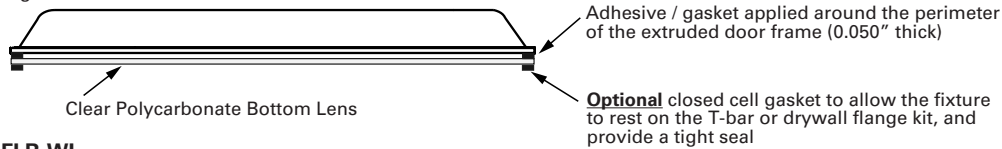
Lens Dimensional Information



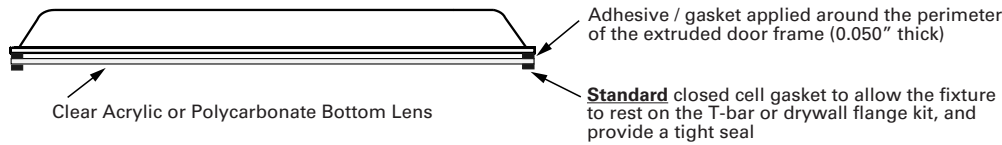
Clear Bottom Lens	Fixture Height
No Lens	2.125"
CA08	2.255"
CA125, CP125	2.30"
CP187	2.362"
CP250	2.425"
CP375	2.55"

FLR-HA / FLR-WL / FLR-MC

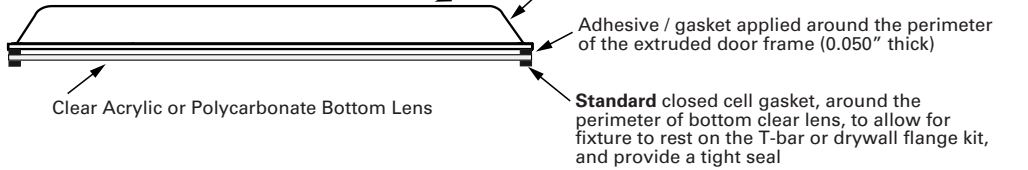
FLR-HA High Abuse



FLR-WL Wet Location

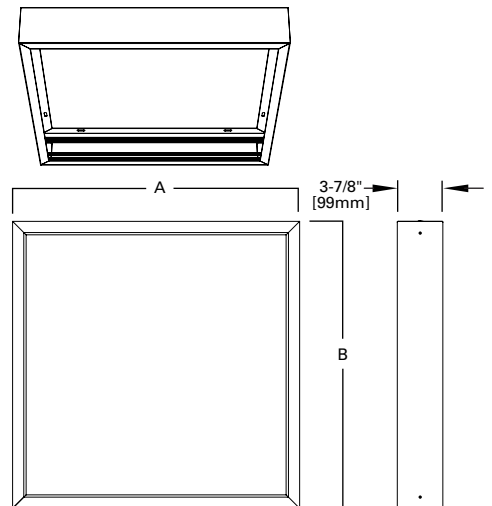


FLR-MC Medical Cleanroom



Performance

Size	Catalog Fail-Safe	Watts	CA08	LPW	CA125	LPW	CP125	LPW	CP187	LPW	CP250	LPW	CP250	LPW
1x4	FLR-XX-14-40-35	39.4	4120	105	4125	105	3898	99	3845	98	3862	98	3724	95
	FLR-XX-14-40-40	39.4	4279	109	4284	109	4049	103	3993	101	4011	102	3868	98
	FLR-XX-14-40-50	39.4	4279	109	4284	109	4049	103	3993	101	4011	102	3868	98
2x2 Static	FLR-XX-22-35-35	31.4	3392	108	3396	108	3209	102	3166	101	3180	101	3066	98
	FLR-XX-22-35-40	31.4	3523	112	3527	112	3333	106	3288	105	3302	105	3184	101
	FLR-XX-22-35-50	31.4	3523	112	3527	112	3333	106	3288	105	3302	105	3184	101
2x2 Selectable	FLR-XX-22-L3C3 (LOW)-35	22.0	2675	122	2678	122	2531	115	2496	113	2508	114	2418	110
	FLR-XX-22-L3C3 (LOW)-40	21.3	2780	130	2783	131	2630	123	2594	122	2605	122	2512	118
	FLR-XX-22-L3C3 (LOW)-50	21.9	2724	124	2727	125	2578	118	2542	116	2554	117	2463	112
	FLR-XX-22-L3C3 (MED)-35	30.2	3620	120	3624	120	3425	113	3378	112	3393	112	3272	108
	FLR-XX-22-L3C3 (MED)-40	28.9	3826	132	3830	133	3620	125	3570	124	3586	124	3458	120
	FLR-XX-22-L3C3 (MED)-50	30.1	3686	122	3690	123	3488	116	3440	114	3455	115	3332	111
	FLR-XX-22-L3C3 (HI)-35	40.6	4623	114	4628	114	4374	108	4314	106	4333	107	4178	103
	FLR-XX-22-L3C3 (HI)-40	38.5	4980	129	4985	129	4711	122	4647	121	4667	121	4501	117
FLR-XX-22-L3C3 (HI)-50	40.5	4729	117	4734	117	4474	110	4413	109	4432	109	4274	106	
2x4 Static	FLR-XX-24-45-35	38.8	4198	108	4202	108	3972	102	3917	101	3935	101	3794	98
	FLR-XX-24-45-40	38.8	4359	112	4364	112	4124	106	4068	105	4086	105	3940	102
	FLR-XX-24-45-50	38.8	4359	112	4364	112	4124	106	4068	105	4086	105	3940	102
	FLR-XX-24-55-35	46.8	5055	108	5060	108	4782	102	4717	101	4738	101	4569	98
	FLR-XX-24-55-40	46.8	5249	112	5255	112	4966	106	4898	105	4920	105	4745	101
	FLR-XX-24-55-50	46.8	5249	112	5255	112	4966	106	4898	105	4920	105	4745	101
2x4 Selectable	FLR-XX-24-L3C3 (LOW)-35	27.8	3541	127	3545	128	3350	121	3304	119	3319	119	3200	115
	FLR-XX-24-L3C3 (LOW)-40	27.1	3649	135	3653	135	3452	127	3405	126	3420	126	3298	122
	FLR-XX-24-L3C3 (LOW)-50	27.8	3591	129	3595	129	3397	122	3351	121	3366	121	3246	117
	FLR-XX-24-L3C3 (MED)-35	39.7	4934	124	4939	124	4668	118	4604	116	4624	116	4459	112
	FLR-XX-24-L3C3 (MED)-40	38.5	5155	134	5160	134	4877	127	4810	125	4832	125	4659	121
	FLR-XX-24-L3C3 (MED)-50	39.7	4997	126	5003	126	4728	119	4663	117	4684	118	4517	114
	FLR-XX-24-L3C3 (HI)-35	52.8	6320	120	6327	120	5980	113	5898	112	5924	112	5713	108
	FLR-XX-24-L3C3 (HI)-40	50.7	6804	134	6812	134	6437	127	6349	125	6378	126	6150	121
FLR-XX-24-L3C3 (HI)-50	52.8	6539	124	6546	124	6186	117	6102	116	6129	116	5910	112	



Surface Mounting Options

Catalog No.	Description	UPC	A	B
CGTSURF24	2x4 CGT Surface Mount Kit	080083083107	24-5/8" [625mm]	48-5/8" [1235mm]
CGTSURF22	2x2 CGT Surface Mount Kit	080083083121	24-5/8" [625mm]	24-5/8" [625mm]
CGTSURF14	1x4 CGT Surface Mount Kit	080083083145	12-5/8" [321mm]	48-5/8" [1235mm]

Note: Cannot be used with EL7W or EL14W options.