

PRODUCT HIGHLIGHTS

- ✓ High uniformity
- ✓ High intensity
- ✓ Reverse polarity protection
- ✓ Diffuse light
- Options:
 - ~ No driver, no trigger, no dimmer
 - ~ Built-in trigger
 - ~ Built-in driver + Trigger + PWM dimmer
 - ~ Built-in driver + Trigger + Analog dimmer



GENERAL SPECIFICATIONS

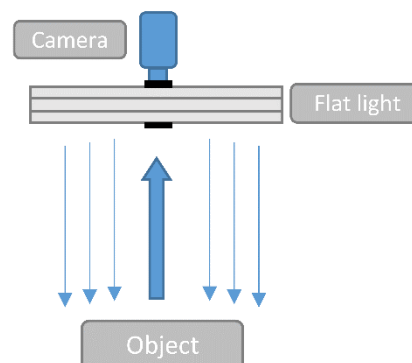
Specifications	FL2020	FL2030	FL3030	FL3040	FL4040
Power supply [Vdc]			24		
Max. current[Amp] (White)	2.3	2.9	3.4	4.3	4.8
Connector	M12 4-pin				
Size [mm]	260x260x30	260x360x30	360x360x30	360x460x30	460x460x30
Light window area [mm]	200x200	200x300	300x300	300x400	400x400
Hole for camera [mm]	Ø 45	Ø 45	Ø 45	Ø 45	Ø 45
Working temperature [°C]	0-50	0-50	0-50	0-50	0-50

APPLICATIONS

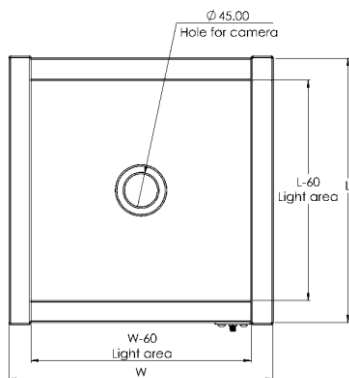
This type of lighting incorporates a special transparent sheet that diffracts the light perpendicularly, thereby achieving diffuse and homogeneous lighting.

Application examples:

- Eliminating reflections shadows, ideal choice for glossy and curved surfaces
- Suitable for Pick & Place / Positioning applications.
- Inspection of highly reflective metal and glass surfaces



MECHANICAL SPECIFICATIONS



TOP VIEW

Model	L	W
FL2020	260	260
FL2030	260	360
FL3030	360	360
FL3040	360	460
FL4040	460	460



SIDE VIEW



FRONT VIEW

Dimensions are in millimeters

PART NUMBER KEY

FL - -

SIZE **COLOR** **DRIVER**

2020=200x200 mm
2030=200x300 mm
3030=300x300 mm
3040=300x400 mm
4040=400x400 mm

W57 **625**
530 **470**

N = No driver
T = Built-in trigger
R = Built-in driver & trigger & PWM dimmer
A = Built-in driver & trigger & Analog dimmer

Part Number Example:

FL3030-625-N

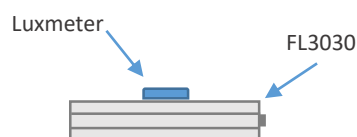
flat lighting, 300x300 mm, Red, no driver

FL2030-W57-R

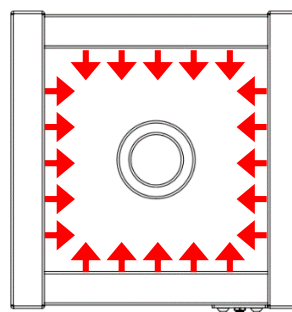
flat lighting, 200x300 mm, White, Built-in driver & trigger & PWM dimmer

LIGHT PATTERNS

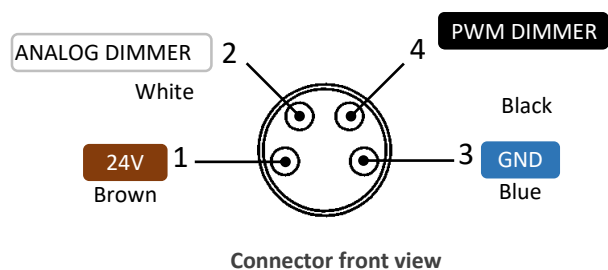
DISTANCE	ILLUMINATION (Lux)
Surface	42000
Measurement taken on white light	



The FL is edge lit, which means the light comes from each of the four edges. This produces a very homogeneous light output.



WIRING INFORMATION



PIN	FUNCTION	WIRE COLOR
1	24 V	Brown
2	DIMMER *	White
3	GND	Blue
4	TRIGGER * PWM DIMMER *	Black

* Optional functions

**Compatible with A-coded M12-4p and M12-5p female connector cables

MOUNTING

MV Lighting recommends the **Drop-in T-nuts** for channel 8 to mount a FL flat light.



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