

# FML LED DECORATIVE FLOOD

Cat.#

Job

Type



**HUBBELL**  
Outdoor Lighting

Approvals

## SPECIFICATIONS

### Intended Use:

Compact LED flood with a variety of NEMA distribution for lighting applications such as safety/security, accent, flag pole, columns, or signs

### Construction:

- Corrosion resistant, rugged die-cast aluminum housing with powder coat paint finish
- High impact UV stabilized acrylic outer lens protects LEDs and allows for cleaning and debris removal
- Vented housing isolates LED module from driver, maximizing product life and performance
- Visor and vandal lens available

### LED:

- 14 high powered LED's (Stock)
- 20 high powered LED's (MTO)
- Ambient operating temperature -35°C to 40°C
- Stock Versions: 4000K and 5000K CCT
- MTO Versions: 3000K nominal with 80 CRI, 4000K and 5000K CCT nominal with 70 CRI

### Optical/Electrical

- Variety of NEMA distributions: - N (3x3), M (4x4), RM (5x4) and W (6x6) - for wide range of lighting applications; Stock version Wide (6x6) only

### Optical/Electrical (Cont.)

- 120-277V operation, 50/60Hz
- Driver IP66 and RoHS compliant driver
- 10KV surge protector comes standard
- 0-10V dimming driver standard, continuous dimming option to have leads pulled out for easy connection

### Installation:

- Traditional 1/2" x 14 NPS threaded adjustable knuckle mounting
- Easy maintenance access to electrical components with removal of 4 screws from back of fixture housing.

### Listings:

- IP65
- EPA is .54 sq/ft.
- Listed to UL1598 for use in wet locations
- DLC Qualified (4000K and 5000K models only); Consult DLC website for more details: <http://www.designlights.org/QPL>

### Warranty:

5 year limited warranty, for more information visit: <http://www.hubbellighting.com/resources/warranty/>

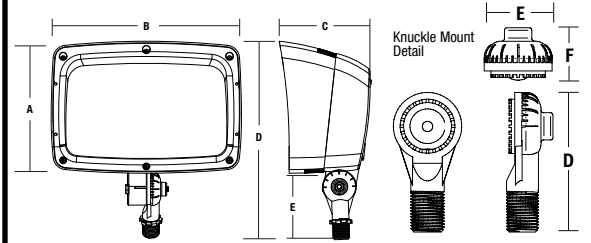
## PRODUCT IMAGE(S)



FML52 Stock

FML20 MTO

## DIMENSIONS



| A      | B      | C      | D      | E     | F     | G     |
|--------|--------|--------|--------|-------|-------|-------|
| 6.68"  | 9.63"  | 4.53"  | 10.20" | 3.52" | 1.71" | 1.54" |
| 169 mm | 244 mm | 115 mm | 254mm  | 89mm  | 43mm  | 29mm  |

## CERTIFICATIONS/LISTINGS



## SHIPPING INFORMATION

| Catalog Number                     | G.W(kg)/CTN    | Carton Dimensions |                 |                  |
|------------------------------------|----------------|-------------------|-----------------|------------------|
|                                    |                | Length Inch (cm)  | Width Inch (cm) | Height Inch (cm) |
| FML-52 or 20 (Single carton 1 pc.) | 3.81 lbs (1.7) | 11.81" (30)       | 9.45" (24)      | 7.48" (19)       |
| FML-52 (Master carton 2 pcs.)      | 7.61 lbs (3.5) | 19.69" (50)       | 12.40" (32)     | 8.46" (21.5)     |

Carton dimensions for shipping purposes only

## ORDERING INFORMATION - STOCK VERSION

| Catalog Number | Mount       | Max Candle Power | Beam Pattern | Wattage | Drive Current | Voltage  | Color Temperature | Lumens | LPW | Weight lbs. (kg) | Finish |
|----------------|-------------|------------------|--------------|---------|---------------|----------|-------------------|--------|-----|------------------|--------|
| FML-52         | 1/2" thread | 3481             | Wide         | 52      | 1050mA        | 120-277V | 5000K             | 4771   | 95  | 8.5 (3.8)        | Bronze |
| FML-14-PCU     | 1/2" thread | 3481             | Wide         | 52      | 1050mA        | 120-277V | 5000K             | 4771   | 95  | 8.5 (3.8)        |        |
| FML-14L4K      | 1/2" thread | 3568             | Wide         | 52      | 1050mA        | 120-277V | 4000K             | 4695   | 94  | 8.5 (3.8)        |        |
| FML-14L4K-PCU  | 1/2" thread | 3568             | Wide         | 52      | 1050mA        | 120-277V | 4000K             | 4695   | 94  | 8.5 (3.8)        |        |

## ORDERING INFORMATION - MADE TO ORDER

FML - 20L - 52 - [ ] - [ ] - [ ] - K - [ ] - [ ] - [ ]

| FAMILY | # LEDES             | WATTS             | CCT                              | DISTRIBUTION                      | VOLTAGE   | MOUNTING  | FINISH  | CONTROL OPTION  | OPTIONS  |
|--------|---------------------|-------------------|----------------------------------|-----------------------------------|---|-----------|---|---|--|
| FML    | FACTOR Flood Medium | 20L 20 LED 52 52W | 3K 3000K<br>4K 4000K<br>5K 5000K | N 3x3<br>M 4x4<br>RM 5x4<br>W 6x6 | U 120V-277V<br>1 120V<br>2 208V<br>3 240V<br>4 277V | K Knuckle | DB Bronze<br>BL Black<br>WH White<br>GR Gray<br>PS Platinum silver<br>CC Custom Color | PC <sup>1</sup> Photocontrol (voltage specified and determined by voltage field)<br>CD Continuous dimming | F <sup>1</sup> Fusing 120 or 277V only (determined by voltage field)<br>PC Surge Protector, 20KA Surge Protector |

1 - PC - photocell and F - Fusing options cannot be combined, only available as separate options



Hubbell Outdoor Lighting • 701 Millennium Boulevard • Greenville, SC 29607 • Phone: 864-678-1000

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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## ACCESSORIES/REPLACEMENT PARTS - Order Separately

| Catalog Number            | Description  |
|---------------------------|--|
| FML-SPC                   | Vandal resistant polycarbonate lens (Replaces existing acrylic outer frame)      |
| FML-VISOR-XX <sup>1</sup> | Top/Bottom visor (Tap holes in lens frame for field installation)                |
| 93047961AC                | Acrylic lens w/ gasket   |
| 93047971                  | FML14, 50w, 120-277V Dimming driver 1050mA                                       |
| 93043808                  | FML20, 50w, 120-277V Dimming driver 700mA  |
| 20750110264               | Knuckle mount Dark Bronze finish. Contact factory for additional finishes        |
| S-302                     | Slipfits 1 1/2" or 2" pipe (1.9" OD or 2 3/8" OD) with 1/2" N.P.S.M. hub; Gray   |
| S-302-M51                 | Slipfits 1 1/2" or 2" pipe (1.9" OD or 2 3/8" OD) with 1/2" N.P.S.M. hub; Bronze |
| S-302-M52                 | Slipfits 1 1/2" or 2" pipe (1.9" OD or 2 3/8" OD) with 1/2" N.P.S.M. hub; White  |
| TRN-XX <sup>1</sup>       | Trunnion adaptor for 1/2" threaded knuckle mount                                 |

<sup>1</sup> Specify finish color to match fixture, e.g. DB - Bronze.



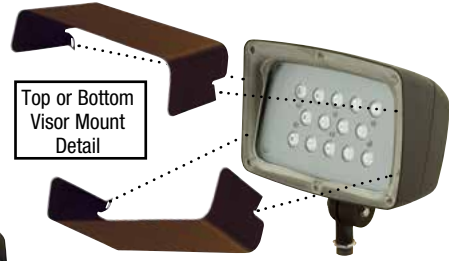
FML-SPC



FML-VISOR - 3/4 View



Front View



Top or Bottom Visor Mount Detail



TRN-XX



S-302-XXX

## PERFORMANCE DATA - Stock

| # OF LEDS | DRIVE CURRENT | SYSTEM WATTS | DIST. TYPE | NEMA  | FIELD ANGLE H° X V° | 5K (5000K nominal, 70 CRI) |                  |                      | 4K (4000K nominal, 70 CRI) |                  |                      |
|-----------|---------------|--------------|------------|-------|---------------------|----------------------------|------------------|----------------------|----------------------------|------------------|----------------------|
|           |               |              |            |       |                     | LUMENS                     | LPW <sup>1</sup> | MAX BEAM CANDLEPOWER | LUMENS                     | LPW <sup>1</sup> | MAX BEAM CANDLEPOWER |
| 14        | 1050mA        | 52W          | W          | 6 X 6 | 108 X 107           | 4771                       | 95               | 3481                 | 4695                       | 94               | 3568                 |

<sup>1</sup> - Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

## PERFORMANCE DATA - MTO

| # OF LEDS | DRIVE CURRENT | SYSTEM WATTS | DIST. TYPE | NEMA  | FIELD ANGLE H° X V° | 5K (5000K nominal, 70 CRI) |                  |                      | 4K (4000K nominal, 70 CRI) |                  |                      | 3K (3000K nominal, 80 CRI) |                  |                      |
|-----------|---------------|--------------|------------|-------|---------------------|----------------------------|------------------|----------------------|----------------------------|------------------|----------------------|----------------------------|------------------|----------------------|
|           |               |              |            |       |                     | LUMENS                     | LPW <sup>1</sup> | MAX BEAM CANDLEPOWER | LUMENS                     | LPW <sup>1</sup> | MAX BEAM CANDLEPOWER | LUMENS                     | LPW <sup>1</sup> | MAX BEAM CANDLEPOWER |
| 20        | 700mA         | 52w          | N          | 3 x 3 | 32 x 32             | 5185                       | 103              | 41534                | 4675                       | 98               | 38703                | 3618                       | 75               | 31214                |
|           |               |              | M          | 4 x 4 | 54 x 54             | 5083                       | 99               | 15056                | 4712                       | 98               | 13606                | 3618                       | 74               | 10399                |
|           |               |              | RM         | 5 x 4 | 83 x 66             | 4338                       | 84               | 7273                 | 4017                       | 83               | 6543                 | 3132                       | 63               | 5527                 |
|           |               |              | W          | 6 x 6 | 107 x 107           | 4957                       | 96               | 3291                 | 4552                       | 94               | 3150                 | 3466                       | 69               | 2548                 |

<sup>1</sup> - Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

## PROJECTED LUMEN MAINTENANCE - Stock

| AMBIENT TEMP. | OPERATING HOURS |        |        |                              |         | Calculated L70 (HOURS) |
|---------------|-----------------|--------|--------|------------------------------|---------|------------------------|
|               | 0               | 25,000 | 50,000 | <sup>1</sup> TM-21-11 60,000 | 100,000 |                        |
| 40°C / 104°F  | 0.99            | 0.91   | 0.85   | 0.84                         | 0.76    | >137,000               |

## PROJECTED LUMEN MAINTENANCE - MTO

| AMBIENT TEMP. | OPERATING HOURS |        |        |                              |         | Calculated L70 (HOURS) |
|---------------|-----------------|--------|--------|------------------------------|---------|------------------------|
|               | 0               | 25,000 | 50,000 | <sup>1</sup> TM-21-11 60,000 | 100,000 |                        |
| 25°C / 77°F   | 1.00            | 0.98   | 0.96   | 0.96                         | 0.94    | >696,000               |
| 40°C / 104°F  | 0.99            | 0.96   | 0.95   | 0.94                         | 0.92    | >565,000               |

## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

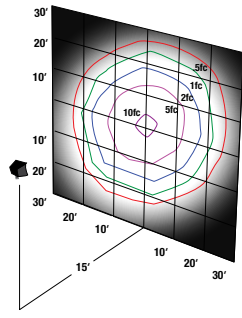
| AMBIENT TEMPERATURE |       | LUMEN MULTIPLIER |
|---------------------|-------|------------------|
| 0°C                 | 32°F  | 1.02             |
| 10°C                | 50°F  | 1.01             |
| 20°C                | 68°F  | 1.00             |
| 25°C                | 77°F  | 1.00             |
| 30°C                | 86°F  | 1.00             |
| 40°C                | 104°F | 0.99             |
| 50°C                | 122°F | 0.98             |

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

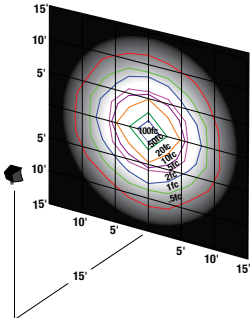
## ELECTRICAL DATA

| # OF LEDS | NUMBER OF DRIVERS | DRIVE CURRENT (mA) | INPUT VOLTAGE (V) | CURRENT (Amps) | SYSTEM POWER (W) |
|-----------|-------------------|--------------------|-------------------|----------------|------------------|
| 14        | 1                 | 1050mA             | 120               | 0.43           | 53               |
|           |                   |                    | 277               | 0.19           | 53               |
| 20        | 2                 | 700mA              | 120               | 0.56           | 52               |
|           |                   |                    | 277               | 0.26           | 52               |

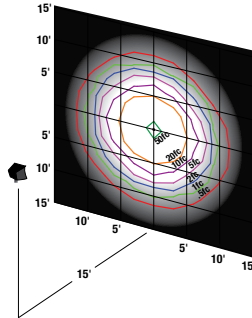
**PHOTOMETRICS** For additional photometric information and IES downloads, visit our web site at [www.hubbelloutdoor.com](http://www.hubbelloutdoor.com)



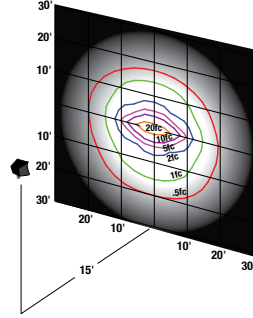
FML14  
6x6 Wide



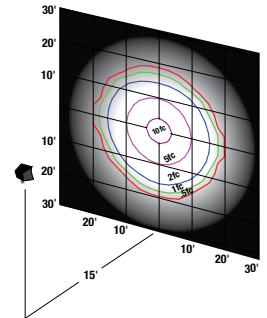
FML20  
3x3 Narrow



FML20  
4x4 Medium



FML20  
5x4 Rectangular  
Medium



FML20  
6x6 Wide