

# DOWNLIGHTS (SQUARE)

## FEATURES

### CONSTRUCTION

- Side lit design for an ultra thin profile
- Insulation contact (IC) rated
- IP44, suitable for damp or dry locations
- Wide beam angle (120°) for better spacing
- 100% Acrylic LGP (for color stability)
- Polycarbonate diffuser
- CE and cULus Rated
- RoHS compliant
- 5 year warranty (standard)

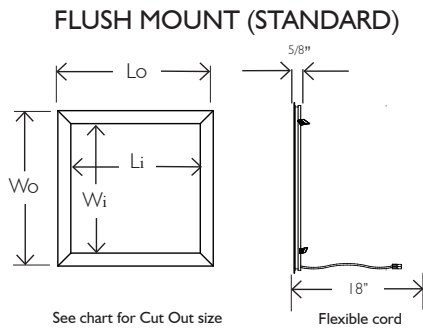
### ELECTRICAL

- Dimmable (via driver or using PWM) <sup>(1)</sup>
- Constant voltage design allows for multiple lights per driver
- LM-80 and LM-79 available
- Downlights can be placed within 50 feet of driver
- Long life over 50,000 hours, L<sub>70</sub>

|              |  |
|--------------|--|
| Project Name |  |
| Date         |  |
| Type         |  |



Part Numbers:  
(lights, options)



### PRODUCT SIZE AND ENERGY USAGE <sup>(2)</sup>

| Product Size | Depth | Wo  | Lo  | Wi  | Li  | Cut Out           | CQ and HE |      |
|--------------|-------|-----|-----|-----|-----|-------------------|-----------|------|
|              |       |     |     |     |     |                   | WDC       | WAC  |
| 4"           | 5/8"  | 4"  | 4"  | 2"  | 2"  | 3 1/2" x 3 1/2"   | 3.5       | 4.0  |
| 6"           | 5/8"  | 6"  | 6"  | 4"  | 4"  | 5 1/2" x 5 1/2"   | 7.0       | 8.0  |
| 8"           | 5/8"  | 8"  | 8"  | 6"  | 6"  | 7 1/2" x 7 1/2"   | 9.0       | 9.3  |
| 10"          | 5/8"  | 10" | 10" | 8"  | 8"  | 9 1/2" x 9 1/2"   | 11.5      | 13.3 |
| 12"          | 5/8"  | 12" | 12" | 10" | 10" | 11 1/2" x 11 1/2" | 16.0      | 18.5 |

ALSO AVAILABLE IN GRID MOUNT

L FM SS 30 W - 0606 - HE

| Type            | Mounting                    | Style      | CCT Options | *Frame Color              | W X L          | Model                                                                           |
|-----------------|-----------------------------|------------|-------------|---------------------------|----------------|---------------------------------------------------------------------------------|
| L - Light Panel | FM - Flush Mount (Standard) | SS -Linear | 30 - 3000K  | W - White                 | 0404 - 4"x4"   | CQ - Color Quality: CRI >90, R9 >50<br><br>HE - High Efficiency: CRI >80, R9 >5 |
|                 | GM - Grid Mount (Optional)  |            | 35 - 3500   | B - Black <sup>(3)</sup>  | 0606 - 6"x6"   |                                                                                 |
|                 |                             |            | 40 - 4000K  | S - Silver <sup>(3)</sup> | 0808 - 8"x8"   |                                                                                 |
|                 |                             |            | 50 - 5000K  |                           | 1010 - 10"x10" |                                                                                 |

Use With

| DRIVERS |        |
|---------|--------|
| LD16    | LD60   |
| LD25    | LD90   |
| LD40    | LD100P |

\*NOTE: Custom colors may result in additional cost and/or lead times.

### CQ LUMEN CHART

The TILT CQ line is designed to provide high color rendering with a more complete spectral distribution.

| CQ - COLOR QUALITY MODEL |        |     |     |     |      |      |
|--------------------------|--------|-----|-----|-----|------|------|
| CRI >90, R9 >50          |        |     |     |     |      |      |
| CCT                      |        | 4"  | 6"  | 8"  | 10"  | 12"  |
| 5000K                    | Lumens | 165 | 500 | 775 | 1100 | 1500 |
|                          | L/W    | 45  | 70  | 76  | 87   | 85   |
| 4000K                    | Lumens | 160 | 500 | 775 | 1050 | 1500 |
|                          | L/W    | 44  | 70  | 76  | 82   | 84   |
| 3500K                    | Lumens | 160 | 500 | 750 | 1050 | 1500 |
|                          | L/W    | 43  | 68  | 75  | 81   | 84   |
| 3000K                    | Lumens | 150 | 450 | 675 | 950  | 1350 |
|                          | L/W    | 50  | 60  | 67  | 73   | 74   |

### HE LUMEN CHART

The TILT HE line is designed to provide a balance of light quality and energy efficiency.

| HE - HIGH EFFICIENCY MODEL |        |     |     |     |      |      |
|----------------------------|--------|-----|-----|-----|------|------|
| CRI >80, R9 >5             |        |     |     |     |      |      |
| CCT                        |        | 4"  | 6"  | 8"  | 10"  | 12"  |
| 5000K                      | Lumens | 200 | 550 | 925 | 1200 | 1750 |
|                            | L/W    | 55  | 78  | 92  | 94   | 98   |
| 4000K                      | Lumens | 200 | 550 | 900 | 1200 | 1750 |
|                            | L/W    | 53  | 75  | 89  | 92   | 96   |
| 3500K                      | Lumens | 200 | 550 | 875 | 1200 | 1750 |
|                            | L/W    | 51  | 76  | 87  | 92   | 96   |
| 3000K                      | Lumens | 175 | 525 | 850 | 1150 | 1675 |
|                            | L/W    | 50  | 73  | 85  | 91   | 94   |

## DOWNLIGHTS - SQUARE

### DRIVER SPECIFICATIONS

Class 2, SELV, UL8750, short circuit, over voltage, over current and over temperature protection. CE rated, RoHS compliant and plenum rated (UL 2043). NOTE: Drivers are available in an Emergency version: battery back-up - 90mins at 7W output. See our LDPE7 data sheet for details.

| Model  | Size in Inches (LxWxH) | AC Input  | Output (VDC/W) | Dimmable <sup>(1)</sup> | Working Temp | MAX Fixtures <sup>(4)</sup> |    |    |     |     |
|--------|------------------------|-----------|----------------|-------------------------|--------------|-----------------------------|----|----|-----|-----|
|        |                        |           |                |                         |              | 4"                          | 6" | 8" | 10" | 12" |
| LD16   | 3.0"W x 12.0"L x 1.5"D | 90 - 305V | 24 / 16W       | Yes                     | -35~70C      | 4                           | 2  | 1  | 1   | 1   |
| LD25   | 3.0"W x 12.0"L x 1.5"D | 90 - 305V | 24 / 25W       |                         | -35~70C      | 6                           | 3  | 2  | 2   | 1   |
| LD40   | 3.0"W x 12.0"L x 1.5"D | 90 - 305V | 24V / 40W      |                         | -40~70C      | 10                          | 5  | 4  | 3   | 3   |
| LD60   | 3.0"W x 12.0"L x 1.5"D | 90 - 305V | 24V / 60W      |                         | -40~70C      | 15                          | 8  | 6  | 4   | 3   |
| LD90   | 3.0"W x 12.0"L x 1.5"D | 90 - 305V | 24V / 90W      |                         | -40~70C      | 20                          | 12 | 10 | 7   | 5   |
| LD100P | 2.6"W x 14.0"L x 1.6"D | 90 - 305V | 24V / 100W     |                         | -40C - 60C   | 25                          | 13 | 11 | 8   | 6   |

### SAMPLE LAYOUT

Twelve by eighteen foot office at 30-40 footcandles.

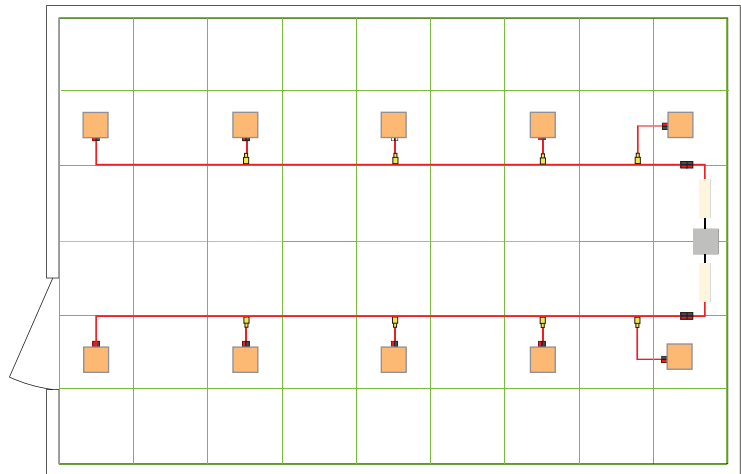
### SPECIFICATIONS

Foot Candles  
(0.4/Sq.Ft)

93 (total)

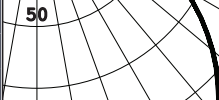
Wattage  
90  
(8" downlights)

Parts List  
10 PCS - LFMSS-0606-HE  
2 PCS - LD60  
2 PCS - DL20  
8 PCS - SW24



### PHOTOMETRICS

Photometric charts with testing data.

| LFMSS -0808-HE                                                                      |        | ZONAL LUMEN SUMMARY |     | 4"  | 6"  | 8"   | 10"  | 12" |
|-------------------------------------------------------------------------------------|--------|---------------------|-----|-----|-----|------|------|-----|
| PHOTOMETRY                                                                          |        | DEGREES             | %   |     |     |      |      |     |
|  | 0-30   | 0.28                | 56  | 154 | 252 | 336  | 490  |     |
|                                                                                     | 0-40   | 0.46                | 92  | 253 | 414 | 552  | 805  |     |
|                                                                                     | 0-60   | 0.8                 | 160 | 440 | 720 | 960  | 1400 |     |
|                                                                                     | 0-90   | 1                   | 200 | 550 | 900 | 1200 | 1750 |     |
|                                                                                     | 90-180 | 0                   | 0   | 0   | 0   | 0    | 0    |     |
|                                                                                     | 0-180  | 100                 | 200 | 550 | 900 | 1200 | 1750 |     |

Call for specific information not listed here: 855.440.8458



### NOTES (NUMBERS)

(1) See driver or dimming product sheet for specific details

(2) AC W used for circuit power; DC W used for driver circuit

(3) Frame colors other than white are custom

(4) Based on watt load of fixtures and driver output



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