

3/20/2014

## LED Stairwell Fixture

### 2' and 4' High Efficacy LEDs



### Applications

|                    |               |
|--------------------|---------------|
| Stairwell Lighting | Egress        |
| Shop/Sheds         | Restrooms     |
| Task Lighting      | Hallways      |
| Storage Areas      | Laundry Rooms |

### Specifications

- White finish with Extruded Ribbed Lens
- 4000K LED's with CRI>80
- L70 >80,000 hrs calculated
- L70 >54,000 hrs reported
- Thermally protected Driver with 0-10V dimming
- UL Listed for damp locations
- Suitable for ambient temperatures -30C to 40C
- Warranty: 5 Years
- Available options
  - o Ultrasonic Sensor
  - o Factory pre-set dimming level
  - o Electronic constant current dimmable driver

|              |  |
|--------------|--|
| Project:     |  |
| Catalog#:    |  |
| Approved by: |  |

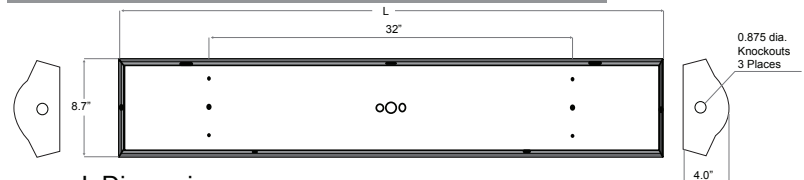
### Description

SW2 & SW4 LED series Stairwell Fixtures are designed to save energy and meet low light egress requirements. Also the fixture is optimal for stairways, bathrooms, and other lower traffic areas. They are designed with high efficacy LED engines to get the most energy savings compared to fluorescent fixtures.

### Benefits

- Exceptional Color Rendering
- Energy saving compared to fluorescent systems
- Long life LEDs
- System Tested, Designed, Approved, and Manufactured by Howard Industries in Mendenhall Mississippi.
- Compliant with Safety and performance standards.

### Dimensions



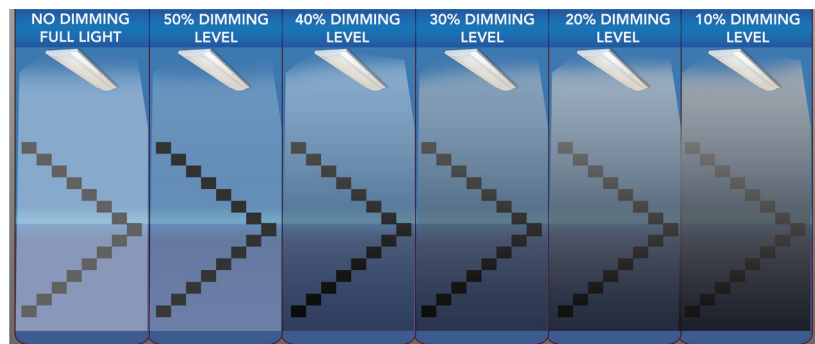
L Dimensions:  
 SW2 = 24"  
 SW4 = 48"

### Dimming Information

Dimming Option: 10%, 20%, 30%, 40%, 50%

Lower Percentage = Lower Light

For example: 10% Dimming produces 10% of the light compared to full power.



Visit [www.designlights.org](http://www.designlights.org)  
for the Qualified Products List



Visit [www.lightingfacts.com](http://www.lightingfacts.com)  
for a list of qualified products.



Specifications subject to change without notice.

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Ordering Information

| Model Family  | LED                                      | Wattage  | Dimming¹  | CCT       | Input Volts                | Factory Installed Options | TBA | Pack.     |
|---|--|--|---|-----------|----------------------------|---------------------------|-----|-----------|
| SW4   | LED                                      | 085  | 10  | 40        | U                          | US                        | 000 | I         |
| SW4: 4' (192LEDs)<br><br>SW2: 2' (96 LEDs)<br><br>Stairwell Fixture | LED: High Efficacy Long-Life LED Fixture | 085: 85 Output Watts (4')<br><br>030: 30 Output Watts (2') | 10: 10% Dimming<br>20: 20% Dimming<br>30: 30% Dimming<br>40: 40% Dimming<br>50: 50% Dimming | 40: 4000K | U Universal Input 120-277v | US: Ultrasonic Sensor     | TBA | I: Single |

Footnote:  
1. 10% Dimming produces 10% of the light compared to full power.

|      |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|
| 100% | 50% | 40% | 30% | 20% | 10% |
|------|-----|-----|-----|-----|-----|

| Model#*              | Lumens | Input Watts | Lm/W | CCT/CRI     | Suggested Fluorescent Replacement |
|----------------------|--------|-------------|------|-------------|-----------------------------------|
| SW4LED0851040UUS000I | 7049   | 96          | 73.7 | 4000K/85CRI | 3x54T5HO                          |
| SW2LED0301040UUS000I | 2566   | 34          | 74.6 | 4000K/85CRI | 2x32T8                            |

Sample Ordering Number  
SW4 LED 085 10 40 U US 000 I  
SW4 –4' (192 LEDs)) stairwell fixture  
LED – High efficacy Long life LED fixture  
085 – 85 output watts  
10 – 10 % dimming  
40 – 4000K CCT  
U – Universal Input 120 – 277  
US – Ultra Sonic sensor  
000 – TBA  
I – Individually packed.

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# LED Stairwell Fixture

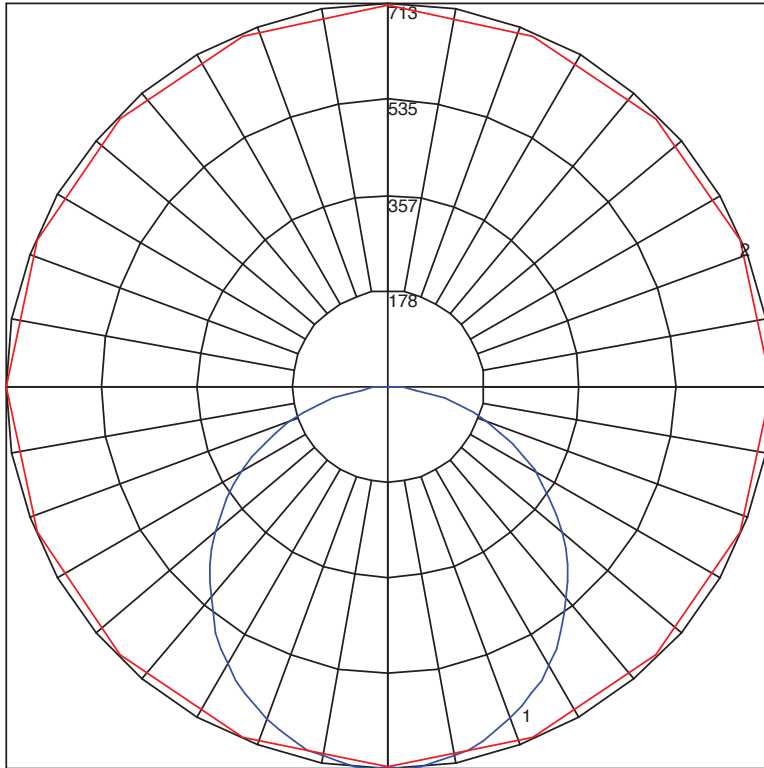
## 2' and 4' High Efficacy LEDs

### Photometric Data

#### SW2LED0271040UUS0001

#### T32146A.IES

Testing done in accordance with LM079-08



Maximum Candela = 713 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
 # 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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|--------------|--|
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#### SW2LED0271040

|               |       |
|---------------|-------|
| Input Power   | 31.1W |
| Efficacy Lm/W | 73.2  |
| LEDs          | 96    |
| Lumen Output  | 2276  |

#### Luminance Data

In Candela/SQ M at 0° plane

| Angle | Average |
|-------|---------|
| 45    | 8600    |
| 55    | 8293    |
| 65    | 7808    |
| 75    | 6822    |
| 85    | 4097    |

#### Zonal Lumen Summary

| Zone  | Lumens | % Fixture |
|-------|--------|-----------|
| 0-30  | 550    | 24.19     |
| 0-40  | 902    | 39.62     |
| 0-60  | 1608   | 70.68     |
| 0-90  | 2189   | 96.21     |
| 0-180 | 2276   | 100.00    |

### Coefficients of Utilization - Zonal Cavity Method

(Effective Floor Cavity Reflectance 0.20)

| RW | 80  |     |     |     | 70  |     |     |     | 50  |     |     | 30  |     |     | 10 |    |    | 0  |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| RC | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 | 0  |
| 0  | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 96 |
| 1  | 106 | 101 | 96  | 92  | 103 | 98  | 94  | 90  | 93  | 90  | 86  | 89  | 86  | 83  | 84 | 82 | 80 | 77 |
| 2  | 96  | 87  | 80  | 74  | 93  | 85  | 78  | 72  | 81  | 75  | 70  | 77  | 72  | 68  | 73 | 69 | 66 | 63 |
| 3  | 87  | 76  | 68  | 61  | 84  | 74  | 66  | 60  | 71  | 64  | 58  | 67  | 62  | 57  | 64 | 59 | 55 | 53 |
| 4  | 80  | 67  | 58  | 51  | 77  | 66  | 57  | 50  | 63  | 55  | 49  | 60  | 53  | 48  | 57 | 52 | 47 | 45 |
| 5  | 73  | 60  | 51  | 44  | 71  | 59  | 50  | 43  | 56  | 48  | 42  | 54  | 47  | 42  | 51 | 46 | 41 | 39 |
| 6  | 68  | 54  | 45  | 38  | 65  | 53  | 44  | 38  | 51  | 43  | 37  | 48  | 42  | 36  | 47 | 41 | 36 | 34 |
| 7  | 63  | 49  | 40  | 34  | 61  | 48  | 39  | 33  | 46  | 38  | 33  | 44  | 37  | 32  | 42 | 36 | 32 | 30 |
| 8  | 58  | 44  | 36  | 30  | 57  | 44  | 35  | 30  | 42  | 35  | 29  | 40  | 34  | 29  | 39 | 33 | 28 | 26 |
| 9  | 54  | 41  | 32  | 27  | 53  | 40  | 32  | 27  | 39  | 31  | 26  | 37  | 31  | 26  | 36 | 30 | 26 | 24 |
| 10 | 51  | 38  | 30  | 24  | 50  | 37  | 29  | 24  | 36  | 29  | 24  | 34  | 28  | 24  | 33 | 27 | 23 | 21 |

Specifications subject to change without notice.

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# LED Stairwell Fixture

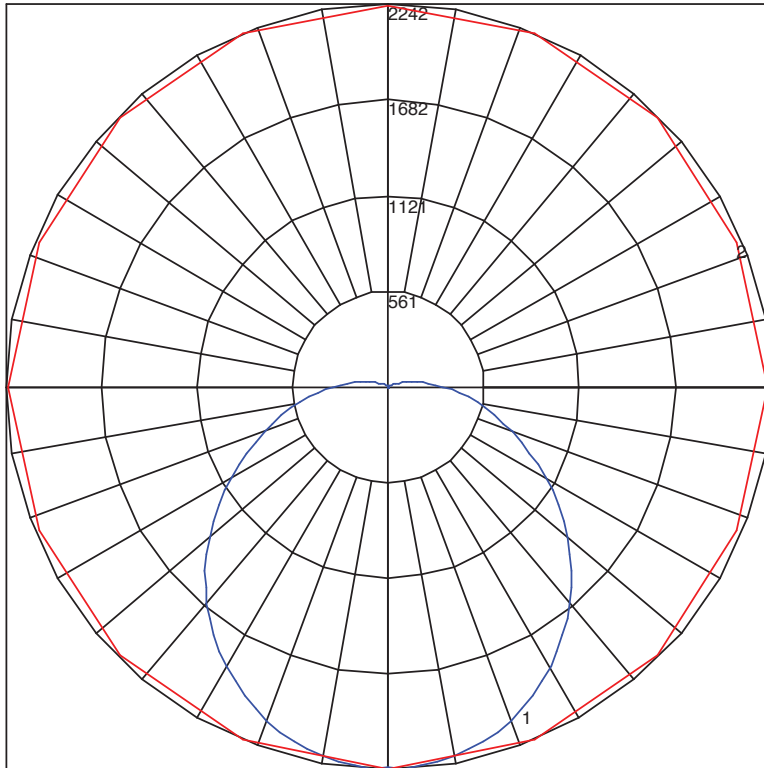
## 2' and 4' High Efficacy LEDs

### Photometric Data

#### SW4LED0851040UUS0001

#### T32037A.IES

Testing done in accordance with LM079-08



Maximum Candela = 2242.3 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5  
 # 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
 # 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

### Coefficients of Utilization - Zonal Cavity Method

(Effective Floor Cavity Reflectance 0.20)

| RW | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |    |    | 10 |    |    |    | 0  |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| RC | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| 0  | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 99 | 99 | 99 | 97 |
| 1  | 107 | 101 | 96  | 92  | 103 | 98  | 94  | 90  | 94  | 90  | 87  | 89  | 86  | 83  | 85 | 82 | 80 | 85 | 82 | 80 | 78 |
| 2  | 96  | 87  | 80  | 74  | 93  | 85  | 78  | 73  | 81  | 75  | 71  | 77  | 73  | 68  | 74 | 70 | 66 | 74 | 70 | 66 | 64 |
| 3  | 88  | 76  | 68  | 61  | 85  | 75  | 67  | 60  | 71  | 64  | 59  | 68  | 62  | 57  | 65 | 60 | 56 | 65 | 60 | 56 | 53 |
| 4  | 80  | 68  | 58  | 51  | 77  | 66  | 57  | 51  | 63  | 56  | 50  | 60  | 54  | 49  | 58 | 52 | 48 | 58 | 52 | 48 | 45 |
| 5  | 74  | 60  | 51  | 44  | 71  | 59  | 50  | 44  | 56  | 49  | 43  | 54  | 47  | 42  | 52 | 46 | 41 | 52 | 46 | 41 | 39 |
| 6  | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 47 | 41 | 36 | 47 | 41 | 36 | 34 |
| 7  | 63  | 49  | 40  | 34  | 61  | 48  | 40  | 34  | 46  | 39  | 33  | 44  | 38  | 33  | 43 | 37 | 32 | 43 | 37 | 32 | 30 |
| 8  | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 42  | 35  | 29  | 41  | 34  | 29  | 39 | 33 | 29 | 39 | 33 | 29 | 27 |
| 9  | 55  | 41  | 33  | 27  | 53  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 26  | 36 | 30 | 26 | 36 | 30 | 26 | 24 |
| 10 | 51  | 38  | 30  | 24  | 50  | 37  | 29  | 24  | 36  | 29  | 24  | 35  | 28  | 24  | 34 | 28 | 24 | 34 | 28 | 24 | 22 |

Specifications subject to change without notice.

|              |  |
|--------------|--|
| Project:     |  |
| Catalog#:    |  |
| Approved by: |  |

### SW4LED0851040

|               |       |
|---------------|-------|
| Input Power   | 95.7W |
| Efficacy Lm/W | 73.7  |
| LEDs          | 192   |
| Lumen Output  | 7049  |

### Luminance Data

In Candela/SQ M at 0° plane

| Angle | Average |
|-------|---------|
| 45    | 13405   |
| 55    | 12857   |
| 65    | 12047   |
| 75    | 10411   |
| 85    | 5876    |

### Zonal Lumen Summary

| Zone  | Lumens | % Fixture |
|-------|--------|-----------|
| 0-30  | 1729   | 24.53     |
| 0-40  | 2830   | 40.15     |
| 0-60  | 5036   | 71.44     |
| 0-90  | 6810   | 96.61     |
| 0-180 | 7049   | 100.00    |

**Lighting facts**  
A Program of the U.S. DOE

**Light Output (Lumens)** 7049  
**Watts** 95.7  
**Lumens per Watt (Efficacy)** 73

**Color Accuracy**  
 Color Rendering Index (CRI) 85

**Light Color**  
 Correlated Color Temperature (CCT) 4087 (Bright White)

Warm White | Bright White | Daylight  
 2700K | 3000K | 4500K | 6500K

All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the Label Reference Guide.

Registration Number: -7GKTP7 (12/9/2013)  
 Model Number: SW4LED0851040UUS0001  
 Type: Luminaire - Path/Step/Rail