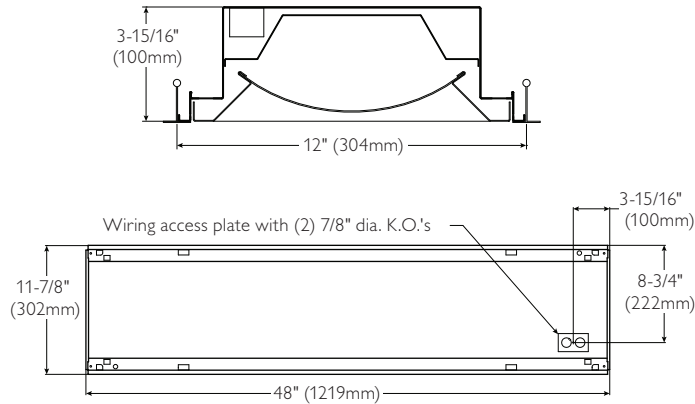




# Opalescent

## Recessed 1'X4' Luminaire, LED

Page 1 of 3



### Ordering Information

| Opalescent                             | Body Style                                   | Fixture Size                             | Ceiling Type             | Lens                                                                | Lumen Category                                                                                                                                                   | Color Temp.                            | Voltage                                                                                            | Driver Type                                                           | Options                                    |
|----------------------------------------|----------------------------------------------|------------------------------------------|--------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------|
| <b>OP</b><br>Direct Recessed Luminaire | <b>S</b> = Static<br><b>A</b> = Air Handling | <b>14</b><br>14 = 1' X 4' (Nominal size) | <b>G</b> = Standard Grid | <b>PW</b><br>PW = High light transmission frost white acrylic lens. | <b>26A</b> = 2600 lumens<br><b>34A</b> = 3400 lumens<br><b>39A</b> = 3900 lumens<br><b>43A</b> = 4300 lumens<br>(Approximate delivered values. Consult IES file) | <b>40</b> = 4000K<br><b>35</b> = 3500K | <b>U</b> = Universal 120-277V<br><b>3</b> = 347V<br>(Please consult factory for 347V availability) | <b>LAG</b> = LED Driver<br>Consult representative for dimming options | —<br>Add appropriate suffix to catalog no. |

### Features

- Bold but simple 1-3/8" regressed frame with contoured lens.
- High light transmission frost white acrylic lens.
- Can provide 49 initial footcandles at 0.56 watts per square foot.
- Delivers 3910 lumens with just 45 input watts.
- Field replaceable LED array and drivers accessible from below.
- Integrated thermal management system conducts heat away from LEDs and transfers it to the surrounding environment.
- Intelligent driver technology, our LitePlane platform, is a factory calibrated system providing multiple lumen outputs to balance energy savings with lighting application needs.
- High efficiency LEDs have 50,000 hour rated life at L<sub>70</sub>.
- Predicted L<sub>70</sub> lifetime is based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.
- Door jamb finished black on four sides for positive light stop.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- 3-15/16" deep body.
- Black body to dissipate heat from LEDs.
- Earthquake/Hold-down clips.
- Five-year warranty on luminaire, LED boards and driver.

| Job Information | Type: |
|-----------------|-------|
| Job Name:       |       |
| Cat. No.:       |       |
| Notes:          |       |



# Opalescent

## Recessed 1'X4' Luminaire, LED

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### Specifications

**Materials:** Chassis parts are die-formed code gauge cold rolled steel. Housing ends turned-in for safe handling

**Finish: Chassis exterior**—black baked polyester enamel.

**Cavity**—white baked polyester enamel minimum 95% reflectance. Rust preventative undercoating.

**Lens: PW**—High light transmission frost white acrylic lens.

**Electrical:** LED boards and drivers are RoHS (Restriction of Hazardous Substances) compliant. For dimming options consult factory.

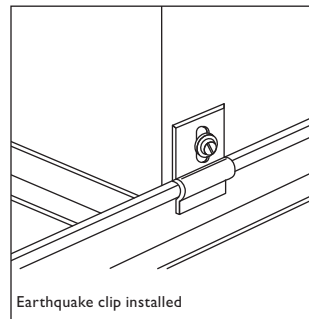
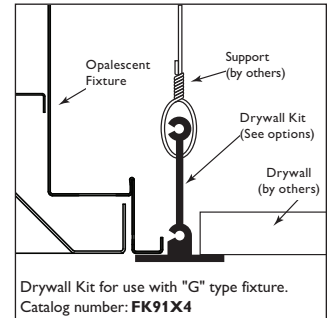
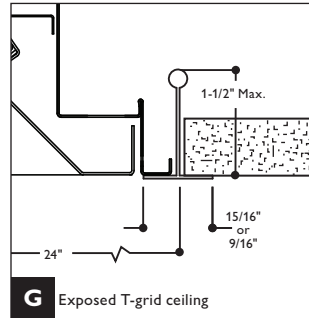
**Labels:** I.B.E.W. UL and cUL Listed. UL listed for damp locations.

### Options/Accessories

**Electrical Wiring Options:** Consult factory.

**Drywall Kit:** Order Catalog Number: **FK91X4**.

### Mounting Methods



Job Information Type:



# Opalescent

## Recessed 1'X4' Luminaire, LED

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### Photometry

Report Number<sup>1</sup>: G2011042  
 Catalog Number: OPS14GPW39A40ULAG  
 Delivered Lumens: 3910  
 Correlated Color Temp.<sup>2</sup>: 3948K  
 Input Watts: 44.8  
 Efficacy: 87.3 lm/w  
 CRI: 84.5  
 Lamp: LED  
 Luminaire: Opalescent Recessed LED 1' x 4' fixture with contoured lens frame.  
 CIE Type: Direct/Indirect  
 Plane: 0-Deg. 90-Deg.  
 Shielding Angles: 90 90  
 Plane: 0-Deg. 90-Deg.  
 Luminous Length: 45.4800 9.480

### Candela Distribution

| Vertical Angle | Horizontal Angle |      |      | Zonal Lumens |
|----------------|------------------|------|------|--------------|
|                | 0                | 45   | 90   |              |
| 0              | 1697             | 1697 | 1697 |              |
| 5              | 1673             | 1684 | 1698 | 145          |
| 15             | 1585             | 1603 | 1622 | 408          |
| 25             | 1418             | 1447 | 1471 | 600          |
| 35             | 1187             | 1224 | 1240 | 689          |
| 45             | 914              | 953  | 943  | 664          |
| 55             | 640              | 657  | 591  | 541          |
| 65             | 395              | 371  | 309  | 360          |
| 75             | 200              | 157  | 128  | 177          |
| 85             | 52               | 28   | 20   | 36           |
| 90             | 6                | 5    | 5    |              |

<sup>1</sup> Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

<sup>2</sup> Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

### Coefficients of Utilization

| Ceiling | 80%                               |     |     | 50% |    |    | 30% |    |    |
|---------|-----------------------------------|-----|-----|-----|----|----|-----|----|----|
|         | 70                                | 50  | 30  | 50  | 30 | 10 | 50  | 30 | 10 |
| RC      | Zonal Cavity Method               |     |     |     |    |    |     |    |    |
| RW      | Effective Floor Reflectance = 20% |     |     |     |    |    |     |    |    |
| 1       | 110                               | 106 | 102 | 99  | 96 | 94 | 95  | 93 | 91 |
| 2       | 101                               | 93  | 87  | 88  | 83 | 79 | 85  | 81 | 77 |
| 3       | 93                                | 83  | 75  | 78  | 72 | 68 | 76  | 71 | 66 |
| 4       | 85                                | 74  | 66  | 70  | 64 | 58 | 68  | 62 | 58 |
| 5       | 79                                | 67  | 58  | 63  | 56 | 51 | 62  | 55 | 51 |
| 6       | 73                                | 60  | 52  | 58  | 51 | 45 | 56  | 50 | 45 |
| 7       | 68                                | 55  | 47  | 53  | 46 | 40 | 51  | 45 | 40 |
| 8       | 63                                | 50  | 42  | 48  | 41 | 36 | 47  | 41 | 36 |
| 9       | 59                                | 46  | 38  | 45  | 38 | 33 | 44  | 37 | 33 |
| 10      | 56                                | 43  | 35  | 41  | 35 | 30 | 40  | 34 | 30 |

### Average Luminance data in candela / sq. meter

| Angle | 0°    | 45°   | 90°   |
|-------|-------|-------|-------|
| 45    | 4645. | 4843. | 4793. |
| 55    | 4010. | 4116. | 3703. |
| 65    | 3359. | 3155. | 2628. |
| 75    | 2777. | 2180. | 1777. |
| 85    | 2144. | 1155. | 825.  |

### Zonal Lumen Summary\*

| Zone  | Lumens | % Lamp | % Fixt. |
|-------|--------|--------|---------|
| 0-30  | 1280   | 32.7   | 32.7    |
| 0-40  | 2043   | 52.2   | 52.2    |
| 0-60  | 3336   | 85.3   | 85.3    |
| 0-90  | 3910   | 100.0  | 100.0   |
| 0-180 | 3619   | 100.0  | 100.0   |

\*Total Efficiency

### Additional Ordering Information

| Catalog Number    | Delivered Lumens | Input Watts | Lumens per Watt | Average initial 8'X8' footcandles | 8'X8' Watts per sq. foot | Average initial 8'X10' footcandles | 8'X10' Watts per sq. foot |
|-------------------|------------------|-------------|-----------------|-----------------------------------|--------------------------|------------------------------------|---------------------------|
| OPS14GPW26A40ULAG | 2636             | 30.1        | 87.6            | 41.2                              | 0.47                     | 33.0                               | 0.38                      |
| OPS14GPW34A40ULAG | 3416             | 38.1        | 89.7            | 53.4                              | 0.60                     | 42.7                               | 0.48                      |
| OPS14GPW39A40ULAG | 3910             | 44.8        | 87.3            | 61.1                              | 0.70                     | 48.9                               | 0.56                      |
| OPS14GPW43A40ULAG | 4306             | 52.9        | 81.4            | 67.3                              | 0.83                     | 53.8                               | 0.66                      |



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 Opalescent December 04, 2011.  
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Job Information Type: