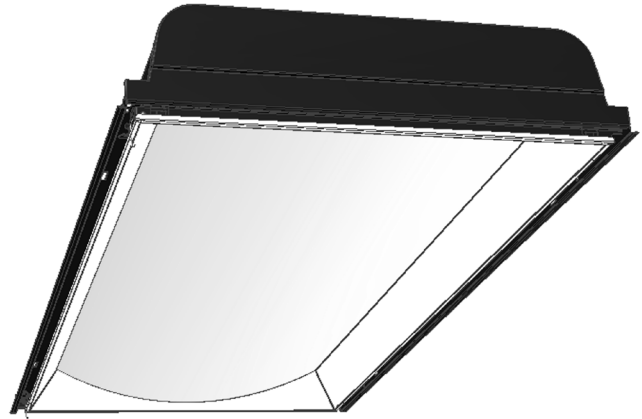
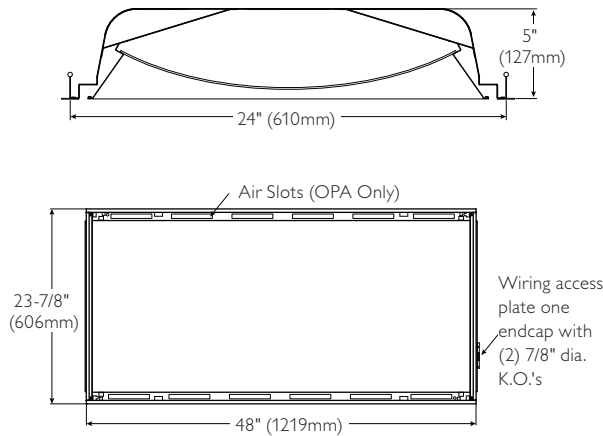


# Opalescent

## Recessed 2'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>                          |                                     | <b>24</b>                          |  | <b>PW</b> |  | <b>40</b>   | <b>U</b>                      | <b>LAG</b>  | -  |
| Direct-Indirect Recessed Luminaire | <b>A</b> = Air<br><b>S</b> = Static | <b>24</b> = 2' X 4' (Nominal size) | <b>G</b> = Standard Grid<br><b>T</b> = Slot Grid |           | <b>27A</b> = 2700 lumens<br><b>34A</b> = 3400 lumens<br><b>39A</b> = 3900 lumens<br><b>45A</b> = 4500 lumens<br>(Approximate delivered values. Consult IES file) | <b>40</b> = 4000K<br>Consult representative for other color temperature options. (Approximate values. Consult IES file) | <b>U</b> = Universal 120-277v | <b>LAG</b> = LED Driver<br>Consult representative for dimming options | Add appropriate suffix to catalog no., i.e.: (C) |

**PW** = High light transmission frost white acrylic lens.

### Features

- Bold but simple 2-1/2" regressed frame with contoured lens.
- High light transmission frost white acrylic lens.
- Can provide 48 initial footcandles at 0.56 watts per square foot.
- Delivers 3866 lumens with just 44.9 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 the customer 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 L70 lifetime is based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.
- True mitered corner lens frame.
- Door jamb finished black on four sides for positive light stop.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- 5" deep body.
- Black body to dissipate heat from LEDs.
- Earthquake/Hold-down clips.

- Hemmed over side rails for maximum safety.
- Construction to meet NYC Code Requirements or Chicago Plenum is available.
- Not for continuous row mounting.
- Five-year warranty on luminaire, LED boards and driver.

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

**PHILIPS**  
**LIGHTOLIER**

# Opalescent

## Recessed 2'X4' Luminaire, LED

Page 2 of 3

### Specifications

**Materials:** Chassis parts are die-formed code gauge cold rolled steel. Housing with side rails hemmed over and housing ends turned-in for safe handling.

**Air Handling: (OPA only)** side air passages for air supply or air return.

**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 ULc Listed.

### Options/Accessories

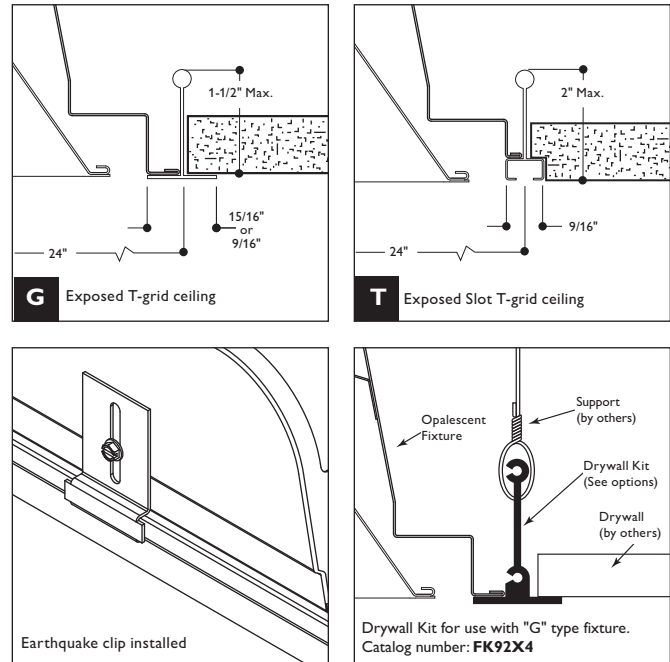
**Electrical Wiring Options:** Consult factory.

**Drywall Kit:** Order Catalog Number: **FK92X4**.

**Fusing:** Internal fast blow fusing: Suffix: **A**.  
Internal slow blow fusing: Suffix: **C**.

**Chicago Plenum:** Suffix: **C**.

### Mounting Methods



Job Information Type:

**PHILIPS**  
**LIGHTOLIER**

# Opalescent

## Recessed 2'X4' Luminaire, LED

Page 3 of 3

### Photometry

Report Number<sup>1</sup>: G2011245  
 Catalog Number: OPS24GPW39A40ULAG  
 Delivered Lumens: 3866  
 Correlated Color Temp.<sup>2</sup>: 3965K  
 Input Watts: 44.9  
 Efficacy: 86.1 lm/w  
 CRI: 84.8  
 Lamp: LED  
 Luminaire: Opalescent Recessed LED 2' 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: 45.960 21.720

### Candela Distribution

| Vertical Angle | Horizontal Angle |      |      | Zonal Lumens |
|----------------|------------------|------|------|--------------|
|                | 0                | 45   | 90   |              |
| 0              | 1585             | 1585 | 1585 |              |
| 5              | 1567             | 1575 | 1584 | 150          |
| 15             | 1485             | 1501 | 1517 | 424          |
| 25             | 1333             | 1358 | 1385 | 626          |
| 35             | 1118             | 1159 | 1200 | 726          |
| 45             | 861              | 921  | 969  | 708          |
| 55             | 601              | 662  | 698  | 587          |
| 65             | 369              | 413  | 413  | 399          |
| 75             | 182              | 198  | 182  | 202          |
| 85             | 41               | 39   | 33   | 45           |
| 90             | 0                | 0    | 0    |              |

<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                               | 105 | 101 | 99  | 96 | 93 | 95  | 92 | 90 |
| 2       | 100                               | 93  | 86  | 87  | 82 | 78 | 84  | 80 | 76 |
| 3       | 92                                | 82  | 74  | 77  | 71 | 66 | 75  | 69 | 65 |
| 4       | 84                                | 73  | 64  | 69  | 62 | 57 | 67  | 61 | 56 |
| 5       | 78                                | 65  | 57  | 62  | 55 | 50 | 60  | 54 | 49 |
| 6       | 72                                | 59  | 50  | 56  | 49 | 44 | 55  | 48 | 43 |
| 7       | 67                                | 54  | 45  | 51  | 44 | 39 | 50  | 44 | 39 |
| 8       | 62                                | 49  | 41  | 47  | 40 | 35 | 46  | 39 | 35 |
| 9       | 58                                | 45  | 37  | 44  | 37 | 32 | 42  | 36 | 31 |
| 10      | 55                                | 42  | 34  | 40  | 34 | 29 | 39  | 33 | 29 |

### Zonal Lumen Summary\*

| Zone  | Lumens | % Lamp | % Fixt. |
|-------|--------|--------|---------|
| 0-30  | 1200   | 31.0   | 31.0    |
| 0-40  | 1926   | 49.8   | 49.8    |
| 0-60  | 3220   | 83.3   | 83.3    |
| 0-90  | 3866   | 100.0  | 100.0   |
| 0-180 | 3866   | 100.0  | 100.0   |

\*Total Efficiency

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

| Angle | 0°    | 45°   | 90°   |
|-------|-------|-------|-------|
| 45    | 1890. | 2022. | 2127. |
| 55    | 1626. | 1791. | 1889. |
| 65    | 1355. | 1517. | 1517. |
| 75    | 1091. | 1187. | 1091. |
| 85    | 730.  | 695.  | 588.  |

### 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 |
|-------------------|------------------|-------------|-----------------|-----------------------------------|--------------------------|------------------------------------|---------------------------|
| OPS24GPW27A40ULAG | 2740             | 30.1        | 91.0            | 42.8                              | 0.47                     | 34.3                               | 0.38                      |
| OPS24GPW34A40ULAG | 3423             | 38.5        | 88.9            | 53.5                              | 0.60                     | 42.8                               | 0.48                      |
| OPS24GPW39A40ULAG | 3866             | 44.9        | 86.1            | 60.4                              | 0.70                     | 48.3                               | 0.56                      |
| OPS24GPW45A40ULAG | 4480             | 52.9        | 84.7            | 70.0                              | 0.83                     | 56.0                               | 0.66                      |



Philips Lightolier  
 e: [lol.webmaster@philips.com](mailto:lol.webmaster@philips.com)  
 t: (508) 679-8131, Technical info. (978) 657-7600  
 w: [www.lightolier.com](http://www.lightolier.com)

OPS24GPW March 7, 2012

Specifications are subject to change without notice.  
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Job Information Type: