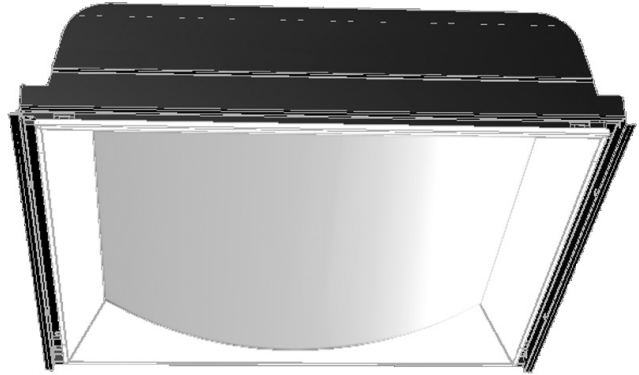
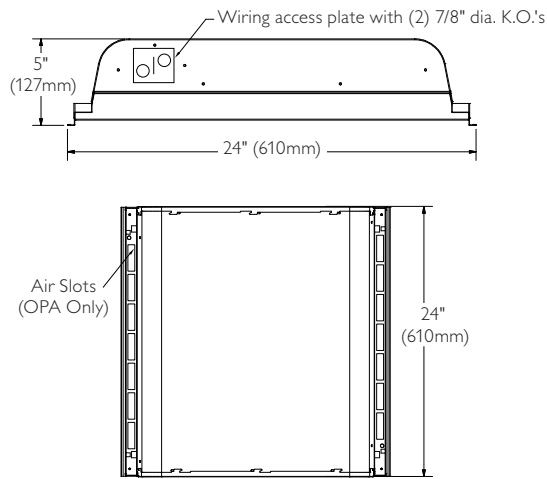


# Opalescent

## Recessed 2'X2' 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>22</b>		<b>PW</b>		<b>40</b>	<b>U</b>	<b>LAG</b>	—
Direct-Indirect Recessed Luminaire	<b>A</b> = Air <b>S</b> = Static	<b>22</b> = 2' X 2' (Nominal size)	<b>G</b> = Standard Grid <b>T</b> = Slot Grid	<b>PW</b> = High light transmission frost white acrylic lens.	<b>25A</b> = 2500 lumens <b>33A</b> = 3300 lumens <b>38A</b> = 3800 lumens <b>42A</b> = 4200 lumens (Approximate delivered values. Consult IES file)	<b>40</b> = 4000K Consult representative for other color temperature options. (Approximate values. Consult IES file)	<b>U</b> = Universal 120-277v	<b>LAG</b> = LED Driver Consult representative for dimming options	Add appropriate suffix to catalog no., i.e.: (C)

### 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 3619 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.
- Factory calibrated intelligent driver capable of providing various 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'X2' 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

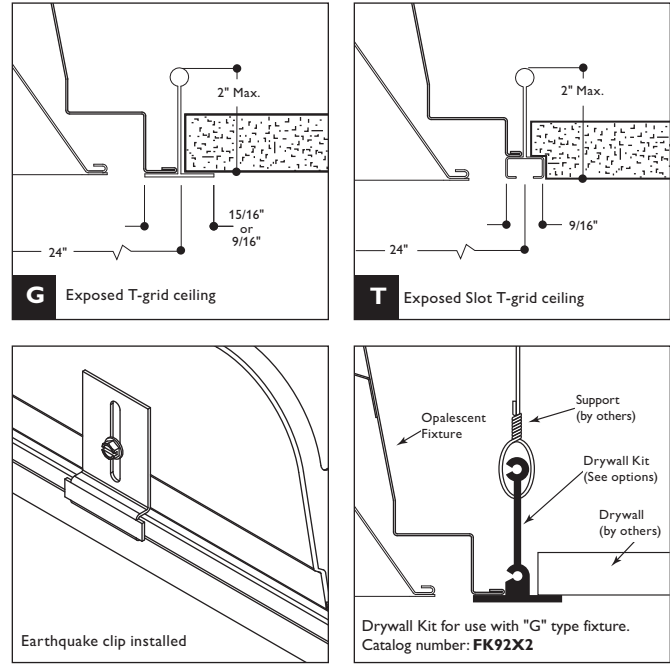
**Electrical Wiring Options:** Consult factory.

**Drywall Kit:** Order Catalog Number: **FK92X2**.

**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'X2' Luminaire, LED

Page 3 of 3

### Photometry

Report Number<sup>1</sup>: G2011090  
 Catalog Number: OPS22GPW38A40ULAG  
 Delivered Lumens: 3619  
 Correlated Color Temp.<sup>2</sup>: 4014K  
 Input Watts: 44.9  
 Efficacy: 80.6 lm/w  
 CRI: 84.4  
 Lamp: LED  
 Luminaire: Opalescent Recessed LED 2' x 2' 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: 21.600 21.600

### Candela Distribution

Vertical Angle	Horizontal Angle			Zonal Lumens
	0	45	90	
0	1532	1532	1532	
5	1519	1522	1526	145
15	1433	1446	1457	408
25	1276	1302	1327	600
35	1060	1103	1140	689
45	808	866	906	664
55	558	611	637	541
65	338	370	371	360
75	160	170	164	177
85	29	29	25	36
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	102	99	96	93	95	93	91
2	101	93	87	88	83	78	84	80	77
3	92	82	75	78	72	67	75	70	66
4	85	73	65	70	63	58	67	62	57
5	78	66	57	63	56	50	61	55	50
6	72	60	51	57	50	44	55	49	44
7	67	54	46	52	45	40	51	44	39
8	63	50	42	48	41	36	47	40	35
9	59	46	38	44	37	32	43	37	32
10	55	42	35	41	34	29	40	34	29

### Zonal Lumen Summary\*

Zone	Lumens	% Lamp	% Fixt.
0-30	1152	31.8	31.8
0-40	1841	50.9	50.9
0-60	3047	84.2	84.2
0-90	3619	100.0	100.0
0-180	3619	100.0	100.0

\*Total Efficiency

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

Angle	0°	45°	90°
45	3795.	4067.	4255.
55	3231.	3538.	3688.
65	2656.	2908.	2915.
75	2053.	2181.	2104.
85	1105.	1105.	953.

### 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
OPS22GPW25A40ULAG	2553	30.4	84.0	42	0.48	34	0.38
OPS22GPW33A40ULAG	3167	38.4	82.5	52	0.60	42	0.48
OPS22GPW38A40ULAG	3619	44.9	80.6	59	0.70	48	0.56
OPS22GPW42A40ULAG	4140	52.8	78.4	68	0.83	55	0.66



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

OPS22GPW March 7, 2012

Specifications are subject to change without notice.  
 © Koninklijke Philips Electronics N.V., 2012. All rights reserved.

Job Information Type: