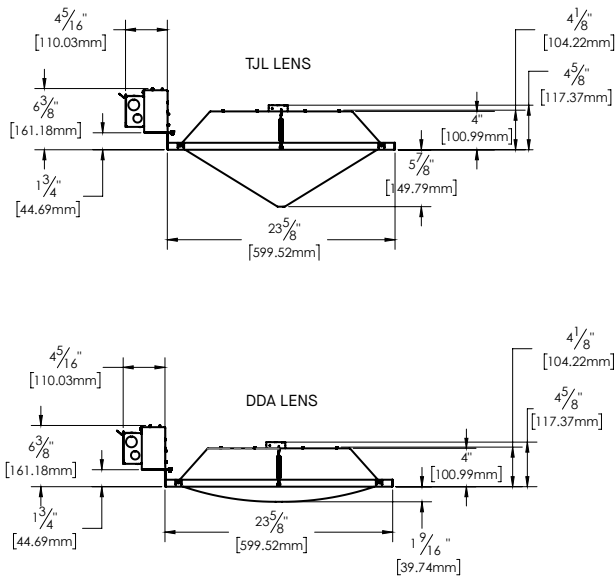


## VITRO PERFORMANCE HIGH LUMEN GRID CEILING LUMINAIRE



- Vitro Performance grid ceiling luminaire has the output of a traditional high bay, but with visually captivating lenses that deliver wide uniform light distribution.
- Applications include gymnasiums, retail, office, medical, and auditoriums.
- Fits 2' X 2' 15/16" T-Bar grid ceiling.
- Each lens profile has been engineered to provide outstanding light levels while remaining visually comfortable.
- Integral drivers for ease of maintenance and simplicity of installation.
- Multi-stage polyester powder-coat process applied on our dedicated paint lines. A variety of standard and custom finishes are available. All exposed materials are chromate pretreated to resist corrosion.
- LED system features high brightness white LEDs. 3-step MacAdam Ellipse binning. Standard CRI: 80+. Higher CRI, R9 and custom LED configurations are available, consult factory.
- Housing constructed of fabricated galvanized steel and aluminum to resist corrosion. Lens made from UV stabilized acrylic.
- UL certified to meet US and Canadian standards. Suitable for dry or damp locations. Manufactured and tested to UL 1598.



PERFORMANCE			
PART NUMBER	DELIVERED LUMENS	SYSTEM WATTS	LPW
GC2208LED 150L 35K TJL	12689	91.7	138
GC2208LED 240L 35K TJL	16249	121.7	134
GC2208LED 150L 35K DDA	11656	91.7	127
GC2208LED 240L 35K DDA	14974	121.7	123

SERIES	LUMENS	CCT	DRIVER / DIMMING	LENS	FINISH
<b>GC2208LED</b> ■ <b>150L</b> 12689 Lm ■ <b>240L</b> 16249 Lm <small>2. Nominal Delivered Lumens at 35K TJL</small>	■ <b>30K</b> 3000K ■ <b>35K</b> 3500K ■ <b>40K</b> 4000K	■ <b>DS10X</b> 10%, 0-10V, 120/277V Universal Voltage	■ <b>TJL</b> Deep Conical Lens ■ <b>DDA</b> Diffused Domed Acrylic Lens	■ <b>GW</b> Gloss White ■ <b>MW</b> Matte White	

■ QUICK SHIP
■ DLC STANDARD LISTED OPTIONS

EXAMPLE: GC2208LED150L35KDS10X/TJL/GW



PROJECT: \_\_\_\_\_  
 QUANTITY: \_\_\_\_\_ TYPE: \_\_\_\_\_

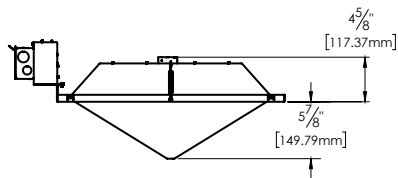


**VITRO PERFORMANCE**  
HIGH LUMEN GRID CEILING LUMINAIRE

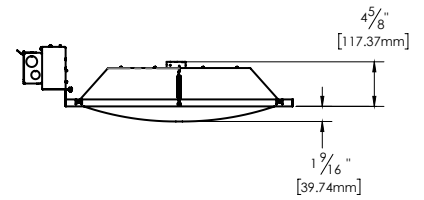


**LENS TYPE**

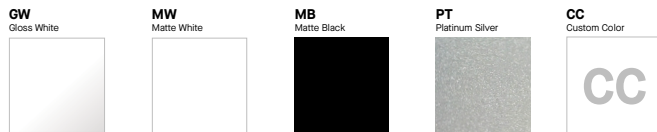
**TJL LENS**



**DDA LENS**



**FINISH**



**PAINT TIMES**

TIER	COST	AVERAGE PAINT TIME*
Tier 1 - Standard Finishes	\$	⌚
Tier 2 - Specialty	\$\$	⌚⌚
Custom Color	Contact Factory	Contact Factory

\*CONTACT FACTORY FOR SPECIFIC PRODUCT LEAD TIMES



# VITRO PERFORMANCE

## HIGH LUMEN GRID CEILING LUMINAIRE



### GC2208LED 240L 35K xx TJL xx xx

CANDLEPOWER CURVE TEST SP-01.623_1	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT					
			Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 1		RCR 3	
	0°	0° - 10° 463 3%	8'	75 fc	26.8'	5 fc	18'	14'	82	0.63	63	0.63
	0°	0° - 20° 1798 11%	10'	48 fc	33.5'	3 fc	22'	16'	58	0.45	36	0.36
	5°	0° - 30° 3892 24%	12'	33 fc	40.2'	2 fc	26'	18'	46	0.35	41	0.42
	15°	0° - 40° 6493 40%	14'	24 fc	46.9'	2 fc	Delivered Illuminance Rating: (DIR)		131 FC per W/Sq. Ft.		99 FC per W/Sq. Ft.	
	25°	0° - 60° 11699 72%	16'	19 fc	53.6'	1 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Initial Footcandles at 2.5' Above Floor					
	35°	0° - 80° 14951 92%	20'	12 fc	67.0'	1 fc						
	45°	0° - 90° 15761 97%	24'	8 fc	80.4'	1 fc						
	55°	2752	28'	6 fc	93.8'	0 fc						
	90°	534	Total 16249 100%									

Delivered Lumens: 16249  
 Luminaire Watts: 121.7  
 LER: 133.52

CP at 0° (Nadir): 4785  
 CRI: 80+

Beam Angle: 118°  
 Spacing Ratio: 1.34  
 Melanopic Ratio: 0.62

Lumen Multiplier: 150L x 0.78  
 CCT Multiplier: 30K x 0.99, 40K x 1.03

### GC2208LED 240L 35K xx DDA xx xx

CANDLEPOWER CURVE TEST SP-01.624_1	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT					
			Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 1		RCR 3	
	0°	0° - 10° 482 3%	8'	78 fc	24.4'	6 fc	18'	14'	77	0.63	59	0.63
	0°	0° - 20° 1842 12%	10'	50 fc	30.6'	4 fc	22'	16'	55	0.45	34	0.36
	5°	0° - 30° 3905 26%	12'	35 fc	36.7'	3 fc	26'	18'	43	0.35	39	0.42
	15°	0° - 40° 6398 43%	14'	26 fc	42.8'	2 fc	Delivered Illuminance Rating: (DIR)		123 FC per W/Sq. Ft.		94 FC per W/Sq. Ft.	
	25°	0° - 60° 11357 76%	16'	20 fc	48.9'	2 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Initial Footcandles at 2.5' Above Floor					
	35°	0° - 80° 14354 96%	20'	13 fc	61.1'	1 fc						
	45°	0° - 90° 14861 99%	24'	9 fc	73.3'	1 fc						
	55°	2649	28'	6 fc	85.6'	1 fc						
	90°	225	Total 14974 100%									

Delivered Lumens: 14974  
 Luminaire Watts: 121.7  
 LER: 123.04

CP at 0° (Nadir): 5017  
 CRI: 80+

Beam Angle: 114°  
 Spacing Ratio: 1.25  
 Melanopic Ratio: 0.61

Lumen Multiplier: 150L x 0.78  
 CCT Multiplier: 30K x 0.99, 40K x 1.03

### HOW TO USE PERFORMANCE DATA

SINGLE UNIT	MULTIPLE UNITS
<p>                     Cone of Light of a single, symmetrical beam luminaire. Direct initial illumination (FC) and Beam Angle diameter directly beneath fixture; shown at different distances from aperture to horizontal plane. Calculated using Inverse Square Law.                 </p> <p> <math>FC_i = CP \times (\cos \theta) \div D^2</math> </p> <p>                     Beam Diam. = <math>\frac{1}{2}</math> Beam Angle (Tan) x 2D                 </p> <ul style="list-style-type: none"> <li>CP Candela at 0° (Nadir)</li> <li>Cos <math>\theta</math> Cosine of <math>\theta</math> Angle</li> <li>D Distance (Mounting Height AFF)</li> <li>FC<sub>H</sub> Footcandles, Horizontal</li> <li>Beam Angle Cone of light to 50% max. CP</li> <li>Beam Diam. Pattern of light at Beam Angle</li> </ul>	<p>                     Square grid layout of multiple luminaires in unfurnished, square rooms of different proportions (Room Cavity Ratios) with 80/50/20% room surface reflectances. 3' Suspension Length to aperture. Initial average illumination (FC) calculated at 2.5' above floor, using Zonal Cavity Method. W/Sq. Ft. of layout shown for each ceiling height and RCR.                 </p> <p>                     Delivered Illuminance Rating (DIR<sup>2</sup>): System performance indicator expressed as ratio of approximate initial FC per W/Sq. Ft. delivered to horizontal plane below, for the range of ceiling heights indicated.                 </p> <ul style="list-style-type: none"> <li>To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio):  <math>FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}</math> </li> <li>To estimate Sq. Ft. per fixture for a specific target FC:  <math>\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}</math> </li> </ul> <ul style="list-style-type: none"> <li>To estimate Fixture Quantity in a room:  <math>\text{Fixture Qty.} = \text{Sq. Ft. of Rm.} \div \text{Sq. Ft. per fixture}</math> </li> <li>To estimate Watts/Sq. Ft.:  <math>W / \text{Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}</math> </li> </ul>

