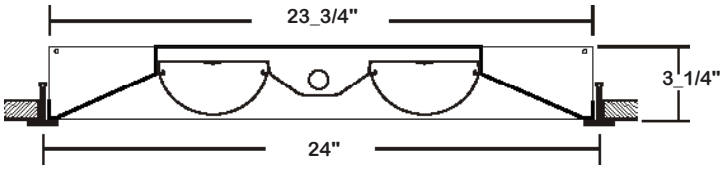
# RECESSED LED
## GDD320 (2X4) SERIES (2X2 AVAILABLE)
DIRECT ILLUMINATED DUAL LENSED GRID LUMINAIRE

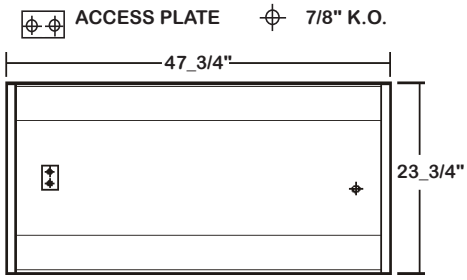
| | |
|---|---|
| DATE | |
| JOB | |

WWW.LALIGHTING.COM
626-454-8300

RECESSED MOUNTED LED LUMINAIRE FOR INVERTED T-BAR CEILINGS

## DIMENSIONS




## APPLICATIONS
- Commercial, Office, Classroom

## FEATURES
- 0-10V dimming driver standard *(See DRIVER OPTIONS for other dimming types)*
- Supports California Title 24 compliance

## OPTIONS
- Full customization available upon request
- Additional lumen packages and color temperatures available
- Controls and sensors available *(See SENSOR OPTIONS for controls and sensors)*
- Wireless control options available *(See SENSOR OPTIONS for wireless controls)*
- Emergency battery pack available *(See BATTERY PACK OPTIONS for battery pack options)*
- Tunable white available (2700K-6500K)

## SPECIFICATIONS

### CONSTRUCTION
- 22 ga. cold rolled steel housing and reflector

### FINISH
- High reflectance low gloss matte white finish

### OPTICAL
- 2x frosted radial lenses to maximize lumen output while cutting glare

### ELECTRICAL
- High efficiency drivers coupled with long-life LEDs
- Service life greater than 50,000 hours (L70)
- Universal voltage 120V through 277V (347V / 480V available)
- Power Factor (PF) ≥ 0.9
- Total Harmonic Distortion (THD) ≤ 20%

### LISTING
- UL USA and Canada listed / suitable for damp locations

### WARRANTY
- 5-year limited warranty standard, 10-year limited warranty available.

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Revised: 03/04/19

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## ORDERING INFORMATION

**EXAMPLE:** GDD320-4-4L-BPL10-DRDM-UNV-2/840

| SERIES | LED LUMEN PACKAGE | EFFICACY | NOMINAL LENGTH | ELECTRICAL | DRIVER | VOLTAGE | # OF LED ROW | CRI / CCT |
|---|---|---|---|---|---|---|---|---|
| **GDD320** | | | **4L** | | **DRDM** | **UNV** | **2** | |
| **GDD320**<br>Direct Illuminated Dual Lensed Grid LED Luminaire | **4** Nom. 4000 Lumens<br>**6** Nom. 6000 Lumens<br>**8** Nom. 8000 Lumens<br>**12** Nom. 12000 Lumens<br><br>*Additional Lumen Packages Available | **(Blank)**<br>Standard<br><br>**HE**<br>High Efficacy | **4L**<br>2' x 4' | **BPL1.5**<br>Emergency Battery Pack Nom. 1500 lm<br><br>*See BATTERY PACK OPTIONS for Options*<br><br>**MSxx**<br>Motion Sensor Infrared<br><br>**WLC(AWNR-WH)**<br>Lutron Athena wireless node (RF)<br><br>**WLC(AWNS-WH)**<br>Lutron Athena wireless node w/sensor<br><br>Additional Lutron options on page (5)<br><br>*See SENSOR OPTIONS for Options*<br><br>*Leave Blank if Not Specified<br><br>*Additional Electrical Options* | **DRDM**<br>0-10V Dimming Driver<br><br>*See DRIVER OPTIONS for Options* | **UNV**<br>120V-277V<br><br>*See DRIVER OPTIONS for Options* | **2**<br>Two LED Rows | **830**<br>80+CRI / 3000K Color Temp.<br><br>**835**<br>80+CRI / 3500K Color Temp.<br><br>**840**<br>80+CRI / 4000K Color Temp.<br><br>**850**<br>80+CRI / 5000K Color Temp.<br><br>**8TW**<br>Tunable White 827 to 865<br><br>*Additional Color Temp. Available |

## SYSTEM DATA

### THESE ARE THE MOST POPULAR LUMEN PACKAGES. PLEASE CONSULT FACTORY FOR ADDITIONAL SYSTEM DATA.

| LED LUMEN PACKAGE | NORMAL AMBIENT TEMPERATURE PRODUCT CODE | DELIVERED LUMENS | SYSTEM WATTS | LUMINAIRE EFFICACY | AMBIENT TEMP. | FLUORESCENT / HID EQUIVALENT | IES FILES |
|---|---|---|---|---|---|---|---|
| 4000 Lumens (Nominal) | GDD320-4-4L-DRDM-UNV-2/840 | 3387 lm | 28.5 W | 118.8 lm/W | -20°C / 35°C | 2-F32T8, 1-F54T5HO | LA-T3381 |
| 6000 Lumens (Nominal) | GDD320-6-4L-DRDM-UNV-2/840 | 5119 lm | 45.7 W | 112.0 lm/W | -20°C / 35°C | 3-F32T8 | * |
| 8000 Lumens (Nominal) | GDD320-8-4L-DRDM-UNV-2/840 | 6767 lm | 63.6 W | 106.4 lm/W | -20°C / 35°C | 4-F32T8, 2-F54T5HO | * |
| 12000 Lumens (Nominal) | GDD320-12-4L-DRDM-UNV-2/840 | 10056 lm | 104.6 W | 96.1 lm/W | -20°C / 35°C | 6-F32T8, 3-F54T5HO, 250 W (MH) | * |

| LED LUMEN PACKAGE | NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE | DELIVERED LUMENS | SYSTEM WATTS | LUMINAIRE EFFICACY | AMBIENT TEMP. | FLUORESCENT / HID EQUIVALENT | IES FILES |
|---|---|---|---|---|---|---|---|
| 4000 Lumens (Nominal) | GDD320-4HE-4L-DRDM-UNV-2/840 | 3324 lm | 22.5 W | 147.6 lm/W | -20°C / 35°C | 2-F32T8, 1-F54T5HO | * |
| 6000 Lumens (Nominal) | GDD320-6HE-4L-DRDM-UNV-2/840 | 5510 lm | 38.3 W | 143.8 lm/W | -20°C / 35°C | 3-F32T8 | * |
| 8000 Lumens (Nominal) | GDD320-8HE-4L-DRDM-UNV-2/840 | 6567 lm | 46.4 W | 141.6 lm/W | -20°C / 35°C | 4-F32T8, 2-F54T5HO | * |
| 12000 Lumens (Nominal) | GDD320-12HE-4L-DRDM-UNV-2/840 | 9922 lm | 73.6 W | 134.8 lm/W | -20°C / 35°C | 6-F32T8, 3-F54T5HO, 250 W (MH) | * |

***NOTE:***

*System data is based on 120V input voltage. Actual performance may differ as a result of end-user environment and application.*

*This fixture has been tested and listed in accordance with UL Standards. L.A. Lighting certifies that it will operate safely when installed properly, and within an ambient temperature range noted in the system data table.*

*Additional lumen packages and color temperatures available.*

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## DRIVER OPTIONS

### PLEASE CONSULT FACTORY TO SEE IF YOUR SELECTED DRIVER OPTION WORKS WITH THIS FIXTURE.

**DRDM – UNV**

* Normal Stock Item

**VOLTAGE**

**120V** 120 Volt
**277V** 277 Volt
**UNV*** Universal 120-277 Volt
**347V** 347 Volt
**480V** 480 Volt

**DRIVER TYPE**

**DRDM*** 0-10V Dimming Driver
**DRDM1** 0-10V Dimming Driver, 1% Dimming
**DRDM2C** 2-Channel 0-10V Dimming Driver (for Color Tunable White)
**DR2W** 2-Wire Phase Dimming Driver
**DRDA** Digital Addressable DALI Dimming Driver
**DRDA2C** Digital Addressable DALI Type8 2-Channel Driver (for Color Tunable White)
**DRDA2.0** Digital Addressable DALI 2.0 Dimming Driver
**DRDA2.02C** Digital Addressable DALI 2.0 Type8 2-Channel Driver (for Color Tunable White)
**DRSD** Step Dimming Driver
**DR(LTEA2W)** Lutron® 2-Wire 1% Dimming Driver (120V Forward Phase only)
**DR(LDE1)** Lutron® EcoSystem 1% Soft-On, Fade-to-Black™ Dimming Driver
**DR(LDE5)** Lutron® EcoSystem 5% Dimming Driver
**DR(PEQ0)** Lutron® EcoSystem 0.1% Soft-On, Fade-to-Black Dimming Driver
**DR(PSQ0)** Lutron® T-Series Digital 1% Dimming 2-Channel Driver (for Color Tunable White)
**DRCR** Control Ready Driver
**DRCR(DXL)** Osram Dexal Driver
**DRCR(SR)** Philips Sensor Ready Driver

## BATTERY PACK OPTIONS

### PLEASE CONSULT FACTORY TO SEE IF YOUR SELECTED BATTERY PACK OPTION WORKS WITH THIS FIXTURE.

LED EMERGENCY BATTERY PACKS
(Operate for 90 minutes unless otherwise specified)

**BPL**

**NOTE**

**(2h)** 2 hours

**LUMEN PACKAGE**

**0.7** Nominal 750 Lumens
**1.5** Nominal 1500 Lumens
**3.0** Nominal 3000 Lumens
*Additional lumen packages available

**TYPE**

**(Blank)** Normal Ambient Temp. / Standard Operation
**C** Cold Environment (-20°C)
**F** With Flex for Remote Mounting
**SL** Slim Casing
**ST** Self Test / Diagnostic
*Additional options available

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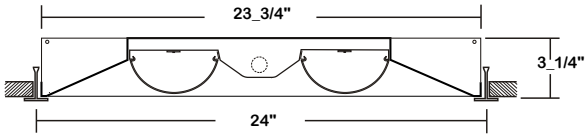
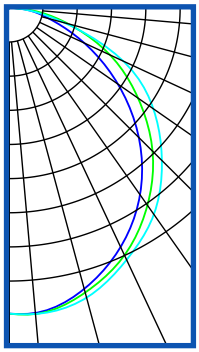
# PHOTOMETRIC DATA - GDD320 SERIES - 4FT

**GDD320-4-4L-1DRDM-UNV-2/840**

TEST NO. = LA-T3381
LED TYPE = 48 LED MODULE
NO. OF MODULE = 4
SYSTEM WATT (W) = 28.5
CRI ≥ 80
L70(Hrs.) ≥ 50,000
PHOTOMETRY TYPE = C



**CANDLEPOWER**

| ANGLE | END | 45 | CROSS |
|---|---|---|---|
| 0 | 1197 | 1197 | 1197 |
| 5 | 1199 | 1203 | 1203 |
| 15 | 1139 | 1153 | 1174 |
| 25 | 1032 | 1068 | 1088 |
| 35 | 893 | 943 | 987 |
| 45 | 718 | 793 | 845 |
| 55 | 520 | 616 | 688 |
| 65 | 326 | 436 | 494 |
| 75 | 165 | 240 | 226 |
| 85 | 60 | 75 | 54 |
| 90 | 4 | 3 | 2 |
| 95 | 0 | 0 | 0 |
| 105 | 0 | 0 | 0 |
| 115 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 |
| 135 | 0 | 0 | 0 |
| 145 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 |

**ZONAL LUMEN SUMMARY**

| DEGREES | LUMENS | % LAMP | % FIXTURE |
|---|---|---|---|
| 0-30 | 935 | 23 | 28 |
| 0-40 | 1526 | 37 | 45 |
| 0-60 | 2683 | 65 | 79 |
| 0-90 | 3388 | 82 | 100 |
| 90-120 | 1 | 0 | 0 |
| 90-150 | 1 | 0 | 0 |
| 90-180 | 1 | 0 | 0 |
| 0-180 | 3389 | 82 | 100 |

Luminaire Output = 3388.8 lm
Luminaire Efficacy = 118.9 lm/W

**SPACING CRITERION**

| ALONG | ACROSS |
|---|---|
| 1.19 | 1.29 |

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# WIRELESS CONTROLS

## How to Order

Pre-installed components are ordered by adding the part number to the luminaire:

GHL320-4-4L-FSW-PA- **WLC(FCJS0)** -DRDM-UNV-2/840

*Components marked with * are ordered separately*

## Vive Systems

### Vive PowPak Wireless Fixture Controls

**WLC(FCJS0) - PowPak Wireless Fixture Control**
- RF only. For use with 0-10V drivers.
- One fixture control per luminaire, typically end-mounted via 1/2" KO.

**WLC(FCJS0S) - PowPak Wireless Fixture Control with Sensor**
- RF with daylight/occupancy sensing. For use with 0-10V drivers.
- One fixture control per luminaire, typically end-mounted via 1/2" KO.
- Sensor must be installed separately.

**WLC(FCJSE) - PowPak EcoSystem Wireless Fixture Control**
- RF only. For use with Lutron EcoSystem drivers.
- One fixture control per luminaire, typically end-mounted via 1/2" KO.

**WLC(FCJSES) - PowPak EcoSystem Wireless Fixture Control with Sensor**
- RF with daylight/occupancy sensing. For use with Lutron EcoSystem drivers.
- One fixture control per luminaire, typically end-mounted via 1/2" KO.
- Sensor must be installed separately.

### Vive PowPak Sensors

***FC-SENSOR - PowPak Occupancy/Daylight Sensor**
- For luminaires with existing PowPak Wireless Fixture Controls.
- Turns luminaire ON/OFF based on motion. Adjusts lumen output in response to ambient light.
- Recommended mounting height: 8-12ft

***FC-VSENSOR - PowPak Vacancy/Daylight Sensor**
- For luminaires with existing PowPak Wireless Fixture Controls.
- Turns luminaire OFF when area is vacant. Adjusts lumen output in response to ambient light.
- Recommended mounting height: 8-12ft.

### Vive Integral Fixture Controls

**WLC(VRF) - Vive Integral Wireless Fixture Control**
- RF only. Requires controls-ready driver.
- One fixture control per luminaire, mounting location varies by luminaire.

**WLC(VDO) - Vive Integral Wireless Fixture Control**
- RF, plus daylight/occupancy sensing. Requires controls-ready driver.
- One fixture control per luminaire, mounting location varies by luminaire.
- Turns luminaire ON/OFF based on motion. Adjusts lumen output in response to ambient light.
- Coverage area at 9ft mounting height: Up to 300 sq.ft for major motions; 150 sq.ft. for minor motions.

## Athena Wireless Nodes

**Requires Athena-compatible drivers and Clear Connect Gateway - Type X**

**WLC(AWNR-WH) - Wireless Node (White)**
- RF communication node. One per luminaire, integrally mounted.

**WLC(AWNS-WH) - Wireless Node (White) with Sensor**
- RF, plus daylight/occupancy sensing. One per luminaire, integrally mounted.

**WLC(AWNR-BL) - Wireless Node (Black)**
RF communication node. One per luminaire, integrally mounted.

**WLC(AWNS-BL) - Wireless Node (Black) with Sensor**
- RF, plus daylight/occupancy sensing. One per luminaire, integrally mounted.

**WLC(AWNR-WH)**
**Athena Wireless Node**

**WLC(FCJS0)**
**PowPak Wireless Fixture Control**

**FC-SENSOR**
**PowPak Occupancy/Daylight Sensor**

**WLC(VDO)**
**Vive Integral Wireless Fixture Control**

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