

# Unlock your vision

VERSAFORM  
2'x4' LED



DIRECT, BEAM SHAPING LIGHT GUIDE WITH STEPPED DIFFUSER  
2'x4', 4000 lm 3500K

**Project:** \_\_\_\_\_

**Spec Type:** \_\_\_\_\_

**Catalog No:** 4124DxxxL8BD

**Qty** \_\_\_\_\_

**Line Notes:** \_\_\_\_\_



## Ordering guide

| Product Type                      | Version  | Configuration                   | Light Source *                 | CRI/CCT  | Lumens *   | Housing                                      | Wiring †  | Voltage   | Driver                   |
|-----------------------------------|--|---------------------------------|--------------------------------|--|--|--|---|---|--------------------------|
| <input type="text" value="4124"/> | <input type="text"/>   | <input type="text" value="ST"/> | <input type="text" value="L"/> | <input type="text"/>   | <input type="text" value="D"/>                           | <input type="text"/>                         | <input type="text"/>  | <input type="text"/>                            | <input type="text"/>     |
| VersaForm 2'x4' LED               | <b>D1</b> Standard T Grid<br><b>D2</b> Slot T Grid<br><b>A1</b> Air Return on Standard T Grid<br><b>A2</b> Air Return on Slot T Grid<br><b>S1</b> Discrete Surface Mount | <b>ST</b> Standalone            | <b>L</b> LED                   | <b>8C</b> CRI 80 3000K<br><b>8B</b> CRI 80 3500K<br><b>8A</b> CRI 80 4000K<br><b>9B</b> CRI 90 3500K | <b>D</b> 4000 lm<br><b>C</b> 5200 lm<br><b>A</b> 6800 lm | <b>S</b> Standard<br><b>C</b> Chicago Plenum | <b>1</b> 1 cct<br><b>5</b> 1 cct + EM Batt. Pack<br><b>7</b> 1 cct Dimming<br><b>N</b> 1 cct Dimming + EM Batt. Pack<br><b>T</b> 1 cct Step Dimming | <b>1</b> 120V<br><b>2</b> 277V<br><b>3</b> 347V | <b>E</b> Philips Advance |

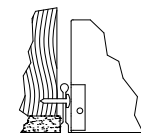
\* Nominal values within a range. Consult photometry data for exact color temp, lumens & distribution.

† Not all wiring types are available with all configurations. Consult Philips Ledalite for a complete list of available options.

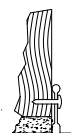
## Upgrades & Accessories Please indicate with check mark.

Drywall Kit Trim Mount

Flex Whip



**Drywall Kit**  
Trim mount detail



**Wood Frame**  
Can be mounted to wood frame or with hanger wire



**Hanger Wire**

## Integrated Controls Please indicate with check mark.

Response Daylight Sensor Single Zone (DS)

Philips Actilume Occupancy Sensor (DO) (includes field commissionable daylight sensor)

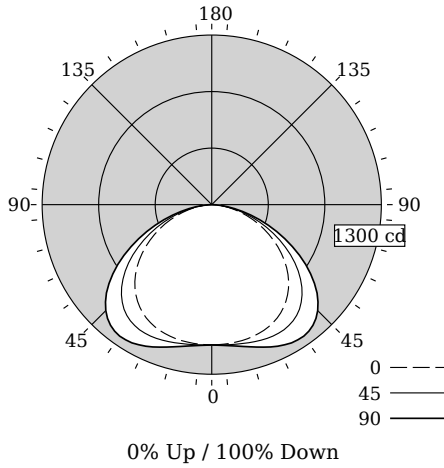


# VERSAFORM

## 2'X4' LED

DIRECT, BEAM SHAPING LIGHT GUIDE WITH STEPPED DIFFUSER

### Photometry



|                          |                   |
|--------------------------|-------------------|
| Total Output             | 3949 lm           |
| Efficacy                 | 113.2 lm/W        |
| CCT                      | 3325K             |
| CRI                      | 82                |
| Distribution             | 0% Up / 100% Down |
| Spacing Criteria (0/90°) | 1.38/1.69         |

Fixture photometry has been conducted in accordance with IESNA LM-79-08

IES files for this and other photometric options can be downloaded online at [www.lightingproducts.philips.com](http://www.lightingproducts.philips.com)

### Candela Distribution

| Vertical Angle | Horizontal Angle |      |      |      | Zonal Lumens |
|----------------|------------------|------|------|------|--------------|
|                | 0                | 22.5 | 45   | 67.5 |              |
| 0              | 1075             | 1075 | 1075 | 1075 | 0            |
| 5              | 1073             | 1077 | 1079 | 1081 | 103          |
| 15             | 1064             | 1075 | 1096 | 1117 | 311          |
| 25             | 1033             | 1057 | 1112 | 1170 | 515          |
| 35             | 960              | 998  | 1087 | 1186 | 682          |
| 45             | 834              | 875  | 979  | 1095 | 758          |
| 55             | 651              | 687  | 778  | 879  | 698          |
| 65             | 441              | 462  | 521  | 587  | 520          |
| 75             | 232              | 240  | 267  | 299  | 287          |
| 85             | 59               | 59   | 62   | 68   | 75           |
| 90             | 0                | 0    | 0    | 0    | 0            |
| 95             | 0                | 0    | 0    | 0    | 0            |
| 105            | 0                | 0    | 0    | 0    | 0            |
| 115            | 0                | 0    | 0    | 0    | 0            |
| 125            | 0                | 0    | 0    | 0    | 0            |
| 135            | 0                | 0    | 0    | 0    | 0            |
| 145            | 0                | 0    | 0    | 0    | 0            |
| 155            | 0                | 0    | 0    | 0    | 0            |
| 165            | 0                | 0    | 0    | 0    | 0            |
| 175            | 0                | 0    | 0    | 0    | 0            |
| 180            | 0                | 0    | 0    | 0    | 0            |

### Coefficients of Utilization (%)

| RCR | Ceiling Wall | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 0   |     |     |  |
|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|     |              | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 0   | 0   | 0   | 0   |  |
| 0   |              | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 100 |  |
| 1   |              | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 97  | 94  | 91  | 88  | 84  | 79  | 74  | 68  |  |
| 2   |              | 98  | 90  | 83  | 77  | 95  | 88  | 81  | 84  | 79  | 74  | 67  | 61  | 57  | 52  | 48  |  |
| 3   |              | 89  | 78  | 70  | 63  | 87  | 77  | 69  | 74  | 67  | 61  | 57  | 52  | 48  | 44  | 41  |  |
| 4   |              | 81  | 69  | 60  | 53  | 79  | 67  | 59  | 65  | 57  | 52  | 48  | 44  | 41  | 38  | 35  |  |
| 5   |              | 74  | 61  | 52  | 45  | 72  | 60  | 51  | 58  | 50  | 44  | 41  | 38  | 35  | 32  | 29  |  |
| 6   |              | 68  | 55  | 45  | 39  | 66  | 54  | 45  | 52  | 44  | 38  | 35  | 32  | 29  | 27  | 24  |  |
| 7   |              | 63  | 49  | 40  | 34  | 61  | 48  | 40  | 47  | 39  | 34  | 31  | 28  | 25  | 23  | 21  |  |
| 8   |              | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 43  | 35  | 30  | 27  | 24  | 22  | 20  | 18  |  |
| 9   |              | 55  | 41  | 32  | 27  | 53  | 40  | 32  | 39  | 32  | 27  | 24  | 22  | 20  | 18  | 16  |  |
| 10  |              | 51  | 38  | 29  | 24  | 50  | 37  | 29  | 36  | 29  | 24  | 22  | 20  | 18  | 16  | 14  |  |

### Avg. Luminance (cd/m2)

| Vertical Angle | Horizontal Angle |      |      |
|----------------|------------------|------|------|
|                | 0                | 45   | 90   |
| 55             | 1756             | 2097 | 2494 |
| 65             | 1612             | 1905 | 2261 |
| 75             | 1386             | 1596 | 1858 |
| 85             | 1038             | 1107 | 1228 |

Philips Ledalite

**Light Output (Lumens)** 3948

**Watts** 34.9

**Lumens per Watt (Efficacy)** 113

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**Color Accuracy** 82

Color Rendering Index (CRI)

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**Light Color** 3325 (Bright White)

Correlated Color Temperature (CCT)

Warm White    Bright White    Daylight

2700K    3000K    4500K    6500K

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**Warranty\*\*** Yes

All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

\*\* See [www.lightingfacts.com/products](http://www.lightingfacts.com/products) for details.

Registration Number: F46Z-4VXT4H (7/11/2014)  
Model Number: 4x24xxxxL8BD  
Type: Luminaire - Troffer/Grid Ceiling

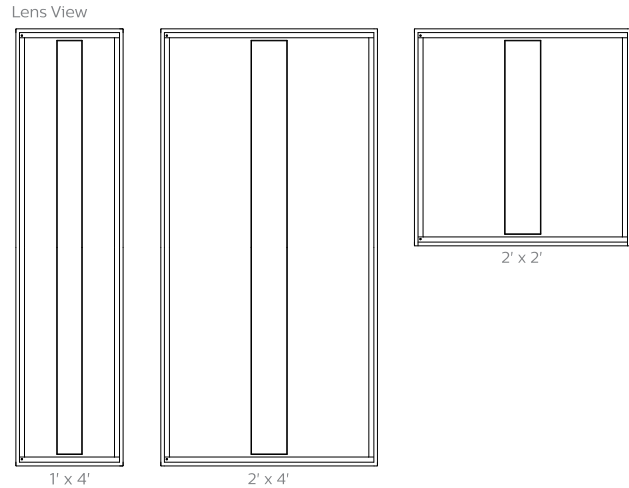
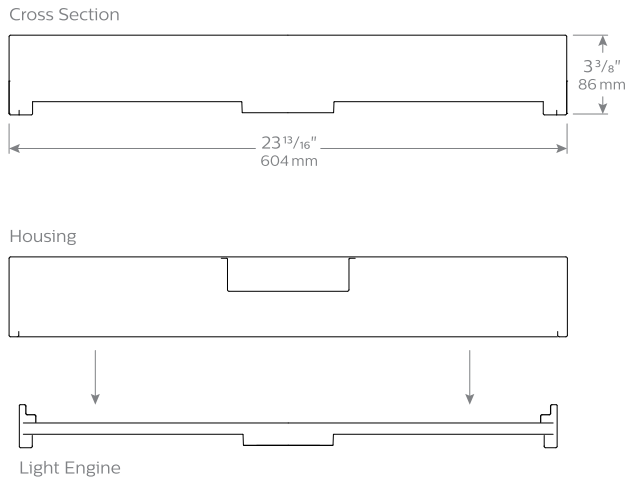
### Electrical Specifications

|   |       |       |
|---|-------|-------|
| Input Voltage   | 120V  | 277V  |
| Input Power   | 34.9W | 34.8W |
| Input Current   | 0.30A | 0.14A |
| Power Factor  | 0.986 | 0.897 |
| Total Harm. Distortion  | 14.7% | 18.5% |
| Tested values – contact technical support for rated values. Off-state power zero unless certain controls are specified. |       |       |

# VERSAFORM 2'X4' LED

## DIRECT, BEAM SHAPING LIGHT GUIDE WITH STEPPED DIFFUSER

### Options and Details

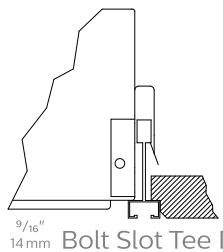


### Mounting



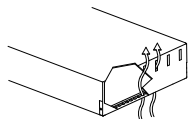
#### D1 Standard T-Grid

Option D1 works with 9/16" and 15/16" flat T-grid ceilings. It can also be used with slot T-grid ceilings, but it will not sit flush with the bottom of the T-bar.



#### D2 Slot T-Grid

Option D2 is designed to sit close to flush with slot T-grid ceilings and some tegular tile ceiling types.



#### Air Return

Air return is available with the VersaForm 2'x2' & 2'x4' options. Vent area is finished in black.

### Housing

Die-formed, post painted, 22 gauge cold-rolled steel. Wire entrance with additional knock-out available on top side for electrical connections.

### Weight

Maximum: 2x2 = 24lb, 1x4 = 28lb, 2x4 = 38lb

### Optical System

The optical frame assembly consists of integrated LED arrays edgelighting a light guide panel in order to deliver uniform controlled light through a lower lens. The optical frame ends are constructed from die-formed cold-rolled steel, assembled together with extruded aluminum profiles in a sturdy frame. The frame is hinged (side marked) to allow easy access to the inside of the fixture. Maintenance can be performed from below the ceiling.

### Standard Driver

0-10V Dimming – 5-100%. Output is class 2 rated, contact factory for other options.

### Lumen Maintenance

At an ambient temperature of 25°C, the LED lumen maintenance expectation is L<sub>70</sub> (9k) > 54 kh. Reported according to IES TM-21 Addendum A methodology (9k LM-80 test duration)

### Mounting

**Recessed:** Fixtures can be fastened directly to the T-bar grid and/or tied-off to the building structure.  
**Surface:** Fixtures can be mounted over recessed junction box and side entry also available.

### Electrical

Factory pre-wired with driver safety disconnect.

### Wiring

**Recessed:** Optional flex whips are supplied in 6' lengths.  
**Surface:** Standard wiring configurations available.

### Approvals

Certified to UL, CSA, DLC & IES Standards. City of Chicago Approved CCEA (housing option C).

### Finish

Housing and Frame painted, high quality, powder coated matte white only.

### Environment

Rated for dry & damp locations in operating in ambient temperatures of 25°C. Certain luminaire components may be adversely affected by contaminants. Damage caused by sulfur, chlorine, petroleum based solutions or other contaminants are not covered under warranty.

Due to continuing product improvements, Philips Ledalite reserves the right to change the specifications without notice.



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VrsFrm2x4\_8-35K40lm 05.17 page 3 of 3

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