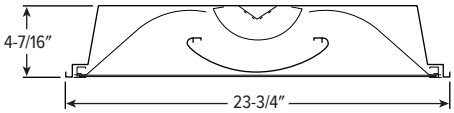
# VDIL LED
## Vandal-Resistant Direct/Indirect Lensed



Shown with AD

CATALOG #:

TYPE:

PROJECT:

## FEATURES

- Transparent lensed door provides a barrier between the room and the diffuser to discourage vandals and minimize contaminants
- Double or triple gasketing options available
- Ribbed acrylic diffuser shields LEDs from direct view
- T-slot steel hinge allows reversible hinging and latching and ensures positive retention when door is opened
- Optional anti-microbial white finish available for use in healthcare applications
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

## SPECIFICATIONS

- HOUSING – 22-gauge die-formed C.R.S.
- DOOR FRAME & LENS – Transparent acrylic lens with .236″ thick polycarbonate underlay, mounted in .050″ thick extruded aluminum door frame, flat with mitered corners secured with six tamper-resistant, tri-groove screws.
- REFLECTOR – Precision die-formed C.R.S. with highly reflective, non-glare matte white polyester powder coated finish.
- FINISH – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL – High-quality mid-power LED boards. L70 at 50,000 hours per IES TM-21. 50/60 Hz constant current driver. Tunable White products use LEDs of multiple shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING – NEMA Type “G” 15/16″ or 1″ grid standard. For NEMA Type “NFG” and “SG” 9/16″ grid installations, specify EQCLIPS option. Drywall flange type available.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - City of Chicago Environmental Air approved when specified with CP option.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

## ORDERING EXAMPLE: VDILG - S24 - L64/835 - FAD - OPTIONS - CONTROL/DIM - UNV

| SERIES | CEILING TYPE | FIXTURE STYLE | WIDTH | LENGTH | LUMENS [1] | CRI | CCT |
|---|---|---|---|---|---|---|---|
| **VDIL** | **G** 15/16″ or 1″ grid<br>**F** Flange [2] | **S** Full door frame, no reveal | **2** 2′ | **2** 2′<br>**4** 4′ | **2x2**<br>**L18** 1,800lm<br>**L22** 2,200lm<br>**L31** 3,100lm<br>**2x4**<br>**L36** 3,600lm<br>**L45** 4,500lm<br>**L62** 6,200lm | **8** 80<br>**9** 90 | **27** 2700K<br>**30** 3000K<br>**35** 3500K<br>**40** 4000K<br>**50** 5000K<br>**TW** Tunable white (3000K-5000K)<br>**TW2** Tunable white (2700K-6500K) |

| DOOR FRAME | SHIELDING |
|---|---|
| **F** Flat aluminum | **AD** Acrylic<br>**WPR** White perforated round |

**OPTIONS**

| | |
|---|---|
| **EM/10WLP** | Low-profile 10-watt emergency battery |
| **EM/10W/ST** | 10-watt self-diagnostic emergency battery |
| **20GA** | 20-guage C.R.S. housing |
| **EQCLIPS** | Earthquake clips [3] |
| **DG** | Double gasket [4] |
| **TG** | Triple gasket [5] |
| **(L__)** | Additional lower lumen packages available [6]<br>**Example**: 5,500 nominal lumens = VDILG-S24-L62/835-**(L55)** |
| **CP** | Chicago plenum (CCEA) |
| **AMW** | Anti-microbial white finish |

**CONTROL** [7]

*Click **HERE** for control and sensor options.*

– None

**DRIVER**

*See page 4 for **ADDITIONAL DRIVER OPTIONS.***

**DIM** Driver with external 0-10V dimming wires [8]
**DIM1** 1% Driver with external 0-10V dimming wires [9]
**DRV** Driver without external dimming wires [10]

**VOLTAGE**

**120** 120V
**277** 277V
**UNV** 120-277V
**347** 347V [11]

## ACCESSORIES

**TPTG TOOL** Tamper-resistant tool for tri-groove screws. [12]

## NOTES

1 Lumen output based on AD Shielding, 80 CRI, 3500K for static white and 4000K for tunable white. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
2 See page 3 for F CEILING TYPE INSTALLATION.
3 4 per fixture. Optional for 1″ grid installations. Required for 9/16″ grid mounting. Not available with F Ceiling Type.
4 See page 3 for GASKETING DETAILS.
5 Field-installed. See page 3 for GASKETING DETAILS.
6 Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
7 See page 3 for SENSOR & NODE PLACEMENT DETAILS.
8 0.1% Driver with tunable white.
9 Not available with tunable white.
10 Not available with tunable white.
11 Not available with EM batteries or tunable white.
12 Tamper-resistant tool must be ordered separately. Please specify quantity required per project.

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### FIXTURE PERFORMANCE DATA

| | LUMEN PACKAGE | DELIVERED LUMENS | WATTAGE | EFFICACY (LM/W) |
|---|---|---|---|---|
| 2x2 | L18 | 1,818 | 19.6 | 93 |
| | L22 | 2,227 | 23.9 | 93 |
| | L31 | 3,064 | 31.2 | 98 |
| 2x4 | L36 | 3,637 | 37.7 | 96 |
| | L45 | 4,532 | 48.0 | 94 |
| | L62 | 6,193 | 62.8 | 99 |

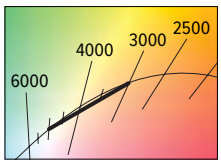
- Photometrics tested in accordance with IESNA LM-79. Results based on AD shielding, 80 CRI, 3500K for static white and 4000K for tunable white, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.

MULTIPLIER TABLES

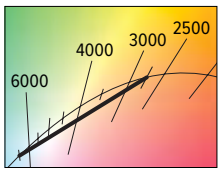
| | COLOR TEMPERATURE | | | |
|---|---|---|---|---|
| | CCT | STANDARD | TW | TW2 |
| 80 CRI | 2700K | 0.97 | – | 0.93 |
| | 3000K | 0.99 | 0.95 | 0.95 |
| | 3500K | 1.00 | 0.98 | 0.98 |
| | 4000K | 1.03 | 1.00 | 1.00 |
| | 5000K | 1.06 | 0.96 | 1.02 |
| | 6500K | – | – | 1.01 |
| 90 CRI | 2700K | 0.80 | – | 0.93 |
| | 3000K | 0.82 | 0.91 | 0.95 |
| | 3500K | 0.83 | 0.96 | 0.98 |
| | 4000K | 0.86 | 1.00 | 1.00 |
| | 5000K | 0.89 | 1.03 | 1.03 |
| | 6500K | – | – | 1.02 |

| | LENS | CONVERSION FACTOR |
|---|---|---|
| 2x2 | AD | 1.00 |
| | WPR | 0.75 |
| 2x4 | AD | 1.00 |
| | WPR | 0.79 |

TW

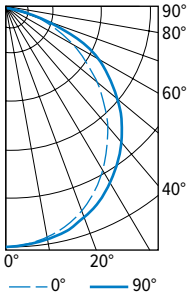



TW2




### PHOTOMETRY

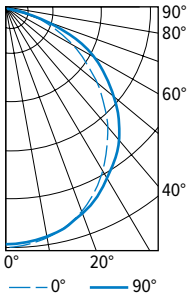
**VDILG-S22-L31/835-FAD** Total Luminaire Output: 3064 lumens; 31.2 Watts | Efficacy: 98.2 lm/W | 80 CRI; 3500K CCT




| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE 0° | HORIZONTAL ANGLE 45° | HORIZONTAL ANGLE 90° | ZONAL LUMENS |
|---|---|---|---|---|---|
| | 0 | 1203 | 1203 | 1203 | |
| | 5 | 1196 | 1193 | 1195 | 113 |
| | 15 | 1137 | 1146 | 1158 | 323 |
| | 25 | 1024 | 1048 | 1074 | 482 |
| | 35 | 866 | 907 | 952 | 567 |
| | 45 | 682 | 736 | 800 | 569 |
| | 55 | 486 | 543 | 628 | 491 |
| | 65 | 293 | 348 | 414 | 344 |
| | 75 | 123 | 147 | 149 | 151 |
| | 85 | 14 | 17 | 13 | 23 |
| | 90 | 1 | 2 | 1 | |

| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---|---|---|---|
| | 0 - 40 | 1486 | 49 |
| | 0 - 60 | 2546 | 83 |
| | 0 - 90 | 3064 | 100 |
| | 0 - 180 | 3064 | 100 |

**VDILG-S24-L62/835-FAD** Total Luminaire Output: 6193 lumens; 62.8 Watts | Efficacy: 98.7 lm/W | 80 CRI; 3500K CCT



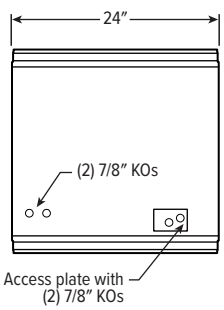

| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE 0° | HORIZONTAL ANGLE 45° | HORIZONTAL ANGLE 90° | ZONAL LUMENS |
|---|---|---|---|---|---|
| | 0 | 2392 | 2392 | 2393 | |
| | 5 | 2414 | 2370 | 2368 | 226 |
| | 15 | 2288 | 2266 | 2282 | 641 |
| | 25 | 2059 | 2066 | 2108 | 955 |
| | 35 | 1760 | 1807 | 1881 | 1133 |
| | 45 | 1400 | 1484 | 1570 | 1143 |
| | 55 | 1008 | 1106 | 1228 | 997 |
| | 65 | 624 | 730 | 820 | 715 |
| | 75 | 271 | 307 | 313 | 328 |
| | 85 | 35 | 39 | 39 | 54 |
| | 90 | 2 | 2 | 2 | |

| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---|---|---|---|
| | 0 - 40 | 2956 | 48 |
| | 0 - 60 | 5096 | 82 |
| | 0 - 90 | 6193 | 100 |
| | 0 - 180 | 6193 | 100 |

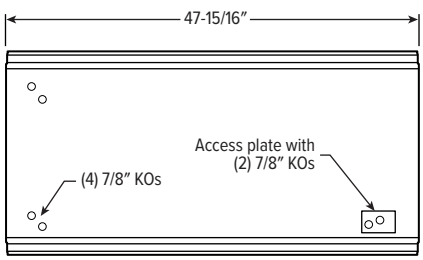
### FIXTURE DETAILS

See hew.com/power-entry for power entry details.

2x2




2x4



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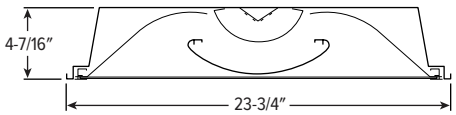
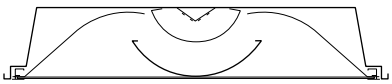
## CROSS SECTIONS

### G CEILING TYPE INSTALLATION

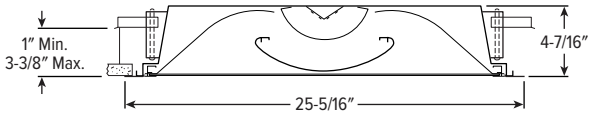
**AD**




**WPR**



### F CEILING TYPE INSTALLATION




Note: Maximum recommended ceiling opening is 24-3/8″ x 24-3/8″ for 2′x2′ and 24-3/8″x 48-3/8″ for 2′x4′. For continuous row mounting, add 49-5/16″ for each additional fixture to obtain ceiling opening. 1-5/16″ between end plates.

## SHIELDING DETAILS

**AD**

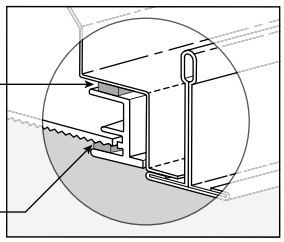
**WPR**

## GASKETING DETAILS

### DOUBLE GASKETING (DG OPTION)

Door frame gasketing factory-installed between door frame and luminaire housing prevents light leak and reduces dust ingress.

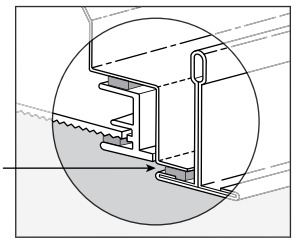
Shielding gasketing factory-installed between door frame and lens reduces dust and bug contaminants.



### TRIPLE GASKETING (TG OPTION)

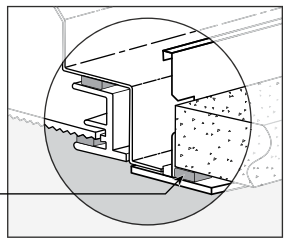
T-bar

Ceiling gasketing field installed between bottom perimeter of fixture and T-bar ceiling seals plenum dust from the room.

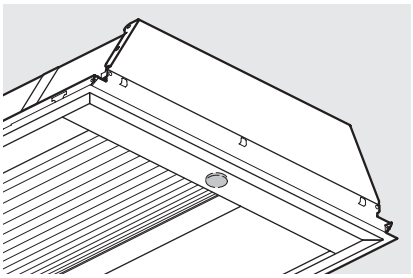


Drywall

Between bottom perimeter of fixture and hardpan ceiling.



## SENSOR & NODE PLACEMENT DETAILS



## ADDITIONAL DRIVER OPTIONS

Note: Restrictions may apply, consult product builder at hew.com/product-builder

| CATALOG NUMBER | DESCRIPTION |
|---|---|
| DRV [1] | Driver without external dimming wires prewired for non-dimming applications |
| DIM | Driver with external dimming wires prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls 0.1% dimming and (1) 0-10V signal controls CCT) |
| DIM1 [1] | 1% driver with external dimming wires prewired for 0-10V low voltage applications |
| DIM LINE [1] | Line voltage dimming driver (TRIAC and ELV compatible, 120V only) |
| DIM TRC [1] | Line voltage dimming driver (TRIAC compatible, 120V only) |
| DA | Driver with 12V auxiliary power, without external dimming wires (not available with 347V) |
| DSR | DALI-2 sensor-ready driver without external dimming wires (Not available with 347V. Static CCTs use D4i DALI-2 driver) |
| DALI | DALI dimming driver |
| DMX | Driver prewired for DMX applications |
| SD40 [1] | 40% step-dimming driver |
| SD50 [1] | 50% step-dimming driver |
| LDE1 [1] | Lutron Hi-lume 1% EcoSystem dimming driver |
| LD2 | Lutron DALI-2 digital driver, 1% |
| DCC | Remote UL Class 2 DC constant current supply, UL- or CSA-listed, by others |

1 Single CCT only.

## TUNABLE WHITE DRIVER DETAILS

**DIM**

**DALI**

**DMX**

**LD2**