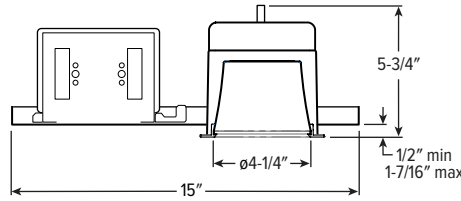


# V4DR tunable WHITE 4.5" Vandal-Resistant Downlight – Round



CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_

## FEATURES

- Tunable white from 2700K to 5000K CCT, minimum 80 CRI
- Ideal for schools, hallways, dormitories, locker rooms, or other vandal prone areas
- Beam angles ranging from 25° narrow to 50° wide for tailored performance
- Die cast trim choices include flush, regressed or angled lens
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Easily adjust mounting arms below ceiling to adapt to a range of ceiling thicknesses

## SPECIFICATIONS

- HOUSING** – Die-cast aluminum trim housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Swing-out mounting arms adjust for ceiling thickness from 1/2" - 1-7/16" (see options for additional ceiling thicknesses).
- LENSED TRIM** – Die-cast aluminum frame with micro-prismatic, polycarbonate lens. Trim is secured with four stainless steel, tamper-resistant screws.
- ELECTRICAL** – High-performance Class 2 LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>50,000 hours. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure.
- LISTINGS** –
  - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for damp locations. LED light assembly conforms to UL 2108 for remote installation.
  - Suitable for wet location under covered ceiling when specified with WET/CC option.
  - IC-rated for direct contact with insulation when specified with I Mounting Type.
  - City of Chicago Environmental Air approved when specified with CP option.
  - Complies with ASTM-E283 when specified with ATH option.
  - RoHS compliant.
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

ORDERING EXAMPLE: V4DR - L10/8TW - OPTIONS - DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1

## HOUSING

| SERIES | LUMENS <sup>(1)</sup>      | COLOR                                   | OPTIONS   | CONTROL   | VOLTAGE      |
|--------|----------------------------|---|---|---|--------------|
| V4DR   | L10 1,000lm<br>L18 1,800lm | 8TW Tunable white (80 CRI, 2700K-5000K) | EM/7W 7-watt emergency battery <sup>(2)</sup><br>EM/10W 10-watt emergency battery <sup>(3)</sup><br>ATH Airtight construction<br>F Fuse kit<br>CP Chicago plenum (CCEA) <sup>(4)</sup><br>TC Adjustable mounting arms for 1-1/2" – 2-1/4" thick ceilings<br>TP10 T10 torx bit 1/4" drive tamper-resistant tool <sup>(5)</sup> | DALI Driver prewired for DALI applications<br>DIM Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT<br>DMX Driver prewired for DMX applications | UNV 120-277V |

## TRIM

| TRIM TYPE                    | DISTRIBUTION <sup>(6)</sup> | FLANGE TYPE             | REFLECTOR FINISH  | TRIM OPTIONS                                       |
|------------------------------|-----------------------------|-------------------------|---|--|
| L Flush lens                 | W Wide                      | OF 1/2" standard flange | CS Clear semi-specular powder coat                      | MWT Textured white trim flange <sup>(10)</sup>     |
| R Regressed lens             | 50° Flush                   |                         | WH White texture powder coat                            | IP IP65 rated trim                                 |
| A Angled lens <sup>(7)</sup> | 50° Regressed               |                         | BL Black texture powder coat                            | PD Diffuse 1/8" polycarbonate lens <sup>(11)</sup> |
|                              | M Medium                    |                         | MB Black texture splay with white flange <sup>(9)</sup> | WET/CC Wet location, covered ceiling listed        |
|                              | 35° Flush                   |                         |   | AM Anti-microbial <sup>(12)</sup>                  |
|                              | 30° Regressed               |                         |   |  |
|                              | N Narrow                    |                         |   |  |
|                              | 25° Flush                   |                         |   |  |
|                              | 25° Regressed               |                         |   |  |
|                              | WW Wall wash <sup>(8)</sup> |                         |   |  |

## MOUNTING

### MOUNTING TYPE <sup>(13)</sup>

- N Open pan for new construction
- I IC-rated enclosure for new construction

### MOUNTING HARDWARE <sup>(14)</sup>

- F1 Integral 2-position fixed pan bracket, universal bar hanger included
- BA1 Adjustable butterfly pan bracket, bar hanger not included <sup>(15)</sup>
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included <sup>(16)</sup>

## NOTES

- Lumen output based on O trim type, W distribution and WH finish, 4000K/80CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- N Mounting Type only.
- N Mounting Type only.
- I Mounting Type required
- Tamper-resistant (TP10) tool must be ordered separately. Please specify quantity required per project.
- Beam angle based on WH reflector finish.
- Available with WW Distribution only.
- A Trim Type only.
- R Trim Type only. Not available with MWT.
- Not available with WH Reflector Finish or L Trim Type.
- W distribution only.
- WH and BL Reflector Finishes only.
- Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
- N Mounting Type only.
- N Mounting Type only.

# V4DR tunable WHITE 4.5" Vandal-Resistant Downlight – Round

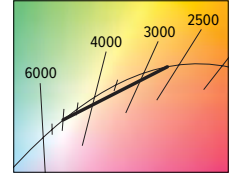
## FIXTURE PERFORMANCE DATA

### FLUSH LENS TRIM TYPE

|     | DISTRIBUTION | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-----|--------------|------------------|---------|-----------------|
| L10 | W            | 1029             | 14.6    | 70.7            |
|     | M            | 1148             | 14.6    | 78.6            |
|     | N            | 1175             | 14.6    | 80.7            |
| L18 | W            | 1781             | 24.0    | 74.0            |
|     | M            | 2020             | 24.0    | 84.0            |
|     | N            | 2033             | 24.0    | 84.5            |

### REGRESSED LENS TRIM TYPE

|     | DISTRIBUTION | DELIVERED LUMENS | WATTAGE       | EFFICACY (lm/W) |
|-----|--------------|------------------|---------------|-----------------|
| L10 | W            | 1040             | 14.6          | 71.4            |
|     | M            | 1149             | 14.6          | 78.7            |
|     | N            | 1181             | 14.6          | 81.1            |
| L18 | W            | 1799             | 24.0          | 74.8            |
|     | M            | 2026             | 24.0          | 84.3            |
|     | N            | 2043             | 24.0 <td 84.9 |                 |



- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 4000K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier tables to calculate additional options.

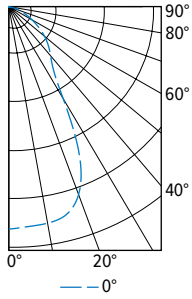
### MULTIPLIER TABLES

| COLOR TEMPERATURE |        |       |
|-------------------|--------|-------|
| CCT               | LUMENS | WATTS |
| 2700K             | 0.83   | 1.03  |
| 3000K             | 1.00   | 1.00  |
| 3500K             | 0.99   | 0.99  |
| 4000K             | 1.00   | 1.00  |
| 5000K             | 0.98   | 1.03  |

| TRIM           |                   |
|----------------|-------------------|
| CATALOG NUMBER | CONVERSION FACTOR |
| AD             | 0.85              |
| PD             | 0.85              |

## PHOTOMETRY

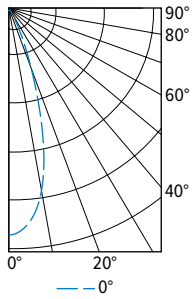
V4DR-L18/8TW-DIM-UNV-LW-OF-WH Total Luminaire Output: 1781 lumens; 24.0 Watts | Efficacy: 74.0 lm/W | 80CRI; 4000K CCT



| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE | ZONAL LUMENS |
|--------------------------|----------------|------------------|--------------|
|                          |                | 0°               |              |
|                          | 0              | 1251             |              |
|                          | 5              | 1242             | 118          |
|                          | 15             | 1218             | 341          |
|                          | 25             | 951              | 422          |
|                          | 35             | 443              | 287          |
|                          | 45             | 318              | 245          |
|                          | 55             | 212              | 189          |
|                          | 65             | 114              | 114          |
|                          | 75             | 48               | 52           |
|                          | 85             | 9                | 11           |
|                          | 90             | 0                |              |

| LUMEN SUMMARY | ZONE   | LUMENS | % FIXTURE |
|---------------|--------|--------|-----------|
|               | 0 - 40 | 1169   | 66        |
|               | 0 - 60 | 1603   | 90        |
|               | 0 - 90 | 1781   | 100       |
|               | 0-180  | 1781   | 100       |

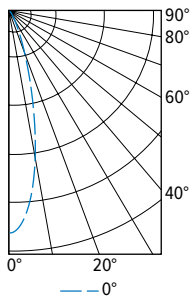
V4DR-L18/8TW-DIM-UNV-LM-OF-WH Total Luminaire Output: 2020 lumens; 24.0 Watts | Efficacy: 84.0 lm/W | 80CRI; 4000K CCT



| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE | ZONAL LUMENS |
|--------------------------|----------------|------------------|--------------|
|                          |                | 0°               |              |
|                          | 0              | 5227             |              |
|                          | 5              | 5003             | 456          |
|                          | 15             | 3071             | 821          |
|                          | 25             | 830              | 400          |
|                          | 35             | 217              | 144          |
|                          | 45             | 99               | 78           |
|                          | 55             | 63               | 56           |
|                          | 65             | 39               | 38           |
|                          | 75             | 19               | 20           |
|                          | 85             | 4                | 5            |
|                          | 90             | 0                |              |

| LUMEN SUMMARY | ZONE  | LUMENS | % FIXTURE |
|---------------|-------|--------|-----------|
|               | 0-40  | 1822   | 90        |
|               | 0-60  | 1957   | 97        |
|               | 0-90  | 2020   | 100       |
|               | 0-180 | 2020   | 100       |

V4DR-L18/8TW-DIM-UNV-LN-OF-WH Total Luminaire Output: 2033 lumens; 24.0 Watts | Efficacy: 84.5 lm/W | 80CRI; 4000K CCT



| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE | ZONAL LUMENS |
|--------------------------|----------------|------------------|--------------|
|                          |                | 0°               |              |
|                          | 0              | 7636             |              |
|                          | 5              | 6889             | 598          |
|                          | 15             | 2939             | 809          |
|                          | 25             | 693              | 337          |
|                          | 35             | 182              | 121          |
|                          | 45             | 86               | 68           |
|                          | 55             | 53               | 47           |
|                          | 65             | 32               | 32           |
|                          | 75             | 16               | 17           |
|                          | 85             | 3                | 4            |
|                          | 90             | 0                |              |

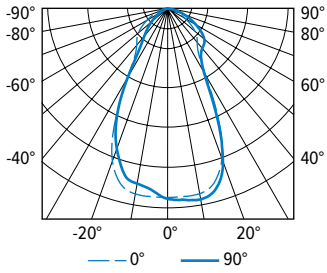
| LUMEN SUMMARY | ZONE  | LUMENS | % FIXTURE |
|---------------|-------|--------|-----------|
|               | 0-40  | 1865   | 92        |
|               | 0-60  | 1980   | 97        |
|               | 0-90  | 2033   | 100       |
|               | 0-180 | 2033   | 100       |



# V4DR tunable WHITE

## 4.5" Vandal-Resistant Downlight – Round

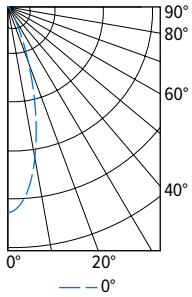
V4DR-L18/8TW-DIM-UNV-AWW-OF-WH Total Luminaire Output: 1385 lumens; 24 Watts | Efficacy: 58 lm/W | 80CRI; 4000K CCT



| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE |      |      |      |      | ZONAL LUMENS |
|--------------------------|----------------|------------------|------|------|------|------|--------------|
|                          |                | 0°               | 45°  | 90°  | 135° | 180° |              |
|                          | 0              | 1174             | 1174 | 1174 | 1174 | 1174 |              |
|                          | 5              | 1186             | 1186 | 1168 | 1142 | 1123 | 111          |
|                          | 15             | 1142             | 1115 | 1105 | 1078 | 1033 | 303          |
|                          | 25             | 656              | 626  | 686  | 723  | 699  | 308          |
|                          | 35             | 349              | 326  | 319  | 321  | 276  | 206          |
|                          | 45             | 309              | 288  | 249  | 195  | 162  | 186          |
|                          | 55             | 243              | 215  | 164  | 111  | 87   | 146          |
|                          | 65             | 148              | 122  | 80   | 48   | 32   | 85           |
|                          | 75             | 68               | 49   | 25   | 14   | 13   | 35           |
|                          | 85             | 13               | 6    | 3    | 4    | 3    | 7            |
|                          | 90             | 0                | 0    | 1    | 1    | 0    |              |

| LUMEN SUMMARY | ZONE    | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
|               | 0 - 40  | 927    | 67        |
|               | 0 - 60  | 1260   | 91        |
|               | 0 - 90  | 1385   | 100       |
|               | 0 - 180 | 1385   | 100       |

V4DR-L18/8TW-DIM-UNV-RM-OF-WH Total Luminaire Output: 2026 lumens; 24.0 Watts | Efficacy: 84.3 lm/W | 80 CRI; 4000K CCT

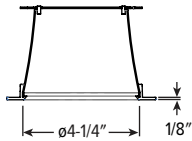


| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE | ZONAL LUMENS |
|--------------------------|----------------|------------------|--------------|
|                          |                | 0°               |              |
|                          | 0              | 5842             |              |
|                          | 5              | 5445             | 486          |
|                          | 15             | 3025             | 821          |
|                          | 25             | 887              | 424          |
|                          | 35             | 219              | 146          |
|                          | 45             | 84               | 67           |
|                          | 55             | 48               | 43           |
|                          | 65             | 25               | 25           |
|                          | 75             | 10               | 11           |
|                          | 85             | 3                | 3            |
|                          | 90             | 0                |              |

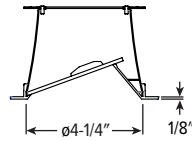
| LUMEN SUMMARY | ZONE  | LUMENS | % FIXTURE |
|---------------|-------|--------|-----------|
|               | 0-40  | 1877   | 93        |
|               | 0-60  | 1987   | 98        |
|               | 0-90  | 2026   | 100       |
|               | 0-180 | 2026   | 100       |

### TRIM TYPE DETAILS

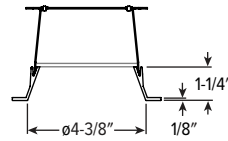
#### FLUSH



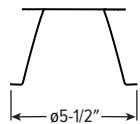
#### ANGLED



#### REGRESSED



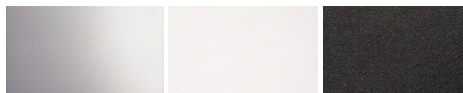
### FLANGE TYPE DETAILS



Ceiling Cutout:  $\phi 5"$

### REFLECTOR FINISH DETAILS

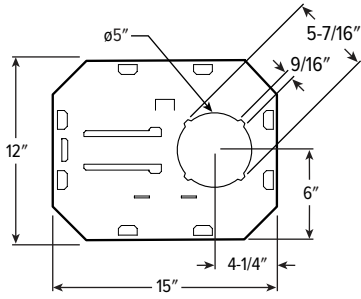
CS Clear semi-specular    WH White    BL Black



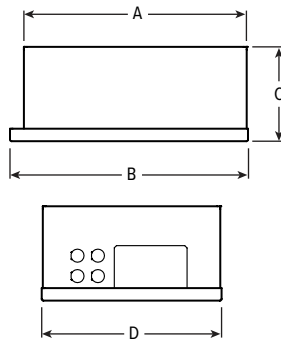
# V4DR tunable WHITE 4.5" Vandal-Resistant Downlight – Round

## MOUNTING TYPE DETAILS

### NEW CONSTRUCTION



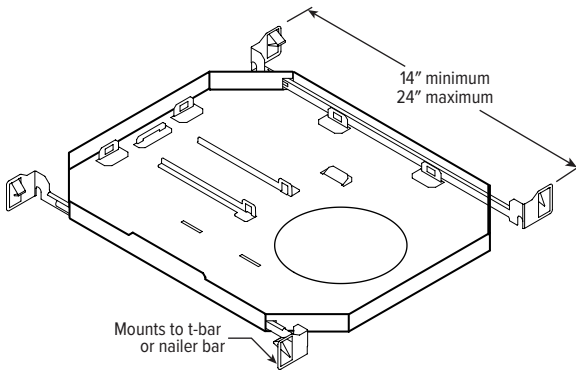
### IC-RATED



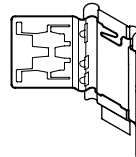
| LUMENS | LENGTH   |         |        |         |
|--------|----------|---------|--------|---------|
|        | A        | B       | C      | D       |
| L10    | 15-3/16" | 16"     | 6-3/8" | 12-1/8" |
| L18    | 16-5/8"  | 17-1/2" | 7-7/8" | 14"     |

## MOUNTING HARDWARE DETAILS

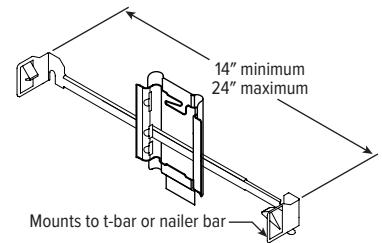
**F1** Integral 2-position fixed pan bracket, universal bar hanger included



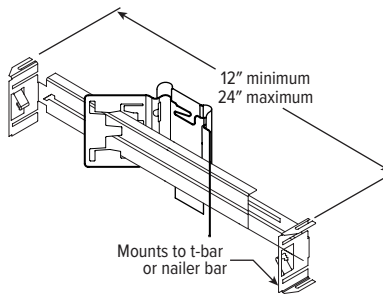
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



**CA1** Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



**BA2** Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



**CA2** Adjustable caterpillar pan bracket, t-bar hanger included (N Mounting Type only)

