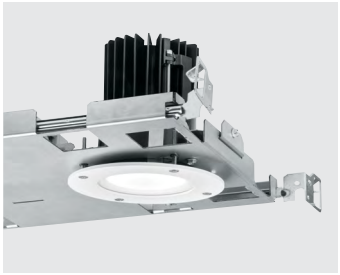
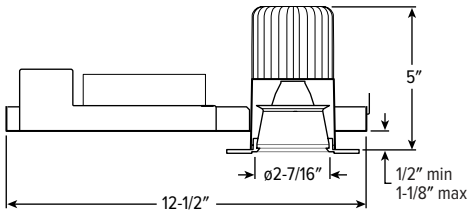
V2DR LED
2″ Vandal-Resistant Downlight – Round





CATALOG #: _____

TYPE: _____

PROJECT: _____

BAA & BABA COMPLIANT | Low UGR | WET/CC | TW

ORDERING EXAMPLE: V2DR - L18/835 - OPTIONS - CONTROL/DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1
(HOUSING | TRIM | MOUNT.)

HOUSING

SERIES
V2DR

LUMENS [1]
L5 500lm
L8 800lm
L14 1,400lm
L18 1,800lm[3]

CRI
8 80[4]
9 90

CCT
27 2700K
30 3000K
35 3500K
40 4000K
50 5000K
TW Tunable white (90 CRI, 2700K-5000K)

OPTIONS [2]
EM/5W 5-watt emergency battery [5]
EM/7W 7-watt emergency battery [6]
EM/10W 10-watt emergency battery [7]
ATH Airtight construction
F Fuse
SDT Stepdown transformer [8]

CONTROL
*Click **HERE** for control options.*
– None

DRIVER
See page 4 for ADDITIONAL DRIVER OPTIONS.
DIM Dimming driver, 0-10V [9]
DIM1 1% Dimming driver, 0-10V [10]
DIM LINE Driver with line voltage dimming wires [11]

VOLTAGE
UNV 120-277V
347 347V [12]

TRIM

TRIM TYPE
L Flush lens
R Regressed lens

DISTRIBUTION [13]
W Wide
50° Flush
55° Regressed

FLANGE TYPE
OF 1/2″ standard flange with 7/8″ vandal ring [14]

REFLECTOR FINISH
WH White texture powder coat
CS Clear semi-specular powder coat
BL Black texture powder coat

TRIM OPTIONS
AM Anti-microbial [15]
WET/CC Wet location, covered ceiling listed

MOUNTING

MOUNTING TYPE
N Open pan for new construction [16]

MOUNTING HARDWARE
See page 3 for ADDITIONAL MOUNTING HARDWARE OPTIONS.
F1 Integral 2-position fixed pan bracket, universal bar hanger included
BA1 Adjustable butterfly pan bracket, bar hanger not included
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included

NOTES

1. Lumen output based on L Trim Type and WH Reflector Finish, 80 CRI/3500K for single CCT and 90 CRI/4000K for tunable white. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
2. EM batteries: specify CEC in the option code when California Energy Commission regulations are required.
3. Not available with tunable white.
4. Not available with tunable white.
5. Top access required.
6. L8 minimum lumen package and top access required.
7. L14 minimum lumen package and top access required.
8. May be required for 347V, see product builder at hew.com/product-builder
9. 0.1% Driver with tunable white.
10. Not available with tunable white.
11. Not available with L5 lumen package. Not available with tunable white.
12. Not available with Tunable White, EM batteries or DMX Driver.
13. Beam angle based on L Trim Type and WH Reflector Finish.
14. Vandal ring finish matches specified reflector finish.
15. WH and BL Reflector Finishes only.
16. Mounting hardware required, ordered separately, see MOUNTING HARDWARE

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FEATURES

- Ideal for schools, behavioral health facilities, correctional institutions and other vandal-prone areas
- Anti-ligature design with tamper-resistant fasteners
- Anti-microbial trim option suppresses the spread of dangerous micro-organisms, mold, and bacterial growth
- 2″ aperture is unobtrusive in small scale spaces
- Easily adjust mounting arms below ceiling to adapt to a range of ceiling thicknesses
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Low UGR meets LEED and WELL requirements
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

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 field adjust for ceiling thickness from 1/2″ – 1-1/8″ max.
- LENSED TRIM – Die-cast aluminum frame with 1/8″ micro- prismatic, polycarbonate lens. Aluminum vandal ring is secured with four stainless steel, tamper-resistant screws, (1) tamper-resistant tool provided.
- ELECTRICAL – High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70 > 55,000 hours. Reported L90=49,000 hours. Estimated L70=179,000 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. Top access required when specified with EM battery or controls other than DIM, DIM1, DIM LINE.
- LISTINGS –
  - cCSAus conforms to UL STD 1598; Certified to CAN/ CSA STD C22.2 No. 250.0 for dry and 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.
  - Complies with ASTM-E283 when specified with ATH option.
  - RoHS compliant.
  - 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

FIXTURE PERFORMANCE DATA

		FLUSH LENS TRIM TYPE		REGRESSED LENS TRIM TYPE	
	WATTAGE	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L5	6.7	505	75	490	73
L8	10.7	822	77	798	75
L14	17.3	1409	81	1368	79
L18	23.9	1805	76	1752	73

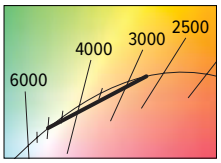
- Photometrics tested in accordance with IESNA LM-79. Results based on L Trim Type, WH Reflector Finish, 80 CRI/3500K for single CCT and 90 CRI/4000K for tunable white, wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

MULTIPLIER TABLES

	COLOR TEMPERATURE		
	CCT	SINGLE CCT	TW
80 CRI	2700K	0.92	–
	3000K	0.98	–
	3500K	1.00	–
	4000K	1.01	–
	5000K	1.02	–
90 CRI	2700K	0.76	0.87
	3000K	0.79	0.96
	3500K	0.82	1.02
	4000K	0.84	1.00
	5000K	0.88	1.02

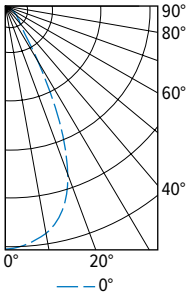
	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
R TRIM	WH	1.00
	CS	0.98
	BL	0.79

TUNABLE WHITE



PHOTOMETRY

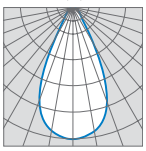
V2DR-L14/835-DIM-UNV-LW-OF-WH Total Luminaire Output: 1409 lumens; 17.3 Watts | Efficacy: 81 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
	0	1663	
	5	1640	155
	15	1472	407
	25	884	396
	35	256	172
	45	130	102
	55	92	82
	65	58	58
	75	29	30
	85	5	7
	90	0	

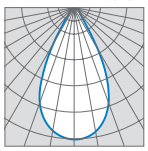
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1130	80
	0 - 60	1314	93
	0 - 90	1409	100
	0-180	1409	100

FLUSH (L)



50° Wide

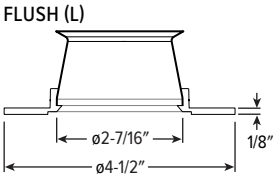
REGRESSED (R)



55° Wide

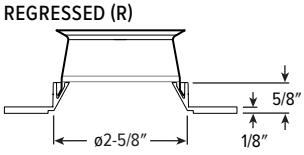
TRIM TYPE DETAILS

FLUSH (L)



Ceiling Cutout: ø3″

REGRESSED (R)



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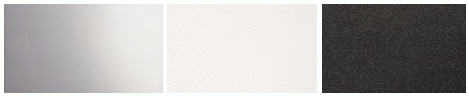
REFLECTOR FINISH DETAILS

CS Clear semi-specular

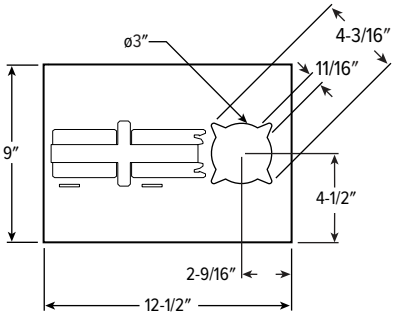
WH White

BL Black



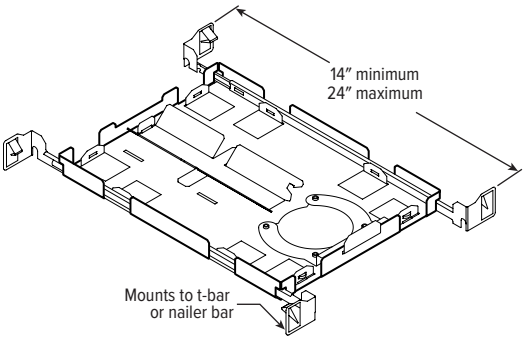
MOUNTING TYPE DETAILS

Flex conduit is recommended for installation.

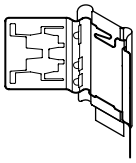


ADDITIONAL MOUNTING HARDWARE OPTIONS

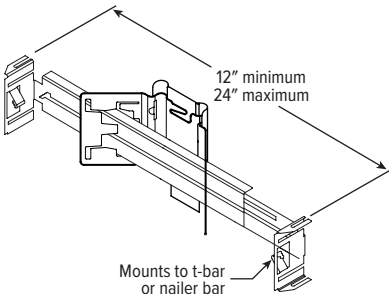
F1 Integral 2-position fixed pan bracket, universal bar hanger included



BA1 Adjustable butterfly pan bracket, bar hanger not included



BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included



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ADDITIONAL DRIVER OPTIONS

Lumen restrictions apply: L8 minimum for DIM LINE and LDE1 drivers. Lutron controls available with N Mounting Type only. 347V may require stepdown transformer, see product builder at hew.com/product-builder

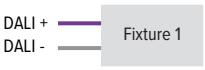
CATALOG NUMBER	DESCRIPTION
BELOW CEILING ACCESS	
DIM	Dimming driver prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls 0.1% dimming and (1) 0-10V signal controls CCT)
DIM1 [1]	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE [1]	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)
TOP ACCESS REQUIRED	
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications
LDE1 [1]	Lutron Hi-lume 1% EcoSystem dimming LED 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