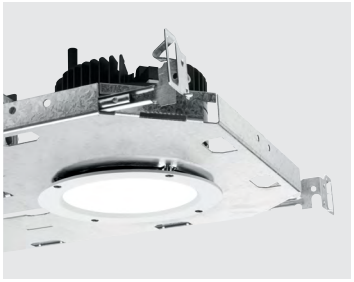
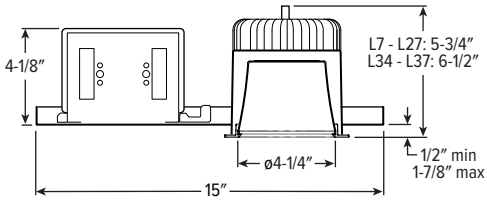
V4DR LED
4.5″ Vandal-Resistant Downlight – Round





CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT | CCEA Approved | Low UGR | IP65 Rated | ISO 5 Class 100 | WET/CC | TW

ORDERING EXAMPLE: V4DR - L14/835 - OPTIONS - CONTROL/DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1
(HOUSING | TRIM | MOUNT.)

HOUSING

SERIES
V4DR

LUMENS [1]
Single CCT or TW
L7 700lm [2]
L10 1,000lm
L14 1,400lm
Single CCT only
L20 2,000lm
L27 2,700lm
L34 3,400lm
L37 3,700lm

CRI
8 80
9 90 [3]

CCT
27 2700K
30 3000K
35 3500K
40 4000K
50 5000K
TW Tunable white (80 CRI, 2700K-5000K)

OPTIONS
ATH Airtight construction
F Fuse
EM/7W 7-watt emergency battery [4]
EM/10W 10-watt emergency battery [5]
CP Chicago plenum (CCEA) [6]
SDT Stepdown transformer [7]
TC Thick ceiling construction [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
50° Regressed
M Medium [14]
35° Flush
30° Regressed
N Narrow [15]
25° Flush
25° Regressed

FLANGE TYPE
OF 1/2″ standard flange

REFLECTOR FINISH
WH White texture powder coat
CS Clear semi-specular powder coat
BL Black texture powder coat
MB Black texture splay with white flange [16]

TRIM OPTIONS
MWT Smooth matte white trim flange [17]
IP IP65 rated trim
PD Diffuse 1/8″ polycarbonate lens [18]
WET/CC Wet location, covered ceiling listed
AM Anti-microbial [19]

MOUNTING

MOUNTING TYPE [20]
N Open pan for new construction
I IC-rated enclosure for new construction [22]

MOUNTING HARDWARE [21]
F1 Integral 2-position fixed pan bracket, universal bar hanger included [23]
BA1 Adjustable butterfly pan bracket, bar hanger not included [24]
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included [25]

ACCESSORIES

TPTX-10 TOOL T10 torx bit 1/4″ drive tamper-resistant tool. [26]

NOTES

1 Lumen output based on L Trim Type, W Distribution, WH Reflector Finish, 80 CRI, 3500K for static white and 4000K for tunable white. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
2 Not available with EM/10W emergency batteries.
3 Not available with tunable white.
4 Specify CEC in the option code when California Energy Commission regulations are required.
5 Specify CEC in the option code when California Energy Commission regulations are required.
6 I Mounting Type required.
7 May be required for 347V, see product builder at hew.com/product-builder
8 Required for ceiling thicknesses greater than 1-1/4″
9 0.1% Driver with tunable white.
10 Not available with tunable white.
11 Not available with tunable white.
12 Not available with Tunable White, EM batteries or DMX Driver.
13 Beam angle based on WH Reflector Finish.
14 Not available with L34 and L37 lumen packages.
15 Not available with L34 and L37 lumen packages.
16 R Trim Type only. Not available with MWT.
17 Not available with WH Reflector Finish or L Trim Type.
18 W Distribution only.
19 WH and BL Reflector Finishes only.
20 Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 3 for MOUNTING TYPE DETAILS.
21 Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
22 L14 lumen package max. L20 available, W Distribution only. Not available with EM batteries.
23 I Mounting requires external brackets.
24 N Mounting Type only.
25 N Mounting Type only.
26 Tamper-resistant tool must be ordered separately. Please specify quantity required per project.

V4DR LED
4.5" Vandal-Resistant Downlight – Round

FEATURES

- Ideal for schools, behavioral health facilities, correctional institutions, and other vandal-prone areas
- Anti-ligature design with tamper-resistant fasteners
- Accepted by the New York State Office of Mental Health for use in inpatient facilities
- IP65-rated die-cast trim includes easy-to-clean flush lens
- Beam angles ranging from 25° narrow to 50° wide for tailored performance
- 4 inch aperture is unobtrusive in small scale spaces
- Die-cast trim choices include flush or regressed lens
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Easily adjust mounting arms below ceiling to adapt to a range of ceiling thicknesses
- 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" – 1-7/8" max. TC option required for ceiling thicknesses greater than 1-1/4".
- LENSED TRIM – Die-cast aluminum frame with 1/8" micro-prismatic, polycarbonate lens with 1/8" clear polycarbonate underlay. Trim is secured with four stainless steel, tamper-resistant screws.
- 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>55,000 hours. Estimated L70 = 200,000 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. Minimum 24" O.C. marked spacing required for L34 and L37 lumen packages.
- 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.
  - IP65 rated trim when specified with IP option.
  - IC-rated for direct contact with insulation when specified with I Mounting Type.
  - ISO 5, Class 100 rated.
  - City of Chicago Environmental Air approved when specified with CP 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

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L7	W	674	10.7	63
	M	895	10.7	84
	N	914	10.7	85
L10	W	994	16.1	62
	M	1319	16.1	82
	N	1347	16.1	84
L14	W	1352	21.7	62
	M	1794	21.7	83
	N	1833	21.7	85
L20	W	2022	31.1	65
	M	2683	31.1	86
	N	2741	31.1	88
L27	W	2695	44.2	61
	M	3577	44.2	81
	N	3654	44.2	83
L34	W	3364	51.4	65
	M	–	–	–
	N	–	–	–
L37	W	3678	58.6	63
	M	–	–	–
	N	–	–	–

REGRESSED LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L7	W	660	10.7	62
	M	895	10.7	84
	N	882	10.7	82
L10	W	972	16.1	60
	M	1319	16.1	82
	N	1300	16.1	81
L14	W	1232	21.7	57
	M	1795	21.7	83
	N	1769	21.7	82
L20	W	1979	31.1	64
	M	2685	31.1	86
	N	2646	31.1	85
L27	W	2638	44.2	60
	M	3579	44.2	81
	N	3527	44.2	80
L34	W	3292	51.4	64
	M	–	–	–
	N	–	–	–
L37	W	3599	58.6	61
	M	–	–	–
	N	–	–	–

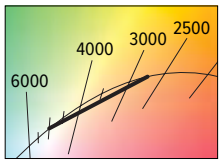
MULTIPLIER TABLES

	COLOR TEMPERATURE		
	CCT	SINGLE CCT	TW
80 CRI	2700K	0.92	0.83
	3000K	0.98	1.00
	3500K	1.00	0.99
	4000K	1.01	1.00
	5000K	1.02	0.98
90 CRI	2700K	0.76	–
	3000K	0.79	–
	3500K	0.82	–
	4000K	0.84	–
	5000K	0.88	–

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
PD	0.85

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

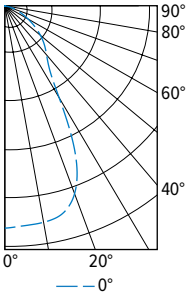
TUNABLE WHITE



- Photometrics tested in accordance with IESNA LM-79. Results based on L trim type, W distribution, WH finish, 80 CRI, 3500K for single CCT and 4000K for tunable white, wattage for 120V input, and 25ºC 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.

PHOTOMETRY

V4DR-L14/835-DIM-UNV-LW-OF-WH Total Luminaire Output: 1352 lumens; 21.7 Watts | Efficacy: 62.3 lm/W | 80CRI; 3500K CCT



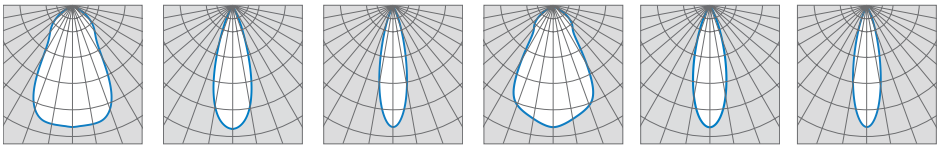
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
	0	950	
	5	943	67
	15	925	148
	25	722	153
	35	336	101
	45	241	90
	55	161	65
	65	87	37
	75	37	15
	85	7	1
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	887	66
	0 - 60	1217	90
	0 - 90	1352	100
	0-180	1352	100

PHOTOMETRY CONTINUED ON NEXT PAGE.

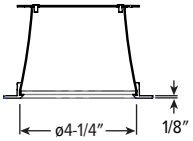
V4DR LED
4.5″ Vandal-Resistant Downlight – Round

FLUSH **REGRESSED**

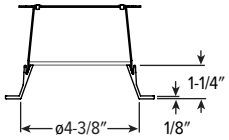


TRIM TYPE DETAILS

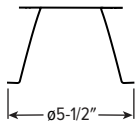
FLUSH



REGRESSED



FLANGE TYPE DETAILS



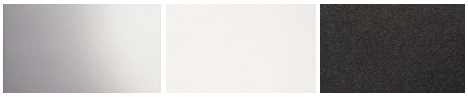
Ceiling Cutout: ø5″

REFLECTOR FINISH DETAILS

CS
Clear semi-specular

WH
White

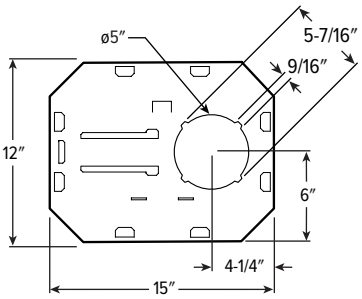
BL
Black



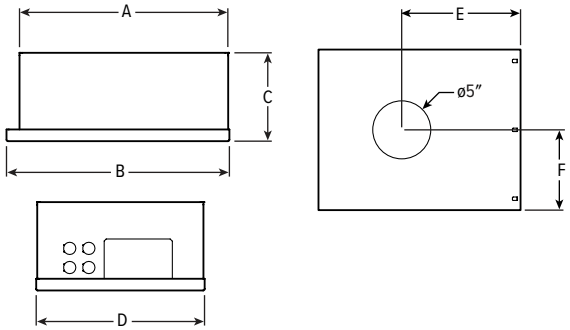
MOUNTING TYPE DETAILS

Flex conduit is recommended for installation.

NEW CONSTRUCTION



IC-RATED



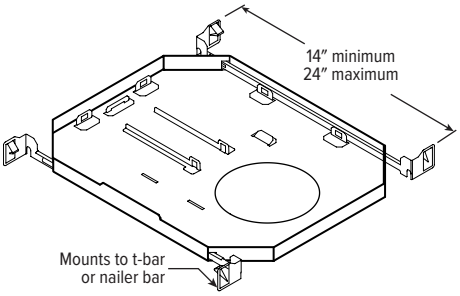
	LENGTH					
LUMENS	A	B	C	D	E	F
L7 - L14	15-3/16″	16″	6-3/8″	12-1/8″	9-1/2″	6-1/16″
L20	16-5/8″	17-1/2″	7-7/8″	14″	10-1/4″	7″

MOUNTING DETAILS CONTINUED ON NEXT PAGE.

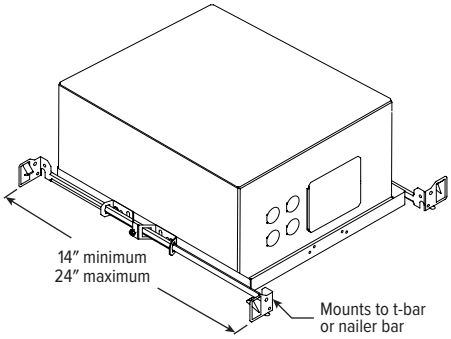
V4DR LED
4.5″ Vandal-Resistant Downlight – Round

MOUNTING HARDWARE DETAILS

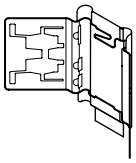
F1 Integral 2-position fixed pan bracket, universal bar hanger included



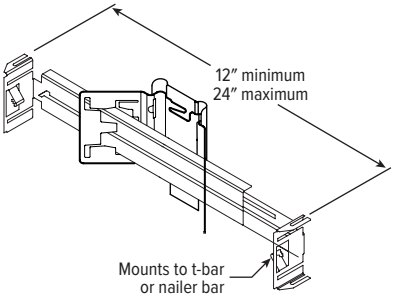
F1 with I Mounting Type



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



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



ADDITIONAL DRIVER OPTIONS

Lumen restrictions apply: L27 max for DMX and Lutron drivers. L34 max for DALI driver. 347V may require stepdown transformer, see product builder at hew.com/product-builder. I Mounting Type not available with Lutron controls.

CATALOG NUMBER	DESCRIPTION
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)
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 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