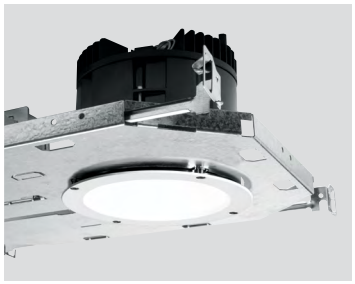
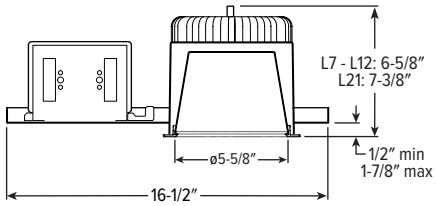
V6DR dim to WARM
6″ Vandal-Resistant Downlight – Round





CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT · CCEA Approved · IP65 Rated · ISO 5 Class 100 · WET/CC

ORDERING EXAMPLE: V6DR - TL - L12/9DW - OPTIONS - DIM1 - UNV - LW - OF - CS - TRIM OPTIONS - N - F1
(HOUSING: V6DR - TL - L12/9DW - OPTIONS - DIM1 - UNV | TRIM: LW - OF - CS - TRIM OPTIONS | MOUNT.: N - F1)

HOUSING

SERIES
V6DR

LUMENS [1]
L7 700lm
L12 1,200lm
L21 2,100lm

COLOR
9DW Dim to warm (95 CRI, 1800K – 3000K)

OPTIONS
ATH Airtight construction
F Fuse
CP Chicago plenum (CCEA) [2]
EM/7W 7-watt emergency battery [3]
EM/10W 10-watt emergency battery [4]
SDT Stepdown transformer [5]
TC Thick ceiling construction [6]

CONTROL
DIM1 1% dimming driver 0-10V signal to control dimming and CCT)
LUT Lutron Ecosystem enabled [7]

VOLTAGE
UNV 120-277V
347 347V [8]

TRIM

TRIM TYPE
L Flush lens
R Regressed lens

DISTRIBUTION [9]
W Wide
55° Flush
55° Regressed
M Medium
35° Flush
35° Regressed
N Narrow
25° Flush
25° Regressed

FLANGE TYPE
OF 1/2″ standard flange

REFLECTOR FINISH
CS Clear semi-specular powder coat
WH White texture powder coat
BL Black texture powder coat
MB Black texture splay with white flange [10]

TRIM OPTIONS
MWT Smooth matte white trim flange [11]
IP IP65 rated trim
PD Diffuse 1/8″ polycarbonate lens [12]
WET/CC Wet location, covered ceiling listed
AM Anti-microbial [13]

MOUNTING

MOUNTING TYPE [14]
N Open pan for new construction
I IC-rated enclosure for new construction [16]

MOUNTING HARDWARE [15]
F1 Integral 2-position fixed pan bracket, universal bar hanger included [17]
BA1 Adjustable butterfly pan bracket, bar hanger not included [18]
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included [19]

ACCESSORIES

TPTX-10 TOOL T10 torx bit 1/4″ drive tamper-resistant tool. [20]

NOTES

1 Lumen output based on L Trim Type, W Distribution, WH Reflector Finish, 95 CRI/3000K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
2 I Mounting Type required.
3 Specify CEC in the option code when California Energy Commission regulations are required.
4 Specify CEC in the option code when California Energy Commission regulations are required.
5 May be required for 347V, see product builder at hew.com/product-builder
6 Required for ceiling thicknesses greater than 1-1/4″.
7 Not available with I Mounting Type.
8 Not available with EM batteries.
9 Beam angle based on CS or WH Reflector Finish.
10 R Trim Type only. Not available with MWT.
11 Not available with WH Reflector Finish or L Trim Type.
12 W Distribution only.
13 WH and BL Reflector Finishes only.
14 Mounting hardware required), ordered separately, see MOUNTING HARDWARE ordering info. See page 3 for MOUNTING TYPE DETAILS.
15 Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
16 L12 lumen package max. Not available with EM batteries
17 I Mounting requires external brackets.
18 N Mounting Type only.
19 N Mounting Type only.
20 Tamper-resistant tool must be ordered separately. Please specify quantity required per project.

V6DR dim to WARM
6" Vandal-Resistant Downlight – Round

FEATURES

- Mimic the comfortable, welcoming glow of incandescents with warm-dimming technology
- 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 55° wide for tailored performance
- Die-cast trim choices include flush or regressed 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
- 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.
- 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 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.
  - 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.
  - IP65 rated trim when specified with IP 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

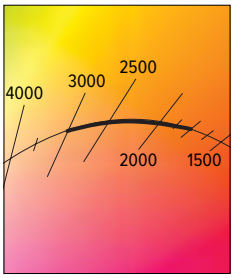
FIXTURE PERFORMANCE DATA

FLUSH LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	WATTAGE	EFFICACY (lm/W)
L7	W	680	3000K	1800K	14.0	49
	M	733			14.0	52
	N	738			14.0	53
L12	W	1192			23.4	51
	M	1285			23.4	55
	N	1293			23.4	55
L21	W	1953			37.7	52
	M	2101			37.7	56
	N	2118			37.7	56

REGRESSED LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	WATTAGE	EFFICACY (lm/W)
L7	W	659	3000K	1800K	14.0	47
	M	713			14.0	51
	N	719			14.0	51
L12	W	1154			23.4	49
	M	1250			23.4	53
	N	1260			23.4	54
L21	W	1890			37.7	50
	M	2048			37.7	54
	N	2064			37.7	55



- Photometrics tested in accordance with IESNA LM-79. Results based on L Trim Type, W Distribution, WH Reflector Finish, 95 CRI/3000K CCT, 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 table to calculate additional options.

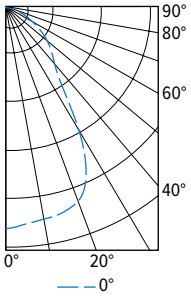
MULTIPLIER TABLE

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

PHOTOMETRY

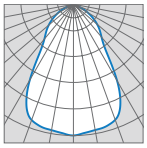
V6DR-L12/9DW-DIM1-UNV-LW-OF-WH Total Luminaire Output: 1192 lumens; 23.4 Watts | Efficacy: 50.9 lm/W | 95 CRI; 3000K CCT

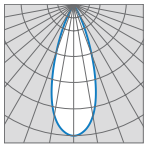


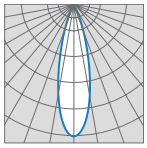
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
	0	758	
	5	746	71
	15	728	205
	25	628	282
	35	321	209
	45	215	166
	55	145	130
	65	81	81
	75	36	39
	85	8	9
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	767	64
	0 - 60	1063	89
	0 - 90	1192	100
	0 - 180	1192	100

FLUSH







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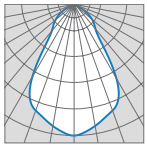

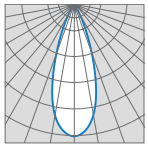

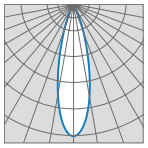

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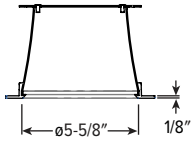
TRIM TYPE DETAILS

FLUSH



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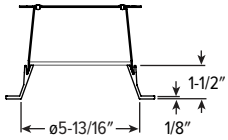
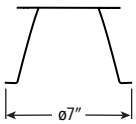


FLANGE TYPE DETAILS



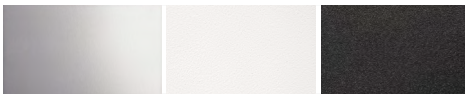
Ceiling Cutout: ø6-1/2"

REFLECTOR FINISH DETAILS

CS
Clear semi-specular

WH
White

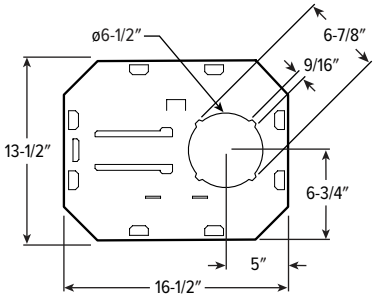
BL
Black



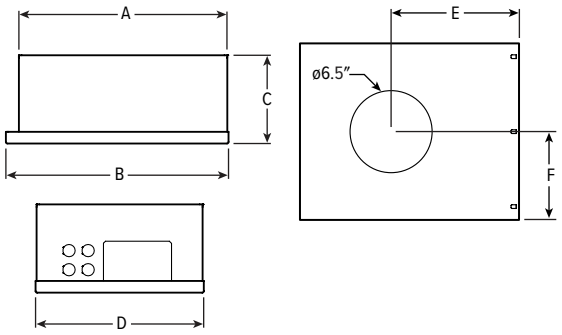
MOUNTING TYPE DETAILS

Flex conduit is recommended for installation.

NEW CONSTRUCTION



IC-RATED

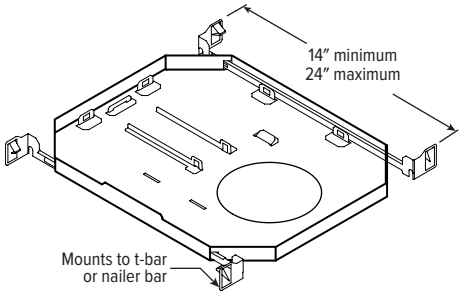


	LENGTH					
LUMENS	A	B	C	D	E	F
L7 - L12	15-3/16"	16"	6-3/8"	12-1/8"	9-1/2"	6-1/16"

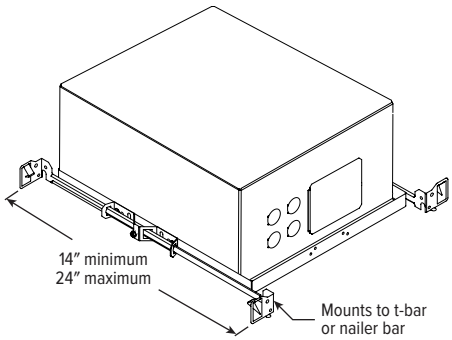
MOUNTING DETAILS CONTINUED ON NEXT PAGE.

MOUNTING HARDWARE DETAILS

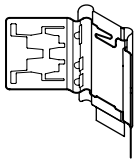
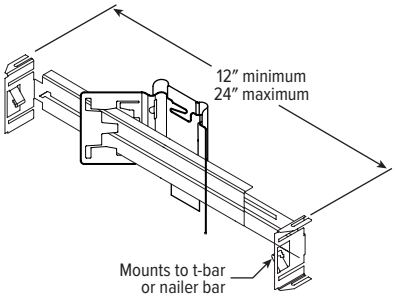
F1 Integral 2-position fixed pan bracket, universal bar hanger included



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)