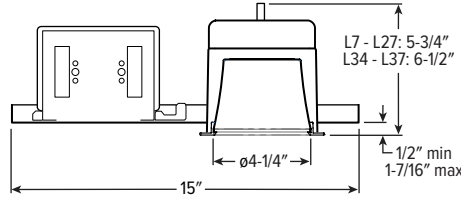


# V4DR LED 4.5" Vandal-Resistant Downlight – Round



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

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

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

## FEATURES

- Ideal for schools, hallways, dormitories, locker rooms, or other vandal prone areas
- 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
- Easily adjust mounting arms below ceiling to adapt to a range of ceiling thicknesses

ORDERING EXAMPLE: **V4DR - L14/835 - OPTIONS - DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1**

## HOUSING

SERIES	LUMENS <sup>[1]</sup>	CRI	CCT	OPTIONS	CONTROL <sup>[2]</sup>	VOLTAGE
V4DR	L7 700lm <sup>[3]</sup>	8 80	27 2700K	ATH Airtight construction	DIM Dimming driver, 0-10V	UNV 120-277V
	L10 1,000lm	9 90 <sup>[4]</sup>	30 3000K	F Fuse	DIM1 1% Dimming driver, 0-10V	347 347V <sup>[9]</sup>
	L14 1,400lm		35 3500K	EM/7W 7-watt emergency battery <sup>[5]</sup>		
	L20 2,000lm		40 4000K	EM/10W 10-watt emergency battery <sup>[6]</sup>		
	L27 2,700lm		50 5000K	CP Chicago plenum (CCEA) <sup>[7]</sup>		
	L34 3,400lm			SDT Stepdown transformer <sup>[8]</sup>		
	L37 3,700lm					

## 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" – 2-1/4".
- LENSED TRIM – Die-cast aluminum frame with micro-prismatic, polycarbonate lens with 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. 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 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).

## TRIM

TRIM TYPE	DISTRIBUTION <sup>[10]</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	W Wide	OF 1/2" standard flange	WH White texture powder coat	MWT Textured white trim flange <sup>[14]</sup>
R Regressed lens	50° Flush		CS Clear semi-specular powder coat	IP IP65 rated trim
	50° Regressed		BL Black texture powder coat	PD Diffuse 1/8" polycarbonate lens <sup>[15]</sup>
	M Medium <sup>[11]</sup>		MB Black texture splay with white flange <sup>[13]</sup>	WET/CC Wet location, covered ceiling listed
	35° Flush			AM Anti-microbial <sup>[16]</sup>
	30° Regressed			
	N Narrow <sup>[12]</sup>			
	25° Flush			
	25° Regressed			

## MOUNTING

MOUNTING TYPE <sup>[17]</sup>	MOUNTING HARDWARE <sup>[18]</sup>
N Open pan for new construction	F1 Integral 2-position fixed pan bracket, universal bar hanger included <sup>[20]</sup>
I IC-rated enclosure for new construction <sup>[19]</sup>	BA1 Adjustable butterfly pan bracket, bar hanger not included <sup>[21]</sup>
	CA1 Adjustable caterpillar pan bracket, universal bar hanger included <sup>[22]</sup>

## ACCESSORIES

TPTX-10 TOOL T10 torx bit 1/4" drive tamper-resistant tool.<sup>[23]</sup>

## NOTES

- <sup>1</sup> Lumen output based on L trim type, W distribution and WH finish, 3500K/80CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- <sup>2</sup> See page 3 for ADDITIONAL CONTROL OPTIONS.
- <sup>3</sup> Not available with EM/10W emergency batteries.
- <sup>4</sup> Extended lead times may apply. Consult factory for availability.
- <sup>5</sup> N Mounting Type only.
- <sup>6</sup> N Mounting Type only.
- <sup>7</sup> I Mounting Type required.
- <sup>8</sup> May be required for 347V, see product builder at [hew.com/product-builder](http://hew.com/product-builder)
- <sup>9</sup> Not available with EM batteries or DMX controls.
- <sup>10</sup> Beam angle based on WH reflector finish.
- <sup>11</sup> Not available with L34 and L37 lumen packages.
- <sup>12</sup> Not available with L34 and L37 lumen packages.
- <sup>13</sup> R Trim Type only. Not available with MWT.
- <sup>14</sup> Not available with WH Reflector Finish or L Trim Type.
- <sup>15</sup> W distribution only.
- <sup>16</sup> WH and BL Reflector Finishes only.
- <sup>17</sup> Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 3 for MOUNTING TYPE DETAILS.
- <sup>18</sup> Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
- <sup>19</sup> L14 lumen package max. L20 available, W distribution only.
- <sup>20</sup> I Mounting requires external brackets.
- <sup>21</sup> N Mounting Type only.
- <sup>22</sup> N Mounting Type only.
- <sup>23</sup> Tamper-resistant tool must be ordered separately. Please specify quantity required per project.

# V4DR LED 4.5" Vandal-Resistant Downlight – Round

## FIXTURE PERFORMANCE DATA

### FLUSH LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L7	W	674	10.7	63.0
	M	895	10.7	83.6
	N	914	10.7	85.4
L10	W	994	16.1	61.7
	M	1319	16.1	81.9
	N	1347	16.1	83.7
L14	W	1352	21.7	62.3
	M	1794	21.7	82.7
	N	1833	21.7	84.5
L20	W	2022	31.1	65.0
	M	2683	31.1	86.3
	N	2741	31.1	88.1
L27	W	2695	44.2	61.0
	M	3577	44.2	80.9
	N	3654	44.2	82.7
L34	W	3364	51.4	65.4
	M	-	-	-
	N	-	-	-
L37	W	3678	58.6	62.8
	M	-	-	-
	N	-	-	-

### REGRESSED LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L7	W	660	10.7	61.7
	M	895	10.7	83.6
	N	882	10.7	82.4
L10	W	972	16.1	60.4
	M	1319	16.1	81.9
	N	1300	16.1	80.7
L14	W	1232	21.7	56.8
	M	1795	21.7	82.7
	N	1769	21.7	81.5
L20	W	1979	31.1	63.6
	M	2685	31.1	86.3
	N	2646	31.1	85.1
L27	W	2638	44.2	59.7
	M	3579	44.2	81.0
	N	3527	44.2	79.8
L34	W	3292	51.4	64.0
	M	-	-	-
	N	-	-	-
L37	W	3599	58.6	61.4
	M	-	-	-
	N	-	-	-

### MULTIPLIER TABLES

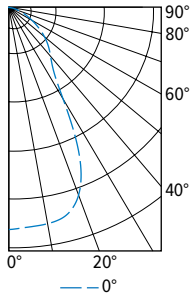
COLOR TEMPERATURE		
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.92
	3000K	0.98
	3500K	1.00
	4000K	1.01
	5000K	1.02
90 CRI	2700K	0.76
	3000K	0.79
	3500K	0.82
	4000K	0.84
	5000K	0.88

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
PD	0.85

- 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 3500K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier tables to calculate additional options.

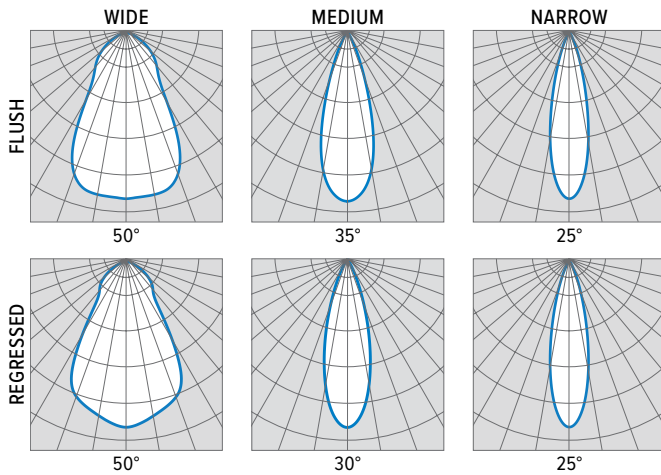
## PHOTOMETRY

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	ZONAL LUMENS
		0°	
	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



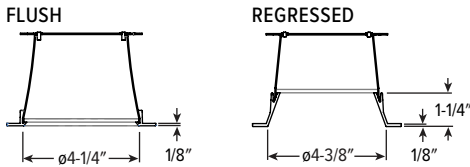
# V4DR LED 4.5" Vandal-Resistant Downlight – Round

## ADDITIONAL CONTROL OPTIONS

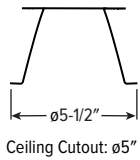
Lumen restrictions apply: L27 max for DMX driver, L27 max for Lutron drivers, L34 max for ELDO drivers. 347V may require stepdown transformer, see product builder at [hew.com/product-builder](http://hew.com/product-builder). I Mounting Type not available with Lutron controls.

CATALOG NUMBER	DESCRIPTION
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)
DMX	0.1% dimming driver for DMX controls
LTE LINE	Lutron Hi-lume 1% 2-wire dimming driver forward phase line voltage controls (120V only)
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
VRF/DBI/LDE1	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), Lutron Hi-lume 1% EcoSystem dimming LED driver, and digital link interface
FCJS/DIM	Lutron Vive PowPak wireless fixture control with dimming driver
FCJS/DIM1	Lutron Vive PowPak wireless fixture control with 1% dimming driver
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls

## TRIM TYPE DETAILS



## FLANGE TYPE DETAILS

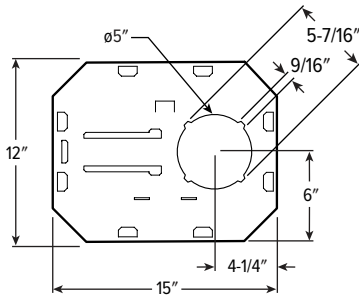


## REFLECTOR FINISH DETAILS

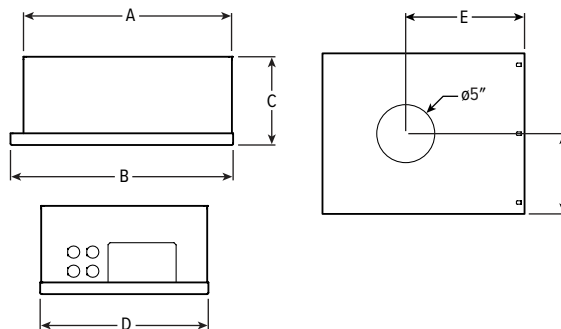


## MOUNTING TYPE DETAILS

### NEW CONSTRUCTION



### IC-RATED



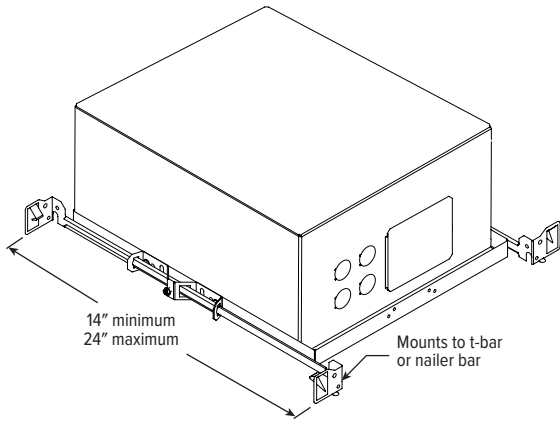
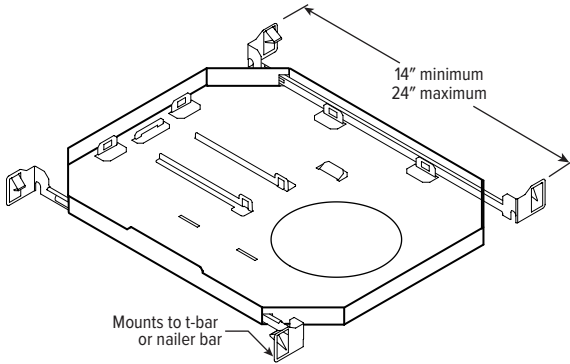
LUMENS	LENGTH					
	A	B	C	D	E	F
L7 - L14	15-3/16"	16"	6-3/8"	12-1/8"	9-1/2"	6-1/16"
L20	16-5/8"	17-1/2"	7-7/8"	14"	10-1/4"	7"



# V4DR<sup>LED</sup> 4.5" Vandal-Resistant Downlight – Round

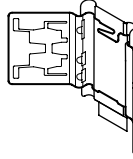
## MOUNTING HARDWARE DETAILS

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

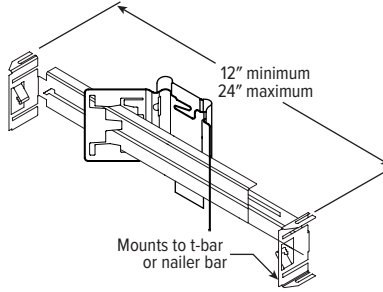


F1 with I Mounting Type

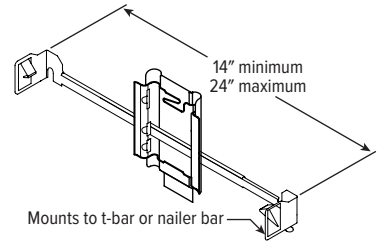
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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



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



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

