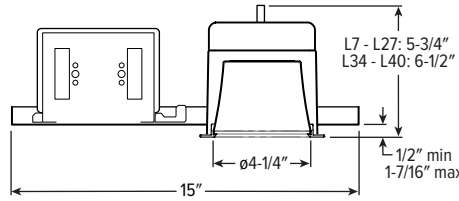


V4DR LED 4.5" Vandal-Resistant Downlight – Round



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, regressed or angled lens
- Industry-leading efficacies as high as 100 lm/W
- 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 ^[1]	CRI	CCT	OPTIONS	CONTROL ^[2]	VOLTAGE
V4DR	L7 700lm	8 80	27 2700K	ATH Airtight construction	DIM Dimming driver, 0-10V	UNV 120-277V
	L10 1,000lm	9 90 ^[3]	30 3000K	F Fuse	DIM1 1% Dimming driver, 0-10V	347 347V ^[9]
	L14 1,400lm		35 3500K	EM/7W 7-watt emergency battery ^[4]		
	L20 2,000lm		40 4000K	EM/10W 10-watt emergency battery ^[5]		
	L27 2,700lm		50 5000K	CP Chicago plenum (CCEA) ^[6]		
	L34 3,400lm			SDT Stepdown transformer ^[7]		
	L40 4,000lm			TC Adjustable mounting arms for 1-1/2" – 2-1/4" thick ceilings		
				TP10 T10 torx bit 1/4" drive tamper-resistant tool ^[8]		

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 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 L40 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.

TRIM

TRIM TYPE	DISTRIBUTION ^[10]	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 ^[16]
R Regressed lens	50° Flush		CS Clear semi-specular powder coat	IP IP65 rated trim
A Angled lens ^[11]	50° Regressed		BL Black texture powder coat	PD Diffuse 1/8" polycarbonate lens ^[17]
	M Medium ^[12]		MB Black texture splay with white flange ^[15]	WET/CC Wet location, covered ceiling listed
	35° Flush			AM Anti-microbial ^[18]
	30° Regressed			
	N Narrow ^[13]			
	25° Flush			
	25° Regressed			
	WW Wall wash ^[14]			

MOUNTING

MOUNTING TYPE^[19]

- N** Open pan for new construction
- I** IC-rated enclosure for new construction^[21]

MOUNTING HARDWARE^[20]

- F1** Integral 2-position fixed pan bracket, universal bar hanger included
- BA1** Adjustable butterfly pan bracket, bar hanger not included^[22]
- CA1** Adjustable caterpillar pan bracket, universal bar hanger included^[23]

NOTES

- ¹ 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.
- ² See page 3 for ADDITIONAL CONTROL OPTIONS.
- ³ Extended lead times may apply. Consult factory for availability.
- ⁴ N Mounting Type only.
- ⁵ N Mounting Type only.
- ⁶ I Mounting Type required.
- ⁷ May be required for 347V, see product builder at hew.com/product-builder
- ⁸ Tamper-resistant (TP10) tool must be ordered separately. Please specify quantity required per project.
- ⁹ Not available with EM batteries or DMX controls.
- ¹⁰ Beam angle based on WH reflector finish.
- ¹¹ Available with WW Distribution only.
- ¹² Not available with lumen stops L34 and higher when specified with flush or regressed trim types.
- ¹³ Not available with lumen stops L34 and higher when specified with flush or regressed trim types.
- ¹⁴ A Trim Type only.
- ¹⁵ R Trim Type only. Not available with MWT.
- ¹⁶ Not available with WH Reflector Finish or L Trim Type.
- ¹⁷ W distribution only.
- ¹⁸ WH and BL Reflector Finishes only.
- ¹⁹ Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- ²⁰ Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
- ²¹ L14 lumen package max. L20 available, W distribution only.
- ²² N Mounting Type only.
- ²³ N Mounting Type only.



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	9.0	74.6
	M	895	9.0	99.0
	N	914	9.0	101.2
L10	W	994	13.9	71.7
	M	1319	13.9	95.1
	N	1347	13.9	97.2
L14	W	1352	19.8	68.3
	M	1794	19.8	90.6
	N	1833	19.8	92.6
L20	W	2022	27.8	72.7
	M	2683	27.8	96.5
	N	2741	27.8	98.6
L27	W	2695	38.0	70.9
	M	3577	38.0	94.1
	N	3654	38.0	96.2
L34	W	3364	45.2	74.4
	M	-	-	-
	N	-	-	-
L40	W	4042	58.6	69.0
	M	-	-	-
	N	-	-	-

REGRESSED LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L7	W	660	9.0	73.0
	M	895	9.0	99.1
	N	882	9.0	97.7
L10	W	972	13.9	70.2
	M	1319	13.9	95.2
	N	1300	13.9	93.8
L14	W	1323	19.8	66.2
	M	1795	19.8	90.8
	N	1769	19.8	88.5
L20	W	1979	27.8	71.1
	M	2685	27.8	96.5
	N	2646	27.8	95.1
L27	W	2638	38.0	69.4
	M	3579	38.0	94.2
	N	3527	38.0	92.8
L34	W	3292	45.2	72.8
	M	-	-	-
	N	-	-	-
L40	W	3955	58.6	67.5
	M	-	-	-
	N	-	-	-

MULTIPLIER TABLES

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
	80 CRI	2700K
	3000K	0.98
	3500K	1.00
	4000K	1.01
	5000K	1.02

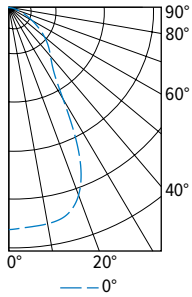
90 CRI	2700K	0.76
	3000K	0.79
	3500K	0.82
	4000K	0.84
	5000K	0.88

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
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

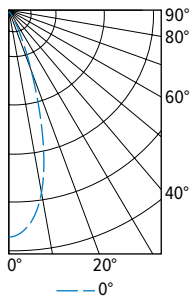
V4DR-L14/835-DIM-UNV-LW-OF-WH Total Luminaire Output: 1352 lumens; 19.8 Watts | Efficacy: 68.3 lm/W | 80CRI; 3500K CCT



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-L14/835-DIM-UNV-LM-OF-WH Total Luminaire Output: 1794 lumens; 19.8 Watts | Efficacy: 90.6 lm/W | 80CRI; 3500K CCT



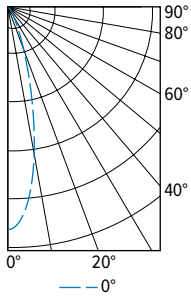
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	4642	
	5	4443	297
	15	2727	340
	25	737	132
	35	193	50
	45	88	32
	55	56	23
	65	34	15
	75	17	7
	85	3	1
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1618	90
	0-60	1738	97
	0-90	1794	100
	0-180	1794	100



V4DR LED 4.5" Vandal-Resistant Downlight – Round

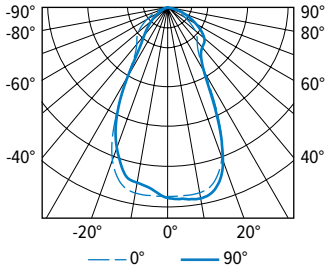
V4DR-L14/835-DIM-UNV-LN-OF-WH Total Luminaire Output: 1833 lumens; 19.8 Watts | Efficacy: 92.6 lm/W | 80CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	6885	
	5	6211	383
	15	2650	312
	25	625	110
	35	164	44
	45	78	28
	55	47	20
	65	29	13
	75	14	6
	85	3	1
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1682	92
	0-60	1786	97
	0-90	1833	100
	0-180	1833	100

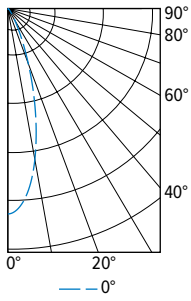
V4DR-L14/835-DIM-UNV-AWW-OF-WH Total Luminaire Output: 1022 lumens; 19.8 Watts | Efficacy: 51.6 lm/W | 80CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
		0°	45°	90°	135°	180°	
	0	866	866	866	866	866	
	5	876	875	862	842	828	61
	15	842	823	815	795	763	124
	25	484	462	506	534	516	102
	35	257	241	236	237	204	72
	45	228	212	184	144	120	67
	55	180	159	121	82	64	49
	65	109	90	59	36	24	26
	75	51	36	19	10	10	9
	85	10	4	2	3	2	1
	90	0	0	0	1	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	684	67
	0 - 60	930	91
	0 - 90	1022	100
	0 - 180	1022	100

V4DR-L14/835-DIM-UNV-RM-OF-WH Total Luminaire Output: 1795 lumens; 19.8 Watts | Efficacy: 90.8 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	5176	
	5	4824	311
	15	2680	342
	25	786	140
	35	194	49
	45	75	26
	55	42	17
	65	22	9
	75	9	4
	85	2	1
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1663	93
	0-60	1761	98
	0-90	1796	100
	0-180	1796	100

ADDITIONAL CONTROL OPTIONS

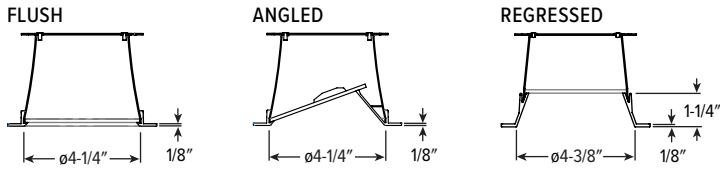
Lumen restrictions apply: L27 max for DMX driver, L27 max for Lutron drivers, L34 max for ELDO drivers. 347V may require stepdown transformer, see product builder at hew.com/product-builder.

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
LDE5	Lutron 5-Series 5% EcoSystem dimming LED driver
VRF/DSR	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and sensor-ready 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
VRF/DBI/LDE5	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), Lutron 5-Series 5% 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

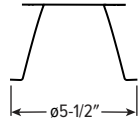


V4DR LED 4.5" Vandal-Resistant Downlight – Round

TRIM TYPE DETAILS



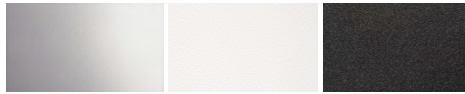
FLANGE TYPE DETAILS



Ceiling Cutout: $\phi 5"$

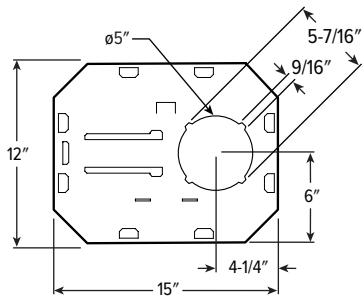
REFLECTOR FINISH DETAILS

CS Clear semi-specular
WH White
BL Black

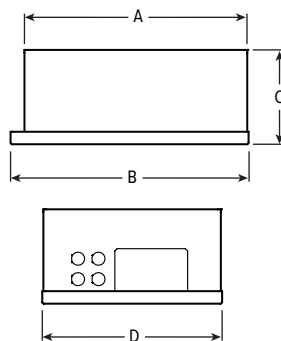


MOUNTING TYPE DETAILS

NEW CONSTRUCTION



IC-RATED



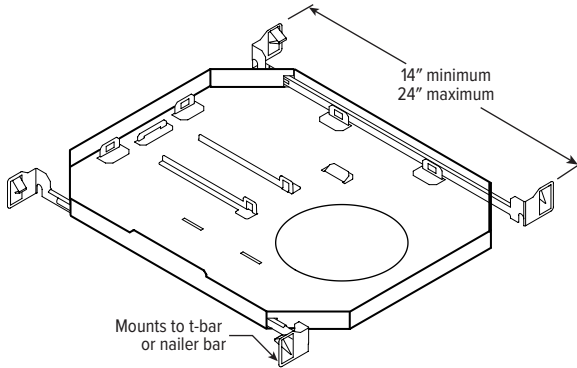
LUMENS	LENGTH			
	A	B	C	D
L7 - L14	15-3/16"	16"	6-3/8"	12-1/8"
L20	16-5/8"	17-1/2"	7-7/8"	14"



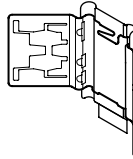
V4DR^{LED} 4.5" Vandal-Resistant Downlight – Round

MOUNTING HARDWARE DETAILS

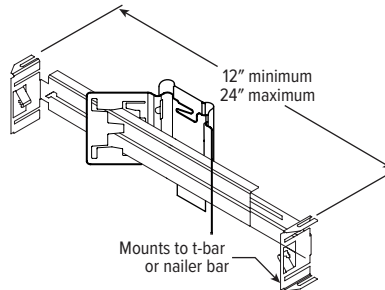
F1 Integral 2-position fixed pan bracket, universal bar hanger included



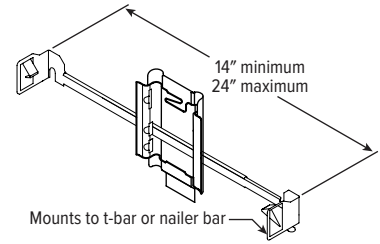
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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)

