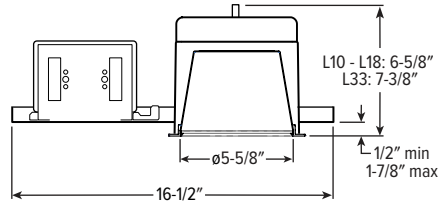
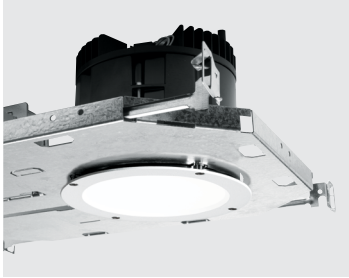


# V6DR tunable WHITE

## 6" Vandal-Resistant Downlight – Round



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

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

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



ORDERING EXAMPLE: V6DR - L18/8TW - OPTIONS - DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1

### HOUSING

SERIES	LUMENS <sup>[1]</sup>	COLOR	OPTIONS	CONTROL <sup>[2]</sup>	VOLTAGE
V6DR	L10 1,000lm L18 1,800lm L33 3,300lm	8TW Tunable white (80 CRI, 2700K-5000K)	ATH Airtight construction CP Chicago plenum (CCEA) <sup>[3]</sup> EM/7W 7-watt emergency battery <sup>[4]</sup> EM/10W 10-watt emergency battery <sup>[5]</sup> F Fuse kit TC Thick ceiling construction <sup>[6]</sup>	DALI Driver prewired for DALI applications DIM Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT DMX Driver prewired for DMX applications PSQ Lutron T-Series 2-channel tunable white 1%. <sup>[7]</sup>	UNV 120-277V

### TRIM

TRIM TYPE	DISTRIBUTION <sup>[8]</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens R Regressed lens	W Wide 55° Flush 55° Regressed M Medium <sup>[9]</sup> 35° Flush 35° Regressed N Narrow <sup>[10]</sup> 25° Flush 25° Regressed	OF 1/2" standard flange	CS Clear semi-specular powder coat WH White texture powder coat BL Black texture powder coat MB Black texture splay with white flange <sup>[11]</sup>	MWT Textured white trim flange <sup>[12]</sup> IP IP65 rated trim PD Diffuse 1/8" polycarbonate lens <sup>[13]</sup> WET/CC Wet location, covered ceiling listed AM Anti-microbial <sup>[14]</sup>

### MOUNTING

MOUNTING TYPE <sup>[15]</sup>	MOUNTING HARDWARE <sup>[16]</sup>
N Open pan for new construction I IC-rated enclosure for new construction <sup>[17]</sup>	F1 Integral 2-position fixed pan bracket, universal bar hanger included <sup>[18]</sup> BA1 Adjustable butterfly pan bracket, bar hanger not included <sup>[19]</sup> CA1 Adjustable caterpillar pan bracket, universal bar hanger included <sup>[20]</sup>

### ACCESSORIES

TPTX-10 TOOL T10 torx bit 1/4" drive tamper-resistant tool. <sup>[21]</sup>

### NOTES

- <sup>1</sup> Lumen output based on L trim type, W distribution, WH finish, 80 CRI/4000K CCT. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- <sup>2</sup> See page 3 for CONTROL DETAILS.
- <sup>3</sup> I Mounting Type required.
- <sup>4</sup> Specify CEC in the option code when California Energy Commission regulations are required.
- <sup>5</sup> Specify CEC in the option code when California Energy Commission regulations are required.
- <sup>6</sup> Required for ceiling thicknesses greater than 1-1/4"
- <sup>7</sup> Not available with I Mounting Type.
- <sup>8</sup> Beam angle based on WH reflector finish.
- <sup>9</sup> Not available with L33 lumen package.
- <sup>10</sup> Not available with L33 lumen package.
- <sup>11</sup> R Trim Type only.

- <sup>12</sup> Not available with WH Reflector Finish.
- <sup>13</sup> W distribution only.
- <sup>14</sup> WH and BL Reflector Finishes only.
- <sup>15</sup> Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- <sup>16</sup> Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
- <sup>17</sup> L10 and L18 lumen packages only. Not available with EM batteries.
- <sup>18</sup> I Mounting requires external brackets.
- <sup>19</sup> N Mounting Type only.
- <sup>20</sup> N Mounting Type only.
- <sup>21</sup> Tamper-resistant tool must be ordered separately. Please specify quantity required per project.





# V6DR tunable WHITE 6" Vandal-Resistant Downlight – Round

## FEATURES

- Support human-centric design with adaptive, individualized lighting using tunable white light
- 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

## 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 LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>50,000 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. Remodel kit option includes receiver bracket hardware. Minimum 24" O.C. marked spacing required for L33 lumen package.

- 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.
  - Complies with ASTM-E283 when specified with ATH option.
  - RoHS compliant.
  - Complies with the Buy American Act and other federal regulations. Request certification at [hew.com/baa](http://hew.com/baa).
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

## FIXTURE PERFORMANCE DATA

### FLUSH LENS TRIM TYPE

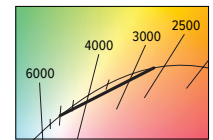
	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	1044	14.6	72
	M	1122	14.6	77
	N	1133	14.6	78
L18	W	1806	24.0	75
	M	1948	24.0	81
	N	1958	24.0	82
L33	W	3308	44.9	74
	M	–	–	–
	N	–	–	–

### REGRESSED LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	1010	14.6	69
	M	1088	14.6	75
	N	1103	14.6	76
L18	W	1748	24.0	73
	M	1894	24.0	79
	N	1909	24.0	80
L33	W	3202	44.9	71
	M	–	–	–
	N	–	–	–

### MULTIPLIER TABLES

COLOR TEMPERATURE		
CCT	LUMENS	WATTS
2700K	0.83	1.03
3000K	1.00	1.00
3500K	0.99	0.99
4000K	1.00	1.00
5000K	0.98	1.03



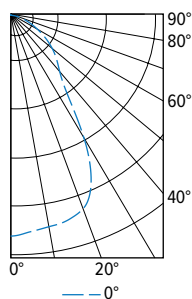
TRIM	
CATALOG NUMBER	CONVERSION FACTOR
PD	0.85

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

- Photometrics tested in accordance with IESNA LM-79. Results based on L trim type, W distribution, WH finish, 80 CRI/4000K 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 tables to calculate additional options.

## PHOTOMETRY

V6DR-L18/8TW-DIM-UNV-LW-OF-WH Total Luminaire Output: 1806 lumens; 24.0 Watts | Efficacy: 75.3 lm/W | 80 CRI; 4000K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
	0	1149	
	5	1131	108
	15	1104	311
	25	952	427
	35	486	317
	45	325	251
	55	220	196
	65	123	123
	75	55	59
	85	12	14
	90	1	

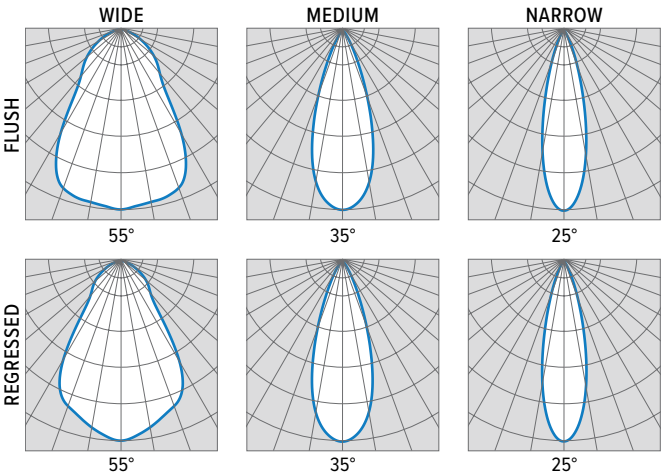
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1163	64
	0 - 60	1611	89
	0 - 90	1806	100
	0 - 180	1806	100



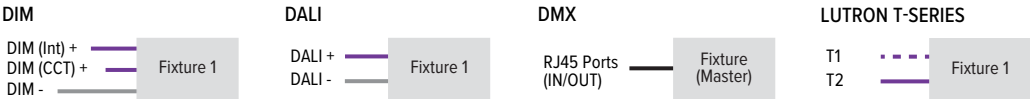
V6DR

tunable WHITE

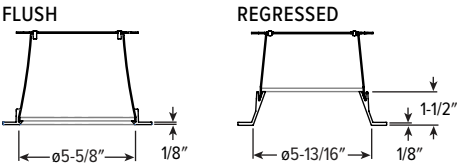
6" Vandal-Resistant Downlight – Round



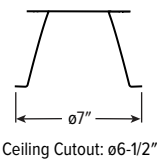
CONTROL DETAILS



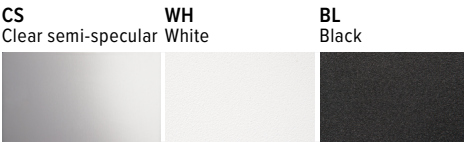
TRIM TYPE DETAILS



FLANGE TYPE DETAILS



REFLECTOR FINISH DETAILS

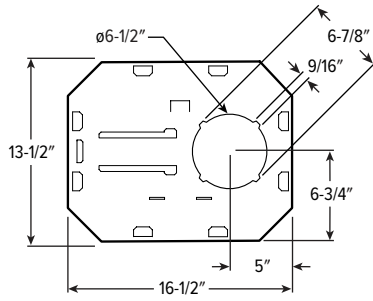




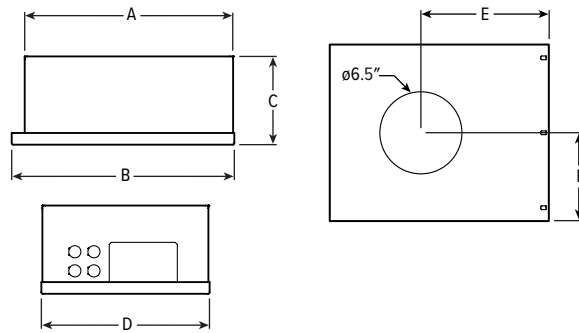
# V6DR tunable WHITE 6" Vandal-Resistant Downlight – Round

## MOUNTING TYPE DETAILS

### NEW CONSTRUCTION



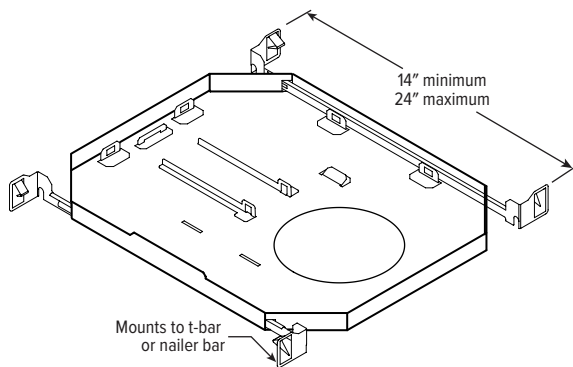
### IC-RATED



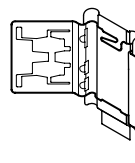
LUMENS	LENGTH					
	A	B	C	D	E	F
L10	15-3/16"	16"	6-3/8"	12-1/8"	9-1/2"	6-1/16"
L18	16-5/8"	17-1/2"	7-7/8"	14"	10-1/4"	7"

## MOUNTING HARDWARE DETAILS

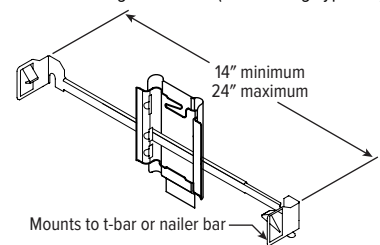
**F1** Integral 2-position fixed pan bracket, universal bar hanger included



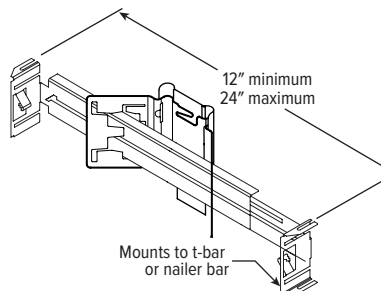
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



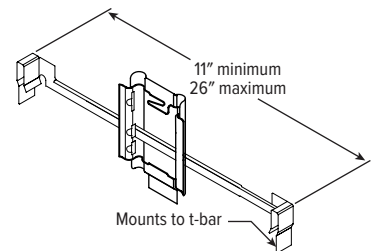
**CA1** Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



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



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



F1 with I Mounting Type

