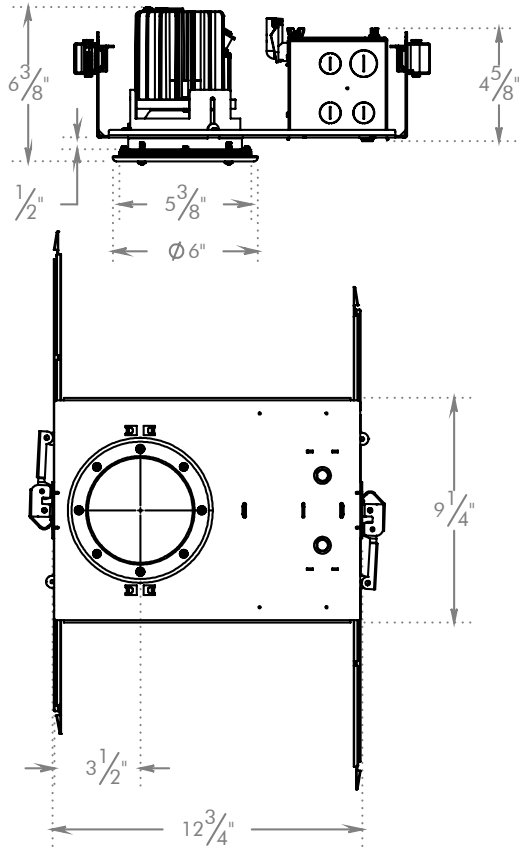




NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
4000	4137	44W
3000	3326	39W
2000	1963	25W
1000	1103	12W

Based on 4000K, 90+CRI with semi-specular chrome reflector.
Actual wattage may vary +/-5%

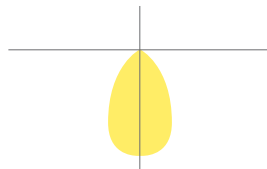
FEATURES

HL4-IP-VR is a sealed recessed LED downlight designed for vandal-resistant or cleanroom environments. The cleanroom-style construction provides a smooth, easy-to-maintain surface and an architectural look. A one-piece gasket inserted between the trim ring and housing completely seals the lens to the housing, meeting ISO 5, Class 100 requirements. An MIL-STD-461G certification makes the HL4-IP-VR suitable for environments requiring conducted emission mitigation. Antimicrobial white finish is optional. Fixture is IP65 dust and water resistant.

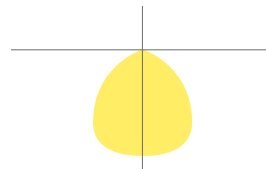
LUMENS	1000, 2000, 3000, 4000 (Custom lumen packages available)
CCT & DYNAMIC PLATFORMS	22K, 27K, 30K, 35K, 40K, 50K * Tunable White, Dims to Warm
CRI	90+ Standard, 98+ Optional
COLOR QUALITY	2 Step MacAdam Ellipse
DISTRIBUTION	MD (Medium Distribution), WD (Wide)
TRIM OPTIONS	Downlight
REFLECTOR COLORS	CL (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), WH (White)
TRIM RING COLOR	WH (White), SS (Stainless Steel), WH-AN (White Antimicrobial)
DIMMING	0-10V Flicker Free 1% Dimming Standard (DIM10), LUTH, ELDO10.1, DIMTR, LUT2W (Up to 40W)
EMERGENCY	10W - Up to 1000L Output 20W - Up to 2000L Output
LIFETIME	L70 at 102,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM-79-08, LM-80 and TM-30, TM-21

* Available on 85+ CRI only.

MD: Medium
Candlepower Distribution (Candelas)



WD: Wide
Candlepower Distribution (Candelas)



THERMAL MANAGEMENT SYSTEM

Passive cooling Diecast Aluminum Heat Sink, LED light engine and driver are replaceable, upgradeable, and can be accessed from below the ceiling. The consistency in the quality of light is delivered with precision performance by the use of a unique locking mechanism that aligns the reflector with the light engine.

MOUNTING FRAME & BRACKET

16-gauge steel construction with C-channel mounting brackets standard. The mounting bracket adjusts up to 28" horizontally and 2-3/4" vertically. After achieving required length, integral locking screws lock brackets securely into place. Die-formed construction of the mounting frame provides maximum heat dissipation and rust protection.

DRIVER ELECTRICAL INFORMATION

The LED driver is rated for 50 to 60Hz at 120V/277V, also available in 347V input, produces less than 20%THD, has a power factor between 90% and 100%, and is thermally protected for additional safety. Junction box and Driver can be accessed from below the ceiling and above the ceiling. Junction Box is Listed for through branch circuit wiring.

DIMMING & DRIVER INFORMATION

DIM10 - 0-10V dimming on either MVOLT 120, 277 or 347V. Dimmable down to 1% of initial lumens, standard.

LUTH - Lutron LDE1 Hi-Lume Eco System. 1% dimming with Soft in Fade to Black dimming technology.

ELDO10.1 - EldoLED SoloDrive 0-10V. Dimming down to 0.1%.

DIMTR - Triac & Electronic low voltage dimming. Available in 120V, and up to 4000 lumens only.

LUT2W - Lutron LTEA2W Hi-Lume 1%. 2-wire LED Driver Forward Phase Control, 1% dimming in 120V only. Available on all luminaires up to 40 watts.

UP TO 2" CEILING THICKNESS

Telescopic housing collar can be adjusted to accommodate 0.5" to 2" thick ceilings.

LENS

Available in different distributions and finishes. Trim lens type options include clear polycarbonate, frosted polycarbonate, and tempered glass. See ordering table for options.

LED DYNAMIC PLATFORM OPTIONS



Tunable White utilizing the Lumenetix platform allows the luminaire to be color-tuned via various smart controls. Customize the lighting environment to a wide variety of applications, while maintaining a CRI of 90+ across the tunable range of 8000 to 1650K.



Dims to Warm with Smart Dimming Technology. At 100% full brightness the luminaire is at 3000K. When dimmed to 1%, light transitions to 1800K, allowing the ambiance to transition from a brighter white during the day down to a warmer atmosphere at night.

SEALED TRIM RING

The IP65-rated trim ring is constructed of 304 stainless steel in flat white finish. The sealed and vandal-resistant bottom lens and bottom trim ring is retained with (4) Torx T20 screws to the housing, holding the trim securely to the housing. Option for trim to be painted with antimicrobial white polyester powdercoat. Stainless steel trims are satin polished.

GASKETS

An NSF-certified one-piece silicone extruded gasket is installed between the trim ring and housing collar to completely seal the trim ring from below the ceiling.

WARRANTY

Five-year carefree warranty for parts and components. (Labor not included)

LISTINGS

UL Certified for US and Canada
ISO 5 Class 100 Cleanroom Compliant
IP65 Rated from Roomside Only
NSF 2 Splash Zone/Non-Food Zone
Wet Location Listed
MIL-STD-461F compliant for EMI

Example: HL4-IP-VR-LED-2000L-DIM10-MVOLT-MD-40K-90-HL4-IP-4501-HPC-CL-WH

SERIES	LUMENS	DRIVER	VOLTAGE	CCT	EMERGENCY	TRIM TYPE	TRIM LENS TYPE
HL4-IP-VR-LED	☐ 1000L	☐ DIM10	☐ 120	☐ 22K	☐ EMG-LED-10W	☐ HL4-IP-4501	☐ HPC-CL- Clear High Impact polycarbonate lens
	☐ 2000L	☐ DIMTR ^{2,1}	☐ 277	☐ 27K	☐ EMG-LED-20W		☐ HPC-FR- Frosted High Impact polycarbonate lens
	☐ 3000L	☐ LUTH ²	☐ MVOLT	☐ 30K	Typical lumen output of the luminaire is up to 1000L with EMG-LED-10W option & 2000L with EMG-LED-20W option in emergency mode. Contact the factory for details.		☐ TGL- Tempered Glass Lens
	☐ 4000L ¹	☐ LUT2W ^{2,1}	☐ 347 (DIM10 only)	☐ 35K			
		☐ ELDO10-.1 ²		☐ 40K			
				☐ 50K ³			
				OPTICS	CRI		
			☐ MD	☐ 90+		☐ CL - Clear	☐ WH - White
			☐ WD	☐ 98+ ⁴		☐ SHZ - Satin Haze	☐ SS - Stainless Steel
				☐ 85+(50K only)		☐ WH - White	☐ WH-AN - White Antimicrobial
						Note: All trim rings material are type 304 stainless steel.	

¹ 4000 not available for LUT2W, DIMTR ² LUTH, ELDO10-.1 are available in 120V and 277V

³ 50K series are available with 85+ CRI only ⁴ 98+ CRI is available in 27K, 30K and 40K only

^{2,1} DIMTR, LUT2W are available in 120V only

Note: All trim rings material are type 304 stainless steel.

