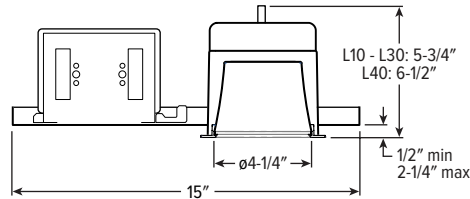
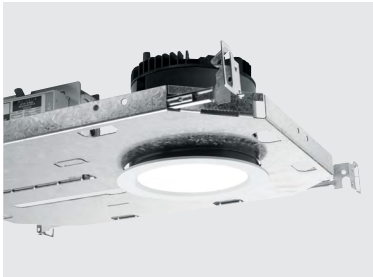


HM4DR^{LED} 4.5" Cleanroom Medical Downlight – Round



CATALOG #: _____

TYPE: _____

PROJECT: _____



TrimLock[®]

FEATURES

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Designed to meet the demanding requirements of controlled environments
- Smooth surface trim and lens materials simplify cleaning and maintenance
- NSF-approved gasketing meets all required testing criteria for ISO 5, Class 100 certification
- Anti-microbial finish suppresses the spread of dangerous micro-organisms, mold, and bacterial growth
- Beam angles ranging from 25° narrow to 50° wide for tailored performance
- 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" – 2-1/4".
- TRIM** – Die-cast aluminum frame with micro-prismatic, acrylic lens.
- DIE-CAST FINISH** – Textured anti-microbial matte white or black polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal.
- 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. 50/60 Hz constant current driver.
- MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan. Minimum 24" O.C. marked spacing required for L30 and L40 lumen packages.
- LISTINGS** –
 - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for wet locations under covered ceiling. LED light assembly conforms to UL 2108 for remote installation.
 - IC-rated for direct contact with insulation when specified with I Mounting Type.
 - IP65 rated
 - ISO 5, Class 100 rated
 - NSF/ANSI 2
 - City of Chicago Environmental Air approved when specified with CP option.^[18]
 - 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.
- WARRANTY** – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE: **HM4DR - TL - L20/835 - OPTIONS - DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1**

HOUSING

SERIES	LUMENS ^[1]	CRI	CCT	OPTIONS		CONTROL ^[2]	VOLTAGE
HM4DR - TL TrimLock	L10 1,000lm	8 80	27 2700K	ATH	Airtight construction	DIM	UNV 120-277V
	L15 1,500lm	9 90	30 3000K	F	Fuse	Dimming driver, 0-10V	
	L20 2,000lm		35 3500K	EM/7W	7-watt emergency battery ^[3]	DIM1	
	L30 3,000lm		40 4000K	EM/10W	10-watt emergency battery ^[4]	1% Dimming driver, 0-10V	
	L40 4,000lm		50 5000K	CP	Chicago plenum (CCEA) ^[5]		

TRIM

TRIM TYPE	DISTRIBUTION ^[6]		FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	W	Wide	OF 1/2" standard flange	WH White texture powder coat	AD Diffuse acrylic lens ^[10]
R Regressed lens		50° Flush		BL Black texture powder coat	PD Diffuse 1/8" polycarbonate lens ^[11]
	50° Regressed	MB Black texture splay with white flange ^[9]			
	M Medium ^[7]				
		35° Flush			
		30° Regressed			
	N	Narrow ^[8]			
		25° Flush			
		25° Regressed			

MOUNTING

MOUNTING TYPE^[12]

- N** Open pan for new construction
- I** IC-rated enclosure for new construction^[14]

MOUNTING HARDWARE^[13]

- F1** Integral 2-position fixed pan bracket, universal bar hanger included^[15]
- BA1** Adjustable butterfly pan bracket, bar hanger not included^[16]
- CA1** Adjustable caterpillar pan bracket, universal bar hanger included^[17]

NOTES

- Lumen output based on L Trim Type, W Distribution and WH Reflector Finish, 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- See page 2 for ADDITIONAL CONTROL OPTIONS.
- Not IP65 rated. Specify CEC in the option code when California Energy Commission regulations are required.
- Not IP65 rated. Specify CEC in the option code when California Energy Commission regulations are required.
- I Mounting Type required. Not NSF approved.
- Beam angle based on WH Reflector Finish.
- L30 lumen package max when specified with M or N Distribution.
- L30 lumen package max when specified with M or N Distribution.
- R Trim Type only.

- W Distribution only. Includes smooth clear polycarbonate underlay.
- W Distribution only. Includes smooth clear polycarbonate underlay.
- Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 3 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
- L15 lumen package max. L20 available, W Distribution only.
- I Mounting requires external brackets.
- N Mounting Type only.
- N Mounting Type only.
- Not NSF approved.



HM4DR^{LED} 4.5" Cleanroom Medical Downlight – Round

FIXTURE PERFORMANCE DATA

	DISTRIBUTION	WATTAGE	FLUSH LENS TRIM TYPE		REGRESSED LENS TRIM TYPE	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L10	W	14.5	992	68	972	67
	M	14.5	1317	91	1319	91
	N	14.5	1345	93	1299	90
L15	W	22.1	1472	67	1441	65
	M	22.1	1953	88	1955	89
	N	22.1	1995	90	1927	87
L20	W	26.9	1967	73	1927	72
	M	26.9	2610	97	2614	97
	N	26.9	2667	99	2576	96
L30	W	41.4	2813	68	2755	67
	M	41.4	3732	90	3738	90
	N	41.4	3813	92	3683	89
L40	W	55.4	3889	70	3810	69
	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

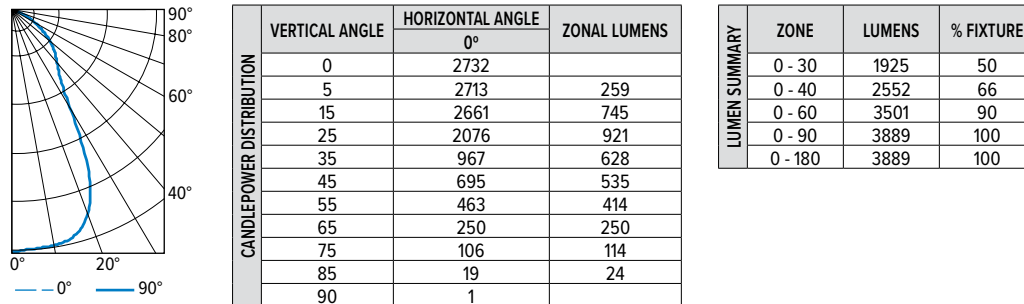
TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.77
PD	0.77

REGRESSED TRIM FINISH	
CATALOG NUMBER	CONVERSION FACTOR
WH	1.00
BL	0.79

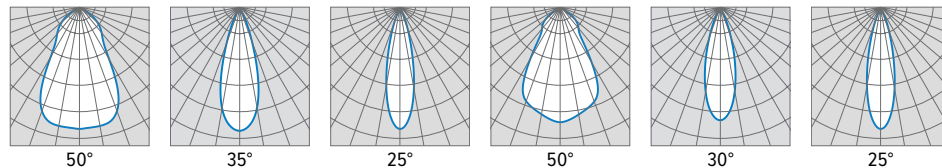
- Photometrics tested in accordance with IESNA LM-79. Results based on L Trim Type, W Distribution, WH Reflector Finish, 80 CRI/3500K CCT, wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

PHOTOMETRY

HM4DR-TL-L40/835-DIM-UNV-LW-OF-WH Total Luminaire Output: 3889 lumens; 55.4 Watts | Efficacy: 70 lm/W | 80 CRI; 3500K CCT



FLUSH



ADDITIONAL CONTROL OPTIONS

Lumen restrictions apply: L15 minimum for DIM LINE driver. 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
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
VRF/DBI/LDE1	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver
FCJS/DIM	Lutron Vive PowPak wireless fixture control with dimming driver
FCJS/DIM1	Lutron Vive PowPak wireless fixture control with 1% dimming driver

TRIMLOCK DETAILS

TWIST



PULL

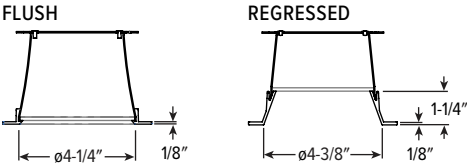


RELEASE

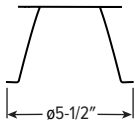


HM4DR^{LED} 4.5" Cleanroom Medical Downlight – Round

TRIM TYPE DETAILS

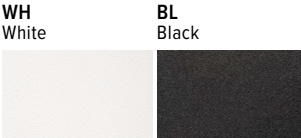


FLANGE TYPE DETAILS

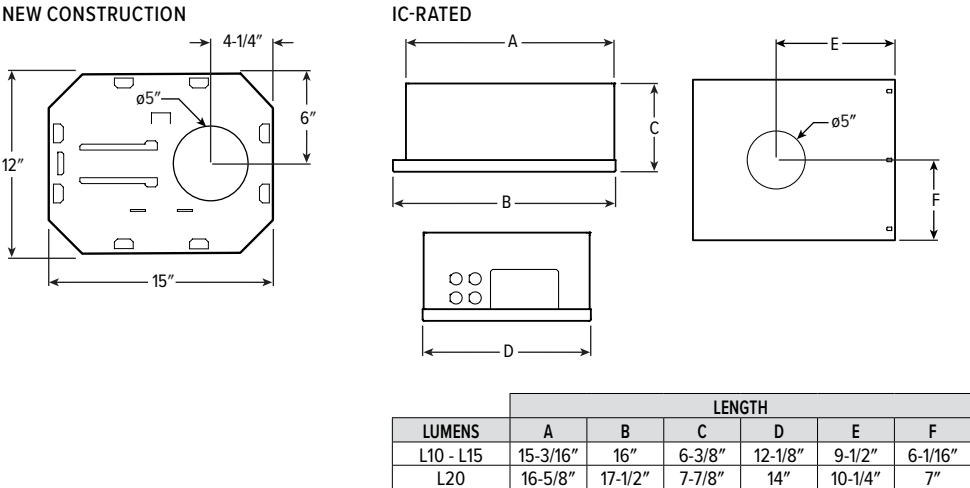


Ceiling Cutout: $\phi 5"$

REFLECTOR FINISH DETAILS



MOUNTING TYPE DETAILS

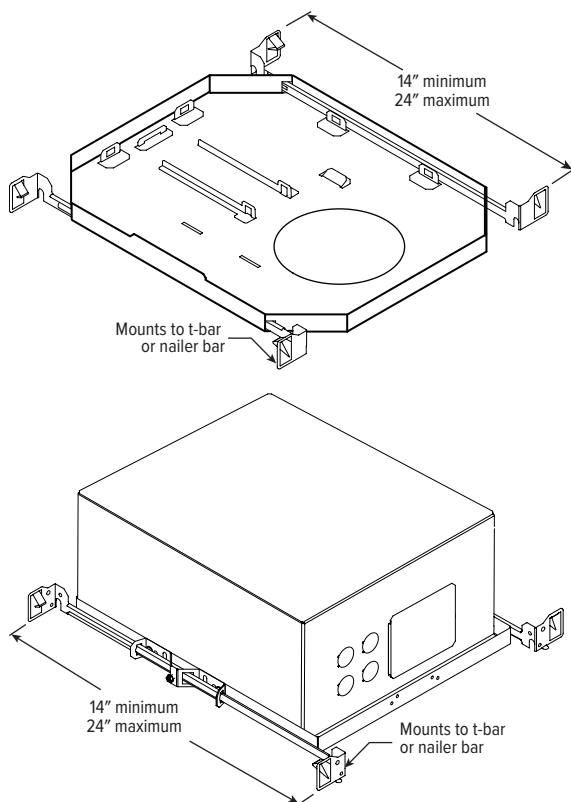


SEE NEXT PAGE FOR MOUNTING HARDWARE DETAILS.

HM4DR^{LED} 4.5" Cleanroom Medical Downlight – Round

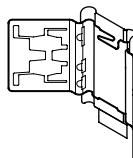
MOUNTING HARDWARE DETAILS

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

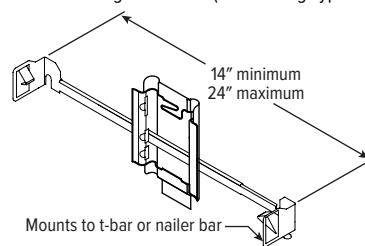


F1 with I Mounting Type

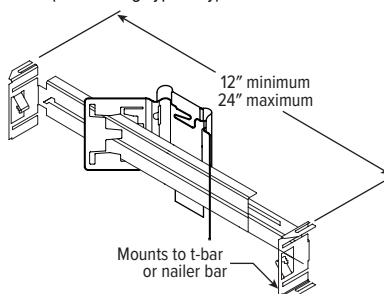
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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)

