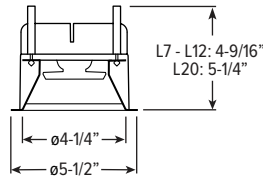


M4PR dim to WARM

4.5" MRI Shallow Plenum Downlight – Round



Pan Size: 12-1/16" x 16-1/4"

CATALOG #: _____

TYPE: _____

PROJECT: _____

FEATURES

TrimLock™

- Williams TrimLock reflector retention system eliminates trim sag
- Dim to warm from 1800K to 3000K CCT, minimum 95 CRI
- Designed with non-ferrous materials for MRI imaging suites
- IP65-rated die-cast trim includes easy-to-clean flush lens
- Beam angles ranging from 25° narrow to 65° wide for tailored performance
- 4 inch aperture is unobtrusive in small scale spaces
- Contemporary design provides glare-free illumination for a soft ceiling appearance

SPECIFICATIONS

- HOUSING** – Spun housing with forged aluminum heat sink. Aluminum splice compartment. Trim housing adjusts for ceiling thickness from 1/2" - 1-1/2".
- TRIMLOCK** – Innovative TrimLock reflector retention system ensures the trim remains flush with the ceiling plane.
- LENSED TRIM** – Die-cast aluminum frame with micro-prismatic, tempered glass lens.
- ELECTRICAL** – Five color, mid-power LED modules. On board thermal and optical feedback ensure color consistency of <2 step MacAdam ellipse (SDCM). In-line spectral capture and storage results in consistent CRI and CCT across all arrays. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours.
- MOUNTING** – Recessed. Aluminum mounting pan for new construction or IC-rated enclosure. Marked spacing restrictions apply for L20 (R Mounting Type), consult factory. Remote mounted driver enclosure required, ordered separately, must be located outside MRI room.
- 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.

ORDERING EXAMPLE:^[1] **M4PR - TL - L20/9DW - OPTIONS** - **LW - OF - WH - TRIM OPTIONS** - **N - F1M**
 HOUSING TRIM MOUNT.

HOUSING

SERIES	LUMENS ^[2]	COLOR	OPTIONS
M4PR-TL	L7 700lm	9DW Dim to warm (95 CRI, 1800K – 3000K)	ATH Airtight construction ^[3]
TrimLock	L12 1,200lm L20 2,000lm		CP Chicago plenum (CCEA) ^[4]

TRIM

TRIM TYPE	DISTRIBUTION ^[5]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	W 65° Wide	OF 1/2" standard flange	WH White texture powder coat	IP IP65 rated trim
	M 35° Medium	SF 1/4" mud-in flange ^[6]	BL Black texture powder coat	AD Diffuse acrylic lens ^[7]
	N 25° Narrow			WET/CC Wet location, covered ceiling listed

MOUNTING

MOUNTING TYPE^[8]

- N** Open pan for new construction
- I** IC-rated enclosure for new construction^[10]

MOUNTING HARDWARE^[9]

- F1M** 2-Position fixed pan bracket, aluminum, universal bar hanger included
- BA1M** Adjustable butterfly pan bracket, aluminum, bar hanger not included^[11]
- CA1M** Adjustable caterpillar pan bracket, aluminum, universal bar hanger included

REMOTE DRIVER ENCLOSURE (ORDERED SEPARATELY)^[12]

ORDERING EXAMPLE: **M4PR - RDB1 - L20 - OPTIONS - DIM - UNV**

SERIES	DRIVER BOX	DRIVER QTY.	LUMENS	OPTIONS	CONTROL ^[13]	VOLTAGE
M4PR	RDB Remote driver enclosure	1 7	L7 700lm	EM/12W 12-watt emergency battery ^[14]	DIM Dimming driver (0-10V signal to control dimming and CCT)	UNV 120-277V 347 347V ^[15]
		2 8	L12 1,200lm			
		3 9	L20 2,000lm	F Fuse kit SDT Stepdown transformer ^[15]		
		4 10				
		5 11				
		6 12				
					LUT Lutron Ecosystem enabled	

NOTES

- Housing, trim, and mounting ship separately.
- Nominal lumen output based on full light output, N distribution and WH finish, 3000K/95CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- I Mounting Type required.
- I Mounting Type required.
- Beam angle based on WH reflector finish.
- For use with mud-in plaster construction only, supplied with mud flange installation kit, see page 3 for FLANGE TYPE DETAILS, not available with ATH, CP or IP options.
- Wide distribution only.
- Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 3 for MOUNTING TYPE DETAILS.
- See page 3 for MOUNTING HARDWARE DETAILS.
- L12 lumen package max.
- N Mounting Type only.
- Required. Ordered as a separate catalog number, ships separately. See page 4 for REMOTE DRIVER ENCLOSURE DETAILS.
- All drivers dimmed by single control signal.
- Available with RDB1 only.
- May be required for 347V, see product builder at hew.com
- Not available with EM batteries.

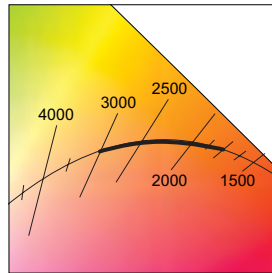


M4PR dim to WARM

4.5" MRI Shallow Plenum Downlight – Round

FIXTURE PERFORMANCE DATA

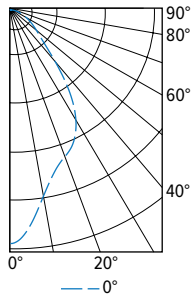
LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	WATTAGE	EFFICACY (lm/W)
L7	W	668	3000K	1800K	14.0	47.7
	M	777			14.0	55.5
	N	772			14.0	55.1
L12	W	1171			23.4	50.1
	M	1363			23.4	58.3
	N	1353			23.4	57.9
L20	W	1918			37.7	50.9
	M	2232			37.7	59.2
	N	2216			37.7	58.8



- 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 3000K, 95 CRI, full output, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

PHOTOMETRY

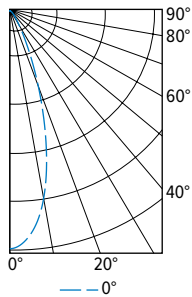
M4PR-TL-L20/9DW-DIM-UNV-LW-OF-WH Total Luminaire Output: 1918 lumens; 37.7 Watts | Efficacy: 50.9 lm/W | 95.0 CRI; 3000K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1535	
	5	1431	130
	15	1108	314
	25	970	443
	35	694	426
	45	319	255
	55	186	167
	65	109	109
	75	54	58
	85	14	17
	90	2	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1313	68
	0 - 60	1735	90
	0 - 90	1918	100
	0-180	1918	100

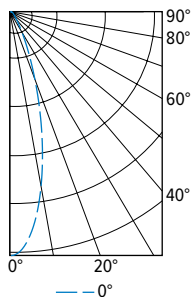
M4PR-TL-L20/9DW-DIM-UNV-LM-OF-WH Total Luminaire Output: 2232 lumens; 37.7 Watts | Efficacy: 59.2 lm/W | 95.0 CRI; 3000K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	5244	
	5	4979	452
	15	3110	843
	25	1055	499
	35	316	207
	45	131	103
	55	68	61
	65	39	39
	75	20	21
	85	5	6
	90	1	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2001	90
	0 - 60	2166	97
	0 - 90	2232	100
	0-180	2232	100

M4PR-TL-L20/9DW-DIM-UNV-LN-OF-WH Total Luminaire Output: 2216 lumens; 37.7 Watts | Efficacy: 58.8 lm/W | 95.0 CRI; 3000K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	7437	
	5	6716	586
	15	3147	860
	25	841	404
	35	233	154
	45	110	86
	55	66	60
	65	40	39
	75	20	21
	85	5	6
	90	1	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2004	90
	0 - 60	2150	97
	0 - 90	2216	100
	0-180	2216	100

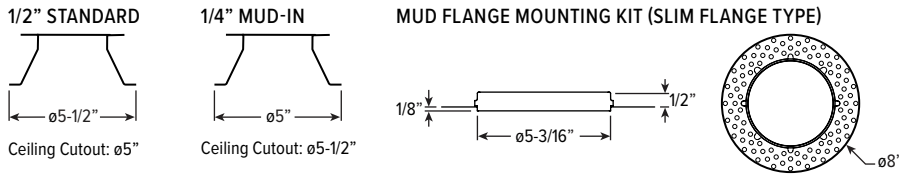


M4PR dim to **WARM** 4.5" MRI Shallow Plenum Downlight – Round

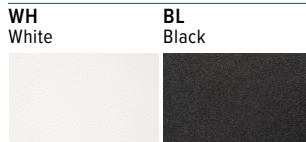
TRIMLOCK DETAILS



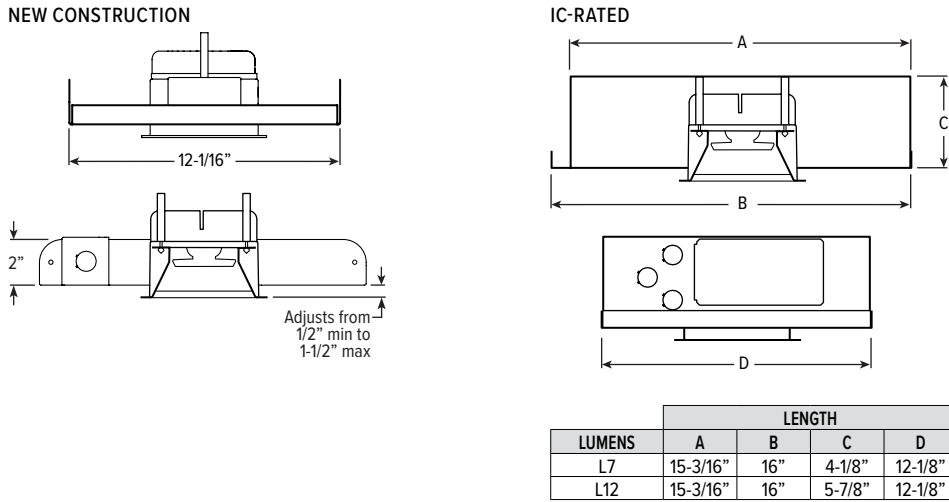
FLANGE TYPE DETAILS



REFLECTOR FINISH DETAILS

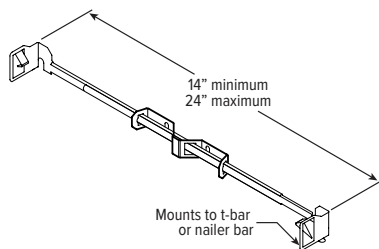


MOUNTING TYPE DETAILS

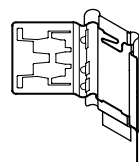


MOUNTING HARDWARE DETAILS

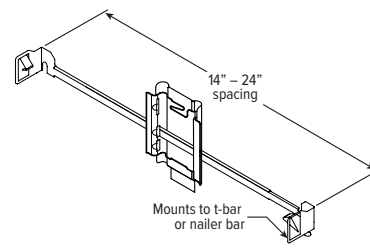
F1M 2-Position fixed pan bracket, aluminum, universal bar hanger included



BA1M Adjustable butterfly pan bracket, aluminum, bar hanger not included



CA1M Adjustable caterpillar pan bracket, aluminum, universal bar hanger included

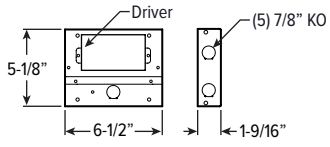


M4PR dim to WARM

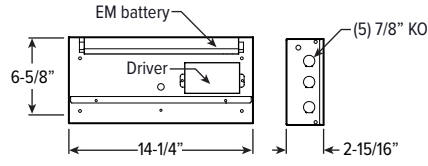
4.5" MRI Shallow Plenum Downlight – Round

REMOTE DRIVER ENCLOSURE DETAILS (ORDERED & SHIPPED SEPARATELY)

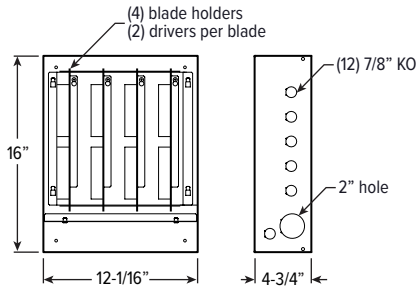
Remote driver enclosure for single fixture



Remote driver enclosure for single fixture with EM/12W



Remote driver enclosure for 2 - 8 fixtures



Remote driver enclosure for 9 - 12 fixtures

