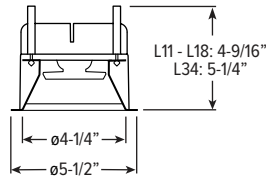


# M4PR tunable WHITE 4.5" MRI Shallow Plenum Downlight – Round



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

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

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

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

## FEATURES

### TrimLock™

- Williams TrimLock reflector retention system eliminates trim sag
- Tunable white from 2700K to 5000K CCT, minimum 80 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
- Fully room-side accessible

## 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** – High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to splice compartment. 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. Aluminum mounting pan for new construction or IC-rated enclosure. Remote mounted driver enclosure required, ordered separately, must be located outside MRI room. Minimum 24" O.C. marked spacing required for L34 lumen package.
- 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](http://hew.com/warranty).

ORDERING EXAMPLE:<sup>(1)</sup> **M4PR - TL - L18/8TW - OPTIONS** - **LW - OF - WH - TRIM OPTIONS** - **N - F1M**  
 HOUSING TRIM MOUNT.

## HOUSING

SERIES	LUMENS <sup>(2)</sup>	COLOR	OPTIONS
<b>M4PR-TL</b>	<b>L11</b> 1,100lm	<b>8TW</b> Tunable white (80 CRI, 2700K-5000K)	<b>ATH</b> Airtight construction <sup>(3)</sup>
TrimLock	<b>L18</b> 1,800lm		<b>CP</b> Chicago plenum (CCEA) <sup>(4)</sup>
	<b>L34</b> 3,400lm		

## TRIM

TRIM TYPE	DISTRIBUTION <sup>(5)</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	<b>W</b> 65° Wide	<b>OF</b> 1/2" standard flange	<b>CS</b> Clear semi-specular powder coat	<b>IP</b> IP65 rated trim
	<b>M</b> 35° Medium	<b>SF</b> 1/4" mud-in flange <sup>(6)</sup>	<b>WH</b> White texture powder coat	<b>AD</b> Diffuse acrylic lens <sup>(7)</sup>
	<b>N</b> 25° Narrow		<b>BL</b> Black texture powder coat	<b>PD</b> Diffuse 1/8" polycarbonate lens <sup>(8)</sup>
				<b>WET/CC</b> Wet location, covered ceiling listed <sup>(9)</sup>

## MOUNTING

MOUNTING TYPE <sup>(10)</sup>	MOUNTING HARDWARE <sup>(11)</sup>
<b>N</b> Open pan for new construction	<b>F1M</b> 2-Position fixed pan bracket, aluminum, universal bar hanger included
<b>I</b> IC-rated enclosure for new construction <sup>(12)</sup>	<b>BA1M</b> Adjustable butterfly pan bracket, aluminum, bar hanger not included <sup>(13)</sup>
	<b>CA1M</b> Adjustable caterpillar pan bracket, aluminum, universal bar hanger included

## REMOTE DRIVER ENCLOSURE (ORDERED SEPARATELY)<sup>(14)</sup>

ORDERING EXAMPLE: M4PR - RDB1 - L18 - OPTIONS - DIM - UNV							
SERIES	DRIVER BOX	DRIVER QTY.	LUMENS	OPTIONS	CONTROL <sup>(15)</sup>	VOLTAGE	
<b>M4PR</b>	<b>RDB</b> Remote driver enclosure	<b>1</b>	<b>7</b>	<b>L11</b> 1,100lm	<b>EM/12W</b> 12-watt emergency battery <sup>(16)</sup>	<b>DALI</b> Driver prewired for DALI applications	<b>UNV</b> 120-277V
		<b>2</b>	<b>8</b>	<b>L18</b> 1,800lm			
		<b>3</b>	<b>9</b>	<b>L34</b> 3,400lm			
		<b>4</b>	<b>10</b>		<b>F</b> Fuse kit		
		<b>5</b>	<b>11</b>				
		<b>6</b>	<b>12</b>				
					<b>DIM</b> Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT		
					<b>DMX</b> Driver prewired for DMX applications		

## NOTES

- Housing, trim, and mounting ship separately.
- Nominal lumen output based on N distribution and WH finish, 4000K/80CRI. 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.
- Wide distribution only.
- Reduces lumen output, use .85 multiplier.
- Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 3 for MOUNTING TYPE DETAILS.
- See page 3 for MOUNTING HARDWARE DETAILS.
- L18 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](http://hew.com)
- Not available with EM batteries.



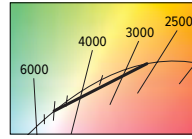
# M4PR tunable WHITE 4.5" MRI Shallow Plenum Downlight – Round

## FIXTURE PERFORMANCE DATA

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L11	W	1025	14.6	70.4
	M	1193	14.6	82.0
	N	1184	14.6	81.4
L18	W	1664	24.0	69.3
	M	1936	24.0	80.7
	N	1922	24.0	80.1
L34	W	3097	46.7	66.3
	M	3504	46.7	75.0
	N	3482	46.7	74.5

### MULTIPLIER TABLE

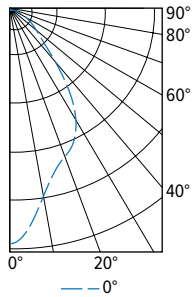
COLOR TEMPERATURE		
CCT	LUMENS	WATTS
2700K	0.83	1.03
3000K	1.00	1.00
3500K	0.99	0.99
4000K	1.00	1.00
5000K	0.98	1.03



- 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 4000K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier tables to calculate additional options.

## PHOTOMETRY

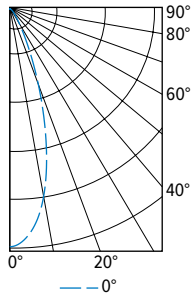
**M4PR-TL-L18/8TW-DIM-UNV-LW-OF-WH** Total Luminaire Output: 1664 lumens; 24.0 Watts | Efficacy: 69.3 lm/W | 80.0 CRI; 4051K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1332	
	5	1241	113
	15	961	272
	25	842	384
	35	602	369
	45	276	221
	55	161	145
	65	94	94
	75	47	50
	85	12	14
	90	2	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1138	68
	0 - 60	1505	90
	0 - 90	1664	100
	0-180	1664	100

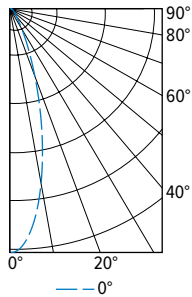
**M4PR-TL-L18/8TW-DIM-UNV-LM-OF-WH** Total Luminaire Output: 1936 lumens; 24.0 Watts | Efficacy: 80.7 lm/W | 80.0 CRI; 4051K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	4549	
	5	4319	392
	15	2698	732
	25	915	433
	35	274	179
	45	113	90
	55	59	53
	65	34	34
	75	17	19
	85	4	5
	90	1	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1736	90
	0 - 60	1879	97
	0 - 90	1936	100
	0-180	1936	100

**M4PR-TL-L18/8TW-DIM-UNV-LN-OF-WH** Total Luminaire Output: 1922 lumens; 24.0 Watts | Efficacy: 80.1 lm/W | 80.0 CRI; 4051K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	6450	
	5	5825	508
	15	2730	746
	25	729	351
	35	202	133
	45	95	75
	55	57	52
	65	34	34
	75	17	18
	85	4	5
	90	1	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1738	90
	0 - 60	1864	97
	0 - 90	1922	100
	0-180	1922	100

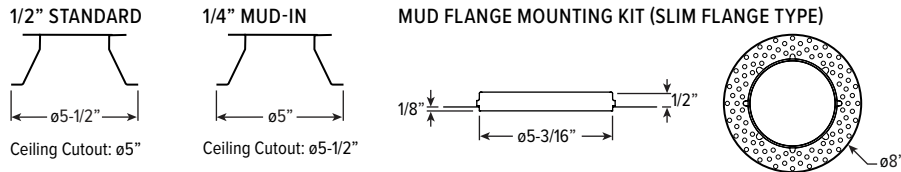


# M4PR tunable **WHITE** 4.5" MRI Shallow Plenum Downlight – Round

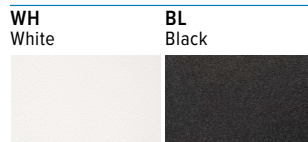
## TRIMLOCK DETAILS



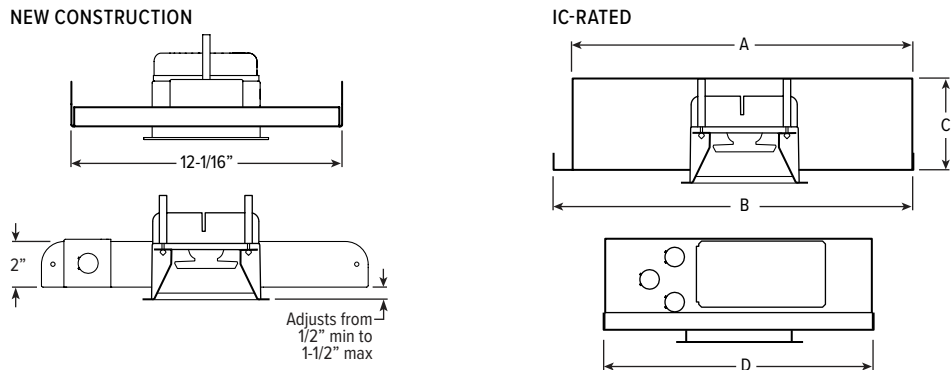
## FLANGE TYPE DETAILS



## REFLECTOR FINISH DETAILS



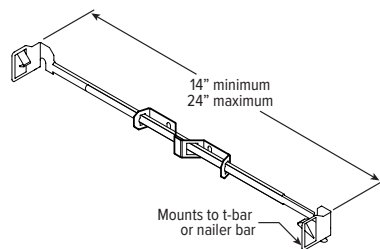
## MOUNTING TYPE DETAILS



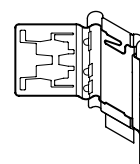
LUMENS	LENGTH			
	A	B	C	D
L11	15-3/16"	16"	4-1/8"	12-1/8"
L18	15-3/16"	16"	5-7/8"	12-1/8"

## MOUNTING HARDWARE DETAILS

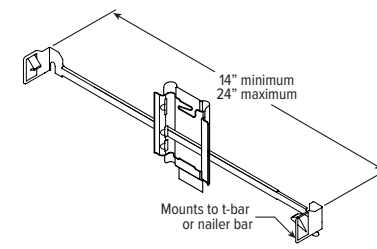
**F1M** 2-Position fixed pan bracket, aluminum, universal bar hanger included



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



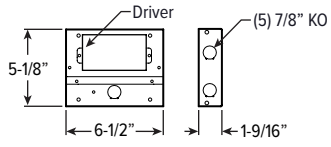
**CA1M** Adjustable caterpillar pan bracket, aluminum, universal bar hanger included



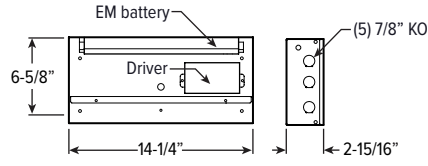
# M4PR tunable WHITE 4.5" MRI Shallow Plenum Downlight – Round

## REMOTE DRIVER ENCLOSURE DETAILS (ORDERED & SHIPPED SEPARATELY)

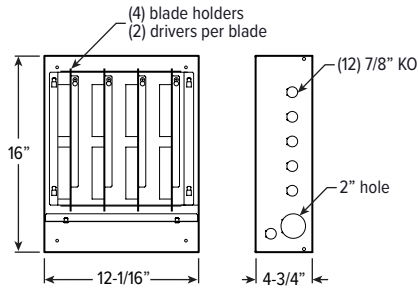
Remote driver enclosure for single fixture



Remote driver enclosure for single fixture with EM/12W



Remote driver enclosure for 2 - 8 fixtures



Remote driver enclosure for 9 - 12 fixtures

