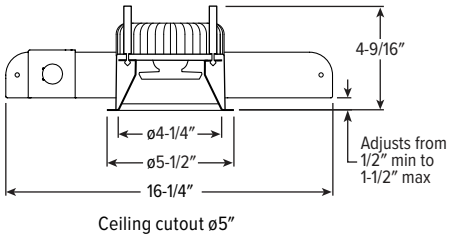
M4PR tunable WHITE
4.5″ MRI Shallow Plenum Downlight – Round



Ceiling cutout ø5″

CATALOG #:

TYPE:

PROJECT:

BUY AMERICAN ACT COMPLIANT | CCEA Approved | IP65 Rated | Low UGR | WET/CC | TrimLock®

ORDERING EXAMPLE: M4PR - TL - L18/8TW - OPTIONS - LW - OF - WH - TRIM OPTIONS - N - F1M
(HOUSING: M4PR - TL - L18/8TW - OPTIONS; TRIM: LW - OF - WH - TRIM OPTIONS; MOUNT.: N - F1M)

HOUSING

SERIES	LUMENS [1]	COLOR	OPTIONS
M4PR-TL TrimLock	**L11** 1,100lm	**8TW** Tunable white (80 CRI, 2700K-5000K)	**ATH** Airtight construction
	L18 1,800lm		**CP** Chicago plenum (CCEA) [2]

TRIM [3]

TRIM TYPE	DISTRIBUTION [4]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	**W** 65° Wide	**OF** 1/2″ standard flange	**CS** Clear semi-specular powder coat	**IP** IP65 rated trim
	M 35° Medium		**WH** White texture powder coat	**AD** Diffuse acrylic lens [5]
	N 25° Narrow		**BL** Black texture powder coat	**PD** Diffuse 1/8″ polycarbonate lens [6]
				WET/CC Wet location, covered ceiling listed
				AM Anti-microbial [7]

MOUNTING

MOUNTING TYPE [8]	MOUNTING HARDWARE [9]
N Open pan for new construction	**F1M** Factory-installed 2-position fixed pan bracket, universal bar hanger included [10]
I IC-rated enclosure for new construction	**BA1M** Adjustable butterfly pan bracket, aluminum, bar hanger not included [11]
	CA1M Adjustable caterpillar pan bracket, aluminum, universal bar hanger included [12]

REMOTE DRIVER ENCLOSURE (ORDERED SEPARATELY) [13]

ORDERING EXAMPLE: M4PR - RDBTW1 - L18 - OPTIONS - DIM - UNV

SERIES	DRIVER BOX	DRIVER QTY.	LUMENS	OPTIONS	CONTROL [14]	VOLTAGE
M4PR	**RDBTW** Remote driver enclosure	**1** **7** **2** **8** **3** **9** **4** **10** **5** **11** **6** **12**	**L11** 1,100lm **L18** 1,800lm	**EM/10W** 10-watt emergency battery [15] **F** Fuse kit	**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 **LD2** Lutron DALI-2 digital driver, 1% [16]	**UNV** 120-277V

NOTES

1. Lumen output based on N Distribution and WH Reflector Finish, 80 CRI/4000K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
2. I Mounting Type required.
3. Trim ships separately.
4. Beam angle based on WH Reflector Finish.
5. W Distribution only.
6. W Distribution only.
7. WH and BL Reflector Finishes only.
8. Mounting Hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 3 for MOUNTING TYPE DETAILS.
9. See page 3 for MOUNTING HARDWARE DETAILS.
10. Universal bar hanger ships uninstalled.
11. N Mounting Type only.
12. N Mounting Type only.
13. Required. Ordered as a separate catalog number, ships separately. See page 4 for REMOTE DRIVER ENCLOSURE DETAILS (ORDERED & SHIPPED SEPARATELY).
14. All drivers dimmed by single control signal.
15. Available with RDB1 only. Specify CEC in the option code when California Energy Commission regulations are required.
16. Not available with I Mounting Type.

M4PR tunable WHITE
4.5" MRI Shallow Plenum Downlight – Round

FEATURES

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Support human-centric design with adaptive, individualized lighting using tunable white light
- 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
- Fully room-side accessible
- Slim 5 inch depth for minimal plenum space applications
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Low UGR meets LEED and WELL requirements
- Made Right Here® in the USA

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, acrylic lens.
- ELECTRICAL – High-performance Class 2 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. Remote mounted driver box must be located outside MRI room, RF filter required, provided by others.
- 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.
- 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.
  - IP65 rated trim when specified with IP 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.
  - 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.

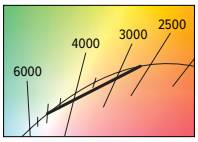
FIXTURE PERFORMANCE DATA

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L11	W	1025	14.6	70
	M	1193	14.6	82
	N	1184	14.6	81
L18	W	1664	24.0	69
	M	1936	24.0	81
	N	1922	24.0	80

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

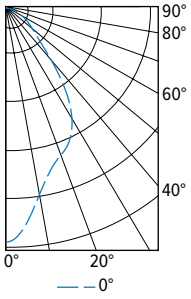
TRIM	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85



- Photometrics tested in accordance with IESNA LM-79. Results based on L Trim Type, WH Reflector Finish, N Distribution, 80 CRI/4000K CCT, average 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

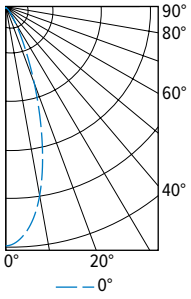
M4PR-TL-L18/8TW-DIM-UNV-LW-OF-WH Total Luminaire Output: 1664 lumens; 24.0 Watts | Efficacy: 69.3 lm/W | 80 CRI; 4000K CCT



CANDLEPOWER DISTRIBUTION		
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
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 CRI; 4000K CCT



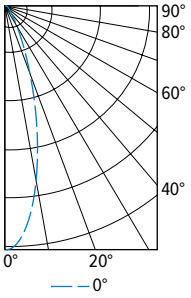
CANDLEPOWER DISTRIBUTION		
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	4549	
5	4319	392
15	2698	732
25	915	433
35	274	179
45	113	90
55	59	53
65	34	34
75	17	19
85	4	5
90	1	

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

PHOTOMETRY CONTINUED ON NEXT PAGE.

M4PR tunable WHITE
4.5″ MRI Shallow Plenum Downlight – Round

M4PR-TL-L18/8TW-DIM-UNV-LN-OF-WH Total Luminaire Output: 1922 lumens; 24.0 Watts | Efficacy: 80.1 lm/W | 80 CRI; 4000K CCT



CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
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

TRIMLOCK DETAILS

TWIST

PULL

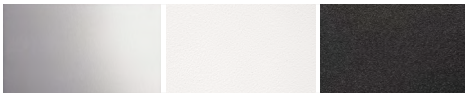
RELEASE

REFLECTOR FINISH DETAILS

CS Clear semi-specular

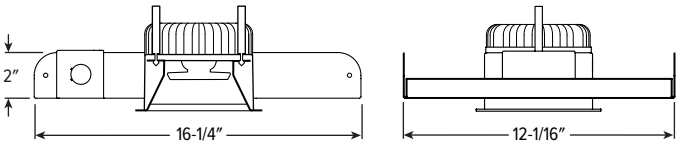
WH White

BL Black

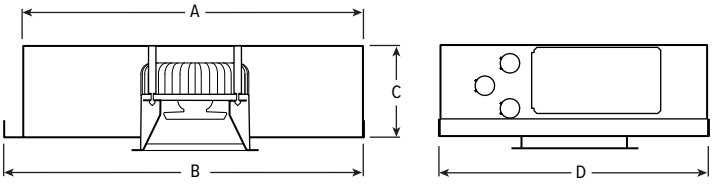


MOUNTING TYPE DETAILS

NEW CONSTRUCTION



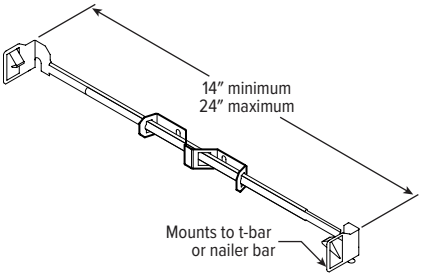
IC-RATED



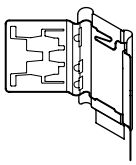
LUMENS	LENGTH A	B	C	D
L11	15-3/16″	16″	4-1/8″	12-1/8″
L18	15-3/16″	16″	5-7/8″	12-1/8″

MOUNTING HARDWARE DETAILS

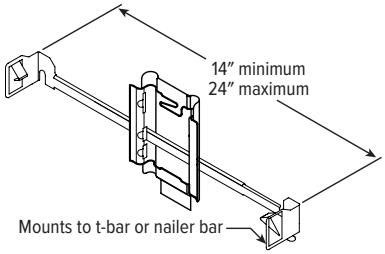
F1M Factory-installed 2-position fixed pan bracket, universal bar hanger included



BA1M Adjustable butterfly pan bracket, aluminum, bar hanger not included (N Mounting Type only)



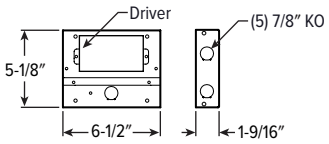
CA1M Adjustable caterpillar pan bracket, aluminum, universal bar hanger included (N Mounting Type only)



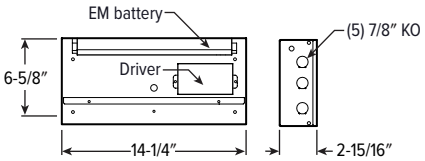
M4PR tunable WHITE
4.5″ MRI Shallow Plenum Downlight – Round

REMOTE DRIVER ENCLOSURE DETAILS (ORDERED & SHIPPED SEPARATELY)

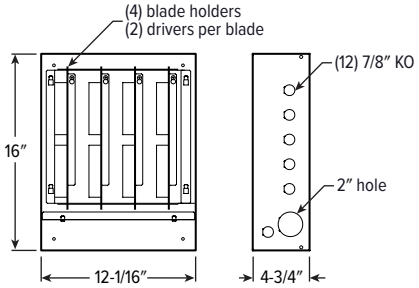
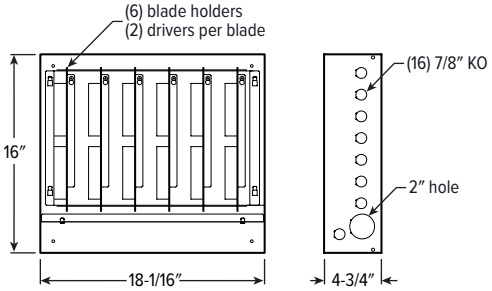
REMOTE DRIVER ENCLOSURE FOR SINGLE FIXTURE



REMOTE DRIVER ENCLOSURE FOR SINGLE FIXTURE WITH EMERGENCY BATTERY



REMOTE DRIVER ENCLOSURE FOR 2 - 8 FIXTURES



REMOTE DRIVER ENCLOSURE FOR 9 - 12 FIXTURES