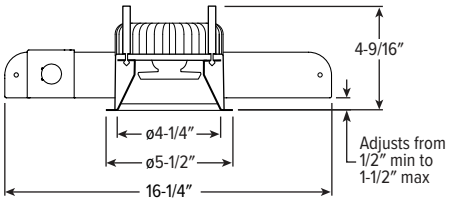
M4PR LED
4.5″ MRI Shallow Plenum Downlight – Round



L10 – L20 Lumens shown

CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT | CCEA Approved | Low UGR | IP65 Rated | WET/CC | TW | TrimLock®

ORDERING EXAMPLE: M4PR - TL - L20/835 - OPTIONS - LW - OF - WH - TRIM OPTIONS - N - F1M
(HOUSING: M4PR - TL - L20/835 - OPTIONS; TRIM: LW - OF - WH - TRIM OPTIONS; MOUNT.: N - F1M)

HOUSING

SERIES	LUMENS [1]	CRI	CCT	OPTIONS
M4PR - TL TrimLock	**Single CCT or TW**	**8** 80	**27** 2700K	**ATH** Airtight construction
	L10 1,000lm	**9** 90 [2]	**30** 3000K	**CP** Chicago plenum (CCEA) [3]
	L15 1,500lm		**35** 3500K	
	Single CCT only		**40** 4000K	
	L20 2,000lm		**50** 5000K	
	L30 3,000lm		**TW** Tunable White (80 CRI, 2700K-5000K)	

TRIM [4]

TRIM TYPE	DISTRIBUTION [5]	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 [6]
	N 25° Narrow		**BL** Black texture powder coat	**PD** Diffuse 1/8″ polycarbonate lens [7]
				WET/CC Wet location, covered ceiling listed
				AM Anti-microbial [8]

MOUNTING

MOUNTING TYPE [9]

N Open pan for new construction
I IC-rated enclosure for new construction [11]

MOUNTING HARDWARE [10]

F1M Factory-installed 2-position fixed pan bracket, universal bar hanger included [12]
BA1M Adjustable butterfly pan bracket, aluminum, bar hanger not included [13]
CA1M Adjustable caterpillar pan bracket, aluminum, universal bar hanger included [14]

REMOTE DRIVER ENCLOSURE (ORDERED SEPARATELY) [15]

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

SERIES	DRIVER BOX	DRIVER QTY.	LUMENS	OPTIONS	DRIVER [16]	VOLTAGE
M4PR	**RDB** Remote driver enclosure	**1** **7**	**Single CCT or TW**	**EM/10W** 10-watt emergency battery [17]	*See page 4 for ADDITIONAL DRIVER OPTIONS.*	**UNV** 120-277V
		2 **8**	**L10** 1,000lm	**EM/7W** 7-watt emergency battery [18]	**DIM** Dimming driver, 0-10V [20]	**347** 347V [22]
		3 **9**	**L15** 1,500lm	**F** Fuse kit	**DIM1** 1% Dimming driver, 0-10V [21]	
		4 **10**	**Single CCT only**	**SDT** Stepdown transformer [19]	**DMX** Driver prewired for DMX applications	
		5 **11**	**L20** 2,000lm			
		6 **12**	**L30** 3,000lm			

NOTES

1 Lumen output based on N Distribution and WH Reflector Finish, 80 CRI, 3500K for static white and 4000K for tunable white. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
2 Not available with tunable white.
3 I Mounting Type required.
4 Trim ships separately.
5 Beam angle based on WH Reflector Finish.
6 W Distribution only.
7 W Distribution only.
8 WH and BL Reflector Finishes only.
9 Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 3 for MOUNTING TYPE DETAILS.
10 See page 3 for MOUNTING HARDWARE DETAILS.
11 L20 lumen package max.
12 Universal bar hanger ships uninstalled.
13 N Mounting Type only.
14 N Mounting Type only.
15 Required. Ordered as a separate catalog number, ships separately. See page 4 for REMOTE DRIVER ENCLOSURE DETAILS (ORDERED & SHIPPED SEPARATELY).
16 All drivers dimmed by single control signal.
17 Available with RDB1 only. Not available with L10 lumen package. Specify CEC in the option code when California Energy Commission regulations are required.
18 Specify CEC in the option code when California Energy Commission regulations are required.
19 May be required for 347V, see product builder at hew.com/product-builder
20 0.1% Driver with tunable white.
21 Not available with tunable white.
22 Not available with Tunable White, EM batteries or DMX Driver.

M4PR LED
4.5″ MRI Shallow Plenum Downlight – Round

FEATURES

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Designed with non-ferrous materials for MRI imaging suites
- IP65-rated die-cast trim includes easy-to-clean flush lens
- Slim 5″ depth for minimal plenum space applications
- Beam angles ranging from 25° narrow to 65° wide for tailored performance
- Industry-leading efficacies as high as 100 lm/W
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Fully room-side accessible
- 4 inch aperture is unobtrusive in small scale spaces
- 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 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to splice compartment. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours. Remote mounted driver box must be located outside MRI room, RF filter required, provided by others. 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. Minimum 24″ O.C. marked spacing required for L30 lumen package. 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.
  - IP65 rated trim when specified with IP option.
  - Complies with ASTM-E283 when specified with ATH option.
  - RoHS compliant.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

FIXTURE PERFORMANCE DATA

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	921	10.7	86
	M	1072	10.7	100
	N	1064	10.7	99
L15	W	1405	16.7	84
	M	1636	16.7	98
	N	1624	16.7	97
L20	W	1830	22.8	80
	M	2130	22.8	93
	N	2114	22.8	93
L30	W	3127	46.6	67
	M	3538	46.6	76
	N	3516	46.6	76

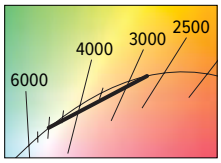
- Photometrics tested in accordance with IESNA LM-79. Results based on N Distribution and WH Reflector Finish, 80 CRI, 3500K for single CCT and 4000K for tunable white, wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

MULTIPLIER TABLES

	COLOR TEMPERATURE		
	CCT	SINGLE CCT	TW
80 CRI	2700K	0.92	0.83
	3000K	0.98	1.00
	3500K	1.00	0.99
	4000K	1.01	1.00
	5000K	1.02	0.98
90 CRI	2700K	0.76	–
	3000K	0.79	–
	3500K	0.82	–
	4000K	0.84	–
	5000K	0.88	–

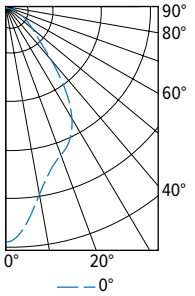
TRIM	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85

TUNABLE WHITE



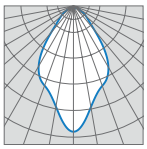
PHOTOMETRY

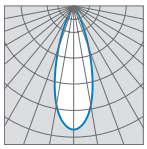
M4PR-TL-L20/835-DIM-UNV-LW-OF-WH Total Luminaire Output: 1830 lumens; 22.8 Watts | Efficacy: 80.4 lm/W | 80 CRI; 3500K CCT

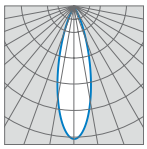


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
	0	1465	
	5	1365	91
	15	1057	167
	25	926	222
	35	663	187
	45	304	10
	55	178	73
	65	104	45
	75	52	22
	85	13	4
	90	2	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1253	69
	0 - 60	1656	91
	0 - 90	1830	100
	0-180	1830	100


65° Wide


35° Medium


25° Narrow

M4PR LED
4.5″ MRI Shallow Plenum Downlight – Round

TRIMLOCK INSTALLATION DETAILS

TWIST

PULL

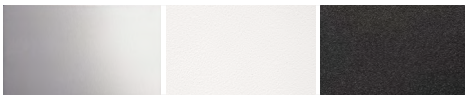
RELEASE

REFLECTOR FINISH DETAILS

CS
Clear semi-specular

WH
White

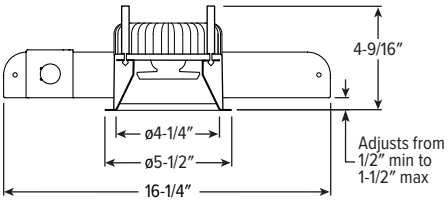
BL
Black



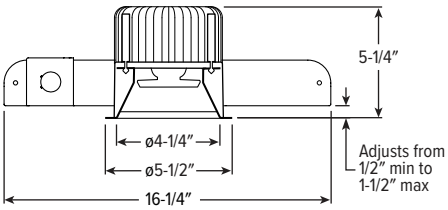
CROSS SECTIONS

Ceiling cutout ø5″

L10 – L20 LUMENS

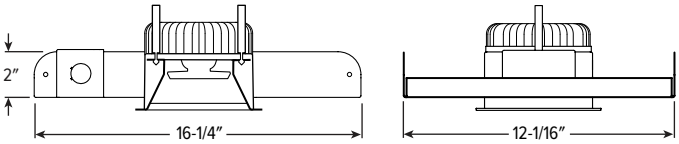


L30 LUMENS

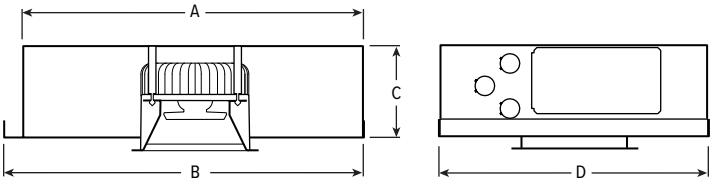


MOUNTING TYPE DETAILS

NEW CONSTRUCTION



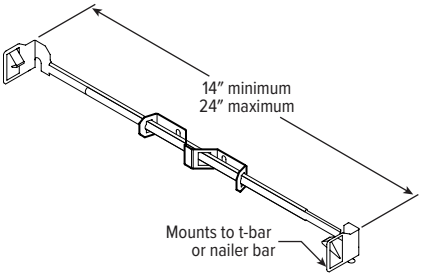
IC-RATED



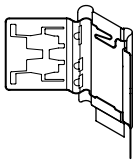
	LENGTH			
LUMENS	A	B	C	D
L10 - L20	15-3/16″	16″	4-1/8″	12-1/8″

MOUNTING HARDWARE DETAILS

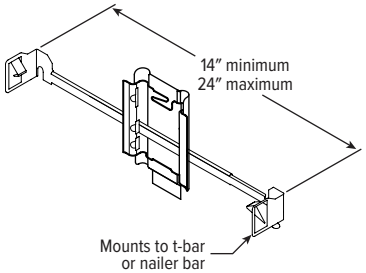
F1M Factory-installed 2-position fixed pan bracket, universal bar hanger included



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



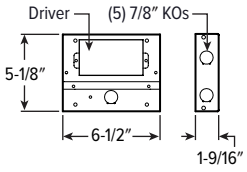
CA1M Adjustable caterpillar pan bracket, aluminum, universal bar hanger included (N Mounting Type only)



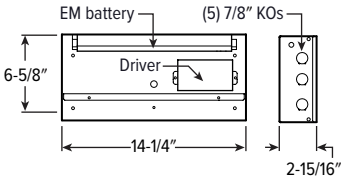
M4PR LED
4.5″ MRI Shallow Plenum Downlight – Round

REMOTE DRIVER ENCLOSURE DETAILS (ORDERED & SHIPPED SEPARATELY)

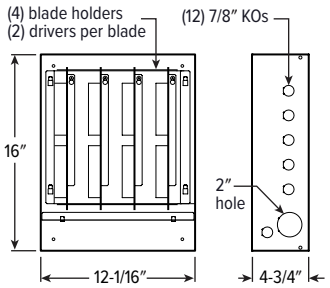
SINGLE FIXTURE



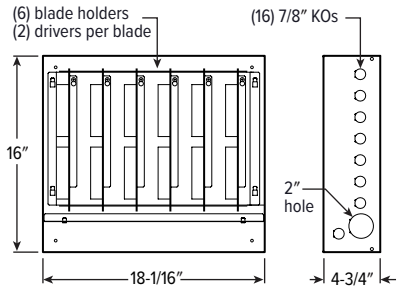
SINGLE FIXTURE WITH EM BATTERY



2 - 8 FIXTURES



9 - 12 FIXTURES



ADDITIONAL DRIVER OPTIONS

Restrictions may apply and 347V may require stepdown transformer, consult product builder at hew.com/product-builder. I Mounting Type not available with Lutron controls.

CATALOG NUMBER	DESCRIPTION
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls 0.1% dimming and (1) 0-10V signal controls CCT)
DIM1 [1]	1% driver with external dimming wires prewired for 0-10V low voltage applications
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications
LDE1 [1]	Lutron Hi-lume 1% EcoSystem dimming driver
LD2	Lutron DALI-2 digital driver, 1%

1 Single CCT only.