M4PS dim to WARM
4.5" MRI Shallow Plenum Downlight – Square

Williams

4-9/16"

4-1/4"

16-1/4"

Adjusts from 1/2" min to 1-1/2" max

CATALOG #: _____

TYPE: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT

ORDERING EXAMPLE: M4PS - L20/9DW - OPTIONS - LW - OF - WH - TRIM OPTIONS - N - F1M

HOUSING — TRIM — MOUNT.

HOUSING

SERIES	LUMENS [1]	COLOR	OPTIONS
M4PS	L7 700lm	9DW Dim to warm (95 CRI, 1800K – 3000K)	ATH Airtight construction
	L12 1,200lm		CP Chicago plenum (CCEA) [2]
	L20 2,000lm		

TRIM [3]

TRIM TYPE	DISTRIBUTION [4]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	W 75° Wide	OF 1/2" standard flange	CS Clear semi-specular powder coat	IP IP65 rated trim
	M 35° Medium	SF 1/4" mud-in flange [5]	WH White texture powder coat	AD Diffuse acrylic lens [6]
	N 30° Narrow		BL Black texture powder coat	PD Diffuse 1/8" polycarbonate lens [7]
				WET/CC Wet location, covered ceiling listed [8]
				AM Anti-microbial [9]

MOUNTING

MOUNTING TYPE [10]	MOUNTING HARDWARE [11]
N Open pan for new construction	F1M Factory-installed 2-position fixed pan bracket, universal bar hanger included [13]
I IC-rated enclosure for new construction [12]	BA1M Adjustable butterfly pan bracket, aluminum, bar hanger not included [14]
	CA1M Adjustable caterpillar pan bracket, aluminum, universal bar hanger included [15]

REMOTE DRIVER ENCLOSURE (ORDERED SEPARATELY) [16]

ORDERING EXAMPLE: M4PS - RDBDW1 - L20 - OPTIONS - DIM1 - UNV

SERIES	DRIVER BOX	DRIVER QTY.	LUMENS	OPTIONS	CONTROL [17]	VOLTAGE
M4PS	RDBDW Remote driver enclosure	1 7	L7 700lm	EM/10W 10-watt emergency battery [18]	DIM1 1% dimming driver (0-10V signal to control dimming and CCT)	UNV 120-277V
		2 8	L12 1,200lm	F Fuse kit	LUT Lutron Ecosystem enabled [20]	347 347V [21]
		3 9	L20 2,000lm	SDT Stepdown transformer [19]		
		4 10				
		5 11				
		6 12				

NOTES

1. Lumen output based on full light output, W distribution and WH finish, 3000K/95CRI. Actual lumens 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. 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 or IP options.
6. Wide distribution only.
7. Wide distribution only.
8. Not available with PD trim option.
9. WH and BL Reflector Finishes only.
10. Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 3 for MOUNTING TYPE DETAILS.
11. See page 4 for MOUNTING HARDWARE DETAILS.
12. L12 lumen package max.
13. Universal bar hanger ships uninstalled.
14. N Mounting Type only.
15. N Mounting Type only.
16. Required. Ordered as a separate catalog number, ships separately. See page 4 for REMOTE DRIVER ENCLOSURE DETAILS (ORDERED & SHIPPED SEPARATELY).
17. All drivers dimmed by single control signal.
18. Available with RDB1 only. 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. Not available with I Mounting Type.
21. Not available with EM batteries.

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Downlights
Page 1 of 4

M4PS dim to WARM
4.5" MRI Shallow Plenum Downlight – Square

FEATURES

- Mimic the comfortable, welcoming glow of incandescents with warm-dimming technology
- 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 30º narrow to 75º wide for tailored performance
- 4 inch aperture is unobtrusive in small scale spaces
- Square shape accentuates architectural styles
- Spring clip retention system eliminates trim sag
- Contemporary design provides glare-free illumination for a soft ceiling appearance
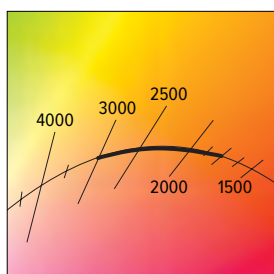- Fully room-side accessible

SPECIFICATIONS

- HOUSING – Spun housing with forged aluminum heat sink. Aluminum splice compartment. Trim housing adjusts for ceiling thickness from 1/2" - 1-1/2".
- 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 driver. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours. 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.
  - 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	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	WATTAGE	EFFICACY (lm/W)
L7	W	753			14.0	54
L7	M	780			14.0	56
L7	N	754			14.0	54
L12	W	1321	3000K	1800K	23.4	57
L12	M	1367			23.4	58
L12	N	1323			23.4	57
L20	W	1955			37.7	52
L20	M	2021			37.7	54
L20	N	1956			37.7	52

MULTIPLIER TABLE

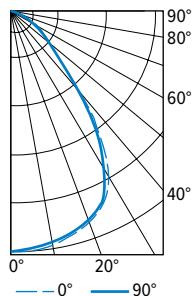| TRIM	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25ºC ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 3000K, 95 CRI, full output, actual lumens may vary +/-5%
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
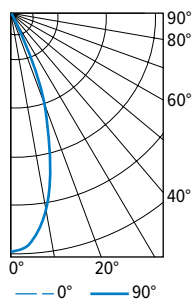- Use multiplier table to calculate additional options.

PHOTOMETRY

M4PS-L20/9DW-DIM1-UNV-LW-OF-WH Total Luminaire Output: 1955 lumens; 37.7 Watts | Efficacy: 51.9 lm/W | 95.0 CRI; 3000K CCT

VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1100	1100	1100	
5	1100	1094	1093	104
15	1060	1055	1052	298
25	991	994	981	452
35	704	838	684	470
45	317	488	306	305
55	181	204	174	173
65	99	97	96	99
75	42	41	41	45
85	6	6	5	9
90	0	0	0	

ZONE	LUMENS	% FIXTURE
0 - 30	854	44
0 - 40	1324	68
0 - 60	1802	92
0 - 90	1955	100
0 - 180	1955	100

M4PS-L20/9DW-DIM1-UNV-LM-OF-WH Total Luminaire Output: 2021 lumens; 37.7 Watts | Efficacy: 53.6 lm/W | 95.0 CRI; 3000K CCT

VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	4343	4343	4343	
5	4200	4188	4202	385
15	2875	2876	2855	777
25	995	990	992	487
35	290	293	308	198
45	107	116	113	90
55	48	53	49	46
65	23	25	25	24
75	10	10	11	11
85	0	1	1	2
90	0	0	0	

ZONE	LUMENS	% FIXTURE
0 - 30	1648	82
0 - 40	1847	91
0 - 60	1983	98
0 - 90	2021	100
0 - 180	2021	100

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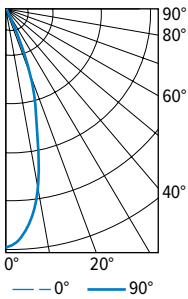Information contained herein is subject to change without notice. REV.06/08/23.LA
Downlights
Page 2 of 4

M4PS dim to WARM
4.5″ MRI Shallow Plenum Downlight – Square

M4PS-L20/9DW-DIM1-UNV-LN-OF-WH Total Luminaire Output: 1956 lumens; 37.7 Watts | Efficacy: 51.9 lm/W | 95.0 CRI; 3000K CCT

CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	5104	5104	5104	
	5	4807	4766	4753	429
	15	2695	2727	2680	750
	25	831	904	883	427
	35	230	248	261	167
	45	99	105	108	83
	55	56	61	59	54
	65	27	32	30	30
	75	10	12	12	13
	85	0	1	1	2
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1607	82
	0 - 40	1774	91
	0 - 60	1911	98
	0 - 90	1956	100
	0 - 180	1956	100

— – 0°   — 90°

FLANGE TYPE DETAILS

1/2″ STANDARD

5-1/2″

Ceiling Cutout: 5″

1/4″ MUD-IN

5″

Ceiling Cutout: 5-1/2″
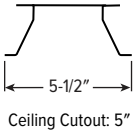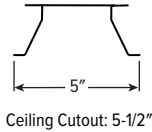
MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)

1/8″   1/2″   5-3/16″   8″
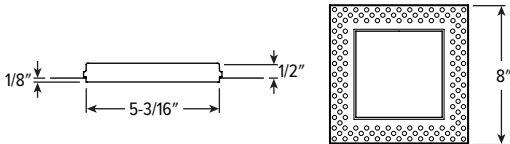
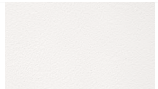## REFLECTOR FINISH DETAILS

CS
Clear semi-specular

WH
White

BL
Black
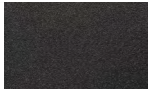
MOUNTING TYPE DETAILS

NEW CONSTRUCTION

12-1/16″

2″   16-1/4″

IC-RATED

A   C   B   D
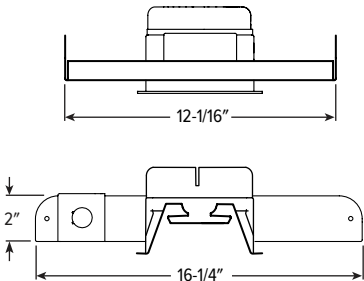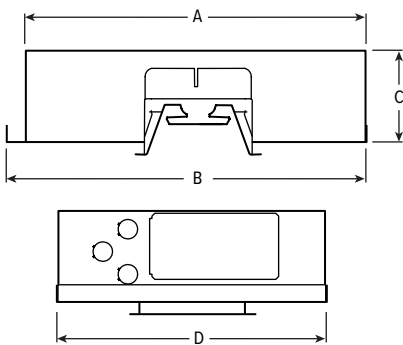
	LENGTH			
LUMENS	A	B	C	D
L7	15-3/16″	16″	4-1/8″	12-1/8″
L12	15-3/16″	16″	5-7/8″	12-1/8″

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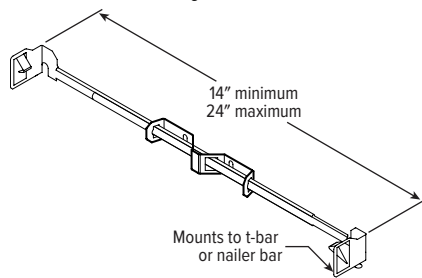Information contained herein is subject to change without notice.   REV.06/08/23.LA
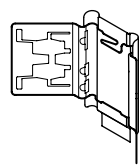Downlights
Page 3 of 4

M4PS dim to WARM
4.5″ MRI Shallow Plenum Downlight – Square

MOUNTING HARDWARE DETAILS

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

14″ minimum
24″ maximum

Mounts to t-bar
or nailer bar

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)
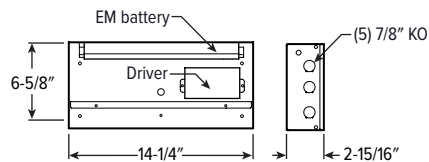
14″ minimum
24″ maximum

Mounts to t-bar or nailer bar
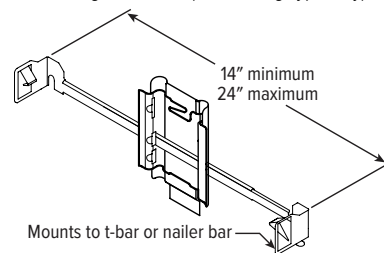
REMOTE DRIVER ENCLOSURE DETAILS (ORDERED & SHIPPED SEPARATELY)

REMOTE DRIVER ENCLOSURE FOR SINGLE FIXTURE

Driver

(5) 7/8″ KO

5-1/8″

6-1/2″

1-9/16″
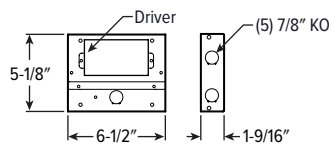
REMOTE DRIVER ENCLOSURE FOR SINGLE FIXTURE WITH EMERGENCY BATTERY

EM battery

(5) 7/8″ KO

Driver

6-5/8″

14-1/4″

2-15/16″

REMOTE DRIVER ENCLOSURE FOR 2 - 8 FIXTURES

(4) blade holders
(2) drivers per blade

(12) 7/8″ KO

16″

2″ hole

12-1/16″

4-3/4″
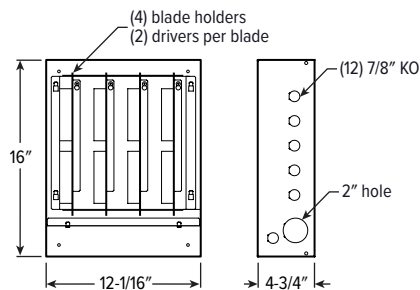
REMOTE DRIVER ENCLOSURE FOR 9 - 12 FIXTURES

(6) blade holders
(2) drivers per blade

(16) 7/8″ KO

16″

2″ hole

18-1/16″

4-3/4″

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Downlights
Page 4 of 4