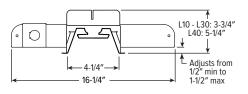


14PS LED 4.5" MRI Shallow Plenum Downlight – Square







CATALOG #:	 	
TYPE:	 	
PROJECT:		

FEATURES

- Designed with non-ferrous materials for MRI imaging suites
- IP65-rated die-cast trim includes easy-toclean flush lens
- Slim 5" depth for minimal plenum space applications
- Beam angles ranging from 30° narrow to 75° 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
- Industry-leading efficacies as high as 99 lm/W
- 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, tempered glass
- 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.
- MOUNTING Recessed. Aluminum mounting pan for new construction or IC-rated enclosure. Minimum 24' O.C. marked spacing required for L40 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
 - 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.

HOUSING

SERIES	LUMENS [1]	CRI	CCT	OPTIONS
M4PS	L10 1,000lm L15 1,500lm L20 2,000lm L30 3,000lm L40 4,000lm	8 80 9 90 ^[2]	27 2700K 30 3000K 35 3500K 40 4000K 50 5000K	ATH Airtight construction CP Chicago plenum (CCEA) [3]

- HOLISING -

ORDERING EXAMPLE: M4PS - L40/835 - OPTIONS, - LW - OF - WH - TRIM OPTIONS,

TRIM [4]

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

MOUNTING

MOUNTING TYPE [10]

N Open pan for new construction

I IC-rated enclosure for new construction [12]

MOUNTING HARDWARE [11]

Factory-installed 2-position fixed pan bracket, universal bar hanger included $^{\mbox{\scriptsize [13]}}$

_ TRIM .

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 - RDB1 - L20 - OPTIONS - DIM - UNV

SERIES	DRIVER BOX	DRIVER QT	Y. LUMENS	OPTIONS	DRIVER [17]	VOLTAGE
M4PS	RDB Remote driver enclosure	1 7 2 8 3 9 4 10 5 11 6 12	L10 1,000lm L15 1,500lm L20 2,000lm L30 3,000lm L40 4,000lm	EM/12W 12-watt emergency battery [18] F Fuse kit SDT Stepdown transformer [19]	DIM Dimming driver, 0-10V DIM1 1% Dimming driver, 0-10V	UNV 120-277V 347 347V [20]

NOTES

- Lumen output based on W distribution and WH finish, 3500K/80CRI. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- Extended lead times may apply. Consult factory for availability.
- I Mounting Type required. Trim ships separately.
- 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 or IP options. Wide distribution only.

- Wide distribution only.
 WH and BL Reflector Finishes only.
 Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 3 for MOUNTING TYPE DETAILS.
- See page 4 for MOUNTING HARDWARE DETAILS.
- L30 lumen package max.
 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).
 All drivers dimmed by single control signal. See page 3 for ADDITIONAL DRIVER OPTIONS.
 Available with RDB1 only.

- May be required for 347V, see product builder at
- hew.com/product-builder.

 20 Not available with EM batteries or DMX controls.

M4PS LED 4.5" MRI Shallow Plenum Downlight – Square

FIXTURE PERFORMANCE DATA

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	1029	10.7	96.0
19	M	1064	10.7	99.2
	N	1030	10.7	96.0
	W	1581	17.2	91.8
115	M	1634	17.2	94.8
	N	1581	17.2	91.8
	W	2058	23.5	87.7
120	M	2127	23.5	90.6
	N	2059	23.5	87.7
	W	3087	33.2	92.9
130	M	3191	33.2	96.1
	N	3088	33.2	93.0
	W	4116	44.7	92.0
149	M	4254	44.7	95.3
	N	4117	44.7	92.2

MULTIPLIER TABLES

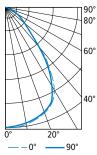
	COLOR TEMPERATURE					
	ССТ	CONVERSION FACTOR				
	2700K	0.92				
~	3000K	0.98				
80 CRI	3500K	1.00				
∞	4000K	1.01				
	5000K	1.02				
	2700K	0.76				
~	3000K	0.79				
90 CRI	3500K	0.82				
6	4000K	0.84				
	5000K	0.88				

TRIM		
CATALOG CONVERSION FACTOR		
AD	0.85	
PD	0.85	

- 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 3500K, 80 CRI, actual lumens may vary +/-5% Use multiplier tables to calculate additional options.

PHOTOMETRY

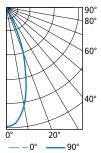
M4PS-L40/835-DIM-UNV-LW-OF-WH Total Luminaire Output: 4116 lumens; 44.7 Watts | Efficacy: 92.0 lm/W | 82.8 CRI; 3431K CCT



	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS
8	0	2316	2316	2316	
CANDLEPOWER DISTRIBUTION	5	2315	2303	2302	220
문	15	2232	2221	2065	629
S	25	2087	2092	2065	964
꼺	35	1483	1764	1441	1016
Š	45	667	1028	644	620
굨	55	382	429	367	358
ᅙ	65	208	205	203	205
2	75	88	87	87	93
	85	13	12	10	12
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
Σ	0 - 30	1813	44
S	0 - 40	2829	69
핊	0 - 60	3806	93
⋛	0 - 90	4116	100
_	0 - 180	4116	100

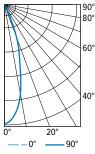
M4PS-L40/835-DIM-UNV-LM-OF-WH Total Luminaire Output: 4261 lumens; 44.7 Watts | Efficacy: 95.3 lm/W | 82.8 CRI; 3431K CCT



	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS
S	0	9143	9143	9143	
CANDLEPOWER DISTRIBUTION	5	8842	8817	8847	842
뭂	15	6053	6054	6011	1714
S	25	2094	2085	2088	967
곮	35	611	616	649	388
No.	45	226	244	238	182
Ĕ,	55	100	111	103	93
ᅙ	65	48	52	52	50
S	75	21	21	24	22
	85	1	3	2	2
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
Σ	0 - 30	3523	83
S	0 - 40	3911	92
핕	0 - 60	4186	98
≧	0 - 90	4261	100
	0 - 180	4261	100

M4PS-L40/835-DIM-UNV-LN-OF-WH Total Luminaire Output: 4122 lumens; 44.7Watts | Efficacy: 92.2 lm/W | 82.8 CRI; 3431K CCT



	VERTICAL ANGLE	HORIZ	ZONTAL A	ZONAL LUMENS	
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS
CANDLEPOWER DISTRIBUTION	0	10746	10746	10746	
5	5	10121	10033	10007	958
문	15	5673	5741	5643	1618
S	25	1750	1904	1859	850
2	35	485	522	550	324
No.	45	208	221	228	170
Œ,	55	118	129	125	112
ᅙ	65	57	67	63	63
CA	75	22	26	26	26
	85	0	2	3	2
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
Σ	0 - 30	3425	83
S	0 - 40	3750	91
딟	0 - 60	4031	98
]	0 - 90	4122	100
	0 - 180	4122	100

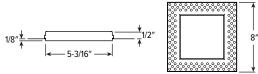
M4PS LED 4.5" MRI Shallow Plenum Downlight – Square

FLANGE TYPE DETAILS





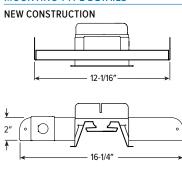


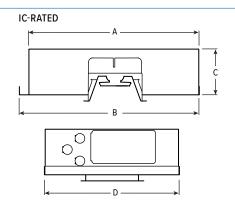


REFLECTOR FINISH DETAILS



MOUNTING TYPE DETAILS





	LENGTH			
LUMENS	Α	В	С	D
L10 - L20	15-3/16"	16"	4-1/8"	12-1/8"
L30	15-3/16"	16"	5-7/8"	12-1/8"

ADDITIONAL DRIVER OPTIONS

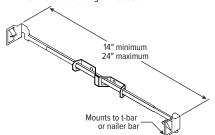
Lumen restrictions apply: L30 max for DMX driver, L30 max for Lutron drivers. 347V may require stepdown transformer, see product builder at hew.com/product-builder.

CATALOG NUMBER	DESCRIPTION
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DMX	0.1% dimming driver for DMX controls
LTE LINE	Lutron Hi-lume 1% 2-wire dimming driver forward phase line voltage controls (120V only)
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
LDE5	Lutron 5-Series 5% EcoSystem dimming LED driver
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls

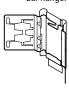
M4PS LED 4.5" MRI Shallow Plenum Downlight – Square

MOUNTING HARDWARE DETAILS

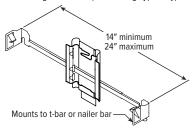
F1M Factory-installed 2-position fixed pan bracket, universal bar hanger included



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

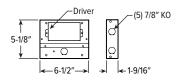


CA1M Adjustable caterpillar pan bracket, aluminum, universal bar hanger included (N Mounting Type only)

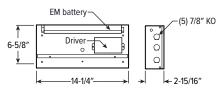


REMOTE DRIVER ENCLOSURE DETAILS (ORDERED & SHIPPED SEPARATELY)

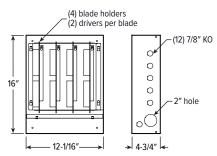
REMOTE DRIVER ENCLOSURE FOR SINGLE FIXTURE



REMOTE DRIVER ENCLOSURE FOR SINGLE FIXTURE WITH EM/12W



REMOTE DRIVER ENCLOSURE FOR 2 - 8 FIXTURES



REMOTE DRIVER ENCLOSURE FOR 9 - 12 FIXTURES

