



# M6PS tunable WHITE 6" MRI Shallow Plenum Downlight – Square

## FEATURES

- 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
- Slim 5" depth for minimal plenum space applications
- Beam angles ranging from 30° narrow to 85° wide for tailored performance
- 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
- 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".
- 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. Minimum 24" O.C. marked spacing required for L42 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.
  - 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.
  - IP65 rated trim when specified with IP 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](http://hew.com/baa).
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

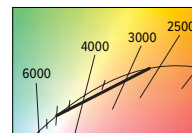
## FIXTURE PERFORMANCE DATA

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L12	W	1267	14.6	87
	M	1203	14.6	82
	N	1154	14.6	79
L20	W	2205	24.0	92
	M	2098	24.0	87
	N	2018	24.0	84
L42	W	4466	46.7	96
	M	-	-	-
	N	-	-	-

## 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

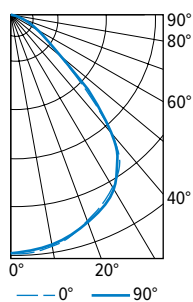
TRIM	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85



- Photometrics tested in accordance with IESNA LM-79. Results based on L Trim Type, WH Reflector Finish, W 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

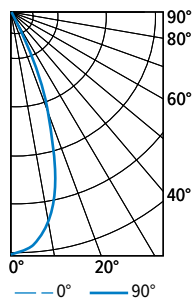
**M6PS-L20/8TW-DIM-UNV-LW-OF-WH** Total Luminaire Output: 2205 lumens; 24.0 Watts | Efficacy: 91.9 lm/W | 80 CRI; 4000K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1091	1091	1091	
5	1091	1085	1082	103
15	1052	1044	1047	295
25	978	968	976	449
35	868	867	847	533
45	518	654	513	440
55	196	307	188	223
65	94	114	94	104
75	41	44	42	47
85	8	7	8	10
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	848	38
	0 - 40	1380	63
	0 - 60	2043	93
	0 - 90	2205	100
	0 - 180	2205	100

**M6PS-L20/8TW-DIM-UNV-LM-OF-WH** Total Luminaire Output: 2098 lumens; 24.0 Watts | Efficacy: 87.4 lm/W | 80 CRI; 4000K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	4312	4312	4312	
5	4225	4197	4169	387
15	2964	2989	3007	803
25	967	1014	1011	495
35	289	305	306	203
45	121	130	129	102
55	61	68	61	59
65	30	33	30	31
75	12	13	12	14
85	1	2	1	3
90	0	0	0	

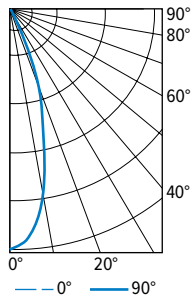
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1686	80
	0 - 40	1889	90
	0 - 60	2050	98
	0 - 90	2098	100
	0 - 180	2098	100

PHOTOMETRY CONTINUED ON NEXT PAGE.



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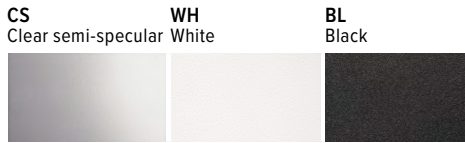
M6PS-L20/8TW-DIM-UNV-LN-OF-WH Total Luminaire Output: 2018 lumens; 24.0 Watts | Efficacy: 84.1 lm/W | 80 CRI; 4000K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	4898	4898	4898	
5	4658	4622	4619	418
15	2723	2748	2731	749
25	849	907	892	436
35	252	266	271	180
45	120	130	129	100
55	74	85	77	72
65	41	46	42	44
75	15	17	15	18
85	1	1	1	3
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1603	79
	0 - 40	1783	88
	0 - 60	1954	97
	0 - 90	2018	100
	0 - 180	2018	100

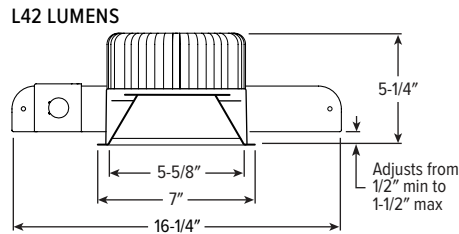
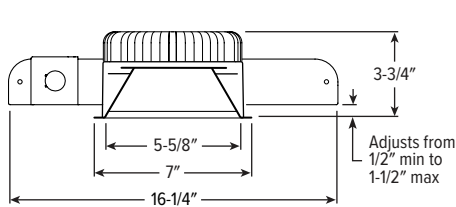
## REFLECTOR FINISH DETAILS



## CROSS SECTIONS

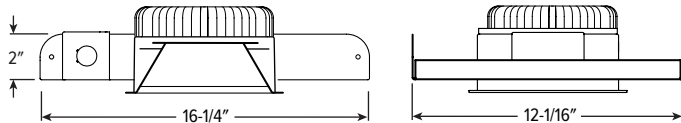
Ceiling cutout  $\varnothing 6-1/2"$

L12 – L20 LUMENS

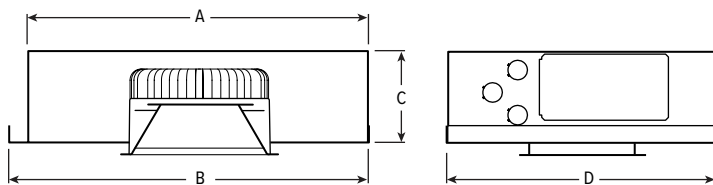


## MOUNTING TYPE DETAILS

NEW CONSTRUCTION



IC-RATED



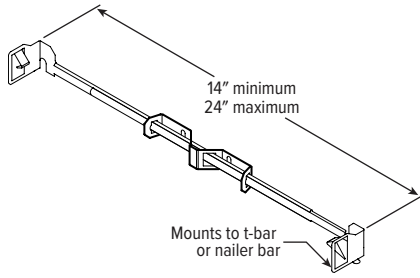
LUMENS	LENGTH			
	A	B	C	D
L12	15-3/16"	16"	4-1/8"	12-1/8"
L20	15-3/16"	16"	5-7/8"	12-1/8"

MOUNTING DETAILS CONTINUED ON NEXT PAGE.

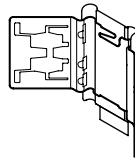
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## MOUNTING HARDWARE DETAILS

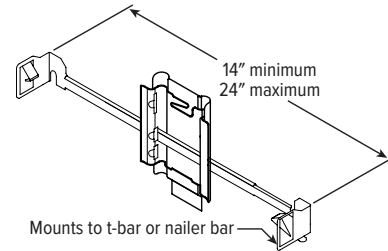
**F1M** Factory-installed 2-position fixed pan bracket, universal bar hanger included



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

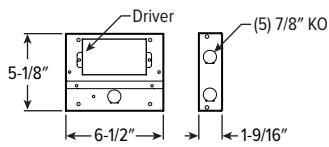


**CA1M** Adjustable caterpillar pan bracket, aluminum, universal bar hanger included (N Mounting Type only)

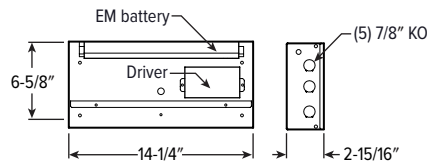


## REMOTE DRIVER ENCLOSURE DETAILS (ORDERED & SHIPPED SEPARATELY)

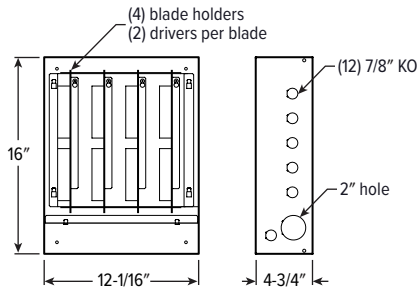
REMOTE DRIVER ENCLOSURE FOR SINGLE FIXTURE



REMOTE DRIVER ENCLOSURE FOR SINGLE FIXTURE WITH EMERGENCY BATTERY



REMOTE DRIVER ENCLOSURE FOR 2 - 8 FIXTURES



REMOTE DRIVER ENCLOSURE FOR 9 - 12 FIXTURES

