JUNO

Project:

Fixture Type:

Location:

Contact/Phone:

TRAC-MASTER®

MH[™] Metal Halide Trac

CONCENTRIC CYLINDER T4, G8.5 LAMPHOLDERS

TM232

D1.12.18

PRODUCT DESCRIPTION

The ultra-compact Concentric Cylinder combines a simple aesthetic with premium performance. Available in spot, narrow flood and flood beam distributions, its computer contoured highly polished faceted specular aluminum reflector is securely mounted to the lamp shroud for precise optical alignment with the lamp. The lamp shroud has a 1" deep integral step baffle for optimal shielding and brightness control. The detachable lamp shroud is easily removed for simplified fixture maintenance. Uniform light distribution is accomplished with a clear lens for maximum luminaire efficiency. The clear lens can be replaced with a variety of 2.75" media accessories for optimum beam control. Combined with the new vertical ballast design, the MHv Series offers practical functionality with one of the smallest footprints in CMH Trac fixtures.

T4 ceramic metal halide lamps produce light output equivalent to halogen lamps of 3-4 times the wattage. They produce a crisp, white light in 3000K or 4200K color temperature with a color rendering index of up to 90+. Combined with new electronic ballast technology, these lamps last up to 15,000 hours with no perceived shift in color temperature. Ceramic metal halide trac fixtures are ideal for accent and perimeter lighting from higher ceilings and/or to create dramatic accents in settings, such as display windows, where contrast with high ambient light levels are required.

PRODUCT SPECIFICATIONS

Construction Die cast aluminum socket housing and lamp shroud • Coarse thread attachment of socket housing and lamp shroud simplifies fixture maintenance • Die formed steel yoke.

Socket G8.5 bi-pin base, ceramic/PPS • 5kV rated with nickel plated contacts.

Aiming Full 360° horizontal coverage eliminates aiming dead spots • 90° vertical aiming capability.

Optics Computer contoured highly polished faceted specular aluminum reflector is securely mounted to lamp shroud for precise optical alignment with lamp and facilitates simplified relamping • Choice of spot, narrow flood or flood optical distributions • Lamp shroud has 1" deep integral baffle for optimal shielding and brightness control • Uniform light distribution is accomplished with clear lens for maximum luminaire efficiency.

Lens Fixture includes clear glass lens • Lens may be replaced with 2.75" dia. media accessory listed below to customize lighting effects.

Juno Universal Trac Adapter Universally compatible with both Trac-Master 1-circuit or 2-circuit trac, Trac-Lites trac, monopoints and special mountings • Also UL Recognized for use on ConTech® LT Series track • Oversized trac adapter for greater mounting stability • Copper alloy contacts provide precise spring action - no arcing and will not take a set • True, positive electrical ground • On/off switch included • Patented embossed polarity arrows on bottom of adapter • Spring-loaded positive latch with embossed polarity arrows secures trac light to trac • Two-position power contact provided for two-circuit application.

Alternate TEK/HTEK Trac Adapter Compatible with either Juno TEK or HTEK trac systems • System specific and assembled to trac fixture • Integrally polarized construction to prevent reverse installation – only allows insertion in proper orientation • Rotary circuit selector enables simple switching between circuits • Integral on/off switch enables individual fixtures to be switched for servicing.

Alternate GTYPE Trac Adapter Compatible with track systems based on GES type track, including Lithonia LT Commercial Track (not LTS type) • System specific and assembled to trac fixture • Consult factory for additional information.

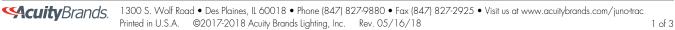
Alternate HTYPE Trac Adapter Compatible with track systems which use a H-type track adapter, including Lithonia LTS Decorative Track (not LT type) • System specific and assembled to trac fixture • Two-position power contact provided for two-circuit application • Consult factory for additional information.

Alternate LTYPE Trac Adapter Compatible with track systems which use a L-type track adapter • System specific and assembled to trac fixture • Two-position power contact provided for two-circuit application • Consult factory for additional information.

Ballast Premium, high efficiency electronic enclosed in an extruded aluminum monolith • Provides optimum color stability and CRI uniformity from fixture to fixture • Controlled lamp output ensures stable normal operation maximizing lamp life • Faster hot restrike and lamp warm-up time compared to magnetic ballast • Automatic resetting thermal protection • MOV transient protection • End-of-life shutdown prevents nuisance cycling and flashing.

Labels UL and C-UL Listed • Union made • Assembled in U.S.A.

Specifications subject to change without notice.



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ORDERING INFORMATION

Lamp 70W or 100W ED17 medium base ceramic metal halide lamp.

Series		Mounting	g Adapter Type	Lamp	Туре	Distri	oution	Finish			
TM232	T4/ T4.5 Metal Halide	(Blank) TEK HTEK' GTYPE HTYPE LTYPE	Universal 120V Trac Adapter TEK 120V Trac Adapter HTEK 277V Trac Adapter G-Type Trac Adapter H-Type Trac Adapter L-Type Trac Adapter	39M	20W Metal Halide 39W Metal Halide 70W Metal Halide	SP NFL FL	Spot Narrow Flood Flood	BL SL WH	Black Silver White		
Accessor	ies										
HCLBL 2 CGF 27		ıgonal Cel r Glass Fili		OLITE 22 RISM 27		Uniformity Lens (Solite) Prismatic Spread Glass Lens					

LSPREAD 275

TMR1 MINI SPT

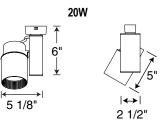
TMR1 MINI NFLD

Linear Spread Glass Lens

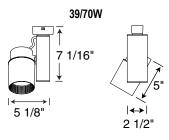
Reflector Assembly - Spot

Reflector Assembly - Flood

Reflector Assembly - Narrow Flood



Ordering Examples: TM232 70M SP WH, TM232 TEK 70M SP BL



UVF 275	UV Filter	TMR1 MINI FLD
See specific	cation sheet <u>D1.2.0</u> and <u>D1.1</u>	2.2 for details

Dichroic Color Correction Filter

Dichroic Glass Filter

Diffusion Glass Lens

Notes:

DGF 275

DCCF 275

DIFF 275

1 Alternate HTEK 277V Trac Adapter compatible with 20M and 39M Lamp Types only.

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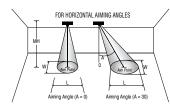
TM232

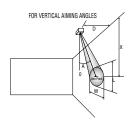
ENGINEERING DATA

	20W	39W	70W
ANSI #	M-156	M-130	M-98/M-139/M-143
Input Voltage	120V	120V	120V
Input Current	0.20A	0.38A	0.64A
Input Power	24.5W	45W	75W
Power Factor	>.90	>.90	>.90
Lamp Current Crest Factor	<1.4 Тур.	<1.5 Typ.	<1.4 Тур.
Ballast Factor	1.0 Typ.	1.0 Typ.	1.0 Typ.
T.H.D.	<20%	<20%	<20%
Max. Recommended Ambient			
Operating Temperature	40° C	40° C	40° C
EMI	FCC Part 18 Class B	FCC Part 18 Class B	FCC Part 18 Class B
Sound Rating	A	Α	A

CBCP · Centerbeam candlepower FC · Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°, 1.732 for 60°).





						— Hori:	zontal ,	al Aiming Angles —							Vertical Aiming Angles —										
	Beam	Beam	Rated			0 °			30°				30°			45 °					60°				
Lamp 39W T4 G8.5 Ceramic Metal Halide		Spread 10°	Life 1 2000	CBCP 28630	MH 10 12 14 16 18	FC 286 199 146 112 88	1.7 2.1 2.4 2.8 3.1	W 1.7 2.1 2.4 2.8 3.1	FC 186 129 95 73 57	L 2.3 2.8 3.3 3.7 4.2	W 2.0 2.4 2.8 3.2 3.6	D 4 6 8 10 12	FC 224 99 56 36 25	Х 6.9 10.4 13.9 17.3 20.8	L 2.9 4.3 5.7 7.2 8.6	W 1.4 2.1 2.8 3.5 4.2	FC 633 281 158 101 70	X 4.0 6.0 8.0 10.0 12.0	1.4 2.1 2.8 3.5 4.2	W 1.0 1.5 2.0 2.5 3.0	D 6 9 12 15 18	FC 517 230 129 83 57	X 3.5 5.2 6.9 8.7 10.4	0.9 1.4 1.9 2.3 2.8	W 0.8 1.2 1.6 2.0 2.4
	NFL	23°	12000	10174	8 10 12 14 16	159 102 71 52 40	3.3 4.1 4.9 5.7 6.5	3.3 4.1 4.9 5.7 6.5	103 66 46 34 26	4.4 5.5 6.6 7.7 8.8	3.8 4.7 5.6 6.6 7.5	2 4 6 8 10	318 79 35 20 13	3.5 6.9 10.4 13.9 17.3	3.7 7.4 11.2 14.9 18.6	1.6 3.3 4.9 6.5 8.1	899 225 100 56 36	2.0 4.0 6.0 8.0 10.0	1.7 3.4 5.1 6.8 8.5	1.2 2.3 3.5 4.6 5.8	4 6 8 10 12	413 184 103 66 46	2.3 3.5 4.6 5.8 6.9	1.1 2.2 3.3 4.4 5.5	0.9 1.9 2.8 3.8 4.7
	FL	32°	12000	5799	8 10 12 14 16	91 58 40 30 23	4.6 5.7 6.9 8.0 9.2	4.6 5.7 6.9 8.0 9.2	59 38 26 19 15	6.3 7.9 9.4 11.0 12.6	5.3 6.6 7.9 9.3 10.6	2 3 4 5 6	181 81 45 29 20	3.5 5.2 6.9 8.7 10.4	6.1 9.1 12.2 15.2 18.3	2.3 3.4 4.6 5.7 6.9	513 228 128 82 57	2.0 3.0 4.0 5.0 6.0	2.5 3.7 5.0 6.2 7.5	1.6 2.4 3.2 4.1 4.9	2 3 4 5 6	942 419 235 151 105	1.2 1.7 2.3 2.9 3.5	1.6 2.4 3.1 3.9 4.7	1.3 2.0 2.6 3.3 4.0

For 20W lamps use 0.47 multiplier. For 70W lamps use 1.82 multiplier. The beam spread in degrees and the beam "L" and "W" in the following tables are computed at 50% of centerbeam candlepower and represent areas of "effective illumination." **Due to steep aiming angle, length of beam extends beyond 25'.

