JUNO®

TRAC-MASTER®

MHv™ Metal Halide Trac

UNIVERSAL PAR LAMPHOLDER

TM201

Project:

Fixture Type:

Location:

Contact/Phone:

PRODUCT DESCRIPTION

Simplicity and versatility are the keys for the MHv™ Universal. This very compact, low-profile lampholder mounts at a the side of the ballast housing and accommodates PAR20 through PAR38 lamps. While aesthetically simple, it still features nearly 360 degree horizontal rotation. Combined with the new vertical ballast design, the MHv Series offers practical functionality with one of the smallest footprints in CMH Trac fixtures.

Ceramic metal halide lamps produce light output equivalent to halogen PAR lamps of 3-4 times the wattage. They produce a crisp, white light in either 3000K or 4000K color temperature with a color rendering index of up to 90+. Combined with new electronic ballast technology, these lamps last up to 13,000 hours with no perceived shift in color temperature. Ceramic arc 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 Drawn steel socket cup • Extruded aluminum vertically mounted ballast housing.

Socket Medium base, glazed porcelain • 4kV rated with nickel plated copper screw shell.

Aiming Nearly 360˚ horizontal rotation helps to eliminate aiming dead spots • 90˚ vertical aiming capability.

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 and CRI uniformity from fixture and fixture • Controlled starting current and stable normal operation maximizes 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 listed •, CSA certified • Union made • Assembled in U.S.A.

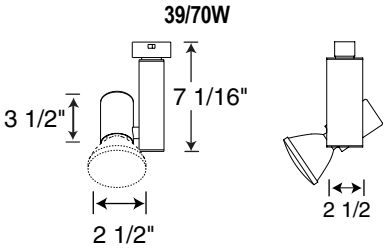
Specifications subject to change without notice.

ORDERING INFORMATION

Ordering Examples: TM201 39M WH, TM201 TEK 39M BL

Lamp 39W to 70W PAR20, PAR30L or PAR38 medium base ceramic metal halide lamp.

Series	Mounting Adapter Type	Lamp Type	Finish
TM201 PAR Metal Halide	**(Blank)** Universal 120V Trac Adapter **TEK** TEK 120V Trac Adapter **HTEK** HTEK 277V Trac Adapter **GTYPE** G-Type Trac Adapter **HTYPE** H-Type Trac Adapter **LTYPE** L-Type Trac Adapter	**39M** 39W Metal Halide **70M** 70W Metal Halide	**BL** Black **SL** Silver **WH** White



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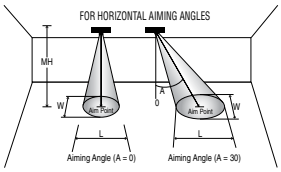
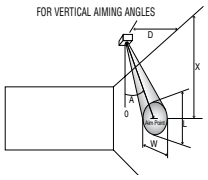
ENGINEERING DATA

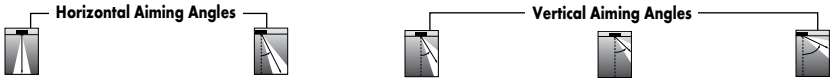
	39W	70W
ANSI #	M-130	M-98/M-139/M-143
Input Voltage	120V	120V
Input Current	0.38A	0.64A
Input Power	45W	75W
Power Factor	>.90	>.90
Lamp Current Crest Factor	<1.5 Typ.	<1.4 Typ.
Ballast Factor	1.0 Typ.	1.0 Typ.
T.H.D.	<20%	<20%
Max. Recommended Ambient Operating Temperature	40° C	40° C
EMI	FCC Part 18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







Lamp	Beam Type		Rated Life	CBCP	0° MH	0° FC	0° L	0° W	30° FC	30° L	30° W	30° D	30° FC	30° X	30° L	30° W	45° FC	45° X	45° L	45° W	60° D	60° FC	60° X	60° L	60° W
39W PAR20 Ceramic Metal Halide	SP	10°	9000	23000	10	230	1.7	1.7	149	2.3	2.0	4	180	6.9	2.9	1.4	508	4.0	1.4	1.0	6	415	3.5	0.9	0.8
					12	160	2.1	2.1	104	2.8	2.4	6	80	10.4	4.3	2.1	226	6.0	2.1	1.5	9	184	5.2	1.4	1.2
					14	117	2.4	2.4	76	3.3	2.8	8	45	13.9	5.7	2.8	127	8.0	2.8	2.0	12	104	6.9	1.9	1.6
					16	90	2.8	2.8	58	3.7	3.2	10	29	17.3	7.2	3.5	81	10.0	3.5	2.5	15	66	8.7	2.3	2.0
					18	71	3.1	3.1	46	4.2	3.6	12	20	20.8	8.6	4.2	56	12.0	4.2	3.0	18	46	10.4	2.8	2.4
	FL	30°	9000	5000	6	139	3.2	3.2	90	4.4	3.7	2	156	3.5	5.5	2.1	442	2.0	2.3	1.5	4	203	2.3	1.5	1.2
					7	102	3.8	3.8	66	5.1	4.3	4	39	6.9	10.9	4.3	110	4.0	4.6	3.0	6	90	3.5	2.9	2.5
					8	78	4.3	4.3	51	5.9	5.0	6	17	10.4	16.4	6.4	49	6.0	6.9	4.5	8	51	4.6	4.4	3.7
					9	62	4.8	4.8	40	6.6	5.6	8	10	13.9	21.9	8.6	28	8.0	9.2	6.1	10	32	5.8	5.9	5.0
					10	50	5.4	5.4	32	7.3	6.2	10	6	17.3	**	10.7	18	10.0	11.5	7.6	12	23	6.9	7.3	6.2

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'.

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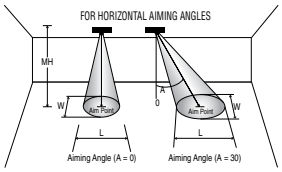

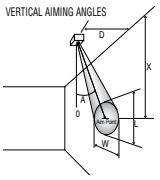

Horizontal Aiming Angles

Vertical Aiming Angles

Lamp	Beam Type	Beam Spread°	Rated Life	CBCP	0° MH	0° FC	0° L	0° W	30° FC	30° L	30° W	30° D	30° FC	30° X	30° L	30° W	45° FC	45° X	45° L	45° W	60° D	60° FC	60° X	60° L	60° W
39W PAR30L Ceramic Metal Halide	SP	**10°**	9000	44000	10	440	1.7	1.7	286	2.3	2.0	4	344	6.9	2.9	1.4	972	4.0	1.4	1.0	6	794	3.5	0.9	0.8
					12	306	2.1	2.1	198	2.8	2.4	6	153	10.4	4.3	2.1	432	6.0	2.1	1.5	9	353	5.2	1.4	1.2
					14	224	2.4	2.4	146	3.3	2.8	8	86	13.9	5.7	2.8	143	8.0	2.8	2.0	12	198	6.9	1.9	1.6
					16	172	2.8	2.8	112	3.7	3.2	10	55	17.3	7.2	3.5	156	10.0	3.5	2.5	15	127	2.9	3.0	2.6
					18	136	3.1	3.1	88	4.2	3.6	12	38	20.8	8.6	4.2	108	12.0	4.2	3.0	18	88	10.4	2.8	2.4
	FL	**30°**	9000	7400	6	206	3.2	3.2	134	4.4	3.7	2	231	3.5	5.5	2.1	654	2.0	2.3	1.5	4	300	2.3	1.5	1.2
					8	116	4.3	4.3	75	5.9	5.0	4	58	6.9	10.9	4.3	164	4.0	4.6	3.0	6	134	3.5	2.9	2.5
					10	74	5.4	5.4	48	7.3	6.2	6	26	10.4	16.4	6.4	73	6.0	6.9	4.5	8	75	4.6	4.4	3.7
					12	51	6.4	6.4	33	8.8	7.4	8	14	13.9	21.9	8.6	41	8.0	9.2	6.1	10	48	5.8	5.9	5.0
					14	38	7.5	7.5	25	10.2	8.7	10	9	17.3	**	10.7	26	10.0	11.5	7.6	12	33	6.9	7.3	6.2
70W PAR30L Ceramic Metal Halide	SP	**10°**	11000	68000	10	680	1.7	1.7	442	2.3	2.0	6	236	10.4	4.3	2.1	668	6.0	2.1	1.5	7	901	4.0	1.6	1.4
					14	347	2.4	2.4	225	3.3	2.8	8	133	13.9	5.7	2.8	376	8.0	2.8	2.0	8	690	4.6	1.9	1.6
					18	210	3.1	3.1	136	4.2	36	10	85	17.3	7.2	3.5	240	10.0	3.5	2.5	9	545	5.2	2.1	1.8
					22	140	3.8	3.8	91	5.1	4.4	12	59	20.8	8.6	4.2	167	12.0	4.2	3.0	9	545	5.2	2.1	1.8
					24	118	4.2	4.2	77	5.6	4.8	14	43	24.2	10.0	4.9	123	14.0	4.9	3.5	10	442	5.8	2.3	2.0
	FL	**40°**	11000	10000	6	278	4.4	4.4	180	6.1	5.0	2	313	3.5	9.7	2.9	884	2.0	3.4	2.1	4	406	2.3	4.1	3.4
					8	156	5.8	5.8	101	8.1	6.7	3	139	5.2	14.5	4.4	393	3.0	5.0	3.1	5	260	2.9	5.1	4.2
					10	100	7.3	7.3	65	10.2	8.4	4	78	6.9	19.3	5.8	221	4.0	6.7	4.1	6	180	3.5	6.1	5.0
					12	69	8.7	8.7	45	12.2	10.1	5	50	8.7	24.2	7.3	141	5.0	8.4	5.1	6	180	3.5	6.1	5.0
					14	51	10.2	10.2	33	14.2	11.8	6	35	10.4	**	8.7	98	6.0	10.1	6.2	7	133	4.0	7.1	5.9
70W PAR38 Ceramic Metal Halide	SP	**15°**	12000	40000	10	400	2.6	2.6	260	3.5	3.0	4	313	6.9	4.4	2.1	884	4.0	2.1	1.5	6	722	3.5	1.4	1.2
					12	278	3.2	3.2	180	4.2	3.6	6	139	10.4	6.7	3.2	393	6.0	3.2	2.2	9	321	5.2	2.1	1.8
					14	204	3.7	3.7	133	4.9	4.3	8	78	13.9	8.9	4.2	221	8.0	4.3	3.0	12	180	6.9	2.8	2.4
					16	156	4.2	4.2	101	5.6	4.9	10	50	17.3	11.1	5.3	141	10.0	5.4	3.7	15	115	8.7	3.5	3.0
					18	123	4.7	4.7	80	6.4	5.5	12	35	20.8	13.3	6.3	98	12.0	6.4	4.5	18	80	10.4	4.2	3.6
	SP	**25°**	12000	16000	8	250	3.5	3.5	162	4.8	4.1	2	500	3.5	4.2	1.8	1414	2.0	1.9	1.3	4	650	2.3	1.2	1.0
					10	160	4.4	4.4	104	6.0	5.1	4	125	6.9	8.3	3.5	354	4.0	3.7	2.5	6	289	3.5	2.4	2.0
					12	111	5.3	5.3	72	7.2	6.1	6	56	10.4	12.5	5.3	157	6.0	5.6	3.8	8	162	4.6	3.6	3.1
					14	82	6.2	6.2	53	8.4	7.2	8	31	13.9	16.6	7.1	88	8.0	7.5	5.0	10	104	5.8	4.8	4.1
					16	63	7.1	7.1	41	9.6	8.2	10	20	17.3	20.8	8.9	57	10.0	9.3	6.3	12	72	6.9	6.0	5.1
	WFL	**65°**	12000	3500	4	219	5.1	5.1	142	7.9	5.9	1	438	1.7	**	2.5	1237	1.0	4.3	1.8	2	568	1.2	2.0	1.5
					6	97	7.6	7.6	63	11.8	8.8	2	109	3.5	**	5.1	309	2.0	8.6	3.6	3	253	1.7	3.9	2.9
					8	55	10.2	10.2	36	15.7	11.8	3	49	5.2	**	7.6	137	3.0	12.9	5.4	4	142	2.3	5.9	4.4
					10	35	12.7	12.7	23	19.6	14.7	4	27	6.9	**	10.2	77	4.0	17.2	7.2	5	91	2.9	7.9	5.9
					12	24	15.3	15.3	16	**	17.7	5	18	8.7	**	12.7	80	16.0	8.6	6.0	6	63	3.5	9.8	7.4

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'.

