

MHv[®] Metal Halide Trac
CYLINDRA™ PAR LAMPHOLDERS
TM245 AND TM246

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

PRODUCT DESCRIPTION

The contemporary styling of the Cylindra fixture enables it to subtly enhance practically any decor without diverting attention from the surrounding environment. Soft curved surfaces combine with clean, crisp edges to provide a uniquely attractive aesthetic. Cylindra's integral, bayonet-mounted accessory holder accommodates up to two accessories simultaneously. 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 80+. Combined with new electronic ballast technology, these lamps last up to 13,000 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 housing • Extruded aluminum vertically mounted ballast housing.

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

Accessory Holder Integral to fixture design • Die cast aluminum construction • Precision bayonet mounting design • Accommodates up to two accessories simultaneously.

Aiming Full 360° horizontal coverage eliminates 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.

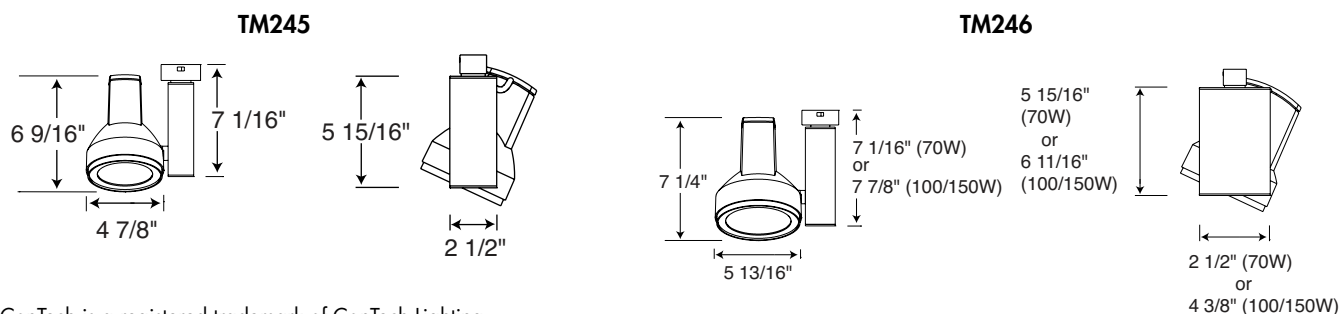
Alternate LTYPE Trac Adapter Compatible with track systems which use a L-type track adapter • System specific and assembled to trac fixture • Two-position power contact provided for two-circuit application • Consult factory for additional information.

Ballast Premium, high efficiency electronic enclosed in an extruded aluminum monolith • Provides optimum color 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.

DIMENSIONS



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TRAC-MASTER®

MHv™ Metal Halide Trac CYLINDRA™ PAR LAMP HOLDERS TM245 AND TM246

ORDERING INFORMATION

Ordering Example: TM245 TEK 39M BL

Lamp 39W or 70W PAR30L medium base ceramic metal halide lamp.

Series	Mounting Adapter Type	Lamp Type	Finish
TM245 Trac-Master® MHv Cylindra™ PAR30L	(Blank) Universal 120V Trac Adapter	39M 39W Metal Halide	BL Black SL Silver WH White
	HTEK HTEK 277V Trac Adapter	70M 70W Metal Halide	
	TEK TEK 120V Trac Adapter		
	GTYPE G-Type Trac Adapter		
	HTYPE H-Type Trac Adapter		
	LTYPE L-Type Trac Adapter		

Accessories			
HCLBL 375 Hexcell Louver - Black	DGF 375 Dichroic Filters	SOLITE 375 Uniformity Lens	
CCLBL 375 Cube Cell Louver	DCCF 375 Color Correction Filter	PRISM 375 Prismatic Spread Lens	
SNOOTBL 375 Snoot - Black	DIFF 375 Diffusion Lens	LSPREAD 375 Linear Spread Lens	
CGF 375 Color Filters	UVF 375 UV Filter	T40N¹ Monopoint	

See specification sheet [D1.2.0](#) and [D1.2.2](#) for details.

Notes:

1 Add finish code to complete catalog number (Example: T40N WH).

ORDERING INFORMATION

Ordering Example: TM246 TEK 70M BL

Lamp 70W, 100W or 150W PAR38 medium base ceramic metal halide lamp.

Series	Mounting Adapter Type	Lamp Type	Finish
TM246 Trac-Master® MHv Cylindra™ PAR38L	(Blank) Universal 120V Trac Adapter	70M 70W Metal Halide	BL Black SL Silver WH White
	HTEK HTEK 277V Trac Adapter	100M 100W Metal Halide	
	TEK TEK 120V Trac Adapter	150M 150W Metal Halide	
	GTYPE G-Type Trac Adapter		
	HTYPE H-Type Trac Adapter		
	LTYPE L-Type Trac Adapter		

Accessories			
HCLBL 469 Hexcell Louver - Black	DGF 469 Dichroic Filters	SOLITE 469 Uniformity Lens	
CCLBL 469 Cube Cell Louver	DCCF 469 Color Correction Filter	PRISM 469 Prismatic Spread Lens	
SNOOTBL 469 Snoot - Black	DIFF 469 Diffusion Lens	LSPREAD 469 Linear Spread Lens	
CGF 469 Color Filters	UVF 469 UV Filter	T40N¹ Monopoint	

See specification sheet [D1.2.0](#) and [D1.2.2](#) for details.

Notes:

1 Add finish code to complete catalog number (Example: T40N WH).



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MHv™ Metal Halide Trac

CYLINDRA™ PAR LAMP HOLDERS

TM245 AND TM246

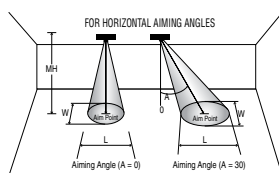
ENGINEERING DATA

	39W	70W	100W	150W
ANSI #	M-130	M-98/M-139/M-143	M-90/M-140	M-102/M-142
Input Voltage	120V	120V	120V	120V
Input Current	0.38A	0.64A	0.94A	1.37A
Input Power	45W	75W	110W	164W
Power Factor	>.90	>.90	>.90	>.99
Lamp Current Crest Factor	<1.5 Typ.	<1.4 Typ.	<1.3 Typ.	<1.3 Typ.
Ballast Factor	1.0 Typ.	1.0 Typ.	1.0 Typ.	1.0 Typ.
T.H.D.	<20%	<20%	<15%	<10%
Max. Recommended Ambient Operating Temperature	40° C	40° C	40° C	40° C
EMI	FCC Part 18 Class B	FCC Part 18 Class B	FCC Part 18 Class A	FCC Part 18C
Sound Rating	A	A	A	A

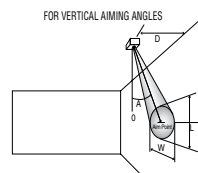
PHOTOMETRICS

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°).



Horizontal Aiming Angles



Vertical Aiming Angles



Fixture	Beam Type	Beam Spread	Rated Life	CBCP	0°		30°			30°					45°				60°						
					MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W	D	FC	X	L	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	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	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	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	3.5	2.5	15	127	2.9	3.0	2.6
	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	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	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	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	9.2	6.1	10	48	5.8	5.9	5.0
70W PAR30L Ceramic Metal Halide	SP	10°	9000	68000	10	680	1.7	1.7	442	2.3	2.0	6	236	10.4	4.3	2.1	668	6	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	2.8	2.0	8	690	4.6	1.9	1.6
					18	210	3.1	3.1	136	4.2	3.6	10	85	17.3	7.2	3.5	240	10	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	4.2	3.0	9	545	5.2	2.1	1.8
	FL	40°	9000	10000	6	278	4.4	4.4	180	6.1	5.0	2	313	3.5	9.7	2.9	884	2	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	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	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	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	10.1	6.2	7	133	4.0	7.1	5.9					

The beam spread in degrees and the beam "L" and "W" in the above 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'.



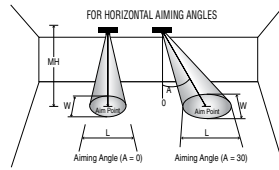
TRAC-MASTER®

MHV™ Metal Halide Trac
CYLINDRA™ PAR LAMP HOLDERS
TM245 AND TM246

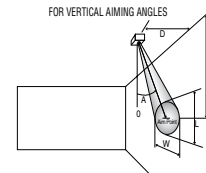
PHOTOMETRICS

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°).



Horizontal Aiming Angles



Vertical Aiming Angles



Fixture	Beam Type	Beam Spread	Rated Life	CBCP	0°		30°			30°					45°				60°						
					MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W	D	FC	X	L	W
70W PAR38 Ceramic Metal Halide	SP	15°	120000	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
	NFL	25°	120000	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
	FL	65°	120000	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
100W PAR38 Ceramic Metal Halide	SP	15°	120000	58000	10	580	2.6	2.6	377	3.5	3.0	4	453	6.9	4.4	2.1	1282	4.0	2.1	1.5	8	589	4.6	1.4	1.2
					14	296	3.7	3.7	192	4.9	4.3	8	113	13.9	8.9	4.2	320	8.0	4.3	3.0	12	262	6.9	2.8	2.4
					18	179	4.7	4.7	116	6.4	5.5	10	73	17.3	11.1	5.3	205	10.0	5.4	3.7	16	147	9.2	3.5	3.0
					22	120	5.8	5.8	78	7.8	6.7	12	50	20.8	13.3	6.3	98	12.0	6.4	4.5	20	94	11.5	4.2	3.6
	NFL	25°	120000	25000	8	391	3.5	3.5	254	4.8	4.1	2	781	3.5	4.2	1.8	2210	2.0	1.9	1.3	6	451	3.5	1.2	1.0
					10	250	4.4	4.4	162	6.0	5.1	4	195	6.9	8.3	3.5	552	4.0	3.7	2.5	8	262	4.6	2.4	2.0
					12	174	5.3	5.3	113	7.2	6.1	6	87	10.4	12.5	5.3	246	6.0	5.6	3.8	10	162	5.8	3.6	3.1
					14	128	6.2	6.2	83	8.4	7.2	8	49	13.9	16.6	7.1	138	8.0	7.5	5.0	12	113	6.9	4.8	4.1
	FL	60°	120000	6000	6	167	6.9	6.9	108	10.4	8.0	2	188	3.5	**	4.6	1105	4.0	2.1	1.5	2	974	1.2	3.5	2.7
					8	94	9.2	9.2	61	13.9	10.7	3	83	5.2	**	6.9	236	3.0	10.4	4.9	3	433	1.7	5.2	4.0
					10	60	11.5	11.5	39	17.3	13.3	4	47	6.9	**	9.2	133	4.0	13.9	6.5	4	244	2.3	6.9	5.3
					12	42	13.9	13.9	27	20.8	16.0	5	30	8.7	**	11.5	85	5.0	17.3	8.2	5	156	2.9	8.7	6.7
150W PAR38 Ceramic Metal Halide	SP	15°	120000	50000	10	500	2.6	2.6	325	3.5	3.0	4	391	6.9	4.4	2.1	1105	4.0	2.1	1.5	8	507	4.6	1.4	1.2
					14	255	3.7	3.7	166	4.9	4.3	8	98	13.9	8.9	4.2	276	8.0	4.3	3.0	12	226	6.9	2.8	2.4
					18	154	4.7	4.7	100	6.4	5.5	10	63	17.3	11.1	5.3	177	10.0	5.4	3.7	16	127	9.2	3.5	3.0
					22	103	5.8	5.8	67	7.8	6.7	12	43	20.8	13.3	6.3	123	12.0	6.4	4.5	20	81	11.5	4.2	3.6
	NFL	25°	120000	28000	8	438	3.5	3.5	284	4.8	4.1	2	875	3.5	4.2	1.8	2475	2.0	1.9	1.3	6	505	3.5	1.2	1.0
					10	280	4.4	4.4	182	6.0	5.1	4	219	6.9	8.3	3.5	619	4.0	3.7	2.5	8	284	4.6	2.4	2.0
					12	194	5.3	5.3	126	7.2	6.1	6	97	10.4	12.5	5.3	275	6.0	5.6	3.8	10	182	5.8	3.6	3.1
					14	143	6.2	6.2	93	8.4	7.2	8	55	13.9	16.6	7.1	155	8.0	7.5	5.0	12	126	6.9	4.8	4.1
	FL	65°	120000	6500	6	181	7.6	7.6	117	11.8	8.8	2	203	3.5	**	5.1	575	2.0	8.6	3.6	2	1055	1.2	3.9	2.9
					8	102	10.2	10.2	66	15.7	11.8	3	90	5.2	**	7.6	255	3.0	12.9	5.4	3	469	1.7	5.9	4.4
					10	65	12.7	12.7	42	19.7	14.7	4	51	6.9	**	10.2	144	4.0	17.2	7.2	4	264	2.3	7.9	5.9
					12	45	15.3	15.3	29	23.6	17.7	5	33	8.7	**	12.7	92	5.0	21.4	9.0	5	169	2.9	9.8	7.4

The beam spread in degrees and the beam "L" and "W" in the above tables are computed at 50% of centerbeam candlepower and represent areas of "effective illumination".
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