



## TRAC-MASTER®

MH<sub>2</sub>® Metal Halide Trac

# HID PENDANTS and ACRYLIC REFRACTOR SHADES

TMP1220, TMP1221

Project: \_\_\_\_\_

Fixture Type: \_\_\_\_\_

Location: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_

### PRODUCT DESCRIPTION

MH<sub>2</sub>® Pendants and Pendant Shades offer a high bay aesthetic in a flexible trac-based system. The modular pendant cord and housing are factory supplied with 10' of cord which is easily shortened to length in the field. Pendant shades are available in both clear and diffuse decorative prismatic refractor designs which offer uplighting along with downlighting illumination. They may be specified with a choice of accessory lenses to achieve the desired aesthetic. Modular lampholder/ballast construction offers complete configuration flexibility. This design also maximizes ballast service life by isolating it from lamp heat.

ED17 ceramic arc tube metal halide lamps produce light output equivalent to halogen 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 20,000 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

**Ordering Information** Order ballast or monopoint, pendant cord assembly and pendant shade separately • Optional lenses may also be ordered separately.

**Construction** Extruded aluminum socket housing • Aluminum collar attaches pendant shade to socket housing • Premium acrylic clear refractor or diffuse refractor shades • Optional lenses include spring-loaded metal clamp band for easy attachment to pendant shades.

**Socket** Medium base, glazed porcelain • 4kV rated with nickel plated copper screw shell • May only be operated using protected ED17 (open fixture rated) lamps, with or without accessory lens.

**Modular Fixture Adapter** Simple, logical 3-point insertion makes connection easy • Alignment keys to guarantee proper electrical and mechanical orientation • Molded-in horizontal and vertical locking mechanisms to insure positive attachment • 4-sided 0.177 dia. nickel-plated phosphor bronze banana plugs provide a reliable connection to ballast.

**Cord** 3-conductor Type ST cord in either white or black finish • Factory supplied at 10' (120") nominal length • Length is field adjustable.

**Ballast TM570N or TM5100** High efficiency electronic with slim-line profile • Integral on/off switch • Modular connection allows attachment to a variety of MH<sub>2</sub>® Series HID lampholders and pendants • Must be ordered separately • Refer to specification sheet [D1.11.0](#) for complete specifications.

**Monopoint TMM5450 or TMM5470 or TMM54100** Recessed or surface mount versions • High efficiency electronic • Modular connection allows attachment to a variety of MH<sub>2</sub>® Series HID lampholders and pendants • Must be ordered separately • Refer to Specification sheet [D1.11.50](#) for complete specifications.

**Labels** UL listed, CSA certified.

Product specifications subject to change without notice.

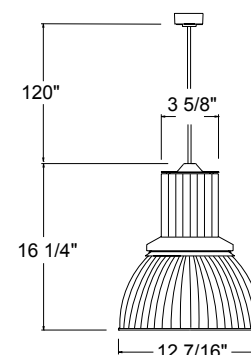
### Pendant Cords and Pendant Shades

**Lamp** 50W or 70W or 100W ED17 medium base ceramic arc tube metal halide lamp • May only be operated using protected lamps, with or without accessory lens (order separately) • Select appropriate ballast or monopoint as described above based on lamp.

Catalog Number	Finish	Description	Lamp
TMP1120WH	White	Pendant Cord	50W or 70W or 100W ED17 Metal Halide
TMP1120BL	Black	Pendant Cord	50W or 70W or 100W ED17 Metal Halide
TMP1120SL	Silver	Pendant Cord	50W or 70W or 100W ED17 Metal Halide
TMP1220PL	Clear Refractor	Acrylic Pendant Shade	
TMP1221PL	Diffuse Refractor	Acrylic Pendant Shade	

### ACCESSORIES

Cat. No.	Description	Cat. No.	Description
TMP1230CL	Flat Lens, Clear Glass	TMP1231PL	Conical Lens, Prismatic Acrylic
TMP1232UL	Flat Lens, Uniformity Glass		



**PHOTOMETRIC REPORT**

**Test Report #:** PT08012102

**Catalog No:** TMP1220PL/TMP1232UL

**Total Luminaire Efficiency:** 79.7%

**Luminaire Spacing Criterion:** 0.9

**Luminaire:** Modular HID Pendant Cord with clear Acrylic Refractor Shade and Uniformity Lens

**Lamp:** One MHC70/U/M/3K lamp rated @ 6200 lumens

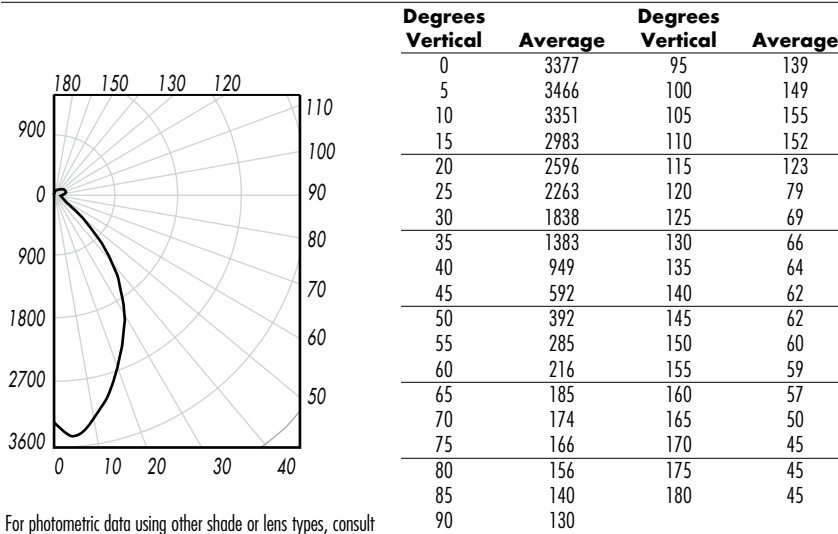
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**CANDLEPOWER DISTRIBUTION (Candelas)**



For photometric data using other shade or lens types, consult appropriate IES photometric files.

\*Multipliers: 50W ED17 - 0.66, 100W ED17 - 1.53

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixture
0-30°	2202	35.5	44.6
0-40°	3064	49.4	62.0
0-60°	3794	61.2	76.8
0-90°	4309	69.5	87.3
90-180°	630	10.2	12.7
0-180°	4939	79.7	100.0

**COEFFICIENTS OF UTILIZATION-% (Zonal Cavity Method) Effective Floor Cavity Reflectance 20% (ρ<sub>fc</sub>)**

RCR	ρ <sub>cc</sub> ρ <sub>w</sub>	80			70			50			30			10			0
		50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0		92	92	92	89	89	89	83	83	83	77	77	77	72	72	72	70
1		82	79	76	79	77	74	74	72	70	69	68	66	65	64	62	60
2		74	70	66	72	68	64	67	64	61	63	61	58	60	58	56	54
3		67	62	58	65	60	58	62	58	54	58	55	52	55	52	50	48
4		61	56	51	60	55	51	57	52	49	54	50	47	51	48	46	44
5		56	51	46	55	50	46	52	48	44	50	46	43	47	44	42	40
6		52	46	42	51	45	41	48	44	40	46	42	39	44	41	38	37
7		48	42	38	47	42	38	45	40	37	43	39	36	41	38	35	34
8		45	39	35	44	39	35	42	37	34	40	36	33	39	35	33	31
9		42	36	33	41	36	32	39	35	32	38	34	31	36	33	30	29
10		39	34	30	38	33	30	37	32	29	36	32	29	34	31	28	27

ρ<sub>cc</sub> – Ceiling Cavity Reflectance (%) ρ<sub>w</sub> – Wall Reflectance (%)

**INITIAL FOOTCANDLES**

**One Unit, 70 Watt, 62.3° Beam**

Footcandles Beam Edge	Footcandles Beam Center	Beam Diameter	Distance to Illuminated Plane (Feet)
30.2	93.8	7.2'	6
17.0	52.8	9.7'	8
10.9	33.8	12.1'	10
7.5	23.4	14.5'	12
5.5	17.2	16.9'	14
4.2	13.2	19.3'	16
3.4	10.4	21.7'	18
2.7	8.4	24.2'	20

(Beam Edge defined as 50% of Maximum Nadir Candlepower)

**AVERAGE INITIAL FOOTCANDLES**

**Multiple Units (Square Array, 60' x 60' Room)**

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
5.0'	203	166	139
6.0'	141	115	96
7.0'	114	93	78
8.0'	90	74	62
9.0'	69	57	47
10.0'	51	42	35
12.0'	35	29	24

\*Note: Multipliers are provided for estimating purposes only. Use IES photometric files for precise photometric information.

