

FEATURES & SPECIFICATIONS

INTENDED USE

Use in high mounting heights that require higher efficiencies, general horizontal/high vertical illumination and premium contrast control. Ideal for light manufacturing areas, warehouse and retail aisles.

CONSTRUCTION

Housing – Heavy-duty, die-cast aluminum halves. Ballast and electrical components are heat-sunk and horizontally opposed. Integral splice box mounting flange ensures structural integrity.

FINISH

Electrostatically-applied white polyester powder paint.

OPTICAL SYSTEM

UV-stabilized, high-efficiency, high performance acrylic refractor yields high vertical footcandles while maintaining low brightness. Upper collar is painted with white polyester powder paint. Optical assembly is fully adjustable and accommodates a range of light distributions, while providing approximately 20% uplight. Self-cleaning, ventilated design carries optical contaminants out through the top of refractor. PA22L enclosed optical utilizes a clear, tempered-glass lens. Glass lens does not meet UL lamp rupture containment requirements. Hinged and latched for easy maintenance. Coated lamps provide optimum performance.

ELECTRICAL SYSTEM

Ballast – Copper wound and 100% factory tested. High power factor constant-wattage autotransformer. Encased and potted solid-state igniters. 180°C Class H insulation system. Meets ANSI C82 ballast standards. (For 50-hertz availability, consult factory.)

Socket – Glazed porcelain, vertically oriented, mogul base socket with copper alloy, nickel-plated screws, shell and center contact. Protected version with pink exclusionary socket. UL listed 1500V, 600V and 4KV pulse rated.

INSTALLATION

Pendant Splice Box – Removable cast-aluminum box slides on integral die-cast aluminum housing mounting flange and mounts to ¾" pendant conduit prior to ballast housing installation. Matching wire access cover accepts Reloc modular wiring. Complete assembly meets or exceeds UL 50-pound pull test.

Optic Mounting – Adjustable reflector mounting brackets are progressively die-formed of 18-gauge galvanized steel. For areas where reflectors are subject to impact (gymnasiums, etc.) add FWG(full wireguard)to catalog number.

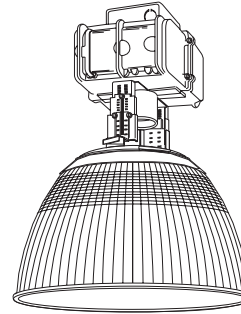
LISTINGS

UL listed -30°C to 55°C ambient operations & damp locations. Listed and labeled to comply with Canadian Standards. NOM Certified (see Options).

Catalog Number	
Notes	Type

Open High Bay Industrial Lighting

TH PA22



ACRYLIC OPTICAL

Metal Halide

400W

Metal Halide Protected Socket

200W - 450W

High Pressure Sodium

250W - 400W

18' to 30' mounting

Specifications

Installed height: 20-5/8 to 26" (52.5 to 66.7cm)

Installed width: 22-3/8" (56.8cm)

Installed weight: 31 lbs/14.1 kg

ORDERING INFORMATION

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog numbers (shipped separately).

Example: **TH 400MP PA22 120**

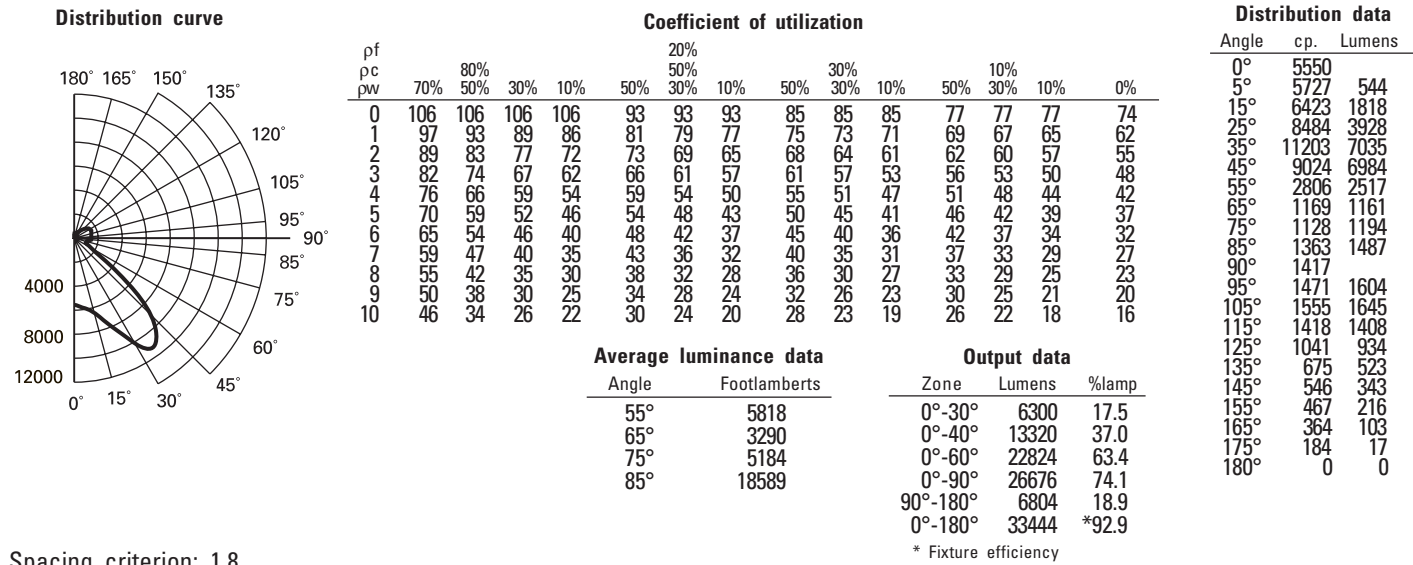
TH		Reflector	Voltage	Ballast	Options	
Series	TH	PA22 Standard PA22L Lensed	120 208 ^{1,2} 240 ^{1,2,3} 277 347 480 ^{1,2} TB ⁴ TBV ⁵	(blank) Standard magnetic ballast CWI Constant wattage isolated MRB Magnetic regulator ballast LLCWA Low loss CWA Pulse start LLRPSL Low loss reactor ballast ⁷ SCWA Super constant wattage autotransformer LLSCWA Low loss SCWA RLB Regulated lag ballast SCWI Isolated SCWA	Shipped installed in fixture	
Wattage/lamp	<u>High pressure sodium</u> 250S 400S <u>Metal halide protected</u> 200MP 320MP 400MP 250MP 350MP 450MP <u>Metal halide</u> 400M				SF Single fuse (120, 277, 347V) ⁸ DF Double fuse (208, 240, 480V) ⁸ EC Emergency circuit ^{8,10} QRS Quartz restrike system ^{8,10} QRSTD QRS time delay ^{8,10} TOB Through-wire outlet box TOBP Through-wire outlet box plug-in ⁹ PBP Pendant box plug-in ⁹ LCPP Loop, cord, plug requires TPH, PPH ⁸ LC3P Loop, 3' cord, 15A NEMA twistlock plug ^{8,11,12} HC3P Hook, 3' cord, 15A NEMA twistlock plug ^{8,11,12} LOCS Loop, 5' white cord, Reloc OCS ^{8,13,14} HOCs Hook, 5' white cord, Reloc OCS ^{8,13,14} LOCU Loop, 5' white cord, Reloc OCU ^{6,8,11,12,13,14,15} HOCU Hook, 5' white cord, Reloc OCU ^{6,8,11,12,13,14,15}	LUCP Loop, cord, plug for UPM ¹⁸ LUCPSF Single-fuse LUCP, dead front ⁸ LUCPDF Double-fuse LUCP, dead front ⁸ UCP Universal cord, plug for UPM ^{8,13} UCPSF Single-fuse UCP, dead front ⁸ UCPDF Double-fuse UCP, dead front ⁸ TR Remote ballast ⁶ RC3NP TR with prewired cord ⁸ ENC Encapsulated SCWA ballast (Consult factory for availability) KW1 KiloWatch 120V control relay ⁶ KW4 KiloWatch 277V control relay ⁶ KW150 KiloWatch 120V control relay – 50% light output ⁶ KW450 KiloWatch 277V control relay – 50% light output ⁶ KW1S KiloWatch II with integral sensor CSA Listed and labeled to comply with Canadian Standards NOM NOM Certified (Consult factory)
Accessories	Order as separate catalog number. HKF Fixture hook female LPF Fixture loop female SCK 60" safety chain kit HKM Fixture hook male HKMG Grommeted fixture hook male LPM Fixture loop male LPMG Grommeted fixture loop male TPH Through-wire power hook PPH Pendant power hook UPM Universal power module UPM1 UPM with hook adapter plate, wiring block FWG Full wireguard					

NOTES:

- Requires CWI or RLB option in Canada for MH. Available for 175-450W.
- Requires CWI or MRB option in Canada for HPS. Available for 70-400W.
- 220V and 240V 50 Hz and 60 Hz ballasts available for use with U.S. MH and HPS lamps.
- Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V for Canada). For voltage specific options specify tap position (TB1=120V, TB2=208V, TB3=240V, TB4=277V)
- Optional 5-tap ballast. (120, 208, 240, 277, and 480V) Not available in Canada. For voltage specific options specify tap position (TBV1=120V, TBV2=208V, TBV3=240V, TBV4=277V, TBV6=480V). Available for 250 and 400W MH (CWA) only.
- For specific ordering information, see Product Selection Guide.
- Not available with QRS or QRSTD option. Must utilize CWA ballast for this option. Available with 277V only.
- Not available with multi-tap ballast.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating.
- 20A standard 480V.
- Specify circuit/tap position.
- In Canada, 120/347V only.
- May be ordered with 10', 15' and 20' cords. For black cord, specify BK (i.e. HOCsBK).
- When using Reloc with KiloWatch, LOCU or HOCU option must be used with E or F conductors. Consult factory for 208, 240, 480V.

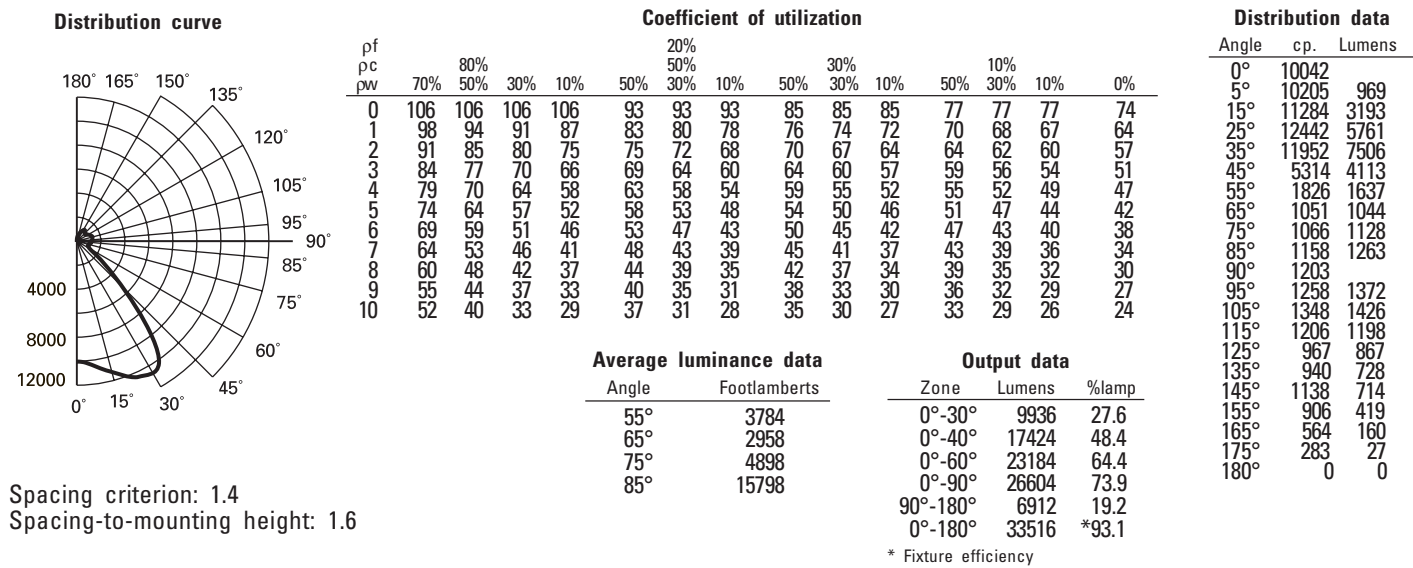
TH PA22 High Bay

TH 400MP PA22, leg position 3 (wide), 400W, coated metal halide lamp, 36,000 rated lumens. Test No.1190121910.



Spacing criterion: 1.8
Spacing-to-mounting height: 2.1

TH 400MP PA22, leg position 8 (medium), 400W, coated metal halide lamp, 36,000 rated lumens. Test No. 1190121915.



Spacing criterion: 1.4
Spacing-to-mounting height: 1.6

TH 400MP PA22L: or for other distributions, consult factory.
Using FWG option will affect performance. Use a .9 multiplier to obtain performance data.

Electrical Characteristics

Wattage/ballast	Primary voltage	Line current (Amps)		Primary dropout voltage	Input watts	Power factor (%)	Regulation	
		Start/Operating					Line V =	Lamp lumens
400CWA Peak-lead Autotransformer	120	3.50/4.00		60	458	90+	±10%	±10%
	208	2.00/2.30		104				
	240	1.75/2.00		120				
	277	1.50/1.75		138				
400CWI Constant-wattage Isolated	347	1.20/1.40		174	465	90+	±10%	±10%
	480	.90/1.00		240				
	120	1.30/4.20		60				
208	.75/2.45		104					
240	.65/2.10		120					

Energy (Calculated in accordance with NEMA Standard LE-5)

LER.FL	ANNUAL ENERGY COST	LAMP DESCRIPTION	LAMP LUMENS	BALLAST FACTOR	WATTS
73.2	\$3.28	MH400C/U	36,000	1	458

Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications on this sheet are based on the most current available data and are subject to change without notice.