

FEATURES & SPECIFICATIONS

INTENDED USE

For areas that require vertical illumination and glare control at low mounting heights. Ideal for open areas, retail spaces and aisles.

CONSTRUCTION

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

FINISH

Electrostatically-applied white polyester powder paint.

OPTICAL SYSTEM

Injection-molded virgin acrylic lens; aluminum reflector with optical quality, white polyester powder finish. Positive-latch refractor clips allow access for maintenance and cleaning. Continuously gasketed refractor and reflector inhibit the entrance of ambient contaminants. Meets UL lamp rupture containment specifications.

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. UL listed 1500W, 600V and 4KV pulse rated.

INSTALLATION

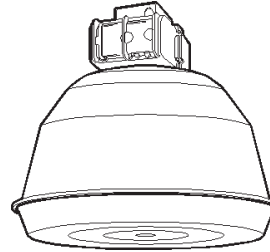
Pendant Splice Box – Removable cast-aluminum box slides on integral die-cast aluminum housing mounting flange and mounts to 3/4" pendant conduit prior to ballast housing installation. Matching wire access cover accepts Reloc modular wiring. Complete assembly meets or exceeds UL 50-pound pull test.

Optic Mounting – Four 8-32 zinc-plated, tri-lobular, thread-rolling screws are arranged concentrically around the lamp socket. 16-gauge, galvanized steel support ring with matching keyhole hole pattern for vibration resistant mounting.

Catalog Number	
Notes	Type

Low Bay Industrial Lighting

TX A23



Specifications

Installed height: 22" (55.9cm)
 Installed width: 23" (58.4cm)
 Weight: 21 lbs/9.5 kg

ALUMINUM OPTICAL

Metal Halide
 175W to 450W
High Pressure Sodium
 250W to 400W

12' to 20' mounting

LISTINGS

UL listed -30°C to 40°C ambient operations and damp locations. 55° available. UL wet location available. Listed and labeled to comply with Canadian Standards (see Options). NOM Certified (see Options).

ORDERING INFORMATION

Example: TX 250M A23 120

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).

TX			
Series	Reflector	Voltage	Ballast ⁶
TX	A23	120	(blank) Standard magnetic ballast
	P23	208 ^{1,2}	CWI Constant wattage isolated
		240 ^{1,2,3}	MRB Magnetic regulator ballast
		277	LLCWA Low loss CWA
		347	Pulse start
		480 ^{1,2}	LLRPSL Low loss reactor ballast ⁷
		TB ⁴	SCWA Super constant wattage autotransformer
		TB ⁵	LLSCWA Low loss SCWA
			RLB Regulated lag ballast
			SCWI Isolated SCWA

Wattage/lamp

High pressure sodium

250S 400S

Metal halide

175M 200M 250M

320M 350M 400M

450M

Accessories

Order as separate catalog number.

HKF Fixture hook female¹⁶

LPF Fixture loop female¹⁶

SCK 60" safety chain kit

TMB Twin-mounting bar¹⁶ (consult factory)

HKM Fixture hook male¹⁶

HKMG Grommeted fixture hook male¹⁶

LPM Fixture loop male¹⁶

LPMG Grommeted fixture loop male¹⁶

TPH Through-wire power hook¹⁶

PPH Pendant power hook¹⁶

UPM Universal power module¹⁶

UPM1 UPM with hook adapter plate, wiring block¹⁶

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.

Options

Shipped installed in fixture

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}

HA 55°C ambient operation

CR Corrosion-resistant finish

TOB Through-wire outlet box¹⁶

TOBP Through-wire outlet box plug-in^{8,16}

PBP Pendant box plug-in^{8,16}

LCPP Loop, cord, plug requires TPH, PPH^{8,16}

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^{8,11,12,13,14,15}

HOCU Hook, 5' white cord, Reloc OCU^{8,11,12,13,14,15}

LUCP Loop, cord, plug for UPM^{1,8,16}

LUCPSF Single-fuse LUCP, dead front^{8,16}

LUCPDF Double-fuse LUCP, dead front^{8,16}

UCP Universal cord, plug for UPM^{8,13,16}

UCPSF Single-fuse UCP, dead front^{8,13,16}

UCPDF Double-fuse UCP, dead front^{8,13,16}

TR Remote ballast

RC3NP TR with prewired 3' cord^{8,16}

WL Wet location UL label

STSS Stainless steel screws

SLR Stainless steel lens ring

CF Charcoal filter

ENC Encapsulated CWA ballast (Consult factory for availability)

KW1 KiloWatch 120V control relay⁶

KW4 KiloWatch 277V control relay⁶

KW150 KiloWatch 120V control relay-50% light output⁶

KW450 KiloWatch 277V control relay-50% light output⁶

KW1S KiloWatch II with integral sensor

WG Wire guard

CSA Listed and labeled to comply with Canadian Standards

NOM NOM Certified (Consult factory)

8 Not available with multi-tap ballast.

9 Lamp not included.

10 Quartz lamp wattage not to exceed 150W.

11 20A standard 480V.

12 Specify circuit/tap position.

13 In Canada, 120/347V only.

14 May be ordered with 10', 15' and 20' cords. For black cord, specify BK (i.e. HOCBSBK).

15 When using Reloc with KiloWatch, LOCU or HOCU option must be used with E or F conductors. Consult factory for 208, 240, 480V.

16 Not available with wet location (WL) option.

TX A23 Low Bay

TX 250M A23, 250W, clear metal halide lamp, 22,000 rated lumens. Test No. 1194080607.

Distribution curve	Coefficient of utilization														Distribution data				
	pf	80%				20%				30%				10%		0%	Angle	cp.	Lumens
		pc	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%				
180° 165° 150° 135°	0	93	93	93	93	85	85	85	81	81	81	76	76	76	75	0°	4433	411	
120°	1	84	81	78	75	75	72	70	71	69	68	68	66	65	63	5°	4323	1193	
105°	2	77	71	66	62	66	63	59	64	60	58	61	58	56	54	15°	4217	1981	
95°	3	70	63	57	52	59	54	50	56	52	49	54	51	48	46	25°	4278	3211	
90°	4	65	56	50	45	53	47	43	50	46	42	48	45	41	40	35°	5113	3764	
85°	5	60	50	43	38	47	41	37	45	40	36	43	39	36	34	45°	4864	3175	
75°	6	55	45	37	33	41	36	32	40	35	31	38	34	30	29	55°	3175	2848	
60°	7	50	39	32	28	37	31	27	35	30	26	34	29	26	24	65°	1647	1636	
	8	46	35	28	24	33	27	23	32	27	23	30	26	22	21	75°	879	930	
	9	42	31	25	20	30	24	20	28	23	19	27	23	19	18	85°	421	459	
	10	39	28	21	17	26	21	17	25	20	17	25	20	16	15	90°	284	223	
																95°	205	124	
																105°	117	124	
																115°	124	124	
																125°	139	125	
																135°	48	37	
																145°	54	34	
																155°	60	28	
																165°	68	19	
																175°	35	3	
																180°	0	0	

Average luminance data		Output data		
Angle	Footlamberts	Zone	Lumens	%lamp
55°	4867	0°-30°	3586	16.3
65°	3127	0°-40°	6798	30.9
75°	2281	0°-60°	13398	60.9
85°	1812	0°-90°	16434	74.7
		90°-180°	726	3.3
		0°-180°	17160	*78.0

Spacing criterion: 1.7
Spacing-to-mounting height: 1.7

* Fixture efficiency

Using the "WG" option will effect performance. Use a .88 multiplier to obtain performance data.

TX 400M A23, 400W, clear metal halide lamp, 36,000 rated lumens. Test No. 1194071403.

Distribution curve	Coefficient of utilization														Distribution data				
	pf	80%				20%				30%				10%		0%	Angle	cp.	Lumens
		pc	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%				
180° 165° 150° 135°	0	95	95	95	95	87	87	87	83	83	83	78	78	78	77	0°	7392	696	
120°	1	86	83	79	76	76	74	72	73	71	69	70	68	66	65	5°	7326	2005	
105°	2	79	73	68	64	68	64	61	65	62	59	62	59	57	55	15°	7086	3318	
95°	3	72	64	58	53	60	55	51	57	53	50	55	52	49	47	25°	8358	5249	
90°	4	67	57	51	46	54	48	44	51	47	43	49	46	42	40	35°	8038	6222	
85°	5	61	51	44	39	48	42	38	46	41	37	44	40	36	35	45°	5446	4885	
75°	6	56	46	38	33	42	37	32	41	36	32	39	35	31	29	55°	2850	2830	
60°	7	51	40	33	28	38	31	27	36	31	27	35	30	26	25	65°	1504	1591	
	8	47	36	29	24	34	28	24	32	27	23	31	26	23	21	75°	712	777	
	9	43	32	25	21	30	24	20	29	24	20	28	23	20	18	85°	472	363	
	10	40	29	22	18	27	21	17	26	21	17	25	20	17	15	90°	332	198	
																95°	187	198	
																105°	207	205	
																115°	246	221	
																125°	66	51	
																135°	77	48	
																145°	87	40	
																155°	102	29	
																165°	52	5	
																175°	0	0	
																180°	0	0	

Average luminance data		Output data		
Angle	Footlamberts	Zone	Lumens	%lamp
55°	8485	0°-30°	6012	16.7
65°	5532	0°-40°	11268	31.3
75°	4032	0°-60°	22392	62.2
85°	3243	0°-90°	27576	76.6
		90°-180°	1152	3.2
		0°-180°	28728	*79.8

Spacing criterion: 1.7
Spacing-to-mounting height: 1.7

* Fixture efficiency

Using the "WG" option will effect performance. Use a .88 multiplier to obtain performance data.

ELECTRICAL CHARACTERISTICS

Wattage/ballast	Primary voltage	Line current (amps) start/operating	Primary dropout voltage	Input watts	Power factor (%)	Regulation	
						Line V = Lamp lumens	Regulation
250CWA	120	2.10/2.50	55	295	90+	±10% = ±10%	
	208	1.40/1.45	95				
	240	1.10/1.25	110				
	277	1.00/1.10	125				
Autotransformer	480	.60/.63	220				
400CWA	120	2.50/4.00	55	455	90+	±10% = ±10%	
	208	1.45/2.30	95				
	240	1.25/2.00	110				
	277	1.10/1.75	125				
Autotransformer	480	.73/1.00	225				

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

LER.HID ENERGY COST	ANNUAL COST	LAMP DESCRIPTION	LAMP LUMENS	BALLAST FACTOR	WATTS
55.3	\$4.34	MH250	22,000	1	295
61.8	\$3.88	MH400	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.



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