DESCRIPTION

The E&G Steeler features a die-cast aluminum neck for superior strength and an extruded aluminum hinged door frame with stainless steel latches for access to the lamp without tools. The E&G is fully enclosed and gasketed at three separate points to prevent entry of external contaminants. U.L. listed and labeled for damp location. CSA Certified. The E&G Steeler is perfect for textile mills, gymnasiums, hangars, assembly and auto service areas.

Lumark

Catalog #	Туре
Project	-
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Construction

HOUSING: Heavy-duty, formed steel housing with an open air ballast for cooler operation is finished in a white polyester powder coat. NECK: Die-cast aluminum neck with staggered mounting bosses for eight-position adjustability of the socket providing a variety of distributions from concentrated to wide.

Electrical

BALLAST: High power factor ballast with class H insulation. Minimum starting temperature is -40°C (-40°F) for HPS and -30°C (-20°F) for MH. CSA certified. SOCKET: Mogul-base porcelain socket.

Optical

REFLECTOR SYSTEM: Computer designed, faceted SA23 reflector provides maximum photometric performance and beam efficiency. The system is completely enclosed and gasketed at three points: door to reflector, reflector to neck, and neck to housing. LENS: Clear tempered glass lens in an extruded aluminum hinged door frame with stainless steel latches allows access for relamping without tools.

Mounting

Easy slide-on die-cast aluminum mounting box with tapped opening for 3/4" conduit.



SE 23" E&G STEELER

320 - 1000W High Pressure Sodium Pulse Start Metal Halide Metal Halide

ALUMINUM HIGH-BAY

TECHNICAL DATA

EISA Compliant 65° Ambient Environment 55° Ambient Environment (450W and above) External Supply Wire Rating 90° Minimum

ENERGY DATA CWI Ballast Input Watts 400W HPS HPF (465 Watts) 400W MH HPF (475 Watts)

CWA Ballast Input Watts

320W MP HPF (365 Watts) 350W MP HPF (400 Watts) 400W MP HPF (452 Watts) 400W HPS HPF (455 Watts) 450W MP HPF (508 Watts) 50W HPS HPF (665 Watts) 750W HPS HPF (850 Watts) 750W MP HPF (820 Watts) 1000W MP HPF (1085 Watts) 1000W MP HPF (1070 Watts) 1000W MP HPF (100 Watts) 1000W MP HPF (1070 Watts) 1000W MP HPF (100 Watts) 1000W MP HPF

SHIPPING DATA Approximate Net Weight: 50 lbs. (23 kgs.)



CERTIFIED



36″

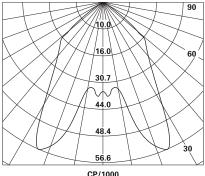
[914mm]

Max Height

DIMENSIONS



PHOTOMETRICS



rc		80	0%			- 70	0%			50%			30%			10%		0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	90	90	90	90	88	88	88	88	84	84	84	81	81	81	77	77	77	76
1	86	84	82	80	84	82	80	79	79	77	76	76	75	74	73	73	72	70
2	82	78	74	72	80	76	73	71	74	71	69	72	70	68	69	68	67	65
3	77	72	68	65	75	71	67	64	69	66	63	67	64	62	65	63	61	60
4	73	67	62	59	71	66	62	58	64	61	58	63	60	57	61	59	56	55
5	68	62	57	53	67	61	56	53	60	56	53	58	55	52	57	54	52	51
6	64	57	52	49	63	56	52	48	55	51	48	54	50	48	53	50	47	46
7	60	52	47	44	59	52	47	44	51	46	43	50	46	43	49	45	43	42
8	56	48	43	40	55	48	43	40	47	42	39	46	42	39	45	42	39	38
9	52	44	39	36	52	44	39	36	43	39	35	42	38	35	42	38	35	34
10	49	41	36	32	48	40	36	32	40	35	32	39	35	32	38	35	32	31

20%

CP/1000 MHSE-ENSA23-M-1000 1000-Watt MH

110,000-Lumen Clear Lamp

Spacing	Criterion 1	.4	
Zone	%Lamp	Zone	%Lamp
0-30	37.4	0-90	75.9
0-40	55.39	0-180	0.0
0-60	75.4	Total	75.9

Effective floor cavity reflectance

Coefficients Of Utilization

Candlepower Degree CP 0 32993 5 32475 10 33367 15 48423 20 56176 25 56578 30 42528 35 30754 40 25350 45 21820 50 15307 55 5157 60 1086 65 423 70 176 75 72 Candlepower $\begin{array}{c} 5\\ 10\\ 15\\ 20\\ 25\\ 30\\ 35\\ 40\\ 50\\ 55\\ 60\\ 65\\ 70\\ 58\\ 85\\ 90\\ \end{array}$

SE 23" E&G STEELER

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F 4 (•								
Powering Business Worldwide								

ORDERING INFORMATION

Sample Number: MPSE-EN	SA23-M-1000-MT-Q				
			L L	_	
amp Type	Reflector Type	Lamp	Voltage ⁴	Options	Accessories ¹³
P=Pulse Start Metal ¹	ENSA=Enclosed &	Wattage	120V=120V	C3=3' Cord with no plug (Specify Voltage) ⁸	C3=3' Cord-No Plug - Requires FH-1, FL-1, or 8 SHK
Halide	Gasketed Spun	<u>MP</u>	208V=208V	PC3=3' Cord with NEMA Plug (120V-L5-15P, 8	PC3=3' Cord with NEMA Plug - (120V-L5,
H=Metal Halide1	Aluminum	320=320W	240V=240V	208V-L6-15P, 347V-L37-20P, AND 480V-L8-20P) Other cord lengths are	208V-L6-15P, 347V-L37-20P and
IP=High Pressure ² Sodium		400=400W	277V=277V	available by specifying length (PC6 for 6'	480V-L8-20P) Other cord lengths are available by specifying length (PC6 for 6'
	Reflector	<u>мн</u> 400= 400W	347V ⁼ 347V	Cord) Requires FH-1 or FL-1, or SHK. Example: PC3-120V Use with	cord). Requires FH-1 or FL-1, or SHK. Use with TPPH-NEMA. Specify Voltage.
eries	Diameter 23 ⁼ 23" Diameter	HP	480V = 480V	TPPH-NEMA. Specify Voltage.	PHC= Power Hook Cord and Non-NEMA plug
E & G Steeler	23 -23 Dialifietei	400= 400W	MT= Multi-Tap, ⁵ wired 277V	PHC= Power Cord and Plug (18" Power Cord	configuration. Must be used with FL-1 and TPPH (Thru-Way Pendant Power Hook)
	Distribution ³		TT= Triple-Tap, 6	and Non-NEMA plug configuration. Must	PHC-NEMA= Power Cord and NEMA plug - 18"
	C= Concentrated		wired 347V	be used with FL-1 and TPPH (Thru-Way Pendant Power Hook). Must specify	Power Cord and 20 Amp NEMA plug configuration. Must be used
	M= Medium		5T: 5-Tap7	single voltage.	with FL-1 and TPPH-NEMA
	W= Wide			PHC-NEMA ⁼ Power Cord and NEMA Plug (18"	(Thru-Way Pendant Power Hook) MBT= Twin Mount Bracket (Fixtures must be sar
	1			Power Cord and 20 AMP NEMA	voltage and without hooks, loops or plugs.
	containment barrier required when e equires that open luminaires must ut			plug configuration). Must be used with FL-1 and TPPH-NEMA	TPPH: Thru-Way Pendant Power Hook. Require
an Open rated so	ocket (OR) and lamp.	,, g.acc bott		(Thru-Way Pendant Power	FL-1 and PHC. Specify Voltage. TPPH-F = Thru-Way Pendant Power Hook Single
	175, 200, 320, 350 and 450W.			Hook).	Fuse, 120, 277 or 347 Volt. Requires
3 Factory set for consetting.	oncentrated, medium or wide distribution	utions otherwise fixture	is shipped in medium	PS ⁼ Protective Starter (Available in 1000W HPS only. For other wattages consult factory).	FL-1 and PHC. Specify Voltage.
4 Products also av	ailable in non-US voltages and 50HZ	for international marke	ets. Consult your	P= Pre-set Socket Position from the factory	TPPH-F2= Thru-Way Pendant Power Hook - Double Fused, 208, 240, or 480 Volt.
Cooper Represer	ntative for availabiltiy and ordering ir lable in 347V and TT Voltages.	nformation. 88% Efficie	nt EISA Compliant MP	FH-1= Die-cast Aluminum Fixture Hook (with	Requires FL-1 and PHC. Specify Voltage.
	120/208/240/277V wired 277V.			3/4" threads for easy installation)	TPPH-F-QD= Thru-Way Pendant Power Hook
-	t 120/277/347V wired 347V.			FL-1=Malleable Iron Plated Fixture Loop (with	Single Fuse, Quick Disconnect. Requires FL-1 and PHC. Specify
	/208/240/277/480V wired 277V. 400W		6 efficient EISA	3/4" threads for easy installation)	Voltage (120, 277, or 347V)
8 Requires FH-1or	ktures not available in 5-Tap Voltage FL-1or SHK	5.		SHK=Die-cast Aluminum Fixture Hook (with safety screw and 3/4" threads for easy	TPPH-F2-QD=Thru-Way Pendant Power Hook Double Fuse, Quick Disconnect.
	lelay when switching from bright to	dim. Consult individua	l lamp manufacturers	installation)	Requires FL-1 and PHC. Specify
recommendation	ns for compatible lamps. For use wit	h CWA ballast only.		HSW=Integral LumaWatt Sensor and Control ⁹	Voltage (208, 240, or 480V) TPPH-NEMA=Thru-Way Pendant Power Hook.
	th HL or HC options.			w/ Wide Distribution	Requires FL-1 and
11 Lamp is shipped 12 Not available wit	separately. th PC3, C3, PHC or MWS. Not availab	le with single circuit M	WS special order	F1=Single Fuse (120, 277 or 347V only)	PHC-XXXV-NEMA. (Specify FH-1=Fixture Hook
13 Order separately		sie unter enigie eneuern		F2=Double Fuse (208, 240 or 480V only)	FL-1=Fixture Loop
	hen using thru-way mounting box (T	WMBS) accessory.		SCF=3' Aircraft Safety Cable secures	SHK=Hook with Safety Screw
				Housing to Ceiling (Alternative lengths available. Example: SCF6 = 6' Cable)	TWMBS=Thru-Way Mounting Box14
				Q =Quartz Restrike (Hot Strike Only)	
				EM =Quartz Restrike with "Delay Relay" (Quartz	
				lamp strikes at both hot and cold starts)	
				EM/SC=Emergency Separate Circuit ¹⁰	
				L/TCB=Less Top Connector Box (Housing	
				shipped less top connector box. (Specify when using TWMBS	
				accessory)	
				LL=Lamp Included ¹¹	
				SCR=Aircraft Safety Cable-Housing to	
				Reflector	
				W/MWS=MWS Industrial components attached to the fixture at the factory. (Standard	
				cord length is 3 ft. 6 ft. and 11 ft. also	
				available. Please refer to MWS	
				Modular Wiring System section for additional information.	
				HC=LumaWatt Fixture Control Module 9, 12	
				(Low voltage leads pulled out of top	
				connection box for areas requiring all wiring to be installed in conduit)	
LAMP TYPE	WATTAGE		7	HL=LumaWatt Fixture Control Module (Allows ⁹	
Pulse Start Metal Halide		, 450, 750, 1000W	-	low voltage control wire to be	
	()	, 430, 730, 100000	-	daisy-chained between fixtures outside	
Metal Halide (MH)	400, 1000W		-	AC conduit run similar to low voltage intercom's, fire alarms and phone	
High Pressure Sodium (HP) 400, 600, 750	W	-	systems)	
				OLL=Quartz Lamp Included (Lamp is Cooper	
				designated product based on luminaire requirements. Lamp is shipped separate	
				from luminaire unless otherewise noted)	
VOLTAGE CHART			7	FILT=Sintered Bronze filter (Sintered bronze	
MT= Multi-Tap	120/208/240/277	V (wired 277\/)		filter prevents the entrance of	
· · ·				contaminants)	
TT= Triple-Tap	120/277/347V (w				
ET E Tan 9	100/000/040/077	(100) / (wined 277) /)	1		



5T= 5-Tap ⁹

120/208/240/277/480V (wired 277V)

Specifications and dimensions subject to change without notice.