

Star Gem Series (SG)

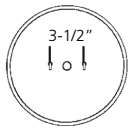
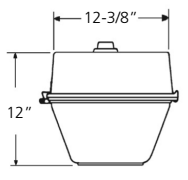


Suitable for wet locations
Lamp not included

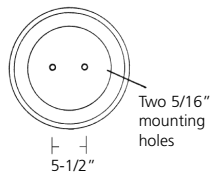
WEIGHT = 16-22 lbs



Direct to
3/4" Threaded Hub Pendant Mount Junction Box



Surface/Ceiling with three 3/4" Threaded Hubs @ 90°



Accessories/Mounting Brackets,
see Accessory Page

Star Gem Specification

Star Gem features an economically efficient light source that has extra ruggedness required in many industrial installations. Available in 70 to 150 watt high pressure sodium lamp and 70 to 175 watt metal halide lamp. Available with (specify) 120, 208, 240, 277 volt (for 480V - consult factory), or 4MT (120,208,240,277V) 60Hz ballast. Luminaire shall be completely pre-wired for ease of installation.

Basic Product Description

One piece aluminum ballast/lamp housing and wiring compartment is finished in all weather bronze polyester powder coating. Gasketed one piece vandal resistant injection molded polycarbonate lens and retaining ring for ease of relamping. Porcelain socket, nickel plated screw shell with lamps grips and spring loaded center contact eliminates lamp loosening. Available with a variety of mounting options with stainless steel exposed hardware.

Ballast Characteristics

The Star Gem shall contain a long lasting, U.L. recognized High Power Factor (HPF) ballast. Will start lamps at -20°F (-30°C) for metal halide and -40°F (-40°C) for high pressure sodium. Mercury vapor lamps may be used in 175 watt metal halide fixtures. For availability of 220/240V 50Hz ballasts - consult factory.

Reflector Assembly

Prismatic hinged one piece injection molded lens and lens ring provides easy lamp access. An anodized aluminum finished reflector provides an I.E.S. type V wide beam distribution (type III is available, see ordering example).

Ordering Example

Unit	Wattage	Photometrics	Mounting	Lamp Style	Voltage	Ballast Style	Options
SG	2	5	7	LS	120	H	PC
Star Gem	0 - 70	3 - IES Type III	7- Pendant Mount	H - Metal Halide	120	H - High Power Factor	PC - Closed
	1 - 100	5 - IES Type V	8- Ceiling Mount	LS - High Pressure Sodium	208		PO - Open
	2 - 150				240		Bottom
	3 - 175				277		Reflector
					480*		
					4MT- (120, 208, 240, 277V)		

Accessories	
SIF	
KS -	Key Hole Slot
SIF -	Single Inline Fuse (120,277V)
DIF -	Double Inline Fuse (208,240,480V)
IGS -	Internal Glare Shield
EM -	Emergency Quartz Relay and Socket
EM60 -	Emergency Quartz Delay Relay and Socket
QS -	Quartz Socket only - auxiliary power req'd.
TP -	Tamper Resistent Screws
TPSD -	Tamper Resistent Screwdriver

*Consult Factory

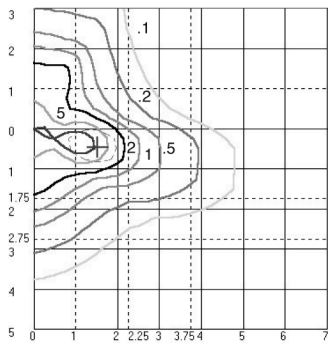
CSA Certification - consult factory.

Note: For use with flexible hangers - suffix catalog number with "Must Balance".

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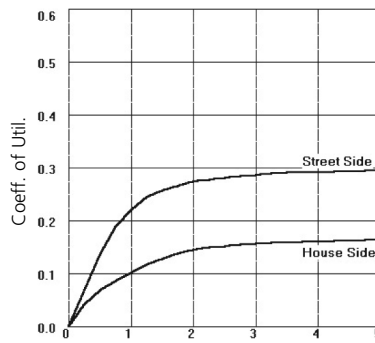
Photometrics

Isofootcandle Lines of Illumination



Distance in Units of Mounting Heights
Values based on 10 ft. mounting height

Coefficients of Utilization and Flux Distribution

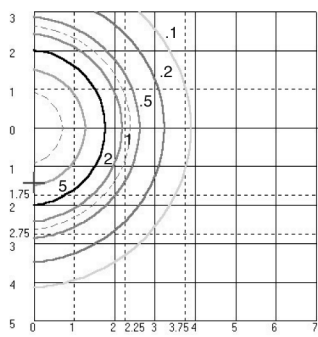


Street Width/Mounting Height

Fixture: SG-237LS
Lamp: 150 Watt High Pressure Sodium
Lumens: 16,000 Initial

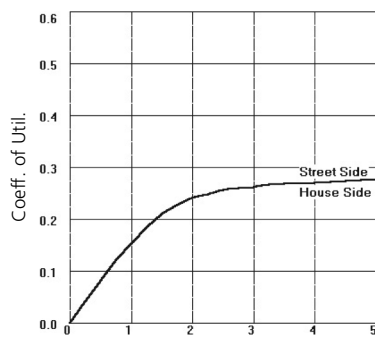
	Lumens	% of Lamp
Downward Street Side	4920	30.75
Downward House Side	2709	16.93
Downward Total	7629	47.68
Upward Street Side	623	3.89
Upward House Side	933	5.83
Upward Total	1556	9.73
Total Flux	9185	57.41

Isofootcandle Lines of Illumination



Distance in Units of Mounting Heights
Values based on 10 ft. mounting height

Coefficients of Utilization and Flux Distribution



Street Width/Mounting Height

Fixture: SG-257LS
Lamp: 150 Watt High Pressure Sodium
Lumens: 16,000 Initial

	Lumens	% of Lamp
Downward Street Side	4598	28.7
Downward House Side	4598	28.7
Downward Total	9196	57.5
Upward Street Side	642	4.0
Upward House Side	642	4.0
Upward Total	1284	8.0
Total Flux	10480	65.5

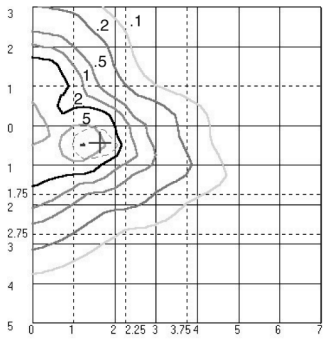
*For other lamp types apply multiplier

Lamp	Mult.
35W HPS	.14
50W HPS	.25
70W HPS	.40
100W HPS	.59



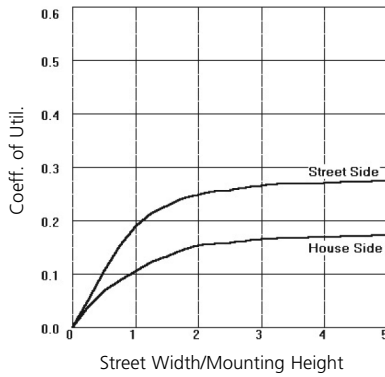
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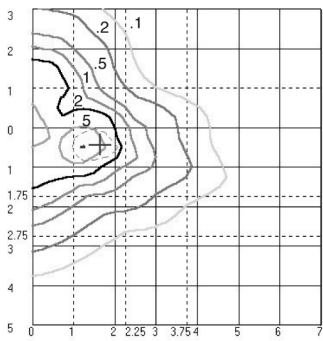
Coefficients of Utilization and Flux Distribution



Fixture: SG-337H
Lamp: 175 Watt Metal Halide
Lumens: 14,000 Initial

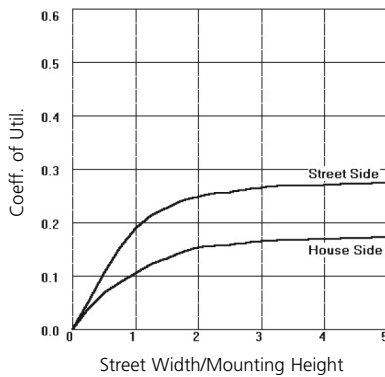
	Lumens	% of Lamp
Downward Street Side	3938	28.13
Downward House Side	2475	17.68
Downward Total	6413	45.81
Upward Street Side	498	3.56
Upward House Side	810	5.79
Upward Total	1308	9.34
Total Flux	7721	55.15

Isofootcandle Lines of Illumination



Distance in Units of Mounting Heights
Values based on 10 ft. mounting height

Coefficients of Utilization and Flux Distribution



Fixture: SG-357H
Lamp: 150 Watt Metal Halide
Lumens: 14,000 Initial

	Lumens	% of Lamp
Downward Street Side	3899	27.9
Downward House Side	3899	27.9
Downward Total	7798	55.7
Upward Street Side	548	3.9
Upward House Side	548	3.9
Upward Total	1096	7.8
Total Flux	8894	63.5

*For other lamp types apply multiplier

Lamp	Mult.
70W MH	.35
100W MH	.55
150W MH	.84