

# OPERA SERIES

Ideal for interior retail display illumination, commercial and accent applications where an architecturally designed and styled luminaire is required to produce crisp, white light.

- The Opera Series offers an excellent architecturally designed and styled luminaire for interior display and accent lighting
- Heavy-duty die-cast aluminum housing is finished in a polyester powder coating. Standard color is Ashwhite (optional colors available)
- Socket housing contains a high-quality, porcelain pulse rated bipin base adjustable socket which permits beam spread adjustment from a medium to a wide beam.



## Lamps (Included)

70W and 150W T-6/G12 Metal Halide

## Materials/Finish

Housing: Heavy duty die cast aluminum housing.

Ballast: 120 or 277 volt High Reactance High Power Factor (HX-HPF)

Reflector: One piece hydroformed multi-faceted anodized aluminum reflector which will produce a beam distribution of 64°H x 58°V to 120°H X 100°V by means of an externally adjustable lampholder.

Lens: Hinged die cast aluminum lens frame with a heat and impact resistant tempered glass lens.

## Installation/Mounting

Available in 1/2" pendant, ceiling or wall mount.

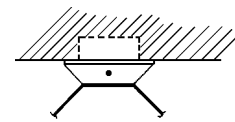
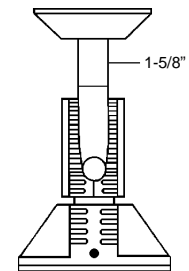
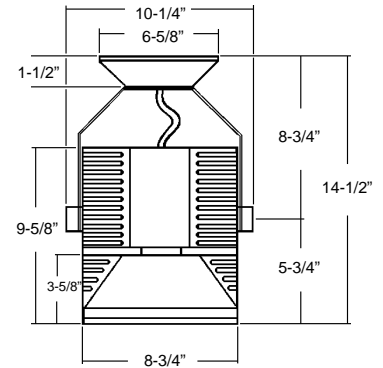
## Standards

UL listed - Damp Location

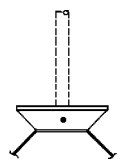
## Specification

To specify state:

North Star Opera Series luminaire shall be for operation of a 70 or 150 watt T-6/G12 Metal Halide lamp with a 120 or 277 volt 60Hz ballast. The luminaire shall be completely prewired with a multi-faceted anodized aluminum reflector with a hinged die cast aluminum lens frame and an integral electrical interlock switch. Shall be UL listed for damp locations and capable of starting and operating the specified lamp within the limits specified by the lamp manufacturer.



CEILING/  
OUTLET BOX



PENDANT  
(1/2" PIPE SIZE)



**NORTH STAR LIGHTING INC.**

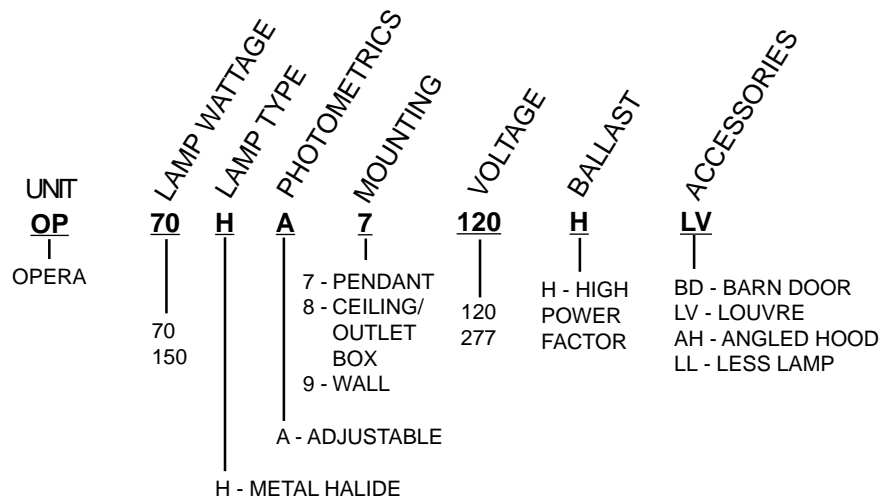
2150 PARKES DRIVE ♦ P.O. BOX 6038 ♦ BROADVIEW, ILLINOIS ♦ 60155-6038 ♦ 708-681-4330 ♦ FAX 708-681-4006

Web Site: [www.nslights.com](http://www.nslights.com)

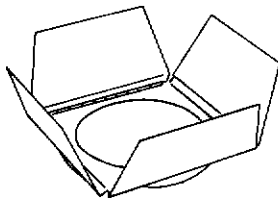
**THORN**

# OPERA SERIES

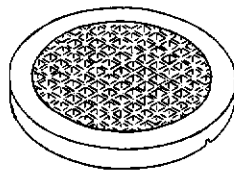
**ORDERING EXAMPLE (Select desired item from each column)**



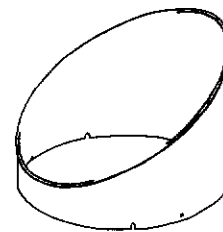
## ACCESSORIES



BD - BARN DOOR



LV - LOUVRE



AH - ANGLED HOOD



**NORTH STAR LIGHTING INC.**

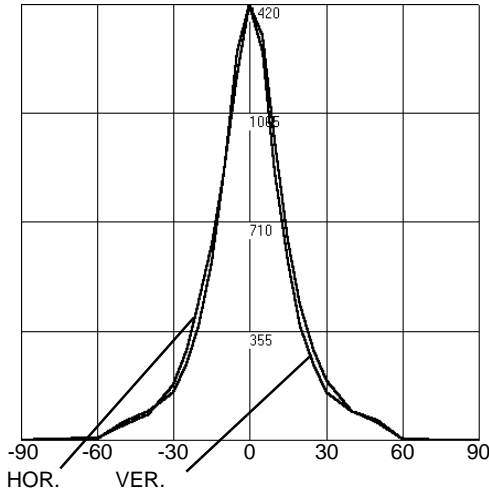
2150 PARKES DRIVE ♦ P.O. BOX 6038 ♦ BROADVIEW, ILLINOIS ♦ 60155-6038 ♦ 708-681-4330 ♦ FAX 708-681-4006

Web Site: [www.nslights.com](http://www.nslights.com)

**THORN**

# PHOTOMETRICS

CANDELA TRACES



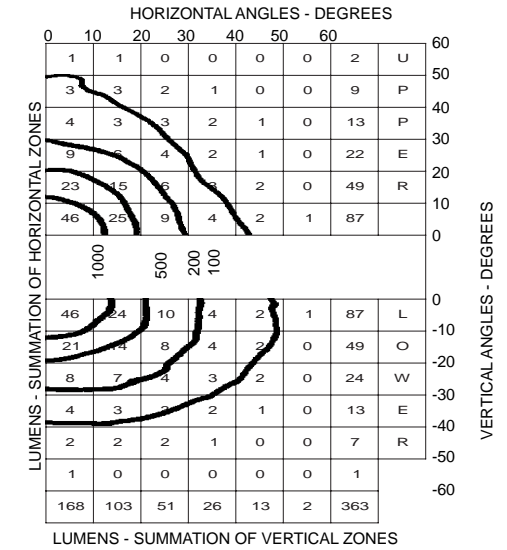
FIXTURE: OP-150H-A-MEDIUM  
LAMP: 150 Watt Metal Halide

IES TYPE	4H x 4V
MAX CANDELA	1420
HOR FIELD ANGLE (10%)	63.9 deg
VER FIELD ANGLE (10%)	69.0 deg
FIELD LUMENS	436
FIELD EFFICIENCY	43.6%
TOTAL LUMENS	566
TOTAL EFFICIENCY	56.6%

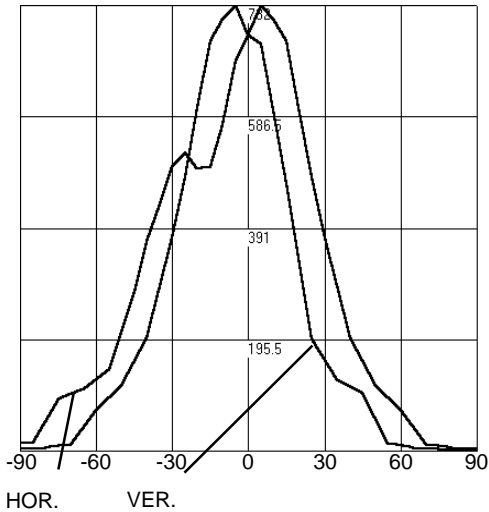
CANDELA & LUMEN VALUES ARE BASED ON 1,000 LAMP LUMENS. FOR OTHER LAMP LUMEN RATINGS, MULTIPLY CANDELA AND LUMEN VALUES BY THE NUMBER: LUMENS DIVIDED BY 1,000.

PER 1,000 LAMP LUMENS

ISOCANDELA CURVE / LUMEN DISTRIBUTION



CANDELA TRACES



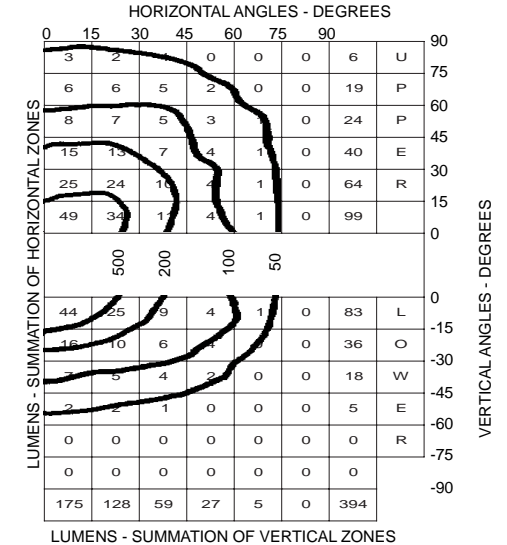
FIXTURE: OP-150H-A-WIDE  
LAMP: 150 Watt Metal Halide

IES TYPE	6H x 6V
MAX CANDELA	782
HOR FIELD ANGLE (10%)	117.1 deg
VER FIELD ANGLE (10%)	124.6 deg
FIELD LUMENS	870
FIELD EFFICIENCY	37.0%
TOTAL LUMENS	912
TOTAL EFFICIENCY	91.2%

CANDELA & LUMEN VALUES ARE BASED ON 1,000 LAMP LUMENS. FOR OTHER LAMP LUMEN RATINGS, MULTIPLY CANDELA AND LUMEN VALUES BY THE NUMBER: LUMENS DIVIDED BY 1,000.

PER 1,000 LAMP LUMENS

ISOCANDELA CURVE / LUMEN DISTRIBUTION



FOR ADDITIONAL INFORMATION - CONSULT FACTORY



**NORTH STAR LIGHTING INC.**

2150 PARKES DRIVE ♦ P.O. BOX 6038 ♦ BROADVIEW, ILLINOIS ♦ 60155-6038 ♦ 708-681-4330 ♦ FAX 708-681-4006

Web Site: [www.nslights.com](http://www.nslights.com)

**THORN**