



## NITE HAWK

HPS MH

*The Nite Hawk is ideal for rough service applications such as stairwells, tunnels and maintenance areas with low ceilings, particularly in the mining industry. The Nite Hawk is also available in LED please see NTH-LED20, for a hazardous location rating please see NTH-EXP version.*

**HOUSING** Die-cast aluminum alloy (LM6M). The housing has a 1/2" threaded entry on both ends of the luminaire. One entry is plugged.

**FRAME ASSEMBLY** The lens frame is a die-cast aluminum alloy with a continuous neoprene gasket. This enables the fixture to be rated IP65. The lens is secured by four corner brackets and is sealed to the lens frame with a gasket. A stainless steel pin hinges the lens frame assembly to the housing, while a captive stainless steel screw secures the other end.

**OPTICAL ASSEMBLY** The aluminum reflector design, combined with the prismatic borosilicate lens, provides a precise and efficient optical performance.

**BALLAST** Normal Power factor is standard. High Power factor is available. All ballasts are 120 volts dedicated. Available in 35 to 70 watt High Pressure Sodium and 50 watt Metal Halide.



**LAMP** All High Pressure Sodium units come with lamp. Metal Halide units lamps are ordered separately.

**SOCKET** Medium base 4KV pulse-rated socket with a nickel-plated screw shell and a spring-loaded centre contact.

**FINISH** Standard finish is black.

**OPTIONS** Polycarbonate lens, wire guard

**RATED** IP65

**APPROVAL** CSA

## Catalog Code

**NITEHAWK**

35HPS 50HPS 70HPS  
50MH\*

LAMP

120NPF, 120HPF

VOLTAGE

BLK- BLACK

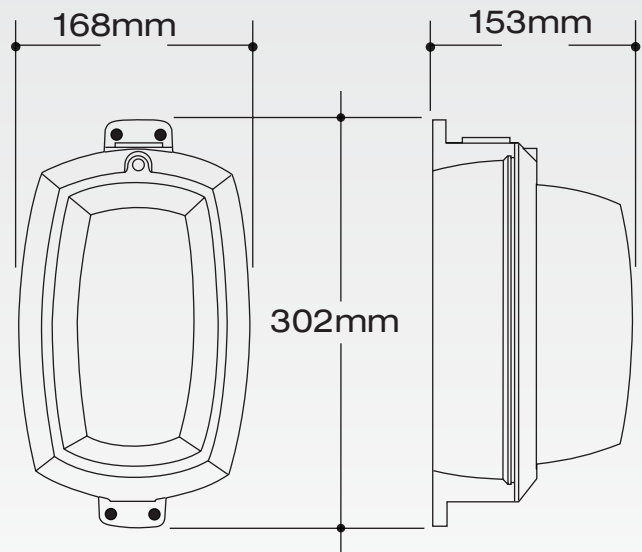
COLOUR

WG - WIRE GUARD  
PCL - POLYCARBONATE  
LENS

OPTIONS

- \* Lamp by others
- \*\* Shipped separately

## Dimensions



FIXING POINTS : 4 X 8mm dia. holes  
on 280 x 32mm centres

### CATALOG NUMBER:

FILENAME: NTH70HPS.IES

TEST NO. 5333

DESIGN ELECTRICAL NITEHAWK LUMINAIRE CAT. NO. NTH-70 HPS 120V  
WITH SEMI-SPECULAR INTERIOR AND PRISMATIC GLASS LENS  
ONE 70W CLEAR HPS LAMP. LUMEN RATING = 6300 LMS.  
DESIGN ELECTRICAL MANUFACTURING  
TORONTO, ONTARIO

### SUMMARY DATA

EFFICIENCY (Total): 69.9 %  
EFFICIENCY (Downlight): 58.0 %  
EFFICIENCY (Uplight): 11.9 %  
CIE CLASSIFICATION: SEMI-DIRECT  
SPACING CRITERION (0-Deg.): 1.50  
SPACING CRITERION (90-Deg.): 1.58  
LUMENS/LAMP: 6300  
NO. OF LAMPS: 1  
LUMINOUS OPENING: RECTANGULAR  
Width: 0.38 (Feet)  
Length: 0.65  
Height: 0.25  
INPUT WATTS: 77  
RP-1-93 VDT CONFORMANCE: NON-CONFORMING

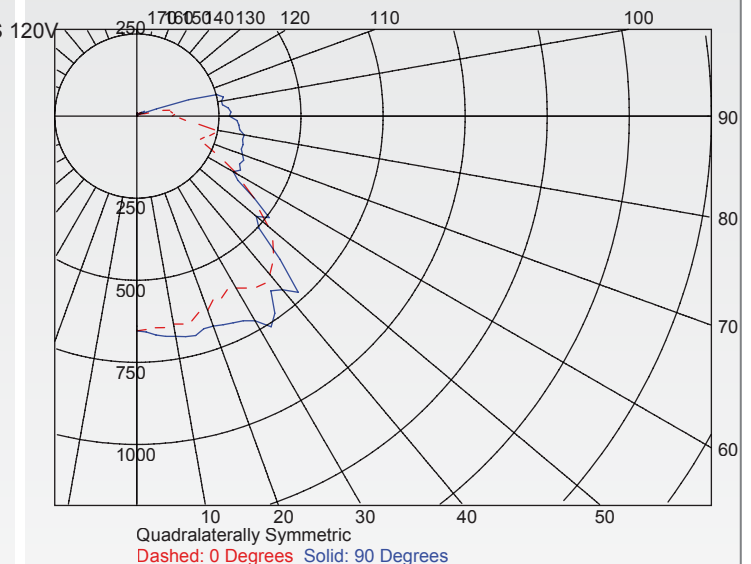
### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Luminaire
0 - 30	587.3	9.3	13.3
0 - 40	1071.3	17.0	24.3
0 - 60	2224.5	35.3	50.5
60 - 90	1429.0	22.7	32.4
0 - 90	3653.5	58.0	82.9
90 - 180	752.0	11.9	17.1
0 - 180	4405.5	69.9	100.0

### AVERAGE LUMINANCE (Candelas / Square Meter)

Angle	0	22.5	45	67.5	90
0	28500	28500	28500	28500	28500
45	26216	28531	34909	29638	22936
55	21381	29666	30276	22629	17157
65	14748	30685	24292	20236	14756
75	15901	26346	21815	22052	16324
85	13806	23428	25144	26429	18311

### CANDELA PLOT



### COEFFICIENT OF UTILIZATION TABLE

Effective Floor cavity Reflectance = 20%

Pcc ...	80	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Pw ...	80	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	0	.80	.80	.80	.80	.77	.77	.77	.77	.71	.71	.71	.66	.66	.66	.60	.60	.60	.58
1	.70	.66	.62	.58	.54	.67	.63	.59	.56	.58	.55	.52	.53	.50	.48	.48	.46	.45	.42
2	.63	.56	.50	.45	.40	.60	.53	.48	.43	.49	.44	.41	.45	.41	.38	.41	.38	.35	.33
3	.57	.48	.41	.36	.31	.54	.46	.40	.35	.42	.37	.33	.38	.34	.31	.35	.32	.29	.26
4	.51	.42	.35	.30	.25	.49	.40	.34	.29	.37	.31	.27	.34	.29	.25	.31	.27	.24	.22
5	.47	.37	.30	.25	.20	.44	.35	.29	.24	.32	.27	.23	.30	.25	.21	.27	.23	.20	.18
6	.43	.33	.26	.21	.16	.41	.32	.25	.21	.29	.24	.20	.27	.22	.18	.24	.20	.17	.15
7	.40	.30	.23	.18	.14	.38	.28	.22	.18	.26	.21	.17	.24	.19	.16	.22	.18	.15	.13
8	.37	.27	.20	.16	.12	.35	.26	.20	.16	.24	.19	.15	.22	.17	.14	.20	.16	.13	.12
9	.34	.24	.18	.14	.10	.33	.23	.18	.14	.22	.17	.13	.20	.16	.12	.19	.15	.12	.10
10	.32	.22	.17	.13	.09	.30	.21	.16	.12	.20	.15	.12	.19	.14	.11	.17	.13	.11	.09

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