Ⓔ COOPER LIGHTING - LUMARK®

energy solutions

DESCRIPTION

The Lumark Nighthawk III utilizes a soft-cornered aerodynamic design to provide excellent EPA ratings and an aesthetically pleasing appearance. Dark bronze polyester powder coat finish assures corrosion resistance and long-lasting aesthetics. U.L. listed and CSA certified for wet locations. The Nighthawk III uses an innovative die-cut optical design which delivers maximum beam control for storage areas, rail yards, loading docks and building perimeters.

		Type
Catalog #		
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
LATCHES: Formed aluminum flush draw-action latches offer easy access to lamp compartment without tools and maintain integrity of seal when closed. HOUSING: Aerodynamically designed die-cast aluminum housing has low EPA rating. DOOR: Die-cast aluminum with integral cast hinges for removal without tools. GASKET: Door gasket is foam-in-place silicone, providing maximum protection of interior components from the elements.

Electrical
BALLAST: Ballast components are hard mounted to fixture housing for maximum heat dissipation and extended component and lamp life.

Optical
LENS: Heat- and impact-resistant tempered glass. Lens is mounted flush with door surface to reduce wind drag and prevent dirt or moisture from accumulating. REFLECTOR: Computer designed die-cut reflector system delivers superior beam control and efficiency.

Mounting
Slipfitter: Die-cast aluminum integral slipfitter mounts on nominal 2 3/8" or 3" O.D. tenons. A degree-marked quadrant is cast in for easy and accurate aiming. Yoke: Heavy-duty steel yoke provides flexibility in mounting from a variety of surfaces. Trunnion: Die-formed steel trunnion is easily adapted to many areas and allows easy fixture aiming.



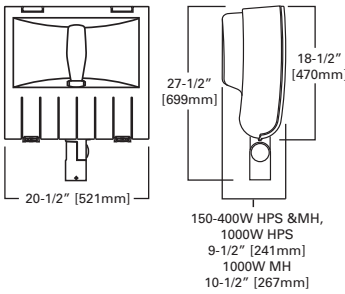
NK
NIGHTHAWK III

150 - 1000W
Pulse Start Metal Halide
Metal Halide
High Pressure Sodium

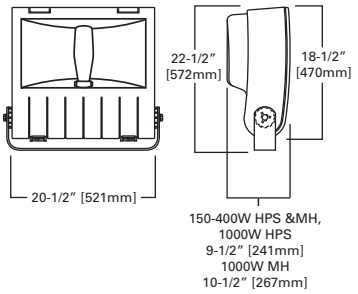
SLIPFITTER-, YOKE-, TRUNNION-MOUNT FLOODLIGHT

DIMENSIONS

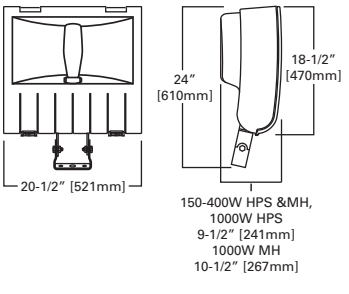
SLIPFITTER-MOUNT



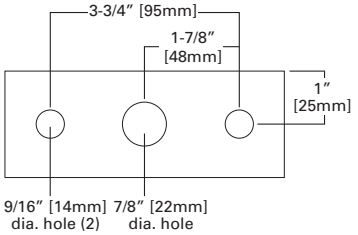
YOKE-MOUNT



TRUNNION-MOUNT



DRILLING PATTERN FOR YOKE- AND TRUNNION-MOUNT



LAMP TYPE	WATTAGE
Pulse Start Metal Halide (MP)	150, 250, 320, 400, 450, 750, 1000W
Metal Halide (MH)	175, 250, 400, 750, 1000W
High Pressure Sodium (HP)	150, 250, 400, 600, 750, 1000W

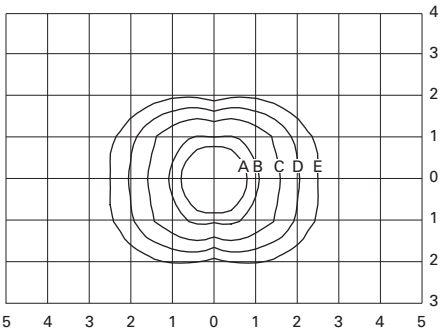
TECHNICAL DATA
U.L. Wet Location Listed
CSA Certified
EISA Compliant Ⓔ

EPA
Effective Projected Area: 2.7

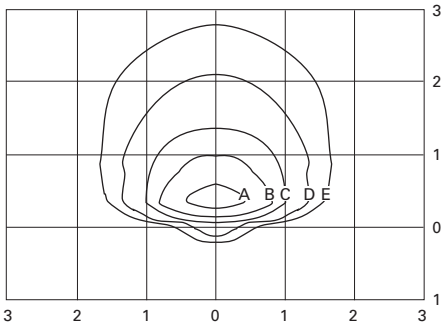
SHIPPING DATA
Approximate Net Weight:
59 lbs. (27 kgs.)

ISO 9001 SYSTEMS CERTIFIED

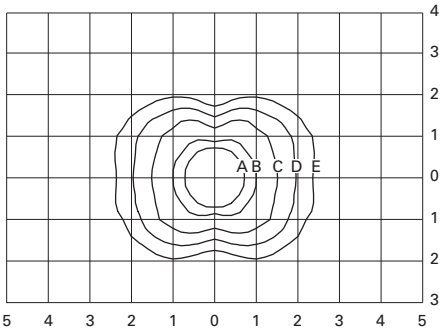
PHOTOMETRICS



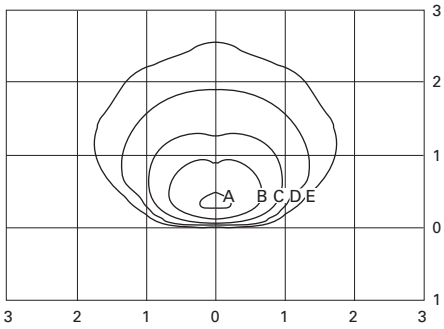
HPNK-X76-400
400-Watt HP
50,000-Lumen Clear Lamp



HPNK-X76-1000
1000-Watt HP
140,000-Lumen Clear Lamp



MPNK-X76-400
400-Watt MP
42,000-Lumen Clear Lamp



MHNK-X76-1000
1000-Watt MH
110,000-Lumen Clear Lamp

Footcandle Table

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	**B**	**C**	**D**	**E**
400W					
20'	**10.00**	**5.00**	**2.00**	**1.00**	**0.50**
25'	6.40	3.20	1.28	0.64	0.32
30'	4.44	2.22	0.89	0.44	0.22
35'	3.27	1.63	0.65	0.33	0.16
40'	2.50	1.25	0.50	0.25	0.13
1000W					
30'	**20.00**	**10.00**	**5.00**	**2.00**	**1.00**
35'	14.69	7.35	3.67	1.47	0.73
40'	11.25	5.63	2.81	1.13	0.56
45'	8.89	4.44	2.22	0.89	0.44
50'	7.20	3.60	1.80	0.72	0.36

EPA Ratings:

Fixture Angle	Wind Direction (sq. ft.) Front	Side
45° from Horizontal	2.7	1.2
90° from Horizontal	4.2	1.2
0° from Horizontal	1.1	1.2

ORDERING INFORMATION

Sample Number: MPNK-S76-400-277V

Lamp Type
MP=Pulse Start Metal Halide
MH=Metal Halide[1]
HP=High Pressure Sodium

Series
NK= Nighthawk III

Mounting
S=Slipfitter
T=Trunnion
Y=Yoke

Distribution
76= 7H x 6V Beam Spread

Lamp Wattage [1]
MP
150=150W
250=250W
320=320W
400=400W
450= 450W
750= 750W
1000= 1000W
MH
175= 175W[1]
250= 250W[1]
400= 400W[1]
750= 750W
1000= 1000W
HP
150= 150W
250= 250W
400= 400W
600= 600W
750= 750W
1000= 1000W

Voltage [2]
120V=120V
208V=208V
240V=240V
277V=277V
347V= 347V[3]
480V= 480V
MT= Multi-Tap, wired 277V
TT= Triple-Tap, [3] wired 347V

Options [4]
F1=Single Fuse (120, 277 or 347V only)
F2=Double Fuse (208, 240 or 480V only)
Q=Quartz Restrike (Hot Strike Only)
EM=Quartz Restrike with "Delay Relay" (Quartz lamp strikes at both hot and cold starts) [5]
LL= Lamp Included[6]
CEC= California Title 20 Compliant Ballast (Applies to 250-320W and 400W MP only)
PER= NEMA Twistlock Photocontrol Receptacle
PC= Button Type Photocontrol[7]
T= Removable Quick-Disconnect[5] Power Tray

Standard Color
__= Bronze (Standard)
BLK= Black
GRY= Grey
WHT=White

Accessories [8]
TYS-XX=Trunnion or Yoke Slipfitter for 2 3/8", 3", or 3 1/2" [9] O.D. Tenon
VS/NK=Vandal Shield for 150 - 320W
WG/NK=Wire Guard
VS/NK/1000=Vandal Shield for 400 - 1000W Units
OA/RA1016= Photoelectric Control, 105-285 Volt NEMA Type
OA/RA1201= Photoelectric Control, 347V NEMA Type
OA/RA1027= Photoelectric Control, 480V NEMA Type
OA1028= Field Installed NEMA Twistlock Photocontrol Receptacle (Order Photocontrol Separately)
TV/NK-XX= Top or Bottom Visor
SV1/NK-XX= Single Side Visor
SV/NK-XX= Double Side Visor
OA/RA1013= Shorting Cap

Notes:
1 175W, 250W, and 400W MH available in non-U.S. markets only.
2 Products also available in non-US voltages and 50HZ for international markets.
3 88% efficient EISA Compliant fixtures not available in 347V or TT Voltages. TT not available with 750W HPS - Specify Voltage.
4 Add as suffix in the order shown.
5 Not available in 1000W.
6 Lamp is shipped separate from luminaire. Lamp is Cooper designated product based on luminaire requirements. Specified lamps must be ordered as a separate line item.
7 PC option not available with trunnion or yoke mount.
8 Order separately, replace XX with color designation.
9 Not available with slipfitter-mount.

STOCK SAMPLE NUMBER: (LAMP INCLUDED)

SAMPLE NUMBER: MPNKS40

	NK			TYS
Lamp Type **MP**=Pulse Start Metal Halide **MH**=Metal Halide **HP**=High Pressure Sodium	**Series** **NK**=Nighthawk III [1]	**Mounting** **S**=Slipfitter **Y**=Yoke	**Lamp Wattage** **40**=400W [2] **1K**=1000W [3]	**Accessories** (order separately) **TYS** =Trunnion or Yoke Slipfitter for 2 3/8", 3", or 3 1/2" O.D. Tenon

NOTES [stock]:
1 Multi-tap ballast, 7Hx6V beam spread, bronze finish, and lamp are standard for stock product.
2 400W available in MP only.
3 1K available in MH and HPS only.
Refer to In Stock Guide for availability.

VOLTAGE CHART

MT=Multi-Tap	120/208/240/277V (wired 277V)
TT=Triple-Tap	120/277/347V (wired 347V)

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		Type
Catalog #		
Project		
Comments		Date
Prepared by		

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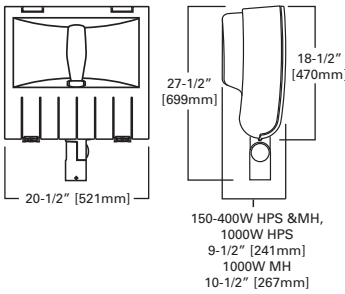
NK
NIGHTHAWK III

150 - 1000W
Pulse Start Metal Halide
Metal Halide
High Pressure Sodium

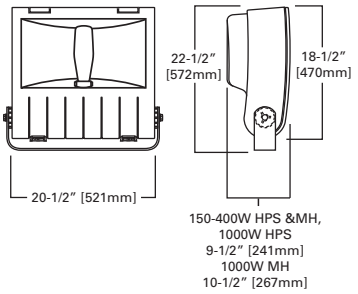
SLIPFITTER-, YOKE-, TRUNNION-MOUNT FLOODLIGHT

DIMENSIONS

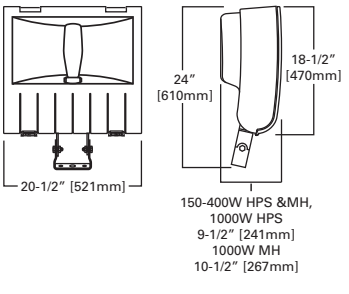
SLIPFITTER-MOUNT



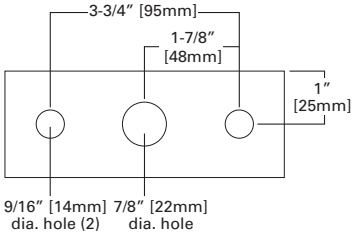
YOKE-MOUNT



TRUNNION-MOUNT



DRILLING PATTERN FOR YOKE- AND TRUNNION-MOUNT



LAMP TYPE	WATTAGE
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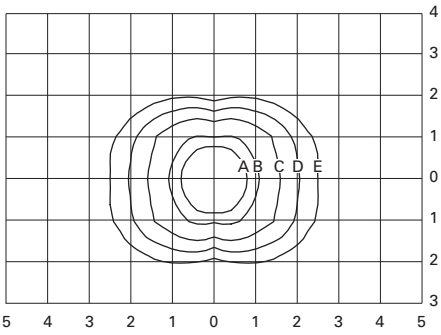
TECHNICAL DATA
U.L. Wet Location Listed
CSA Certified
EISA Compliant Ⓔ

EPA
Effective Projected Area: 2.7

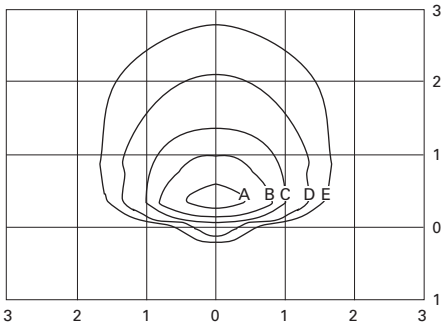
SHIPPING DATA
Approximate Net Weight:
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ISO 9001 SYSTEMS CERTIFIED

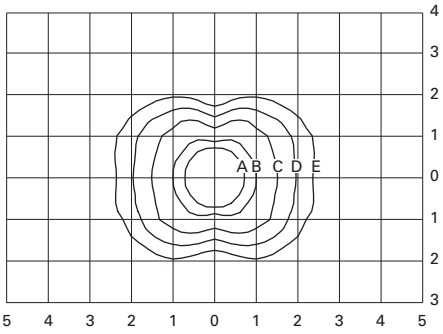
PHOTOMETRICS



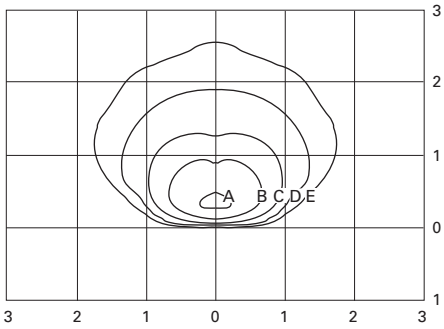
HPNK-X76-400
400-Watt HP
50,000-Lumen Clear Lamp



HPNK-X76-1000
1000-Watt HP
140,000-Lumen Clear Lamp



MPNK-X76-400
400-Watt MP
42,000-Lumen Clear Lamp



MHNK-X76-1000
1000-Watt MH
110,000-Lumen Clear Lamp

Footcandle Table

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MH=Metal Halide[1]
HP=High Pressure Sodium

Series
NK= Nighthawk III

Mounting
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T=Trunnion
Y=Yoke

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76= 7H x 6V Beam Spread

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320=320W
400=400W
450= 450W
750= 750W
1000= 1000W
MH
175= 175W[1]
250= 250W[1]
400= 400W[1]
750= 750W
1000= 1000W
HP
150= 150W
250= 250W
400= 400W
600= 600W
750= 750W
1000= 1000W

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208V=208V
240V=240V
277V=277V
347V= 347V[3]
480V= 480V
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Options [4]
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8 Order separately, replace XX with color designation.
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STOCK SAMPLE NUMBER: (LAMP INCLUDED)

SAMPLE NUMBER: MPNKS40

	NK			TYS
Lamp Type **MP**=Pulse Start Metal Halide **MH**=Metal Halide **HP**=High Pressure Sodium	**Series** **NK**=Nighthawk III [1]	**Mounting** **S**=Slipfitter **Y**=Yoke	**Lamp Wattage** **40**=400W [2] **1K**=1000W [3]	**Accessories** (order separately) **TYS** =Trunnion or Yoke Slipfitter for 2 3/8", 3", or 3 1/2" O.D. Tenon

NOTES [stock]:
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2 400W available in MP only.
3 1K available in MH and HPS only.
Refer to In Stock Guide for availability.

VOLTAGE CHART

MT=Multi-Tap	120/208/240/277V (wired 277V)
TT=Triple-Tap	120/277/347V (wired 347V)