# WFHN LED Series

## High-bay lighting for heavy hose-down environments

**RIG·A·LITE** ™
An Avail Infrastructure Solutions Company



## Classifications

- UL 1589 Wet Locations
- UL 8750 LED Safety
- CUL Listed
- NSF Certified Food Equipment
- High Pressure Hose-Down
- One Piece Welded Aluminum Construction
- NEMA 4X
- Rated for -20° F minimum starting temperature
- 50º C (122° F) maximum ambient temperature
- Single or dual hub mounting

- Watershed design
- Stainless steel external hardware
- Bolt-on and gasketed cast aluminum hubs
- Water tight, ideal for food processing
- Low temperature rating suitable for freezers
- 4000K CCT standard- other options available on catalog number logic page
- Five year warranty against manufacturers defect
- Buy American Act (BAA) Compliant

**BAA** COMPLIANT

**availinfra.com/rig-a-lite**

8500 Hansen Road,
Houston, TX 77075
(713) 943-0340

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## High-bay lighting for heavy hose-down environments

## Key Features

**1** Heavy duty one-piece continuously welded corrosion resistant aluminum construction with electrostatically applied baked on epoxy finish

**2** Watershed design

**3** Stainless steel captive hardware

**4** Philips LED System (driver & PCB)

**5** 4000K CCT LEDs Standard. 3500K or 5000K CCT available

**6** Welded aluminum lens frame with electrostatically applied baked on epoxy finish & silicone gasket is held captive with stainless steel cable for clean appearance and cleanability. Stainless steel hinge option available

**7** High impact clear or prismatic acrylic lens. Clear polycarbonate also available

**8** Hinged access panel for easy access to drivers and wiring.

## LED Series

| Size | Description | Voltage | Catalog Number |
|------|-------------|---------|----------------|
| **2 foot X 4 foot** | 148 Watt LED Luminaire with Clear Acrylic Lens | 120-277V 50/60HZ | **WFHN150244SCAU** |
| | | 347-480V 60HZ | **WFHN150244SCAN** |
| | 148 Watt LED Luminaire with Prismatic Acrylic Lens | 120-277V 50/60HZ | **WFHN150244SPAU** |
| | | 347-480V 60HZ | **WFHN150244SPAN** |
| | 148 Watt LED Luminaire with Prismatic Polycarbonate Lens | 120-277V 50/60HZ | **WFHN150244SCPU** |
| | | 347-480V 60HZ | **WFHN150244SCPN** |

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## Catalog Number Logic

**WFHN 150 - 24 - 4S - CA - U - DH - XX**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧
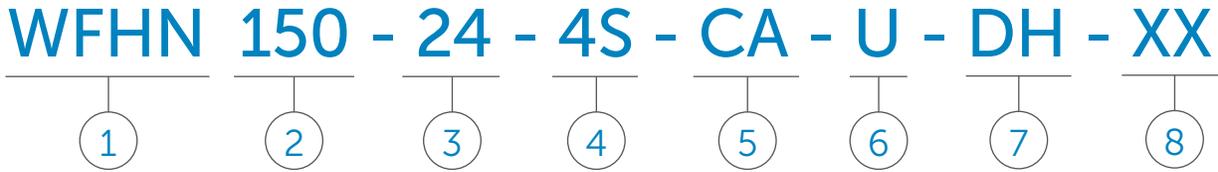
**1**
**BASIC SERIES**
WFHN LED Fixture
UL 1598 Wet Locations
UL 8750 LED Safety
CUL Listed
NSF Certified Food Equipment
Wash Down Rated

**2**
**LAMP CURRENT/LAMP WATTAGE**
150 = 148 Watt LED

**3**
**NOMINAL FIXTURE LENGTH**
24 = 2 x 4 Foot

**4**
**NUMBER OF LED STRIPS**
4S = 4 LED Strips

**5**
**LENS TYPE**
CA = Clear Acrylic
PA = Prismatic Acrylic
CP = Clear Polycarbonate

**6**
**VOLTAGE/FREQUENCY**
N = 347 thru 480V 50/60 HZ
U = 120 thru 277V 50/60 HZ

**7**
**MOUNTING**
DH = Dual Hub 1/2 in. NPT
SH = Single Hub 3/4 in. NPT

**8**
**OPTIONS[1]**
F = Single Fuse- For USL luminairies only (For luminairies rated 277 VAC or less)
D = Dimming Ballast
DF = Double Fuse- For USL luminairies only (For luminairies rated 277 VAC or less)
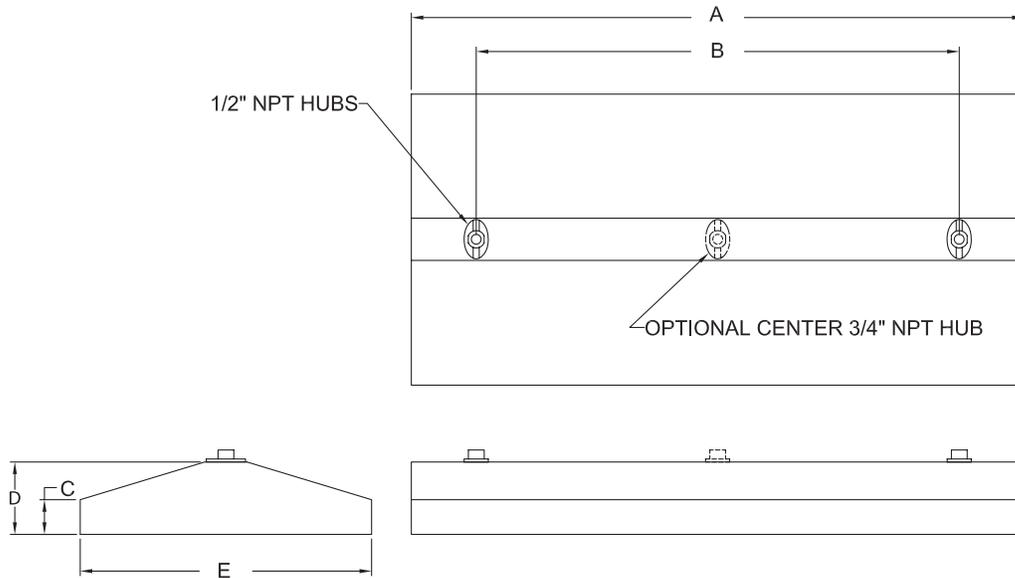HNG = Hinged Lens Frame
50 = 5000K CCT

[1]*Consult factory for pricing*

*Catalog logic is for explaining catalog number structure only. Not all combinations are possible; consult factory for catalog numbers not listed in charts.*

# WFHN LED Series
## High-bay lighting for heavy hose-down environments

## Fixture Dimensions (inches)



1/2" NPT HUBS

OPTIONAL CENTER 3/4" NPT HUB

| WFHN Series | Dimensions (inches) | | | | | Hub Size | Boxed Weight | Shipping Volume (Boxed Fixtures) |
|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | | | |
| 2 ft. x 4 ft. Fixture | 50.75 | 40.0 | 2.88 | 6 | 24.13 | 1/2 | 39 lbs. | 4.7 cu. ft. |

## Accessories

### Eye Bolt Mounting Kit



Catalog Number: 53116
Shipping Weight: 3.0 lbs.
Cable or Chain Not Included
Required with Single Hub Mounting Option

### Fixture Hanger



3/4 in. Male Thread
Catalog Number: HCK75
Shipping Weight: 1.7 lbs.

### Y Fit Cable with 2 ft. Legs



Stainless Steel
12 ft. Catalog Number: GRYSS122
22 ft. Catalog Number: GRYSS222
Shipping Weight: 4 lbs.

### Occupancy Sensor



120/277VAC Sensor Module
Catalog Number: 76007
Shipping Weight: 0.25 lbs.

**Lenses:**
10' Mounting Height Number: 76003
20' Mounting Height Number: 76008
40' Mounting Height Number: 76009
(not suitable for hazardous locations)

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# WFHN LED Series
## High-bay lighting for heavy hose-down environments

## Coefficients of Utilization

### WFHN150244SPAUXX

| % Effective Ceiling Cavity Reflectance rcc | 80 | | | 50 | | | 10 | | |
|---|---|---|---|---|---|---|---|---|---|
| % Wall Reflectance rw | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| Room Cavity Ratio RCR | Effective Floor Cavity Reflectance 20% | | | | | | | | |
| 0 | 1.19 | 1.19 | 1.19 | 1.11 | 1.11 | 1.11 | 1.02 | 1.02 | 1.02 |
| 1 | 1.06 | 1.02 | .99 | .99 | .97 | .94 | .92 | .90 | .88 |
| 2 | .94 | .88 | .83 | .89 | .84 | .80 | .83 | .80 | .77 |
| 3 | .84 | .76 | .70 | .79 | .73 | .69 | .74 | .70 | .66 |
| 4 | .75 | .67 | .61 | .72 | .65 | .60 | .67 | .62 | .58 |
| 5 | .68 | .59 | .53 | .64 | .57 | .52 | .61 | .55 | .51 |
| 6 | .61 | .52 | .46 | .58 | .51 | .46 | .55 | .49 | .45 |
| 7 | .55 | .46 | .41 | .52 | .45 | .40 | .50 | .44 | .39 |
| 8 | .50 | .42 | .36 | .48 | .40 | .35 | .45 | .39 | .35 |
| 9 | .45 | .37 | .32 | .43 | .36 | .31 | .41 | .35 | .31 |

### WFHN150244SCAUXX

| % Effective Ceiling Cavity Reflectance rcc | 80 | | | 50 | | | 10 | | |
|---|---|---|---|---|---|---|---|---|---|
| % Wall Reflectance rw | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| Room Cavity Ratio RCR | Effective Floor Cavity Reflectance 20% | | | | | | | | |
| 0 | 1.19 | 1.19 | 1.19 | 1.11 | 1.11 | 1.11 | 1.02 | 1.02 | 1.02 |
| 1 | 1.06 | 1.03 | .99 | 1,00 | .97 | .95 | .93 | .91 | .89 |
| 2 | .95 | .89 | .84 | .89 | .85 | .81 | .83 | .80 | .77 |
| 3 | .84 | .77 | .71 | .80 | .74 | .69 | .75 | .71 | .67 |
| 4 | .75 | .68 | .61 | .72 | .65 | .60 | .67 | .63 | .59 |
| 5 | .68 | .59 | .53 | .64 | .57 | .52 | .61 | .55 | .51 |
| 6 | .59 | .52 | .46 | .58 | .51 | .45 | .55 | .49 | .45 |
| 7 | .52 | .46 | .40 | .52 | .44 | .39 | .49 | .43 | .39 |
| 8 | .49 | .41 | .35 | .47 | .40 | .35 | .45 | .39 | .34 |
| 9 | .45 | .36 | .31 | .43 | .36 | .31 | .41 | .35 | .30 |

### Candlepower Distribution

| Deg. | Parl. | 22.5 | 45 | 67.5 | Norm |
|---|---|---|---|---|---|
| 0 | 5196.8 | 5196.8 | 5196.8 | 5196.8 | 5196.8 |
| 15 | 4877.6 | 4856 | 4863.1 | 4880.3 | 4898.5 |
| 25 | 4433.2 | 4453.2 | 4423.1 | 4401.1 | 4404 |
| 35 | 3807.6 | 3842.6 | 3816.6 | 3730.1 | 3423.3 |
| 45 | 3086.2 | 3124.5 | 3089.7 | 2995.8 | 2973.9 |
| 55 | 2346.8 | 2392.8 | 2343.4 | 2224.3 | 2205.7 |
| 65 | 1521.8 | 1589.6 | 1552.2 | 1143.6 | 1402.1 |
| 75 | 745.5 | 770.1 | 754.2 | 674.3 | 659.4 |
| 85 | 103.8 | 104.1 | 101.8 | 96.9 | 98.6 |
| 90 | 2.2 | 2.1 | 2.2 | 2.2 | 2.3 |

### Photometric Data
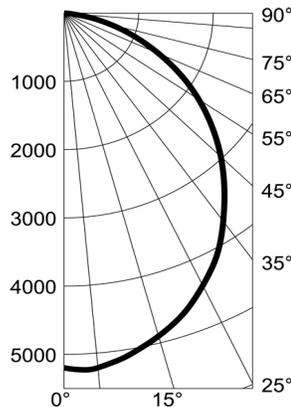


| Total Lumens | 13,090 |
|---|---|
| Input Power (watts) | 148.6 |
| Efficacy (Lumens/Watt) | 88.1 |
| CRI | 82.7 |
| CCT | 4000 |

### Candlepower Distribution

| Deg. | Parl. | 22.5 | 45 | 67.5 | Norm |
|---|---|---|---|---|---|
| 0 | 5130.9 | 5130.9 | 5130.9 | 5130.9 | 5130.9 |
| 15 | 4933.1 | 4930.6 | 4959 | 4975.2 | 5004.9 |
| 25 | 4630.2 | 4626.9 | 4648.3 | 4663.9 | 4684 |
| 35 | 4158.1 | 4160.8 | 4171.3 | 4187.8 | 4200.5 |
| 45 | 3514.6 | 3521.1 | 3523.1 | 3522.4 | 3524.8 |
| 55 | 2711.4 | 2715.6 | 2697.5 | 2690.4 | 2676.6 |
| 65 | 1722.6 | 1736.1 | 1702.8 | 1648.9 | 1429 |
| 75 | 922.2 | 926.3 | 756.7 | 712.2 | 731.2 |
| 85 | 44.5 | 47.7 | 55 | 60.3 | 59.6 |
| 90 | 2.1 | 2 | 2 | 2.2 | 2.3 |

### Photometric Data
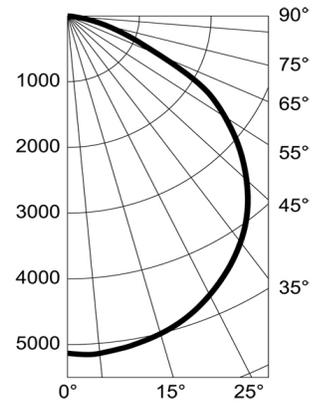


| Total Lumens | 14,112 |
|---|---|
| Input Power (watts) | 148.6 |
| Efficacy (Lumens/Watt) | 95 |
| CRI | 82.6 |
| CCT | 4000 |

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