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|-------------|--|-----------|--|------|--|
| Project | | Catalog # | | Type | |
| Prepared by | | Notes | | Date | |



Lumark

NFFLD Night Falcon

Floodlight Luminaire

Product Features



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Product Certifications

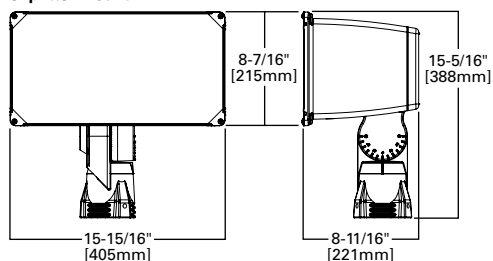


Quick Facts

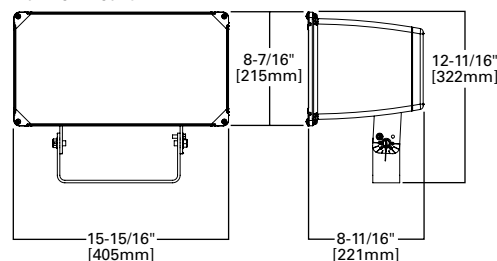
- Up to 156 lumens per watt
- Two optical distributions (wide and spot)
- 4 lumen packages ranging from 11,500 - 26,300 nominal lumens (80 - 180W)
- Replaces 250 - 450W HID

Dimensional Details

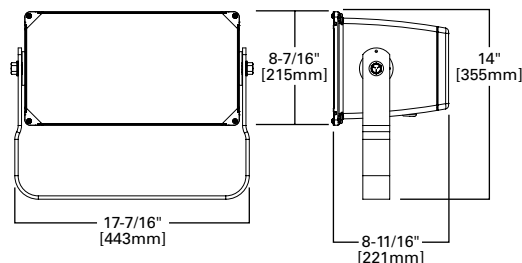
Slipfitter Mount



Trunnion Mount



Yoke Mount



Ordering Information

Sample Number: NFFLD-C40-E-UNV-66-S-CB-PER

| Product Family ¹ | Light Engine ² | Driver ³ | Voltage | Distribution | Mounting | Color |
|---|--|--|--|--|---|---|
| NFFLD =Night Falcon LED Floodlight NFFLD =Night Falcon LED Floodlight, Buy American Act NFFLD =Night Falcon LED Floodlight, Trade Agreements Act Compliant | C25 =10,500 Nominal Lumens C40 =16,900 Nominal Lumens C55 =20,000 Nominal Lumens C70 =24,000 Nominal Lumens | E =Non-Dimming D =Dimming (0-10V) | UNV =120-277V 347 =347V ⁴ 480 =480V ⁴ | 66 =NEMA 6H x 6V Wide 33 =NEMA 3H x 3V Spot ⁴ | S =Slipfitter ⁶ T =Trunnion Y =Yoke | CB =Carbon Bronze (Standard) BK =Black BZ =Bronze AP =Grey WH =White WHT =Summit White DP =Dark Platinum GM =Graphite Metallic |
| Options (Add as Suffix) | | | | Accessories (Order Separately) ^{12, 18} | | |
| 7030 =70 CRI / 3000K ⁷ 7050 =70 CRI / 5000K ⁷ 7060 =70 CRI / 5700K ⁷ 8040 =80 CRI / 4000K ⁷ PER =NEMA 3-PIN Twistlock Photocontrol Receptacle PER7 =NEMA 7-PIN Twistlock Photocontrol Receptacle ⁸ 10K =10kV/10kA UL 1449 Surge Protective Device D10 =External 0-10V Dimming Leads ⁸ HA =50°C High Ambient Temperature ⁹ MSP/DIM-L12 =Integrated Occupancy Sensor for Dimming Operation, 8' - 12' Mounting Height ^{10, 11} MSP/DIM-L30 =Integrated Occupancy Sensor for Dimming Operation, 12' - 30' Mounting Height ^{10, 11} MSP-L12 =Integrated Occupancy Sensor for ON/OFF Operation, 8' - 12' Mounting Height ^{10, 11} MSP-L30 =Integrated Occupancy Sensor for ON/OFF Operation, 12' - 30' Mounting Height ^{10, 11} | | | | FA63 =3" O.D. Surface Mount Bracket ¹³ OA1223 =10kV/10kA UL 1449 Surge Protective Device Replacement OA/RA1013 =Photocontrol Shorting Cap OA/RA1014 =NEMA Photocontrol - 120V OA/RA1016 =NEMA Photocontrol - Multi-Tap OA/RA1027 =NEMA Photocontrol - 480V OA/RA1201 =NEMA Photocontrol - 347V RAB-XX =Right Angle Pipe Bracket for Slipfitter SAB-XX =Steel Angle Bracket for Trunnion TYS-XX =Slipfitter Adapter for 2-3/8", 3" or 3-1/2" O.D. Tenon ¹⁴ TS2/NFFLD-XX =Top and Side Visors ¹⁵ VS/NFFLD =Vandal Shield ¹⁵ WG/NFFLD =Wire Guard ¹⁵ ISHH-01 =Integrated Sensor Programming Remote WOLC-7P-10A =WaveLinX Outdoor Control Module (7-pin) ¹⁶ | | |

NOTES:

- DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- Standard 4000K CCT and minimum 70 CRI. Consult IES file for actual lumen output.
- Consult factory for driver surge protection values.
- Not recommended for use with ungrounded, delta configured systems.
- Only available in C25 and C40 light engines.
- Fits 2-3/8" to 3" O.D. tenon, wire leads run through slipfitter.
- Extended lead times apply. Use dedicated IES files for 3000K and 5700K when performing layouts. These files are published on the Night Falcon luminaire product page on the website.
- Must order with dimming driver.
- Not available with 3H x 3V spot distribution.
- 0-10V dimming driver required. Integrated sensor option only available in slipfitter mounting.
- Not available with Photocontrol.
- Replace XX with color designation. Additional brackets and adaptors available on the poles product page on the website.
- Not available with tenon mount.
- Not available with slipfitter mount.
- Cannot combine TS2 (Top and Side Visor), VS (Vandal Shield), or WG (Wire Guard), limited to one external guard per fixture.
- Requires 7-pin NEMA twistlock photocontrol receptacle. The WOLC-7 cannot be used in conjunction with additional sensors or controls.
- Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
- Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

Stock Ordering Information

Stock Sample Number: NFFLD-C40-S

| Series | Light Engine | Mounting | Voltage |
|----------------------------|--|--|--|
| NFFLD =Night Falcon | C25 =10,500 Nominal Lumens C40 =16,900 Nominal Lumens | S =Slipfitter T =Trunnion | [BLANK] =120-277V 347 =347V |

NOTES: Options not available with stock products. Order accessories as separate items for field installation. Refer to standard ordering information to add options. Refer to In-Stock Guide for availability. Stock fixture is 4000K, 0-10V dimming driver, 120-277V or 347V 6Hx6V, carbon bronze only.

Product Specifications

Construction

- Heavy-duty, die-cast aluminum housing, driver compartment, and driver housing door
- Driver compartment and optical chamber are IP66 rated
- Driver maintenance access via removable door using pan head screws
- One-piece silicone gasket seals the door to the fixture housing

Optics

- Vacuum-metalized reflector for high-efficiency illumination
- NEMA type 6H x 6V and 3H x 3V distributions available
- Clear, tempered glass lens with full circumference form-in-place silicone gasket protects optics from damage

Electrical

- LED driver is mounted to removable die-cast aluminum door
- Integral 6kV surge is standard
- Ambient operating temperatures from -40°C to 40°C
- Greater than 90% lumen maintenance expected at 60,000 hours per IESNA TM-21
- 0-10V dimming driver available
- > 0.9 Power Factor; < 20% Total Harmonic Distortion

Mounting

- Suitable for mounting within 4' (1.2m) of the ground
- Heavy-gauge steel trunnion and yoke mounts are supplied with 3ft of pre-wired 16/3 SOW wet location rated cord
- Die-cast aluminum slipfitter with a tooth-lock adjustment that can be adjusted in 5° increments. Preset to 45° tilt. Visual 15° adjustment indicators on the knuckle allow for 180° field rotation of the flood assembly. Slipfitter mounts to 2" pipe or 2-3/8" O.D. tenons
- Effective Projected Area: 1.25 sq. ft.

Finish

- Housing and cast parts finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear

Shipping Data

- Approximate net weight: 20 lbs. (9.09 kgs.)

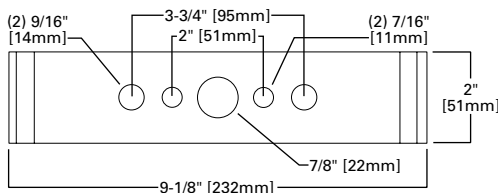
Warranty

- Five-year limited warranty. Consult website for details. www.cooperlighting.com/legal

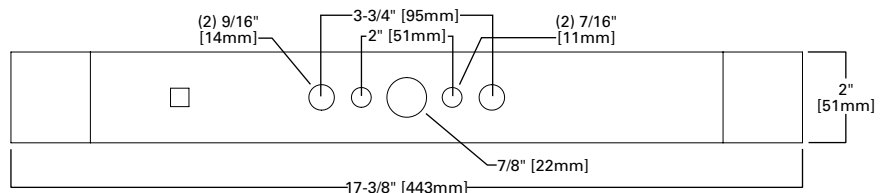
Mounting Details

Drilling Patterns

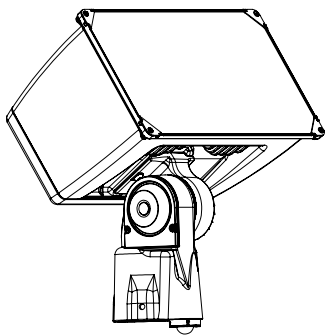
Trunnion Mount



Yoke Mount

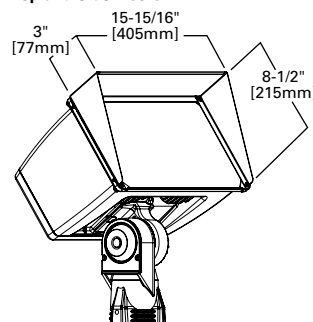


Optional Integrated Sensor

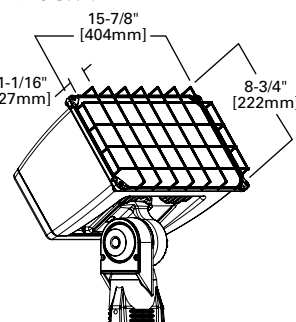


Accessories

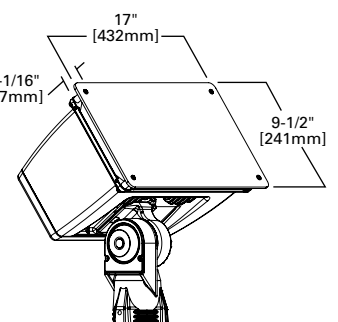
Top and Side Visors



Wire Guard



Vandal Shield



Energy and Performance Data

Power and Lumens

| | 6x6 | | | | 3x3 | | | |
|-----------------------------|-----------|----------------|----------------|----------------|-----------|----------------|----------------|----------------|
| C25 LED | NFFLD-C25 | NFFLD-C25-7030 | NFFLD-C25-7050 | NFFLD-C25-7060 | NFFLD-C25 | NFFLD-C25-7030 | NFFLD-C25-7050 | NFFLD-C25-7060 |
| Delivered Lumens | 10,530 | 10,122 | 10,383 | 10,217 | 10,272 | 9,874 | 10,128 | 9,967 |
| CCT (Kelvin) | 4000K | 3000K | 5000K | 5700K | 4000K | 3000K | 5000K | 5700K |
| CRI (Color Rendering Index) | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| Power Consumption (Watts) | 85W | 85W | 85W | 85W | 93W | 93W | 93W | 93W |
| C40 LED | NFFLD-C40 | NFFLD-C40-7030 | NFFLD-C40-7050 | NFFLD-C40-7060 | NFFLD-C40 | NFFLD-C40-7030 | NFFLD-C40-7050 | NFFLD-C40-7060 |
| Delivered Lumens | 16,932 | 16,268 | 16,686 | 16,421 | 14,113 | 13,567 | 13,916 | 13,694 |
| CCT (Kelvin) | 4000K | 3000K | 5000K | 5700K | 4000K | 3000K | 5000K | 5700K |
| CRI (Color Rendering Index) | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| Power Consumption (Watts) | 128W | 128W | 128W | 128W | 143W | 143W | 143W | 143W |
| C55 LED | NFFLD-C55 | NFFLD-C55-7030 | NFFLD-C55-7050 | NFFLD-C55-7060 | | | | |
| Delivered Lumens | 19,943 | 19,407 | 20,144 | 20,285 | | | | |
| CCT (Kelvin) | 4000K | 3000K | 5000K | 5700K | | | | |
| CRI (Color Rendering Index) | 70 | 70 | 70 | 70 | | | | |
| Power Consumption (Watts) | 145W | 145W | 145W | 145W | | | | |
| C70 LED | NFFLD-C70 | NFFLD-C70-7030 | NFFLD-C70-7050 | NFFLD-C70-7060 | | | | |
| Delivered Lumens | 23,797 | 23,157 | 24,037 | 24,205 | | | | |
| CCT (Kelvin) | 4000K | 3000K | 5000K | 5700K | | | | |
| CRI (Color Rendering Index) | 70 | 70 | 70 | 70 | | | | |
| Power Consumption (Watts) | 184W | 184W | 184W | 184W | | | | |

Current Draw

| Voltage (V) | Model Series | | | | | |
|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| | 6x6 | | | | 3x3 | |
| | NFFLD-C25 | NFFLD-C40 | NFFLD-C55 | NFFLD-C70 | NFFLD-C25 | NFFLD-C40 |
| | Current (A) | Current (A) | Current (A) | Current (A) | Current (A) | Current (A) |
| 120V | 0.708 | 1.070 | 1.2299 | 1.5695 | 0.778 | 1.190 |
| 277V | 0.340 | 0.465 | 0.535 | 0.6726 | 0.340 | 0.531 |
| 347V | 0.251 | 0.377 | 0.4213 | 0.5334 | 0.271 | 0.419 |
| 480V | 0.195 | 0.273 | 0.3044 | 0.3831 | 0.207 | 0.320 |

Lumen Maintenance

| Ambient Temperature | TM-21 Lumen Maintenance (60,000 Hours) | Theoretical L70 (Hours) |
|---------------------|--|-------------------------|
| 6H x 6V (Wide) | | |
| 25°C | > 94.55% | > 388,000 |
| 40°C | > 93.58% | > 327,000 |
| 50°C | -- | -- |
| 3H x 3V (Spot) | | |
| 25°C | >92.18% | >262,000 |
| 40°C | >91.81% | >249,000 |

Lumen Multiplier

| Ambient Temperature | Lumen Multiplier |
|---------------------|------------------|
| 10°C | 1.03 |
| 15°C | 1.02 |
| 25°C | 1.00 |
| 40°C | 0.97 |
| 50°C | 0.96 |