

Project		Catalog #		Type	
Prepared by		Notes		Date	



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Lumark

NFFLD Night Falcon

Floodlight Luminaire

Product Certifications & Features

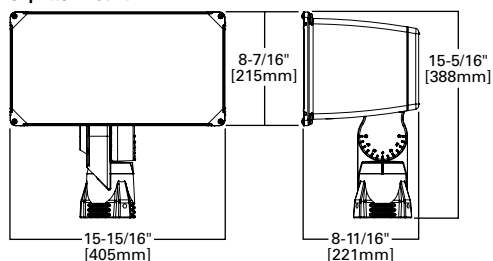


Quick Facts

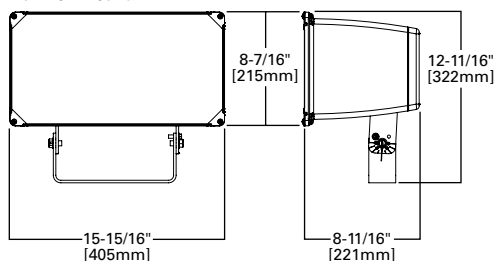
- Up to 156 lumens per watt
- Two optical distributions (wide and spot)
- 4 lumen packages ranging from 11,500 - 26,300 nominal lumens (80 - 180W)
- Replaces 250 - 450W HID

Dimensional Details

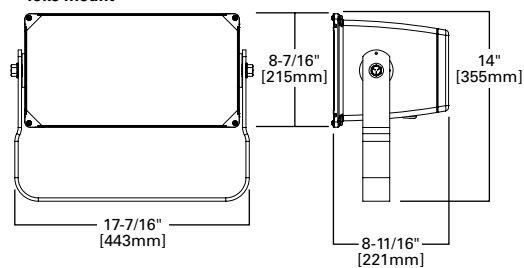
Slipfitter Mount



Trunnion Mount



Yoke Mount



Ordering Information

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

Product Family	Light Engine ²	Driver ³	Voltage	Distribution	Mounting	Color
NFFLD =Night Falcon LED Floodlight BAA-NFFLD =Night Falcon LED Floodlight, Buy American Act Compliant ¹⁷ TAA-NFFLD =Night Falcon LED Floodlight, Trade Agreements Act Compliant ¹⁷ BABA-NFFLD =Night Falcon LED Floodlight, Build America Buy America Act Compliant ¹⁹	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 ⁵	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 =WaveLinux 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. Consult factory for further information.
- Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
- Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. Please refer to the [DOMESTIC PREFERENCES](#) website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

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.

Compliance

- DLC and DLC Premium listed – visit designlights.org to confirm listed variations
- BAA domestic preference option meets BAA requirements. See [DOMESTIC PREFERENCES](#) website or consult the CLS Domestic Preferences team for more information
- FHWA and FTA agencies are utilizing their BAA rules for BABA compliance. Cooper's products with a BAA designation are manufactured in the US and utilize a BAA COTS exemption rule for compliance. To verify a configured product with specific accessories and options meet BABA Domestic Preference Requirements; submit this catalog number to Cooper Lighting Quotation team for validation by our Engineering and Manufacturing teams. Please refer to the [DOMESTIC PREFERENCES](#) website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements

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.)

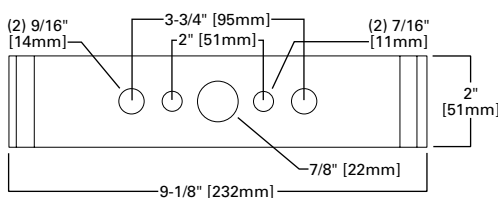
Warranty

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

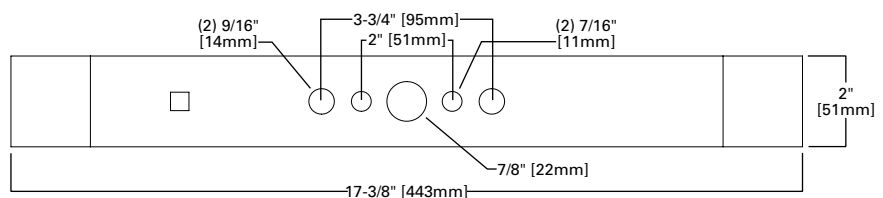
Mounting Details

Drilling Patterns

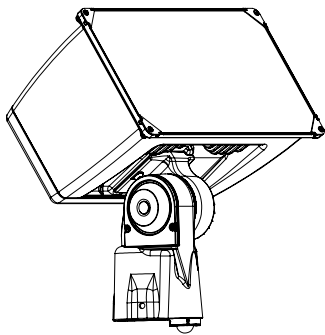
Trunnion Mount



Yoke Mount

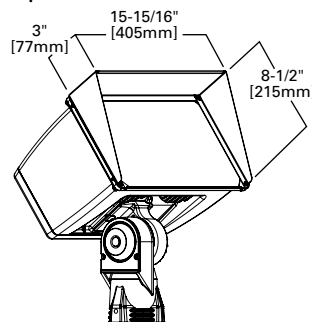


Optional Integrated Sensor

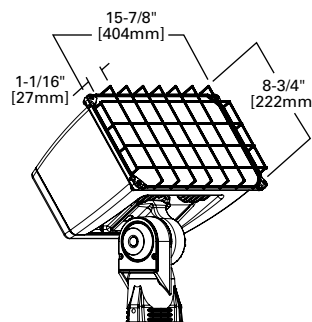


Accessories

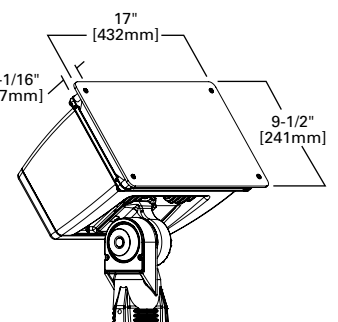
Top and Side Visors



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