DESCRIPTION

The Night Falcon™ LED floodlight luminaire combines high-efficiency optics, superior thermal management and energy efficiency in a cost-effective solution. The compact, robust design incorporates a separate driver compartment for maximum heat dissipation to insure longevity of both the fixture and the LEDs. The Night Falcon luminaire uses precision engineered optics delivering superior uniformity and excellent illumination to the targeted application. Typical applications include area lighting for security, building facade lighting, accent and signage lighting in both commercial and industrial applications. The Night Falcon luminaire is UL/cUL listed for wet locations and is IP66 rated.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Construction

Heavy-duty, die-cast aluminum housing, driver compartment and driver housing door. A separate driver compartment and external fins provide optimal thermal management that result in longer LED and driver life. The housing, driver compartment and optical chamber are IP66 rated. Access to the driver for maintenance is achieved with a removable driver door using pan head screws. A one-piece silicone gasket seals the door to the fixture housing. The fixture is 3G vibration rated (ANSI C136.31) to ensure durability in area and site lighting applications. Suitable for mounting within 4' (1.2m) of the ground.

Optics

The LED chamber incorporates a vacuum metalized reflector that provides high-efficiency illumination. Optics are precisely designed to shape the the NEMA 6H x 6V wide distribution and the 3H x 3V spot distribution. maximizing efficiency and application spacing. Clear glass tempered lens with full circumference form-in-place silicone gasket protects the optics from damage. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 5700K, 5000K and 3000K CCT and minimum 70 CRI are available.

Electrical

LED driver is mounted to the removable die-cast aluminum door for optimal heat sinking and ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Integral 6kV surge is standard.10kV/10kA common- and differential- mode surge protection available as an option. 0-10V dimming driver is available to accommodate controls capability such as dimming and occupancy. Standard NEMA 3-PIN twistlock photocontrol receptacle and NEMA 7-PIN twistlock photocontrol receptacles are available as options. Suitable for ambient temperatures from -40°C to 40°C. Optional 50°C HA (high ambient) available. 92% lumen maintenance greater than 60,000 hours per IESNA TM-21 at 25°C.

Accessories

Heavy-duty steel top and side visors control glare and spill light. 1/8" thick UV stabilized vandal guard shields glass lens from impact when mounted at low levels. Easy to install wire guard features a heavy-gauge welded construction with corrosion resistant polyester powder coat finish to protect glass from projected objects.

Mounting

Mounting options include an integral die-cast aluminum slipfitter that is preset to a tilt of 45°. The knuckle base is supplied with a tooth lock adjustment that can be adjusted in 5° increments to provide flexibility in aiming the fixture from a variety of surfaces. Visual 15° adjustment indicators on the knuckle allow for 180° field rotation of the floodlight assembly. The slipfitter fits standard 2-3/8"-3" O.D. tenon. The trunnion mounting includes a 3/16" polyester powder coated galvanized steel trunnion with a 16/3 SOW cord. The trunnion mount uses an interlocking slide adjustment that is locked into place with a set screw.

Finish

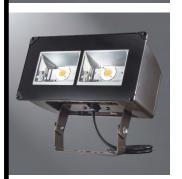
Housing and cast parts finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard color is carbon bronze. Additional colors available in summit white, white, grey, bronze, black, dark platinum and graphite metallic. Consult your lighting representitive at Eaton for a complete selection of standard colors.

Warranty

Five-year warranty.



Lumark



NFFLD NIGHT FALCON

Solid State LED

FLOODLIGHT

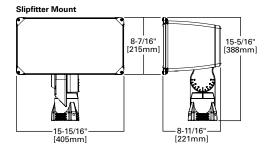


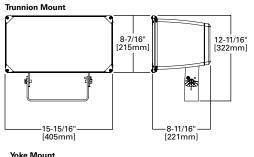


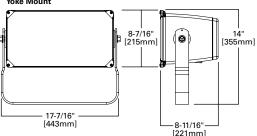




DIMENSIONS







*www.designlights.org

CERTIFICATION DATA

UL/cUL Wet Location Listed IP66 Fixture and Optical Chamber LM79/LM80 Compliant 3G Vibration Rated RoHS Compliant DesignLights Consortium® Qualified*

ENERGY DATA

Electronic LED Driver

> 0.9 Power Factor

< 20% Total Harmonic Distortion 120V 50/60Hz, 347V/60Hz and 480V/60Hz -40°C Minimum Ambient Temperature Rating

+40°C Maximum Ambient Temperature Rating

ЕРΔ

Effective Projected Area (Sq. Ft.): 1.25

SHIPPING DATA

Approximate Net Weight: 20 lbs. (9.09 kgs.)

TD506007EN November 18, 2021 7:05 PM



page 2 NFFLD NIGHT FALCON

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				
COT (K-1-1-)	400016	000016	500014	570016				

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

	Model Series						
\/alta=== (\)(\)	6x6				3x3		
Voltage (V)	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

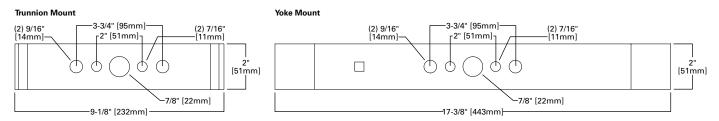
Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)			
6H x 6V (Wide)	6H x 6V (Wide)				
25°C	> 94.55%	> 388,000			
40°C	> 93.58%	> 327,000			
50°C					
3H x 3V (Spot)					
25°C	>92.18%	>262,000			
40°C	>91.81% >249,000				

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

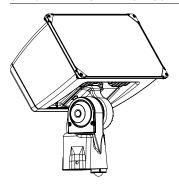
page 3 NFFLD NIGHT FALCON

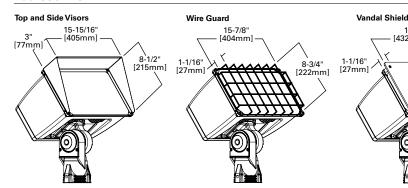
DRILLING PATTERNS

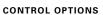


OPTIONAL INTEGRATED SENSOR

ACCESSORIES







0-10V (D)

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

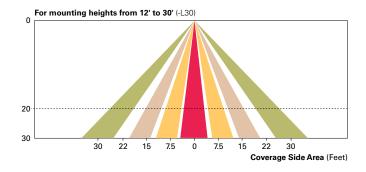
Photocontrol (PER and PER7)

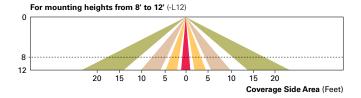
Photocontrol receptacles (PER and PER7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

Dimming Occupancy Sensor (MSP/DIM-LXX and MSP-LXX)

These sensors are factory installed in the luminaire housing. When the MSP/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MSP/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MSP-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity.

These occupancy sensors includes an integral photocell that can be activated with the ISHH-01 accessory for "dusk-to-dawn" control or daylight harvesting -- the factory preset is OFF. The ISHH-01 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-30'.





[432mm]

9-1/2" [241mm]

WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

