

Night Owl 3.1

Security / NEMA Head Lighting

Assembled in the USA using domestic & foreign components.

Project:	
Catalog#:	
Approved by:	



Fully compatible
with ANSI/NEMA
standard refractor
assembly



Description

The NO3.1 "Night Owl" is an LED energy saving cost-effective solution to replace up to 250 watt HID (HPS & MH) NEMA Heads.

Construction

- Heavy duty die-cast aluminum housing
- Corrosion resistant (stainless steel) hardware
- Tool less entry
- Three (3) station terminal block accepts up to #6 AWG
- Mounting is adjustable for arms from 1-1/4" to 2" NPS (1.66" to 2.375" O.D.)
- 3G vibration rated (ANSI C136.31)
- IP66 rated optical chamber
- Self-cleaning heat sink

Electrical

- Driver power factor > 0.9
- Driver THD < 20%
- Driver voltage 120-277V (50/60Hz)
- 0-10V dimming is standard
- Electronic driver has an expected life of 100,000 hours at 25°C ambient.
- NEMA 7-pin twist lock photo control receptacle
- Standard with 10kV surge protection (meets or exceeds ANSI/IEEE C62.41)
- Optional 20kV surge protection
- Suitable for ambient temperatures from -40°C (-40°F) to +40°C (104°F)

Features

NO3.1 has the ability to accept legacy HID NEMA refractor as needed for your application. To access the driver compartment, surge suppressor, terminal block and mounting brackets; there is a tool less entry door that opens from the bottom side of the housing. The optical compartment is IP66. The casting has integral tilt-adjustment steps ± 5 degrees, standard 7-pin photo control receptacle and two bolt mounting that accepts 1-1/4" to 2" tenon arms.

Optical

- IP66 rated optics enclosure
- 3000K or 4000K CCT
- 70+ CRI
- Type II or Type V light distributions
- No uplight
- Optional tool less drop acrylic lens
- Housing accepts legacy HID NEMA head refractors

Non Stocked Options (Contact Factory for Lead Time)

- DALI, 120-277V driver

Certification Ratings

- Complies with ANSI C136.43 luminaire standard
- 3G vibration rated (ANSI C136.31)
- IP66 rated optical enclosure (per ANSI C136.25)
- RoHS compliant

Accessories

- Mounting arms
- Prewiring
- Long-Life photocontrol or shorting cap
- Acrylic Drop refractor and glare shield

Physical

- Dimensions: (L) 19" x (W) 8" x (H) 5"
(L) 19" x (W) 8" x (H) 7.1" with NO3.1-D/DG
- Weight: 6 lbs
- EPA: 0.42

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Ordering Information

Model	Nominal Wattage	Driver	Optics	CCT	Paint	Surge Protection	Controls	Options
NO3.1	—	—	—	—	U	—	—	—
NO3.1: Night Owl 3.1	A: 30W, 4,350 lm B: 40W, 5,900 lm C: 50W, 6,850 lm D*: 60W, 7,850 lm E*: 70W, 8,700 lm	MV*: 120-277V w/ 0-10V dimming ML: DALI 120- 277V	2: Type II 5*: Type V	3: 3000K 4*: 4000K	U*: Bare Aluminum	1*: 10kV/5kA 2: 20kV/10kA	N*: No Controls S: Shorting Cap 1: Black long-life, fail-on photocontrol 2: Black long-life, fail-off photocontrol 3: Green long-life, fail-on photocontrol 4: Green long-life, fail-off photocontrol	Blank*: No options 1: 18", 1-1/4" diameter AL arm w/ hardware 2: 24", 1-1/4" diameter AL arm w/ hardware 3: 30", 1-1/4" diameter AL arm w/ hardware 8: Prewired w/ 3 pcs 60" 14AWG solid CU, BK-WH-GN A: Adjustable Output Unit D: Detachable drop refractor (field installed, tool less) DG: Detachable drop refractor with glare shield (field installed, tool less) PK1: Packaged Kit 1; 24" arm w/ hardware, and 60" prewire PK3: Packaged Kit 3; 24" arm w/ hardware, 60" prewire, and Adjustable Output Unit (AOU)

*Shortest lead-time configuration.

*Suitable for ambient temperatures from -40°C to +40°C

Performance Data and BUG Rating

Model Configuration		System Watts	NEMA Label	Optics	3000K CCT		4000K CCT	
					Lumens	B-U-G	Lumens	B-U-G
NO3.1	A	29	30	Type II	4,260	1-0-1	4,480	1-0-1
				Type V	4,220	3-0-1	4,440	3-0-1
	B	41	40	Type II	5,770	2-0-1	6,070	2-0-1
				Type V	5,720	3-0-1	6,010	3-0-1
	C	49	50	Type II	6,700	2-0-1	7,040	2-0-2
				Type V	6,630	3-0-1	6,980	3-0-1
	D	60	60	Type II	7,720	2-0-2	8,120	2-0-2
				Type V	7,650	3-0-2	8,040	3-0-2
	E	69	70	Type II	8,520	2-0-2	8,960	2-0-2
				Type V	8,440	3-0-2	8,880	3-0-2

Accessories (field installed, tool less)



NO3.1-D: Detachable Drop Refractor



NO3.1-DG: Detachable Drop Refractor
w/ Glare Shield



NO3.1-GS: Glare Shield
(compatible with NO3.1-D)

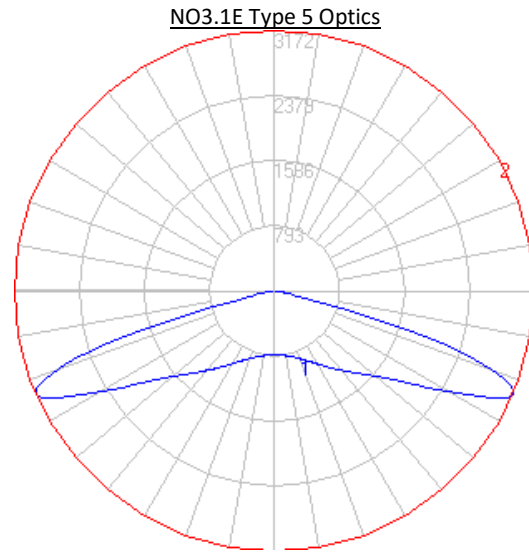
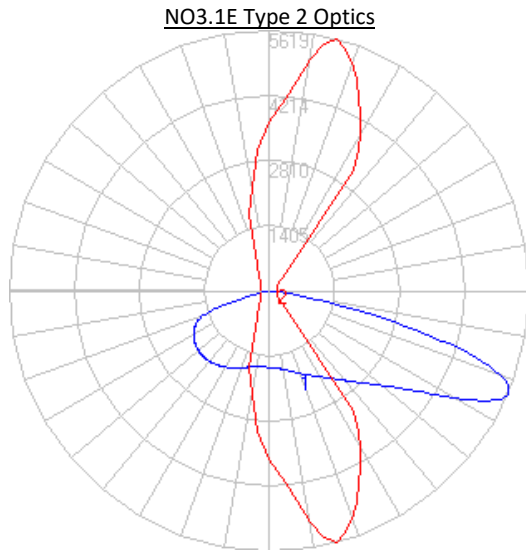
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Photometric Performance



#1 Vertical plane through horizontal angles (through max. Cd.)

#2 Horizontal cone through vertical angle (through max. Cd.)

Adjustable Output Unit (optional)

AOU is used to lower the fixture's light output and wattage. It can be easily adjusted with a flat-blade screwdriver. Approximate lumen and wattage values are shown in the tables below. The unit consumes no standby power and can be removed to convert the luminaire to standard 0-10V dimming. This allows maintenance departments to carry less inventory through reduced number of unique models.

Base Model	AOU Position	System Watts	Delivered Lumens (±5% typical value)			
			Type II		Type V	
			4000K	3000K	4000K	3000K
NO3.1-C (50W configuration)	8	49	7,040	6,700	6,980	6,630
	7	43	6,260	5,950	6,200	5,890
	6	38	5,690	5,410	5,640	5,360
	5	34	5,080	4,830	5,030	4,780
	4	29	4,470	4,250	4,430	4,210
	3	25	3,780	3,590	3,740	3,560
	2	21	3,150	3,000	3,120	2,970
	1	16	2,490	2,370	2,470	2,350
NO3.1-E (70W configuration)	8	69	8,960	8,520	8,880	8,440
	7	59	7,820	7,430	7,750	7,370
	6	52	7,100	6,750	7,040	6,690
	5	45	6,350	6,040	6,290	5,980
	4	39	5,560	5,290	5,510	5,240
	3	33	4,750	4,510	4,700	4,470
	2	27	3,890	3,700	3,850	3,660
	1	21	3,000	2,850	2,970	2,830

