

nLLK non-metallic fluorescent luminaires

Cl. I, Div. 2, Groups A, B, C, D
Cl. I, Zone 2, AEx nA II
Cl. II, Div. 2, Groups F, G

CSA Listed
ATEX Certified
Wet Locations
Enclosure Type 4X

4L

The nLLK fluorescent luminaire is an ideal source of general illumination indoors or out, in ordinary or hazardous environments. Its heavy duty, non-metallic construction stands up to tough physical and environmental demands, making it an excellent choice where dust, dirt, gas, vapor, smoke, fumes, moisture, corrosive and wet conditions are present. The nLLK luminaire meets the standards and codes of regulating agencies throughout the world, which simplifies product specifying for multi-national users.



4L

Applications:

nLLK luminaires are used:

In indoor or outdoor, ordinary or hazardous areas

Where a heavy duty, non-metallic luminaire is required to hold up to tough physical and environmental demands, including corrosives, water, dust and extreme temperatures

- Manufacturing plants
- Heavy industrial facilities
- Industrial process facilities
- Refineries
- Chemical
- Petrochemical
- Pharmaceutical
- Wastewater and sewage treatment plants

In areas where low mounting height, immediate full illumination and the even light distribution associated with a line type light source are required

- Loading docks
- Tunnels
- Stairways

Where wet location or Type 4X protection is required

- Dock areas
- Production platforms

In hose down areas where cleanliness and sanitation are prime factors

- Dairies
- Canneries
- Food processing plants
- Bottling plants
- Laboratories

Certifications and compliances:

NEC:

- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2, AEx nA II
- Class II, Division 2, Groups F, G
- Wet locations

CEC:

- Class I, Zone 2, Ex nA II
- Class I, Division 2, Groups A, B, C, D
- Class II, Division 1, Groups E, F, G

Enclosure:

- Type 4X
- IP65

CSA standards:

- C22.2 No. 9
- CAN/CSA-E79-15

ATEX:

ATEX Directive 94/9/EC:

- Ex II 3G Ex nA de IIC T4
- Ex II 3G Ex nA de mb IIC T4

Type of protection:

- Ex II 3D Ex tD A22 IP66 T80°C

EC-Type examination certificate:

- BVS 09 ATEX E147

Standard materials:

- One-piece housing – fiberglass-reinforced polyester
- Lens – polycarbonate
- Gasket – silicone

Standard finishes:

- Fiberglass housing – natural (white)
- Lens – natural (clear)

Electrical ratings:

Sources/wattages:

- Two 17W or two 32W linear fluorescents

Voltsages:

- 120-277V, 50-60 Hz
- 347V, 60 Hz – consult factory

Hub sizes:

- Four 25mm entries, two on each end, three plugged
- Two Myers STM2 25mm to $\frac{3}{4}$ " NPT adapter hubs provided standard for through feed or tandem wiring

Photometrics:

- Refer to www.eaton.com (under the Resources tab of each product family) for specific photometric IES files

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Features:

IP65, Type 4X heavy duty construction

- Non-metallic body, gasketed lens and unique labyrinth lens locking system
- Dusttight, watertight and moisture-tight
- Corrosion- and impact-resistant
- Ideal for outdoor applications

Electronic ballast

- Lower ambient temperatures suitability to -18°C
- High power factor ballast (+90%) allows for more luminaires per circuit

Standard T8 bi-pin lamps

- Most common lamp used; energy-efficient and cost-effective

Removable lens

- Hinged on both sides for easy installation and maintenance

Easy wiring and installation

- Four 25mm entries; two Myers $\frac{3}{4}$ " NPT adapter hubs supplied standard
- Suitable for through feed or tandem applications
- Extra large wire well eliminates need for separate junction boxes

Worldwide suitability

- NEC/CEC: Class I, Zone 2 and Division 2 areas
- IEC/CENELEC certified luminaires available (consult factory)



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Ordering information:

Cat. #	Description	Length and lamp type	Lamp watts (2-lamp)	Rated voltage	Rated current	Conduit hub size	Comments
NEC (not ATEX certified)							
1 3465 217 021	nLLK 98 2217 /UNV	2 ft. T8	17W	120-277V, 60 Hz	0.16A	2 each - $\frac{3}{4}$ " Myers hub	Through feed
1 3465 217 347	nLLK 98 2217 /347 2/5 2 NPT $\frac{3}{4}$ " M UL	2 ft. T8	17W	347V, 60 Hz	0.16A	2 each - $\frac{3}{4}$ " Myers hub	Through feed
1 3465 232 021	nLLK 98 4232 /UNV	4 ft. T8	32W	120-277V, 60 Hz	0.31A	2 each - $\frac{3}{4}$ " Myers hub	Through feed
1 3465 232 347	nLLK 98 4232 /347 2/5 2 NPT $\frac{3}{4}$ " M UL	4 ft. T8	32W	347V, 60 Hz	0.31A	2 each - $\frac{3}{4}$ " Myers hub	Through feed
IEC (ATEX certified)							
1 3465 218 011	nLLK 08 018/18	2 ft. T8	18W	220-240V, 50-60 Hz	0.16A	2 each - 25mm metric	Through feed
1 3465 218 021	nLLK 08 018/18	2 ft. T8	18W	220-240V, 50-60 Hz	0.16A	2 each - 20mm metric	Through feed
1 3465 236 011	nLLK 08 036/36	4 ft. T8	36W	220-240V, 50-60 Hz	0.31A	2 each - 25mm metric	Through feed
1 3465 236 021	nLLK 08 036/36	4 ft. T8	36W	220-240V, 50-60 Hz	0.31A	2 each - 20mm metric	Through feed

Accessories (ordered separately):

Type	Corrosion protection	Pipe DIN	Outer Ø D (mm)	Quantity per luminaire	Cat. #
Everbolt A2	Galvanized	—	—	2	2 2480 002 000
Hexagon screw S4	Stainless steel	—	—	2	2 2480 054 000
Ceiling mounting bracket D92	Stainless steel	—	—	2	2 2480 092 000
Pipe clamp	R12 hot galvanized	1 $\frac{1}{4}$ "	38-42	2	2 2480 462 000
	R14 CrNi	1 $\frac{1}{4}$ "	38-42	2	2 2480 464 000
	R22 hot galvanized	1 $\frac{1}{2}$ "	47-51	2	2 2480 472 000
	R32 hot galvanized	2"	56-60	2	2 2480 482 000
Hexagon key SW13 eLLK 92	—	—	—	—	3 2485 000 005
Wall bracket W27	Hot galvanized	—	42.40	1	2 2483 027 000
Myers 25mm to $\frac{3}{4}$ " NPT adapter hub	—	—	—	—	STM2

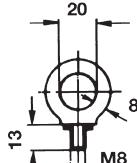
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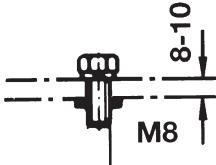
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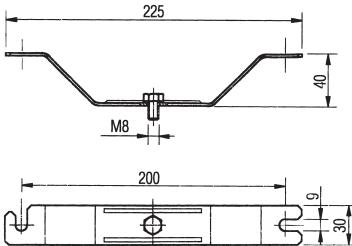
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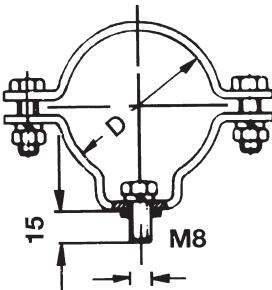
Eyebolt A2



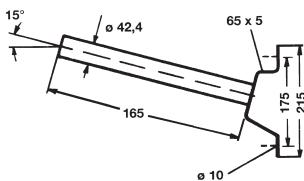
Hexagon screw S4



Ceiling mounting bracket D92



Pipe clamp



Wall bracket W27

Temperature performance data:

Watts	Ambient temp. °C	Minimum starting temp. °C	Class I, Div. 2 (Class I, Zone 2)	Class II, Div. 1 (CEC) Class II, Div. 2 (NEC)	Supply wire °C
Two 17W T8 lamps	40	-18	T4	T6	60
Two 32W T8 lamps	40	-18	T4	T6	60

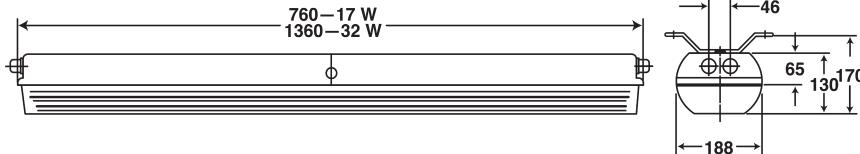
Maintenance and relamping:

1. **One quarter turn** with the SW13 hexagon key or a $\frac{5}{16}$ " (M8) Allen hex head wrench releases multiple locking points.
2. **Lamps can be stored** in open lens, freeing up hands for easy relamping.
3. **Replace the bi-pin lamp lock** with one quarter turn of the wrench for an IP65, Type 4X seal.



(eLLK Div. 1/Zone 1 luminaire is shown; maintenance procedures are the same for nLLK)

Dimensions (in millimeters):



Weights:

Watts	Weight (lbs.)	Weight (kg.)
18W	8.80	4.00
36W	13.20	6.00