

nLLK Series 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
Enclosure Type 4X

Wet Locations
UL and cUL Listed
ATEX Certified

5L

Eaton's Crouse-Hinds SpecOne™ nLLK Series 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. As with all SpecOne products, the nLLK Luminaire meets the standards and codes of regulating agencies throughout the world, which simplifies product specifying for multi-national users.



Applications:

nLLK Series 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
 - UL Listed
- 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
 - cUL Listed (certified by UL)
- Enclosure:
 - Type 4X
 - IP65
- UL Standards:
 - 844 Hazardous (Zones Classified) Locations
 - 1598 Luminaires
- 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
 - Ex II 3D Ex tD A22 IP66 T80°C
- Type of Protection
- 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)

Ratings (Electrical/Size):

Sources/Wattages

- Two (2) 17W or two (2) 32W linear fluorescent

Voltages

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

Hub Size

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

5L

nLLK Series 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
 Enclosure Type 4X

Wet Locations
 UL and cUL Listed

IP65, Type 4X heavy duty construction

- Non-metallic body, gasketed lens and unique labyrinth lens locking system
- Dust-tight, water-tight 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 25 mm entries; two Myers™ 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)



Ordering Information:

Cat. #	Description	Length & Lamp Type	Lamp Watt - 2	Rated Voltage	Rated Current	Conduit Hub Size	Comments
NEC (NOT ATEX CERTIFIED)							
1 3465 217 021	nLLK 98 2217 /UNV	2-foot T8	17W	120V-277V, 60 Hz	0.16A	2 ea. - 3/4" Myers hub	Through-feed
1 3465 217 347	nLLK 98 2217 /347 2/5 2 NPT 3/4" M UL	2-foot T8	17W	347V, 60 Hz	0.16A	2 ea. - 3/4" Myers hub	Through-feed
1 3465 232 021	nLLK 98 4232 /UNV	4-foot T8	32W	120V-277V, 60 Hz	0.31A	2 ea. - 3/4" Myers hub	Through-feed
1 3465 232 347	nLLK 98 4232 /347 2/5 2 NPT 3/4" M UL	4-foot T8	32W	347V, 60 Hz	0.31A	2 ea. - 3/4" Myers hub	Through-feed
IEC (ATEX CERTIFIED)							
1 3465 218 011	nLLK 08 018/18	2-foot T8	18W	220V-240V, 50-60 Hz	0.16A	2 ea. - 25mm metric	Through-feed
1 3465 218 021	nLLK 08 018/18	2-foot T8	18W	220V-240V, 50-60 Hz	0.16A	2 ea. - 20mm metric	Through-feed
1 3465 236 011	nLLK 08 036/36	4-foot T8	36W	220V-240V, 50-60 Hz	0.31A	2 ea. - 25mm metric	Through-feed
1 3465 236 021	nLLK 08 036/36	4-foot T8	36W	220V-240V, 50-60 Hz	0.31A	2 ea. - 20mm metric	Through-feed

Accessories:

Description	Cat. #
SW13 hexagon key (for maintenance and lamp replacement)	3 2485 000 005
Myers™ 25mm to 3/4" NPT adapter hub	STM 2

Type	Corrosion Protection	Pipe DIN	Outer Ø D (mm)	Quantity per Luminaire	Cat. #
Eyebolt 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 1/4"	38-42	2	2 2480 462 000
	R14 CrNi	1 1/4"	38-42	2	2 2480 464 000
	R22 Hot Galvanized	1 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	—	42.4	1	2 2483 027 000

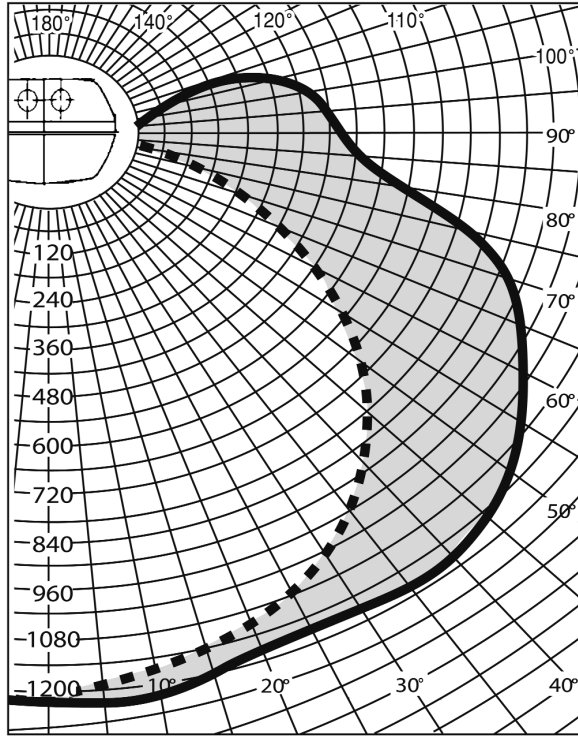
nLLK Series Non-metallic Fluorescent Luminaires

Cl. I, Div. 2, Groups A, B, C, D
 Cl. I, Zone 2, AEx nA II
 Cl. II, Div. 2, Groups F, G
 Enclosure Type 4X

Wet Locations
 UL and cUL Listed

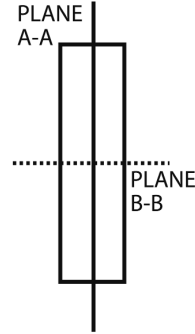
5L

Photometric Data:

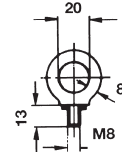


CANDELAS

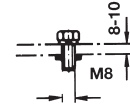
DEGREES	PLANE A-A 0 - 180°	PLANE B-B 90 - 270°
0	1215	1215
10	1210	1185
20	1189	1120
30	1175	1014
40	1158	872
50	1107	695
60	998	487
70	868	270
80	566	83
90	440	
100	380	
110		
120		
130		
140		
150		
160		
170		
180		



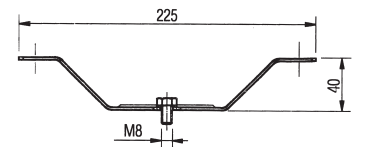
Accessories:



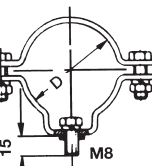
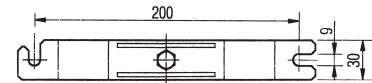
Eyebolt A2



Hexagon Screw S4



Ceiling Mounting Bracket D92



Pipe Clamp

Wall Bracket W27

Temperature Performance:

Minimum Starting Temperature: -18°C

Watts	Ambient	Class I, Div. 2 (Class I, Zone 2)	Class II, Div. 1 (CEC) Class II, Div. 2 (NEC)	Supply Wire Temp. °C
Two 17W T8 lamps	40°C	T4	T6	60
Two 32W T8 lamps	40°C	T4	T6	60

Maintenance and Relamping:

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

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



Dimensions (mm) and Weight:

Weight: 8.8 lbs. (4.0 kg.)—18W 13.2 lbs. (6.0 kg.)—36W

