NL-CCF-R

CCF RETROFIT TOP

NEOTEK
RETROFIT SYSTEMS

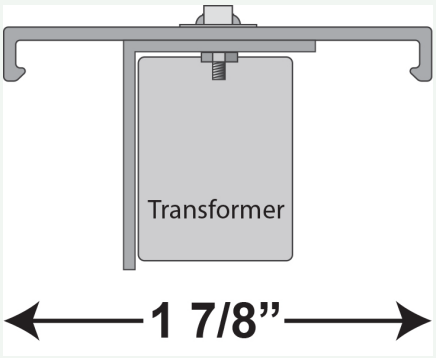
COLD CATHODE FIXTURE | LED RETROFIT ASSEMBLY

NEOTEK COLD CATHODE FIXTURE RETROFIT



REPLACEMENT LED TOP ASSEMBLY

NOMINAL TOP WIDTH



1 7/8 in

Original CCF cross-section; transformer and mechanical fit to be verified for the existing fixture.

PURPOSE-BUILT FOR EXISTING NEOTEK CCF FIXTURES

The NL-CCF-R replaces the original cold-cathode light-emitting top of an existing Neotek CCF (Cold Cathode Fixture). The aluminum retrofit top accepts a 24 VDC LED light engine and is configured to connect to the existing CCF base wiring harness. Straight and curved applications may be accommodated after field verification.

MECHANICAL RETROFIT

Aluminum top extrusion; standard mill finish or a project-selected powder-coated finish. Designed as a retrofit for compatible existing CCF bases rather than a new independent fixture housing.

LED & OPTICAL SYSTEM

Neotek ProSeries-family static LED tape; 24 VDC operation, approximately 3.0 W/ft nominal static loading and approximately 120-degree illumination. RGB and RGBW are available by project configuration.

IMPORTANT - COLOR-CHANGING RETROFIT REQUIREMENT

RGB or RGBW retrofit lighting requires a separate controller/compatible DMX interface plus new DMX data wiring routed to the fixtures. These are additional to the LED retrofit top and must be included in the project scope.

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HOUSING, ELECTRICAL & STATIC LED DATA

RETROFIT ASSEMBLY CONSTRUCTION & ELECTRICAL

ATTRIBUTE	REPLACEMENT ASSEMBLY / INSTALLATION REFERENCE
Application	Retrofit top for existing Neotek CCF cold-cathode fixtures
Form factor	Straight or curved, subject to field survey and project engineering
Material	Aluminum top extrusion; LED tape affixed to the extrusion
Top width	1 7/8 in nominal from legacy cross-section
Existing connection	Retrofit harness mating to the existing compatible base harness
LED operating voltage	24 VDC LED engine; 120 VAC standard retrofit input (legacy)
Power supply	Solid-state 24 VDC supply in the lower assembly per legacy design
277 VAC input	Listed in original selection fields; availability must be confirmed
Finish	Standard mill or project-selected powder-coated aluminum

STATIC WHITE & STATIC COLOR LED TAPE

Static LED options use the same Neotek ProSeries-family LED tape approach as the other ProSeries linear fixtures. The output below is reference performance for the original CCF retrofit; final photometrics depend on the selected LED and finished assembly.

PARAMETER	STATIC CONFIGURATION
LED color	White CCT choices; Red, Green, Blue, Amber
White CCT	2400K, 2800K, 3000K, 3500K, 4000K, 6500K (legacy)
Nominal static load	3.0 W/ft; source LED strip operates at 24 VDC
Nominal white output	420 lm/ft (legacy reference, by selected configuration)
Illumination	120-degree nominal LED viewing angle

Static power and lumen ratings do not apply to RGB/RGBW configurations. Verify existing electrical service, supply location, wire access, thermal conditions and installed enclosure suitability before specifying.

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RGB / RGBW & CONTROL INTEGRATION

COLOR-CHANGING LED OPTIONS - ADDITIONAL SYSTEM REQUIRED

RGB and RGBW are available as project-engineered configurations. A compatible DMX controller and DMX decoder/interface are required, and a new low-voltage DMX data cable must be installed to the retrofit fixtures. Existing cold-cathode power wiring alone does not provide DMX data.

CONTROLS / CABLING REQUIREMENTS

MODE	REQUIREMENTS
Static white / static color	Compatible dimmer / control as selected for final LED power system
RGB	24 VDC multichannel LED engine; compatible DMX512 controller/decoder
RGBW	24 VDC 4-channel LED engine; DMX512 controller/decoder with W channel
DMX data cable	New data wiring to each retrofit fixture or engineered DMX network
Power loading	Final supply and decoder sizing based on selected RGB/RGBW LED tape

TYPICAL RETROFIT SYSTEM ARRANGEMENT

EXISTING CCF BASE
Existing electrical supply / compatible harness

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LED strip + suitable solid-state 24 VDC power system

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DMX LED INTERFACE
RGB / RGBW only: decoder or required DMX interface

DMX CONTROLLER (ADDITIONAL PURCHASE)

Connect a compatible DMX512 controller to the DMX control interface with new data wiring. Controller selection, channel addressing, termination, routing and commissioning are project specific. Neotek can assist with control-system coordination.

INSTALLATION / COMMISSIONING NOTES

Disconnect power before work. Verify polarity and wiring paths. Confirm that the existing CCF base accepts the retrofit and that the selected LED engine, driver, dimmer and decoder are electrically compatible. For exterior projects, the completed installation must meet the specified sealed-enclosure requirements.

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CUSTOMER CONFIGURATION & PROJECT SELECTIONS

PROJECT SELECTIONS

MODEL: NL-CCF-R

PROJECT / JOB NAME _____

TYPE / SCHEDULE REFERENCE _____

EXISTING CCF FIXTURE COUNT / LENGTHS _____

DATE _____

LED SOURCE SELECTION

STATIC WHITE - COLOR TEMPERATURE (SELECT ONE)

☐ 2400K ☐ 2800K ☐ 3000K ☐ 3500K ☐ 4000K ☐ 6500K

STATIC COLOR / COLOR-CHANGING (SELECT ONE)

☐ Red ☐ Green ☐ Blue ☐ Amber ☐ RGB ☐ RGBW

CONTROLS / ELECTRICAL / RETROFIT

INPUT VOLTAGE

☐ 120 VAC (standard) ☐ 277 VAC (confirm availability)

CONTROL TYPE

☐ Static-compatible dimming ☐ DMX512 (RGB or RGBW)

APPLICATION / EXISTING HOUSING

☐ Interior ☐ Exterior (sealing review required)

ALUMINUM TOP FINISH

☐ Standard mill ☐ Powder coated

POWDER COAT RAL # / COLOR NAME: _____

Required for RGB/RGBW: Purchase a suitable DMX controller/decoder and provide new DMX data wiring to the fixtures. Retrofit compatibility, voltage, sealed-exterior suitability, control method and final loads must be verified for the existing CCF installation.