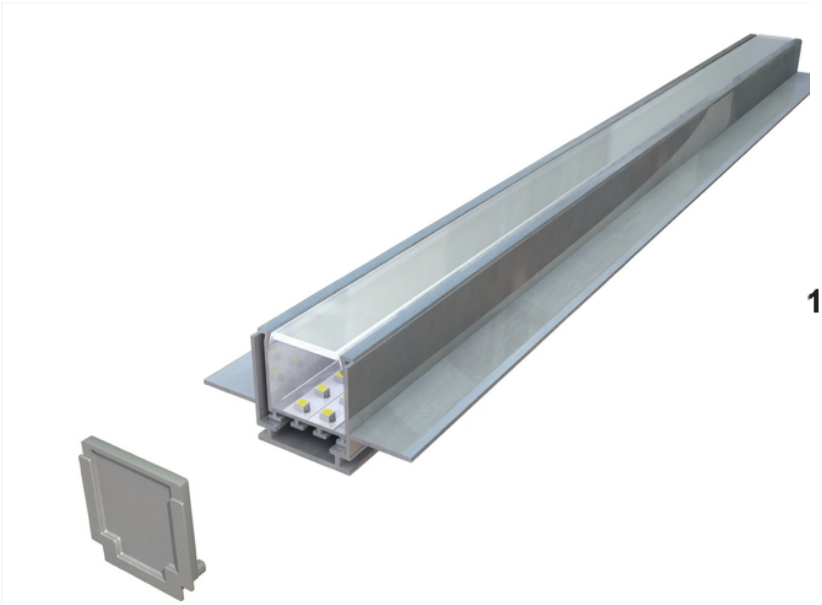
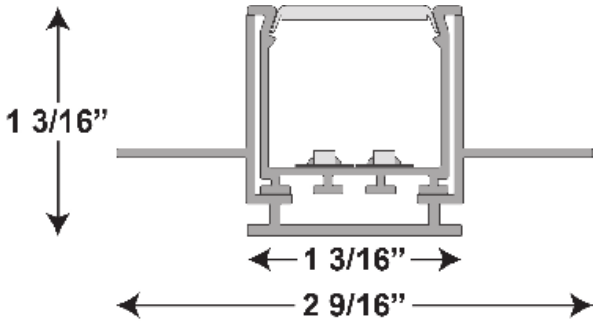
NL-161/162-HO

LINEAR LED
REMOTE POWER ONLY

HIGH OUTPUT | 6.0 W/FT | NL-161 / NL-162 RECESSED BASE





BASE: 2 9/16" OVERALL | 1 3/16" HIGH

FIXTURE DESCRIPTION

Recessed architectural linear LED luminaire identified as NL-161/162-HO, combining the NL-160 LED extrusion with the NL-161 or NL-162 aluminum drywall base. The insert is installed within the base for a flush integrated appearance. Select base by board thickness.

EXTRUSION & OPTICS

Aluminum extrusion houses the LED tape and a recessed clear or frosted polycarbonate snap-in lens. The original assembly drawing shows a 1 3/16-in. body and 2 9/16-in. overall base flange width.

RECESSED BASE & END CAPS

NL-161: 5/8-in. drywall. NL-162: 1/2-in. drywall. Base flanges integrate into the recessed construction; mounting and finished surface details require coordination. Polypropylene end caps close exposed ends.

POWER & CONTROL

Remote 24 VDC power supply required. Provide an accessible driver outside the recessed assembly. RGB/RGBW applications require separate compatible DMX decoders, data packs and control equipment at remote locations.

LED PERFORMANCE

Two 24 VDC SMD 3528 LED strips provide 6.0 W/ft nominal static-white power (combined tape rating about 5.85 W/ft). White lumen output: 1,680 lm/ft nominal; confirm completed-fixture photometrics.

FINISH & APPLICATION

Standard mill aluminum, black or custom powder coat. Customer-provided RAL numbers can be used to match a requested color as closely as practical. Select IP00 interior or appropriately constructed IP67 exterior configuration.

NL-161/162-HO

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RECESSED MOUNTING | NL-161 / NL-162 BASE

The NL-160 is seated into an aluminum recessed mounting base for gypsum-board installations. Select the base by finished wallboard thickness. Recessed construction, lens access, wiring and remote power equipment must be coordinated with Neotek for the project.

BASE SELECTION | GYPSUM BOARD RECESSED MOUNT

ITEM	INSTALLATION DETAIL
NL-161 base	For recessed installations using 5/8-in. gypsum board. The correct base must be selected to suit the finished wallboard assembly.
NL-162 base	For recessed installations using 1/2-in. gypsum board. Confirm the intended board thickness before release.
Assembly profile	Original assembly end view shows 2 9/16 in. overall flange width, 1 3/16 in. body width and 1 3/16 in. overall height.
Fixture / base interface	The NL-160 LED housing is combined with its matching recessed base and a clear or frosted polycarbonate lens; provide access for future lens removal.

RECESSED ASSEMBLY, WIRING & FINISH COORDINATION

ITEM	INSTALLATION DETAIL
Recess detail	Provide a suitable opening and support for the selected aluminum base. Coordinate fastening, board edges and the finished surface with the project contractor.
Flange / finish	The lateral base flanges are part of the recessed-mount assembly. Align the profile and coordinate the finished wall or ceiling surface before final fixture installation.
LED installation	The NL-160 LED tape mounts within the aluminum housing. Keep thermal contact, tape clearance and the selected LED load consistent with the fixture configuration.
Lens / end caps	Snap-in clear or frosted polycarbonate lens; polypropylene end caps at exposed ends, with the required wiring openings.
Cable routing	Plan a protected wire exit and route low-voltage wiring to a readily accessible remote 24 VDC power supply; coordinate feed locations for continuous runs.
Remote controls	Remote driver and data equipment: locate power supplies, DMX decoders, data packs and controllers outside the recessed fixture and accessible for service.

Installation note: Base selection depends on gypsum-board thickness. Final recessed assembly, service clearances, sealed exterior configuration and mounting methods require project review and approval by Neotek.

NL-161/162-HO

LINEAR LED
REMOTE POWER ONLY

LED PERFORMANCE | STATIC WHITE & RGB/RGBW

High output uses two LED strips. Static white is nominally 6.0 W/ft; RGB/RGBW loads vary. All power supplies and controls are remote.

STATIC WHITE LED TAPE DATA | 24 VDC | TWO STRIPS

PARAMETER	SPECIFICATION
LED technology	2 x SMD 3528 | 120 LEDs/m per strip
Tape / beam	8 mm per strip | 80-degree fixture angle listed on prior HO sheet; verify
Voltage	24 VDC constant-voltage LED tape
Power consumption	19.2 W/m | 5.85 W/ft (nominal fixture: 6.0 W/ft)
Static white options	2400K, 2800K, 3000K, 3500K, 4000K, 6500K
Lumen output	1,680 lm/ft nominal; confirm completed-fixture photometrics
Driver / decoder	Remote 24 VDC power and separate remote data equipment as required

RGB / RGBW LED TAPE DATA | 24 VDC | TWO STRIPS

RGBW | 60 LEDS/M PER STRIP | COMBINED LED TAPE OUTPUT

WHITE CCT	WHITE (LM/M)	RGB (LM/M)	RGB+W (LM/M)
3000K	912	928	1,656
3500K	948	906	1,668
4500K	1,020	920	1,746
6500K	1,020	942	1,764

Two-strip power: white 9.6 W/m (2.93 W/ft) | RGB 28.8 W/m (8.78 W/ft) | RGBW 38.4 W/m (11.71 W/ft)

RGB / RGBW | 120 LEDS/M PER STRIP | COMBINED OUTPUT

CHANNEL / MODE	LED POWER	LIGHT OUTPUT
Red	10 W/m | 3.05 W/ft	280 lm/m
Green	10 W/m | 3.05 W/ft	846 lm/m
Blue	10 W/m | 3.05 W/ft	190 lm/m
RGB combined	30 W/m | 9.14 W/ft	1,300 lm/m
RGBW - 3000K	40 W/m | 12.19 W/ft	1,980 lm/m
RGBW - 3500K	40 W/m | 12.19 W/ft	2,012 lm/m
RGBW - 4500K	40 W/m | 12.19 W/ft	2,110 lm/m
RGBW - 6500K	40 W/m | 12.19 W/ft	2,108 lm/m

RGB/RGBW values are calculated two-strip LED tape totals, not measured NL-160-HO fixture output. Confirm RGBW availability, strip fit, optical losses and remote driver / data-pack sizing with Neotek.

NL-161/162-HO

LINEAR LED
REMOTE POWER ONLY

RECESSED FIXTURE CONFIGURATION | SELECT OPTIONS BELOW

FIXTURE SELECTIONS

NL-161/162-HO / HIGH OUTPUT / RECESSED

Project / Fixture ID: _____ Quantity: _____

FIXTURE LENGTH / LENS / END CAPS

LENS (SELECT ONE)

☐ Frosted ☐ Clear

END CAP WIRING (SELECT ONE)

☐ Wire exit ☐ No wire exit

Fixture length: _____ Straight fixture configuration

RECESSED BASE (SELECT ONE):

☐ NL-161 - 5/8" drywall ☐ NL-162 - 1/2" drywall

LED COLOR 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

RGBW WHITE CHANNEL (IF AVAILABLE / CONFIRM WITH NEOTEK)

☐ 3000K ☐ 3500K ☐ 4000K ☐ 6500K

REMOTE ELECTRICAL / CONTROLS

REMOTE 24 VDC DRIVER REQUIRED - DATA PACK / DECODER REMOTE AS NEEDED

REMOTE DRIVER AC INPUT (SELECT ONE)

☐ 120 VAC ☐ 277 VAC

DIMMING / CONTROL (SELECT AS REQUIRED)

☐ LV dimming ☐ 0-10 V ☐ Non-dimming ☐ DMX512

APPLICATION / FINISH

IP CONFIGURATION (SELECT ONE)

☐ IP00 - Interior ☐ IP67 - Exterior

EXTRUSION FINISH (SELECT ONE)

☐ Standard mill ☐ Black ☐ Custom powder coat

Powder coat color / RAL #: _____

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