



24V, constant voltage, linear surface-mounted LED luminaire with nano optics in miniaturized dimension (1.52" x 0.49"). Ideal light distribution for wall grazing thanks to beam angles of 15°, 25° and an oval light distribution of 15° x 40°. Homogenous light flux along the fixture and flawless thermal management thanks to constant voltage controlled flexible PCB LED tape, produced in a unique Reel-to-Reel process. Easy serial installation with quick connectors. Outstanding lifetime of >60,000 hrs L80/B10. Embeds high quality LEDs with 3 step MacAdams (SDCM3) binning centered on target CCT (One Bin Only) with extended photometric code of Wxxx/339 ensuring an exceptional color consistency over the rated lifetime. Premium color rendition with CRI of 95 (R9 = 85) and TM-30-15 up to R_f = 95 / R_g = 101. Consistent light intensity all along the luminaire length. Fully dimmable. Engineered and produced in Germany.

Project name _____

Fixture type _____ Phase _____

Specifier _____ Date _____

24 TITLE Select Models Only

ETL Intertek ETL Listed

Nano Ray Precision Optics

Integrated Circuit Driver Up to 840 lm/ft 80 lm/W Constant Light Output

Reel-to-Reel R2R Production High Quality Solder Free Reels

TjAway Thermal Management Exceptional Thermal Dissipation

One Bin Only 3 MacAdam up to 95 CRI

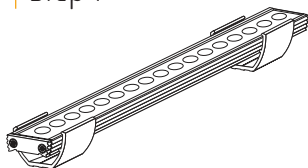
L/B Lifetime L80/B10 >60,000 hrs

6 Digit Photometric Code Wxxx/339

IES LM79/LM80 LM79/LM80 Compliant

Component Ordering Process – For Factory Assembled Fixtures, see page 6

Step 1



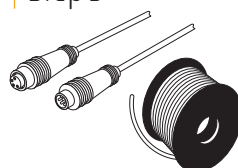
Luminaire (Page 1)

Step 2



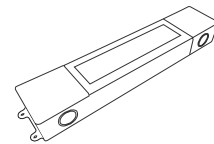
Accessories (Page 4)

Step 3



Cables and Connectors (Page 4)

Step 4



Drivers and Controllers (Page 5)

Luminaire Order Code

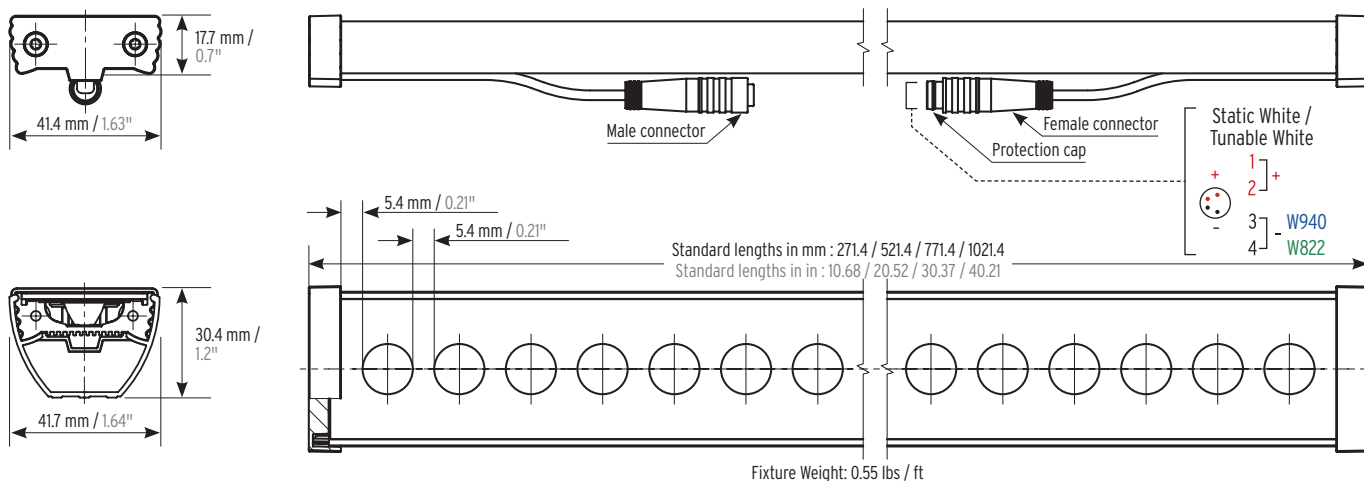
| Family | Lumen package ^a | Color rendering | Color temperature | Standard length ^c | Optic | Ingress |
|-------------|----------------------------|-----------------------|-------------------|------------------------------|-------------------------|---------|
| XOOLUX NANO | ----- | W_ | --- | ----- | --- | IP67 |
| | LD05-100 lm/ft | W8-85CRI ^b | 22-2200K | 271-10 in | 15-15° Optic | |
| | LD10-190 lm/ft | W9-95CRI | 27-2700K | 521-20 in | 25-25° Optic | |
| | LD15-300 lm/ft | | 30-3000K | 771-30 in | OV-15° x 40° Oval Optic | |
| | LD25-490 lm/ft | | 35-3500K | 1021-40 in | | |
| | LD40-680 lm/ft | | 40-4000K | | | |
| | | | 50-5000K | | | |
| | IQW LD40-Tunable White | - | - | | | |

^a Lumen Values represent 3000K (W930) and with 25° optic. ^b Only available with 2200K and 5000K (W822 and W850). ^c Values represent nominal lengths. For exact lengths see page 3.

| | | Color temperature | LD5 | | LD10 | | LD15 | | LD25 | | LD40 | | |
|---------------|---|-------------------|-----------------------|------|-----------------------|------|-----------------------|------|----------|-------------------|----------|-------------------|------|
| | | | Lumen/ft ^a | W/ft | Lumen/ft ^a | W/ft | Lumen/ft ^a | W/ft | Lumen/ft | W/ft ^a | Lumen/ft | W/ft ^a | |
| Static White | ● | W822 | 2,200 K | 90 | 1.5 | 170 | 3.0 | 270 | 4.6 | 450 | 7.6 | 620 | 12.2 |
| | ● | W927 | 2,700 K | 95 | 1.5 | 185 | 3.0 | 290 | 4.6 | 475 | 7.6 | 660 | 12.2 |
| | ● | W930 | 3,000 K | 100 | 1.5 | 190 | 3.0 | 300 | 4.6 | 490 | 7.6 | 680 | 12.2 |
| | ● | W935 | 3,500 K | 100 | 1.5 | 190 | 3.0 | 300 | 4.6 | 500 | 7.6 | 690 | 12.2 |
| | ● | W940 | 4,000 K | 105 | 1.5 | 200 | 3.0 | 315 | 4.6 | 515 | 7.6 | 715 | 12.2 |
| Tunable White | ● | W850 | 5,000 K | 115 | 1.8 | 220 | 3.0 | 365 | 4.6 | 605 | 7.6 | 840 | 12.2 |
| | ● | W822 | 2,200 K | - | - | - | - | - | - | - | - | 420 | 12.2 |
| | ● | W850 | 5,000 K | - | - | - | - | - | - | - | - | 570 | 12.2 |
| | ● | Total | 2,200 K - 5,000 K | - | - | - | - | - | - | - | - | - | 12.2 |

^a The given data are typical values measured with 25° optics. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

Mechanical Details



Technical Details

| | Static White | Tunable White |
|-------------------------------|--|---|
| Voltage | 24 Volt (23 V _{min} , 25 V _{max}) | 24 Volt (23 V _{min} , 25 V _{max}) |
| Case temperature ^A | T _{Cmin} = -13°F / -25°C, T _{Cmax} = specific, see Table below | T _{Cmin} = -13°F / -25°C, T _{Cmax} = 167°F / 75°C |
| Storage temperature | T _{Smin} = -22°F / -30°C, T _{Smax} = 185°F / 85°C | T _{Smin} = -22°F / -30°C, T _{Smax} = 176°F / 80°C |
| Ambient temperature | T _{Amin} = -13°F / -25°C, T _{Amax} = specific, see Table below | T _{Amin} = -13°F / -25°C, T _{Amax} = 104°F / 40°C |

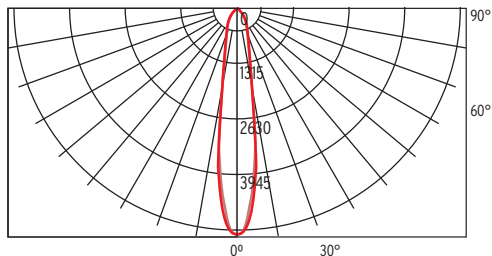
^A The position of the T_C-point is marked on each step of the LED strip. The T_C-point should be measured in thermal equilibrium according to IEC EN 60598-1.

| | Static White | | | | | Tunable White |
|---|--------------|--------------|--------------|--------------|--------------|---------------------|
| | LD5 | LD10 | LD15 | LD25 | LD40 | LD40 |
| Power (W/ft) ^B | 1.5 | 3.0 | 4.6 | 7.6 | 12.2 | 12.2 |
| Efficacy (lm / W) ^B @ W850 | 76 | 72 | 80 | 80 | 69 | 73 |
| Max serial run length (ft / m) | 24.6 / 7.5 | 16.4 / 5 | 16.4 / 5 | 9.8 / 3 | 6.6 / 2 | 6.6 / 2 |
| CRI / R9 @ 3000 K | 95 / 86 | 95 / 86 | 95 / 86 | 95 / 86 | 95 / 86 | up to 85 / up to 65 |
| Max temperature T _C -point (T _{Cmax}) ^B | 140°F / 60°C | 140°F / 60°C | 140°F / 60°C | 140°F / 60°C | 167°F / 75°C | 167°F / 75°C |
| Max ambient temperature (T _{Amax}) ^B | 122°F / 50°C | 122°F / 50°C | 122°F / 50°C | 113°F / 45°C | 95°F / 35°C | 104°F / 40°C |

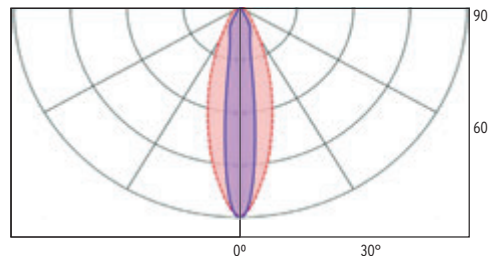
^B The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

Light Distribution

15° Optic
CBCP: 11750cd*

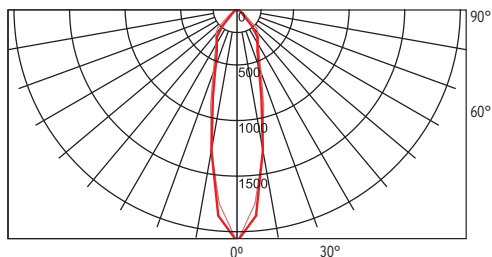


Oval Optic
15° x 40°
CBCP: 6700cd*



cd/1000 lumen
— C0/C180
..... C90/C270

25° Optic
CBCP: 7100cd*

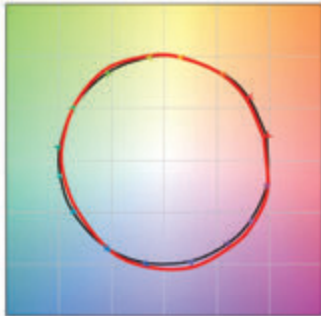


* Values represent LD40 at 3000K with 1m fixture

Colorimetric Details

| Photometric Code | CCT | CRI | R9 | R _f | R _g |
|------------------|--------|-----|----|----------------|----------------|
| W940/339 | 4000 K | 91 | 77 | 91 | 101 |

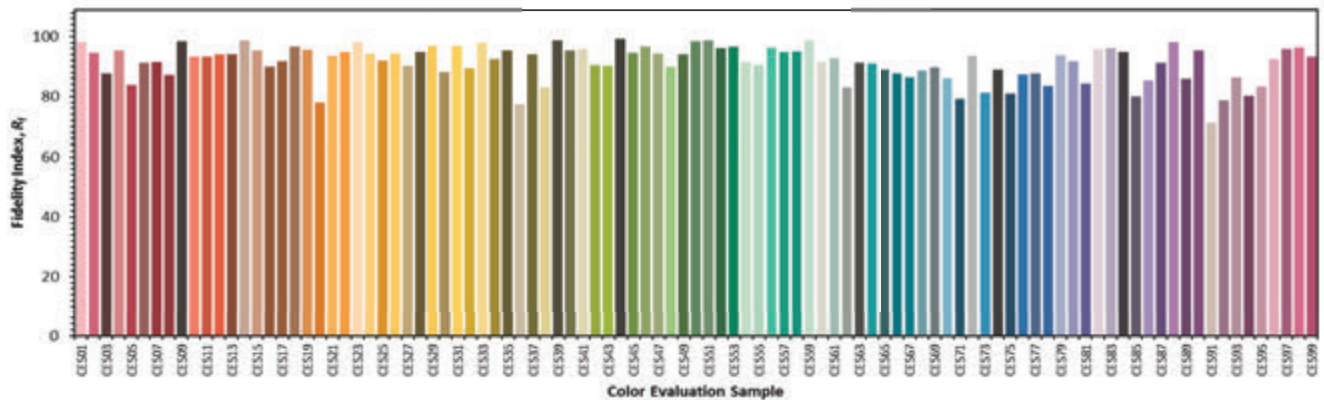
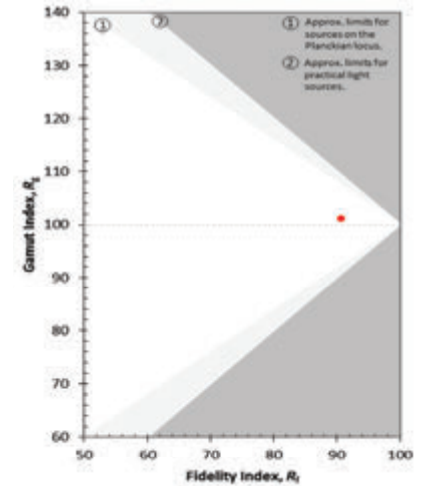
Color Vector Graphic



Color Distortion Graphic







Reference Illuminant
Test Source





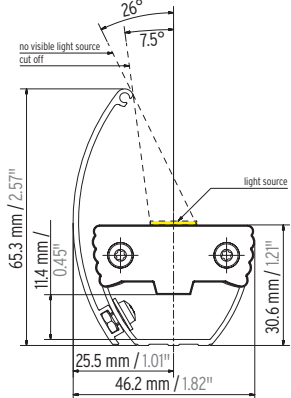
LENGTH CHART - Xoolux Nano

| Fixture length | | Static White | | | | | | | | | | Tunable White LD40 | |
|----------------|------|---------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|--------------------|----------------|
| | | LD5 1.8 Watts/Ft | | LD10 3.0 Watts/Ft | | LD15 4.6 Watts/Ft | | LD25 7.6 Watts/Ft | | LD40 12.2 Watts/Ft | | 12.2 Watts/Ft | |
| inches | mm | Watts/fixture | Lumens/fixture @3000K | Watts/fixture | Lumens/fixture @3000K | Watts/fixture | Lumens/fixture @3000K | Watts/fixture | Lumens/fixture @3000K | Watts/fixture | Lumens/fixture @3000K | Watts/fixture | Lumens/fixture |
| 10.6 | 271 | 2 | 84 | 3 | 177 | 4 | 278 | 6 | 447 | 10 | 641 | 10 | 480 |
| 20.5 | 521 | 3 | 167 | 5 | 350 | 8 | 550 | 13 | 883 | 20 | 1266 | 20 | 950 |
| 30.3 | 771 | 4 | 249 | 7 | 522 | 11 | 820 | 19 | 1318 | 30 | 1890 | 30 | 1417 |
| 40.1 | 1021 | 6 | 331 | 10 | 694 | 15 | 1091 | 25 | 1752 | 40 | 2513 | 40 | 1885 |

Cables and Connectors

| Item | Description | Model | Dimensions | Order Code |
|---|---|------------------------------------|---------------------|------------|
|  Female Connector IP67 | Use to run cable from the driver to the first fixture of the run or to the next fixture. Female connector on one side and open end cable on the other side. Available with staright or 90° L-shaped connector. | Static White | 2 x 22 Awg, 4 in | 15000071 |
| | | Static White | 2 x 22 Awg, 3.2 ft | 15000090 |
| | | Static White | 2 x 22 Awg, 6.5 ft | 15000091 |
| | | Static White | 2 x 22 Awg, 16.5 ft | 15000092 |
| | | Static White / 90° | 2 x 22 Awg, 6.5 ft | 15000089 |
| | | RGB / Tunable White | 4 x 23 Awg, 4 in | 15000094 |
| | | RGB / Tunable White | 4 x 23 Awg, 3.2 ft | 15000095 |
| | | RGB / Tunable White | 4 x 23 Awg, 6.5 ft | 15000096 |
|  Male Connector IP67 | Use to run cable from the fixture to the driver or to the previous fixture. Male connector on one side and open end cable on the other side. | Static White | 2 x 22 Awg, 4 in | 15000070 |
| | | Static White | 2 x 22 Awg, 3.2 ft | 15000093 |
| | | RGB / Tunable White | 2 x 23 Awg, 4 in | 15000099 |
| | | RGB / Tunable White | 2 x 23 Awg, 3.2 ft | 15000100 |
|  Extension IP67 | Use to extend the distance between connection points. Female connector on one side and male connector on the other side. | Static White / RGB / Tunable White | 4 x 23 Awg, 3 in | 15000101 |
| | | Static White / RGB / Tunable White | 4 x 23 Awg, 6.5 ft | 15000102 |
| | | Static White / RGB / Tunable White | 4 x 23 Awg, 16.5 ft | 15000103 |
|  Female Protection Cap IP67 | Use to seal unused connectors and maintain IP67 ingress protection. | Static White / RGB / Tunable White | — | 15000115 |


Accessories

| Item | Description | Model | Order Code |
|--|--|---|---|
|  Anti-Glare Cover | Heat resistant plastic cover for glare control. Snaps onto the fixture from the top and does not change the beam distribution. Black Finish, 75% light transmittance. | 250mm x 7mm (24mm high with fixture) | 10000608-0250-SCH |
|  Xoolux Nano Mounting Clip | 2 inch long, 1.5 inch wide surface mounting clips. Installs to surface with screws. The product can be tilted every 5 degrees inside the clip. Recommended to use every 12 inches. | 0° Black Plastic (1-1/8") 0° Black Aluminum (1-1/8") 15° Black Aluminum (1-1/2") 30° Black Aluminum (2") | 13000291-SCH 13000292-SCH 13000293-SCH 13000294-SCH |
|  | Aluminum extruded glare shield with 7.5 degree cut-off angle. The set includes one sided glare shield that is screwed on mounting clips. The fixture snaps into the assembly and can be rotated inside the clips in 5 degree increments. Black Finish, 82% light transmittance. | 300mm (2 clips) 550mm (2 clips) 800mm (3 clips) 1050mm (3 clips) 2042mm (6 clips) | 13000377-0300-SCH 13000377-0550-SCH 13000377-0800-SCH 13000377-1050-SCH 13000377-2042-SCH |

Drivers

| Item | Specifications | Downloads |
|--|---|--|
| LED LINEAR™ Non-Dimmable Drivers  | <ul style="list-style-type: none"> • UL 8750 Listed Enclosure - With Built-In Junction Boxes • Universal Input Voltage 120V - 277V • IP65 - For Both Indoor and Outdoor Use • No Minimum Load Requirement • 24V Constant Voltage Output, Class 2 • Available in three wattages 30W, 60W and 96W • Max. Dimensions: 12-1/8" x 2-3/8" x 1-3/8" | 30 W SPEC SHEET 60 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS |
| LED LINEAR™ 0-10V Dimmable Drivers  | <ul style="list-style-type: none"> • UL 8750 Listed Enclosure - With Built-In Junction Boxes • 0-10V Dimmable - Flicker Free Down to 1% • Universal Input Voltage 120V - 277V • IP65 - For Both Indoor and Outdoor Use • 24V Constant Voltage Output, Class 2, Class P • Available in three wattages 30W, 60W and 96W • Max. Dimensions: 12-1/8" x 2-3/8" x 1-3/8" | 30 W SPEC SHEET 60 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS |
| LED LINEAR™ ELV/Triac Dimmable Drivers  | <ul style="list-style-type: none"> • UL 8750 Listed Class 2 Enclosure • 24V constant voltage output • Compact size yet high efficiency and performance in dry and damp environments (IP67) • Multiple Inputs: 120V or 277V • Fully dimmable: ELV Dimmers - Reverse or Adaptive Phase Control, Trailing Edge • Available in two wattages 48W and 96W • Multiple Circuits are available up to 4 units (up to 384W) | 48 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS |
|  PWM Dimmable Drivers  | <ul style="list-style-type: none"> • Universal AC input / Full range (up to 305VAC) • Constant voltage PWM style output • Built-in 3 in 1 dimming function (0-10Vdc or PWM signal or resistance) • Dimming range : 0-100% • Class 2 power unit • Suitable for dry / damp / wet locations • UL Recognized component, 5 years warranty | 40 W SPEC SHEET 60 W SPEC SHEET 90 W SPEC SHEET INSTALLATION INSTRUCTIONS |
| OLUTRON Dimmable Drivers  | <ul style="list-style-type: none"> • UL Listed Enclosure • Dimming Range: 100% to 1% and 0.1% (Premiere) • LED lighting turns on to any dimmed level without flashing to full brightness • Operating Voltage: 120V~ to 277V~ at 50/60 Hz • Rated lifetime of 50,000 hours at 40°C (104°F) ambient temperature and maximum loading • For rated warranty, ambient temperature not to exceed 40°C (104°F) • Open-circuit protected output | HI-LUME SPEC SHEET HI-LUME PREMIERE SPEC SHEET INSTALLATION INSTRUCTIONS |
| eldoLED DALI/DMX Dimmable Drivers  | <ul style="list-style-type: none"> • Available in linear or rectangular format • 100W, DMX/DALI interface for Static White, Tunable White and RGB/W Applications • 4 control channels • 24V constant voltage, 4 x 24V outputs • Metal or plastic case options | 100 W SPEC SHEET INSTALLATION INSTRUCTIONS |

Controllers

| Item | Specifications | Downloads |
|---|--|--------------------------------------|
| eldoLED Controllers  | 180/D DMX Controller for RGB/W and Tunable White Applications | 180/D SPEC SHEET |
| | 210/D Dali Controller for Static White Applications | 210/D SPEC SHEET |
| | 211/D-LG 0-10V Logarithmic Dimming Controller | 211/D-LG SPEC SHEET |
| | 211/D-LN 0-10V Linear Dimming Controller | 211/D-LN SPEC SHEET |
| | 212/D DMX Controller for Static White and Static Color Applications | 212/D SPEC SHEET |
| | DimWheel DMX Wall Controller for RGB/W and Tunable White Applications | DIM WHEEL SPEC SHEET |

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PRODUCT BROCHURE

INSTALLATION

IES FILES

DRIVERS & CONTROLS

VOLTAGE DROP CALCULATOR