vode Adaptive Architectural Lighting Systems

Spec Guide

ZipTwo | Square 5020 | 707

Direct lighting for open office and ambient applications.

Red List Approved
Declare.™

Low Carbon CO₂ Aluminum

Square 5020, Critical Edge, white

Benefits & Features

Minimal Profile, Robust Design
Rectangular profile. 2" (51mm) x .75" (19mm).

Superior Light Quality & Performance
Output up to 1021 lm/ft (HO), 104 lm/W (HO). 90 static, 90 CRI RGBW, & 90 CRI tunable white 2200K - 5000K. Custom ranges available upon request.

Versatile Mounting, Easy Installation
Magnet with tape-on metal strip or low profile clip allow for mounting to almost any surface or T-Bar ceiling.

Floating Plane of Light
Clean lines created by Critical Edge™ optic and a wide luminous surface without diode image.

Square 5020, Critical Edge, black

Build Your Specification

707-Z2	SL				0 ▸▸

System & Rail Type	System Type	System Length	Rail Length	Mounting	Arm/Cord Length
707-Z2 ZipTwo	**SL** Standard Linear	Specify overall system length in ft/in or M/mm. *Corner and Shapes Available **See Guide** for details.*	**24** 24" (610mm) **36** 36" (914mm) **48** 48" (1219mm) **60** 60" (1524mm) **72** 72" (1829mm) **96** 96" (2438mm) **108** 108" (2743mm) **120** 120" (3048mm) **132** 132" (3352mm) **144** 144" (3658mm) **ZZ** Other rail length or layout (please specify) *See **Rail Length Chart** for more details.* ⚠ ***Custom lengths may result in light gaps on the fixture. See Rail Length Chart for more details.***	**C** Clip **CM** Clip with Micro J-Box [1] **T** Magnet with Tape-On Metal Strip [2] **T1** 9/16" T-Bar Clip, low profile **T2** 15/16" T-Bar Clip, low profile **T3** 15/16" T-Bar Clip, medium profile **T4** 15/16" T-Bar Clip, concealed **T5** 9/16" T-Bar Clip, medium profile **T6** Slotted T-Bar Clip **T7** Dimensional T-Bar Clip **SC** Strut Channel Clip [1] **DM** Armstrong DynaMax **ZZ** Other (please specify)	**0** None

▸▸				Z ▸▸

Power Location	Power Type	Voltage	Emergency Power	LED Type
Remote Power **RP10** 10' (3.048m) Wire Harness **RP25** 25' (7.62m) Wire Harness **RP50** 50' (15.24m) Wire Harness **RP75** 75' (22.86m) Wire Harness **RP100** 100' (30.48m) Wire Harness	**Flexible 1 to 1 Power** **AE** 0-10V, 1.0% Dimming **AT** 0-10V, 0.1% Dimming **AD** DALI, 0.1% Dimming **AX** DMX, 100-0% Dimming **AH** Hi-lume 1% EcoSystem, Soft On / Fade to Black Technology, LDE[1] **AH2** ELV 1% 2-wire (Forward and Reverse Phase) [6] **Optimized Power** Add '**O**' to power type example: AE**O**, AT**O**...etc. [3] **VodeNODE** Add '**N**' to power type for Flexible 1 to 1 Power Add '**ON**' to power type for Optimized Power example: AE**N**, AT**N**, AE**ON**, AD**ON**...etc. [4] **ZZ** Other (please specify) *See **Power Guide** for driver features & limitations.*	**1** 120V **2** 120V - 277V **X** Not Yet Specified	**0** No Emergency Power **ZZ** Emergency Power *(specify requirements)*	**Z** Zipper Board

▸▸				

Lumen Output	Color Temperature	Optics	Sensors	Finish
LO Low Output **SO** Standard Output **HO** High Output **ZZ** Other (please specify) *See **IES Files** page for details.* *See **Power Guide** for driver features & limitations.*	**90+ CRI** **27** 2700K **30** 3000K **35** 3500K **40** 4000K **RGBW 90+ CRI** **C279** RGB Color, 2700K **C309** RGB Color, 3000K **C359** RGB Color, 3500K **C409** RGB Color, 4000K **ZZ** Tunable White Available **See Guide** for details	**W5** Square 5020, Critical Edge	**0** None **ZZ** Other (please specify) [5]	**WH** White **BL** Black

▸▸

Options

0   None
9   9' 18/3 Cord and Plug
CPS Chicago Plenum Fixture Adapter & Power
CPP Chicago Plenum Power
CPA Chicago Plenum Fixture Adapter

NOTES & LIMITATIONS

[1] *Mounting type available with Chicago Plenum.*

[2] *Custom modification available for Chicago Plenum. Contact factory.*

[3] *Optimized Power is not available with Hi-lume 1% EcoSystem (AHO) Power Type.*

[4] *VodeNODE enclosure is not available with ELV 1% 2-wire (AH2) Power Type.*

[5] *Sensors available. Contact Vode for more information.*

[6] *Lengths of 24" and shorter are not supported due to driver limitations. Daisy chaining multiple fixtures to achieve minimum load is permitted but may introduce installation complexity—consult factory for layout guidance.*

Listed to UL standards for damp location by a Nationally Recognized Testing Laboratory (NRTL) recognized by OSHA. Certain limitations exist for each Certification. Contact factory for verification.

Standard 5 Year Limited Warranty. See details **here**. Contact factory for options on Limited Warranties up to 20 years.

Applications

General Interior and Open Office

Square 5020, Critical Edge

Square 5020, Critical Edge

Sustainability & Certifications

DECLARE

International Living Future Institute (ILFI)

All Vode Lighting linear light fixtures proudly carry the Red List Approved designation.

Declare.

Vode Adaptive Architectural Lighting Systems
Vode Lighting LLC

Final Assembly: Sonoma, California, US
Life Expectancy: 10+ Year(s)
End of Life Options: Recyclable (100%)

Ingredients:

Steel; Anodized Aluminum (6063-T5 Alloy); Small Electrical Component (RoHS); Copper; Fluorinated Ethylene Propylene (masterbatch); Polymethyl methacrylate (PMMA); Stainless Steel; Polyoxymethylene Copolymer (POM); Styrene-butadiene polymer, hydrogenated; Poly(methyl methacrylate/butyl acrylate/styrene) (PMMA/BA/S); Styrene/butadiene copolymer; Distillates; Polypropylene; Calcium carbonate; Polycarbonate; EVA Copolymer; Methyl methacrylate (MMA); Polyphenylene Oxide; Brass; Tin, Organic

Living Building Challenge Criteria: Compliant

I-13 Red List:
☐ LBC Red List Free   % Disclosed: 100% at 100ppm
■ LBC Red List Approved   VOC Content: Not Applicable
☐ Declared

I-10 Interior Performance: Not Applicable
I-14 Responsible Sourcing: Not Applicable

VDE-0001
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MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY
INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

Click here to learn more: *International Living Future Institute*

TM65NA

CIBSE & ASHRAE on Embodied Carbon

Vode recognizes TM65NA as the highest standard for understanding the embodied carbon of our fixtures.

Developed with ASHRAE, it adapts CIBSE's TM65 for North America, ensuring accurate regional assessments. It must be used alongside TM65 and follows TM65LA's framework.

System: 707 | ZipTwo | Surface Mounted
Embodied Carbon (kg CO$_2$e): 28.63*

*****Note**: Embodied Carbon, expressed in kilograms of CO$_2$e is calculated using a 48" fixture **and includes the LED driver.**

Click here to learn more *CIBSE, ASHRAE*.

BAA X BABA

Buy American Act / Build America & Buy America Act Compliance

Vode is dedicated to supporting domestic manufacturing and ensuring compliance with BAA and BABA requirements.

Given the complexity of our products, we recommend reaching out to **vodecares@vode.com** for confirmation regarding compliance for your specific project.

Click here to learn more: *US Department of Commerce*

Structure

Rail Lengths	24" (610mm) - 144" (3658mm). Modified lengths available. *See **Rail Length Chart** for more details*.
Rail Dimensions	2" (51mm) x .75" (19mm) x length.
Construction	Extruded and machined 6063 aluminum.
Mounting	Clip, Clip with Micro J-Box, Magnet with Tape-On Metal Strip, T-Bar Clips for most grid/panel construction, Strut Channel Clip.
System Run Length	24" (610mm) minimum. Unlimited maximum.
Operating Temperature	32°F to 104°F (0°C to 40°C).
Humidity	0-95%, non-condensing. Suitable for damp locations.
System Weight	Coming Soon

Materials

LED Board Construction	Aluminum core PCB, black LCP connectors, RoHS compliant.
Lens	High-impact extruded acrylic glass (PMMA).
Power Cable	Ø3mm, 33/2 AWG, Plenum (CMP) rated semi-rigid PVC or FEP, flame tested UL-910, red list free.
Cable Connectors	Unfilled black nylon, rated UL 94 V-0, halogen free, PVC or FEP overmold, RoHS compliant, red list free.
Remote Linear Power Housing (RLP)	20.7" x 2.375" x 2.53", 0.054" formed Galvanized Steel.
Remote Brick Power Housing (RBP)	4.32" x 3.37" x .078" Galvanized Steel mounting plate.

Power and Controls

Power Type	Class 2 (<60V output) constant current driver.
Dimming Controls	Dimming (0.1%, 1%), 0-10V, DALI, DMX, Hi-lume 1% are available. *See **Power Guide** for details.*
Input Voltage	120V - 277V, 50/60hz.
Power Location	Remote power. Maximum remote distance up to 100' (30.5m) *depending* on driver selection. *See **Power Guide** for details.*

Remote power is locating the power supply away from the fixture. Remote power comes in two housing styles: brick style and linear style. Consult ***Power Guide*** to determine which type you will receive.

Remote Brick Power Housing

Remote Linear Power Housing

Wire Harness
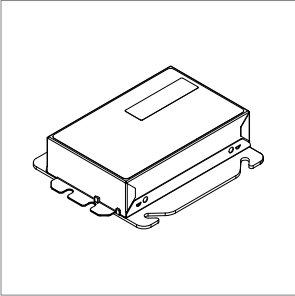
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in³ (J-Box not provided).
See ***Tech Sheet*** for details.
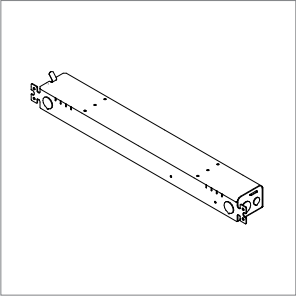
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies.
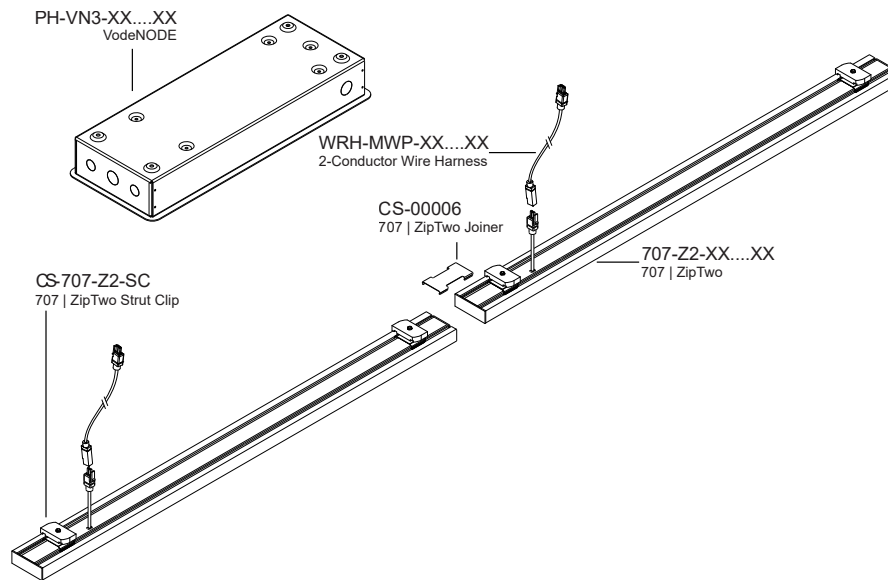See ***Tech Sheet*** for details.
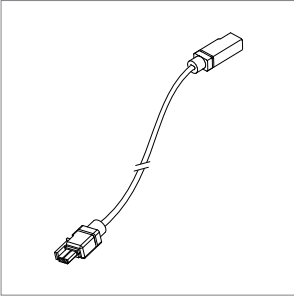
Wire harness connects driver to rail section. Lengths of 10' (3.0m) & 25' (7.6m) with snap-lock connectors for quick and easy installation. Multiple harnesses may be combined for lengths up to 100' (30.5m).
See ***Tech Sheet*** for details.
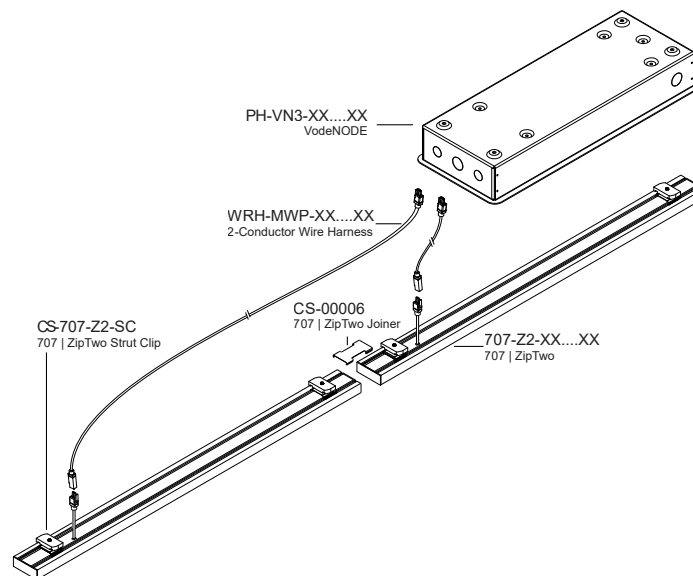
Power and Controls

Flexible 1 to 1 power

For Flexible 1 to 1 Power, Vode supplies one single output driver per fixture, allowing each fixture to be controlled independently. Direct/Indirect fixtures are supplied with two single output drivers, allowing the direct and indirect lighting to be controlled independently. Consult **Power Guide** to determine which type you will receive.
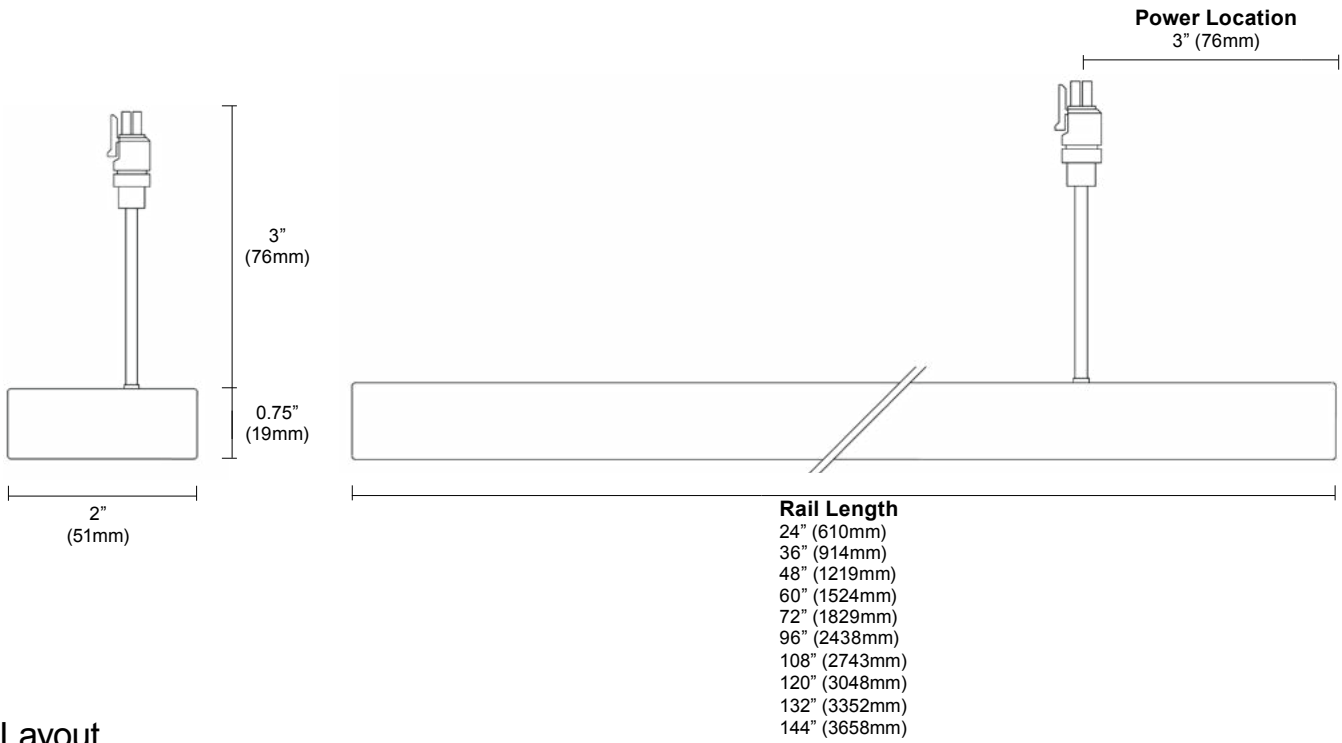
PH-VN3-XX....XX
VodeNODE

WRH-MWP-XX....XX
2-Conductor Wire Harness

CS-00006
707 | ZipTwo Joiner

707-Z2-XX....XX
707 | ZipTwo

CS-707-Z2-SC
707 | ZipTwo Strut Clip

Optimized Power

To optimize power, Vode configures specifications with drivers that have 2 or 4 outputs. Depending on system configurations and power requirements, up to 4 fixtures can be powered from a 4-output driver. Consult **Power Guide** to determine which type you will receive.

IMPORTANT: Each fixture will still require individual wire harnesses, as shown below.

PH-VN3-XX....XX
VodeNODE

WRH-MWP-XX....XX
2-Conductor Wire Harness

CS-00006
707 | ZipTwo Joiner

707-Z2-XX....XX
707 | ZipTwo

CS-707-Z2-SC
707 | ZipTwo Strut Clip

Note: Drawings not to scale, for reference only.

Dimensions

Power Location
3" (76mm)

3"
(76mm)

0.75"
(19mm)

2"
(51mm)

Rail Length
24" (610mm)
36" (914mm)
48" (1219mm)
60" (1524mm)
72" (1829mm)
96" (2438mm)
108" (2743mm)
120" (3048mm)
132" (3352mm)
144" (3658mm)

Layout

| LED Driver | LED Driver | LED Driver |

End to End
24"(610mm) - 144" (3658mm)

End to End
24"(610mm) - 144" (3658mm)

End to End
24"(610mm) - 144" (3658mm)

| LED Driver | LED Driver | LED Driver |

End to End
24"(610mm) - 144" (3658mm)

End to End
24"(610mm) - 144" (3658mm)

End to End
24"(610mm) - 144" (3658mm)

Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape, ZigZag) **See Guide** *for details.*

Mounting Options
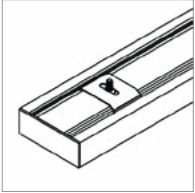
Clip (C)
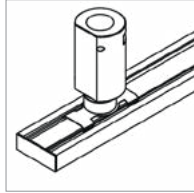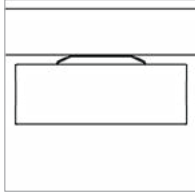
Clip with Micro J-Box (CM)
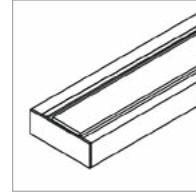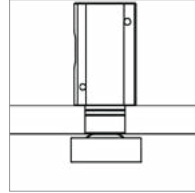
Magnet with Tape-On Metal Strip (T)
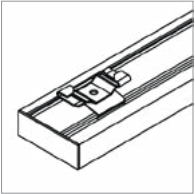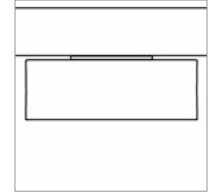
9/16" T-Bar Clip, low profile (T1)
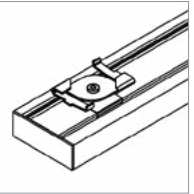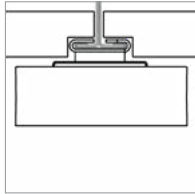
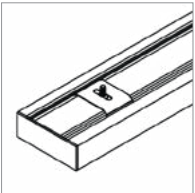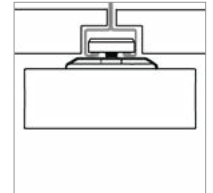15/16" T-Bar Clip, low profile (T2)
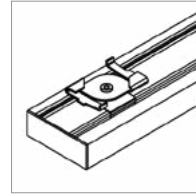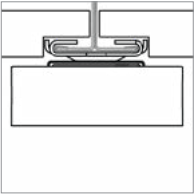
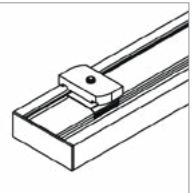15/16" T-Bar Clip, medium profile (T3)
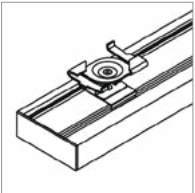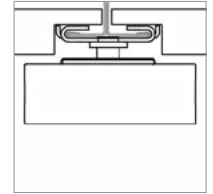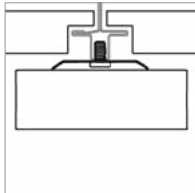
15/16" T-Bar Clip, concealed (T4)
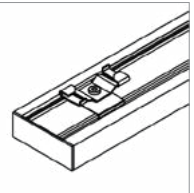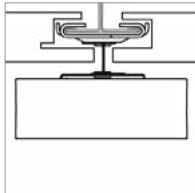
9/16" T-Bar Clip, medium profile (T5)
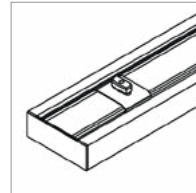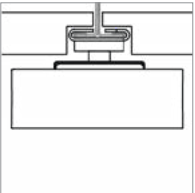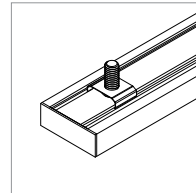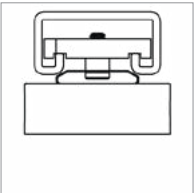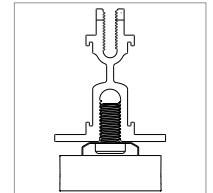
Slotted T-Bar Clip (T6)

Dimensional T-Bar Clip (T7)
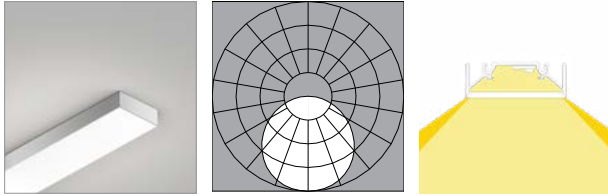
Strut Channel Clip (SC)

Armstrong DynaMax (DM)

See *ZipTwo Clip Guide* to check compatibility.

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

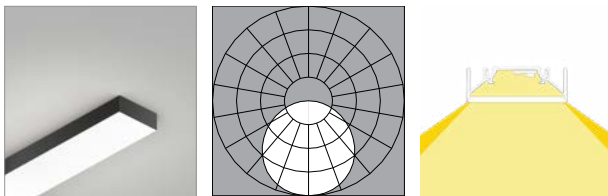### Square 5020, Critical Edge, white finish (W5-WH)

L80 >60,000 hours

	90 CRI (90min., 96 avg.)			
Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	75	78	79	80
Lumens per foot (305mm)	279	288	294	296
Watts per foot (305mm)	3.8	3.8	3.8	3.8
Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	86	88	90	91
Lumens per foot (305mm)	558	575	587	593
Watts per foot (305mm)	6.6	6.6	6.6	6.6
High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	85	88	90	90
Lumens per foot (305mm)	836	863	881	889
Watts per foot (305mm)	9.9	9.9	9.9	9.9

Square 5020, Critical Edge, black finish (W5-BL)

L80 >60,000 hours

	90 CRI (90min., 96 avg.)			
Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	60	62	63	64
Lumens per foot (305mm)	222	229	233	236
Watts per foot (305mm)	3.8	3.8	3.8	3.8
Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	68	70	72	73
Lumens per foot (305mm)	443	457	467	471
Watts per foot (305mm)	6.6	6.6	6.6	6.6
High Output (HO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	68	70	71	72
Lumens per foot (305mm)	665	686	700	707
Watts per foot (305mm)	9.9	9.9	9.9	9.9

Performance | Zipper Board Optics | RGBW

Zipper Board Optics design has 72 diodes per foot (305mm).
RGBW (red, green, blue, and white) tested with **all channels on**.

Square 5020, Critical Edge, white finish (W5-WH)
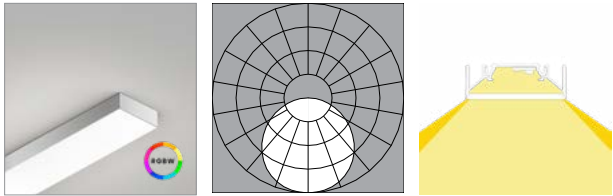
L80 >60,000 hours

RGBW Color, 90 CRI (90min., 96 avg.)			
Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	63	65	67	67
Lumens per foot (305mm)	528	545	556	562
Watts per foot (305mm)	8.5	8.5	8.5	8.5

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	60	62	63	64
Lumens per foot (305mm)	793	818	834	843
Watts per foot (305mm)	13.3	13.3	13.3	13.3

Square 5020, Critical Edge, black finish (W5-BL)
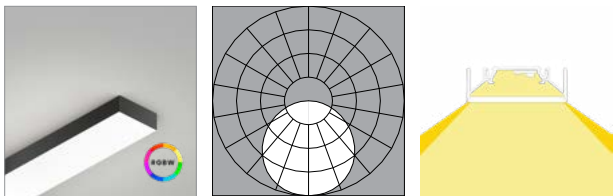
L80 >60,000 hours

RGBW Color, 90 CRI (90min., 96 avg.)			
Low Output (LO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	50	52	53	54
Lumens per foot (305mm)	420	433	442	447
Watts per foot (305mm)	8.5	8.5	8.5	8.5

Standard Output (SO)	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	48	49	50	51
Lumens per foot (305mm)	630	650	663	670
Watts per foot (305mm)	13.3	13.3	13.3	13.3