



STRATA

WITH METAL BACKER

- The EOS Light Strata is a scalable LED strip matrix system designed to deliver uniform, full-color illumination across large surface areas. Built on an RGBW architecture, Strata combines a full RGB color spectrum with a dedicated white channel – making it equally capable of vibrant color displays and precise tunable white lighting.
- Available in three configurations (Static, Color Tunable, and RGBW), it adapts to virtually any project requirement, from backlit ceilings and wall features in hotels and casinos, to illuminated storefronts, light boxes, and custom residential installations.
- It's available with an optional metal backer for added rigidity and durability in demanding installations.



FEATURES

- RGBW color mixing for vibrant color or precise tunable white output.
- Three configurations available: Static, Color Tunable, and RGBW.
- Scalable matrix system for seamless large-format installations.
- DMX and 0-10V/MLV/ELV compatible for versatile control options.
- 24V DC input, compatible with standard EOS drivers and controllers.

APPLICATIONS



HOSPITALITY



COMMERCIAL INTERIOR



BARS



RESTAURANT



RETAIL



HEALTHCARE

GENERAL SPECIFICATIONS

LED STRIP MATRIX SYSTEM

The Strata Light Engine is a backlit matrix system consisting of evenly spaced LED strips to be used as a back lighting.

DIMENSIONS PER UNIT

Up to 1524mm x 3048mm
60" x 120"

For bigger installations, the units can be placed next to each other.

WATTAGE

Static: 10W/sqft
Tunable: 14W/sqft
RGBW: 6W/sqft

DIMMABLE

The system is dimmable to <10% when matched with Dimmable Power Supplies

OPERATING TEMPERATURE RANGE

-13°F to 158°F

EFFICACY

150-200 lm/W

POWER OPTIONS

24VDC Standard

STRIP LENGTH

980mm (38.5") per strip

LED COUNT PER STRIP

Static: 14 LEDs
Tunable: 21 LEDs
RGBW: 28 LEDs

STRIP SPACING

Static & Tunable: 70mm apart
RGBW: 50mm apart

CUTTABLE SECTIONS

Static & Tunable: 140mm increments
RGBW: 70mm increments

LUMINOUS OUTPUT

200-1800 lm/sq. ft.

BACKLIGHTING DEPTH

Minimum 3" (76mm) from the LED strips to the face material, for any backlit material.

WEIGHT

1.2 lbs/sq. ft.

CRI

90+

WIRE GAUGE

20GA Wiring for White Panels, 24GA for Color

DRIVER INPUT VOLTAGE

100V TO 480V

LIFETIME

Over 50,000 hours = Nearly 12 years based on 12 hours a day usage.
Once installed, the Strata System is virtually maintenance free.

WARRANTY

5 years warranty according to the EOS Policy available [here](#).

IES FILES

Static White 2400K-6000K.

Download at eoslight.com/ies-files

OPTIONAL SPECIFICATIONS

COMPATIBLE POWER SUPPLIES

0-10V/MLV/ELV dimming | DMX
Electronic low voltage (ELV)
RF Dimmable Plug In
Inline Dimmable Plug-In

COLOR TEMPERATURES

Static White
Tunable White (full range)
RGBW – RGB/RGBW full color spectrum available

METAL BACKER

White Aluminum Infused Backer:
3-layer aluminum composite board, matte white finish on one side, glossy white on the other.
Thickness 1.8-2mm.
Max size 1524×3048mm
60 × 120 inches.

APPROVALS AND CERTIFICATIONS

The System is UL listed for Architectural applications and UL recognized for signage. All power supplies are UL / ETL listed.

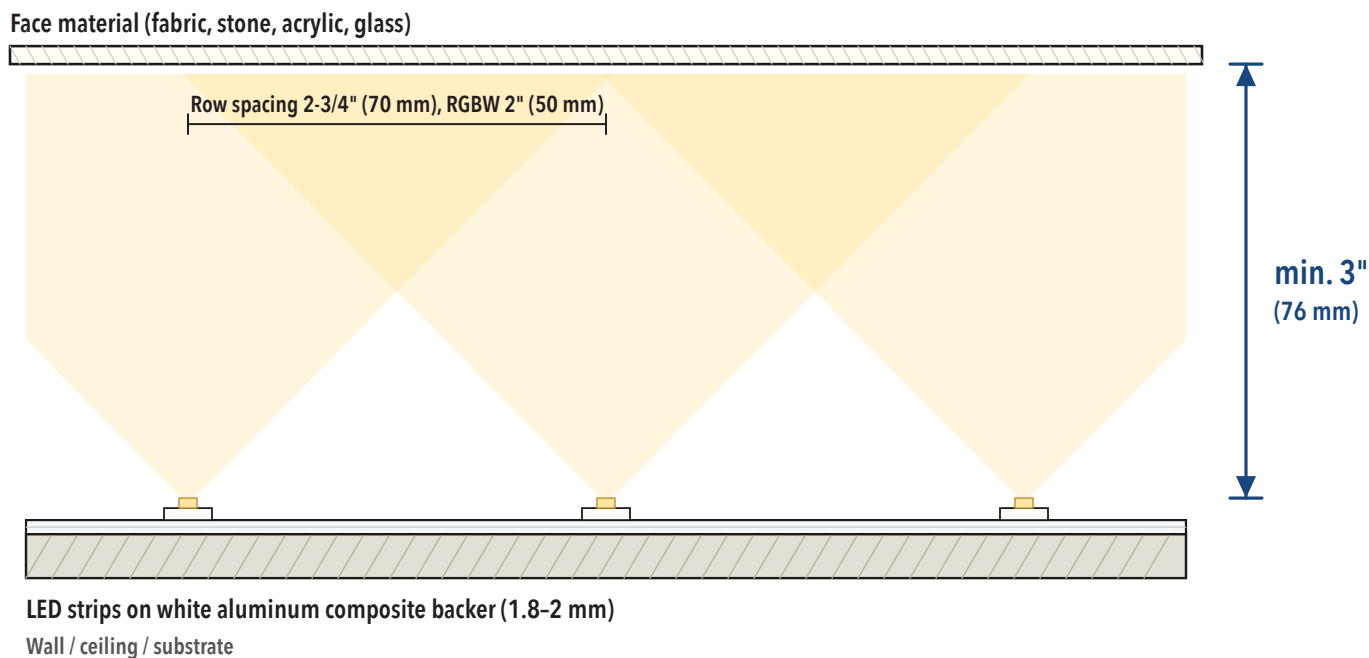


BACKLIGHTING DEPTH

STRATA WITH METAL BACKER · SIDE VIEW

MINIMUM 3" (76 MM)

from the LED strips to the face material, for any backlit material.



WHY 3"

The strips sit 2-3/4" (70 mm) apart. At 3" the light from each row overlaps the next, so the face glows evenly with no stripes or hot spots.

MEASURE FROM THE STRIPS

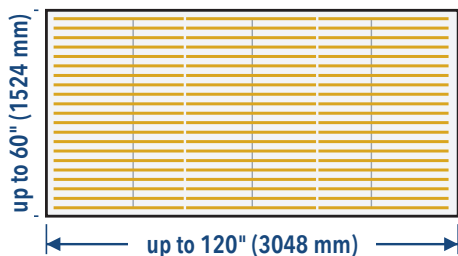
The 3" is measured from the LED strips on the backer to the face material, not from the wall. Allow for the backer and its mounting when planning the cavity.

BEFORE YOU ORDER

Always mock up the project with a sample of the face material. Your EOS representative will confirm the right depth.

EOS BACKLIGHTING DEPTH GUIDE Compare Strata with LightSlab, LightPaper and LightPanels: eoslight.com/guides

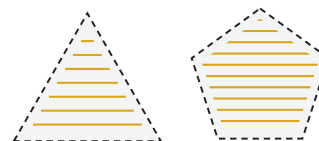
SIZES & SHAPES



STANDARD RECTANGLE UP TO 60" × 120" (1524 × 3048 mm)

Any rectangle up to this size is standard. For larger walls and ceilings, panels are placed side by side.

CUSTOM SHAPES



Triangles and pentagons are examples only. Other custom shapes are made to order.

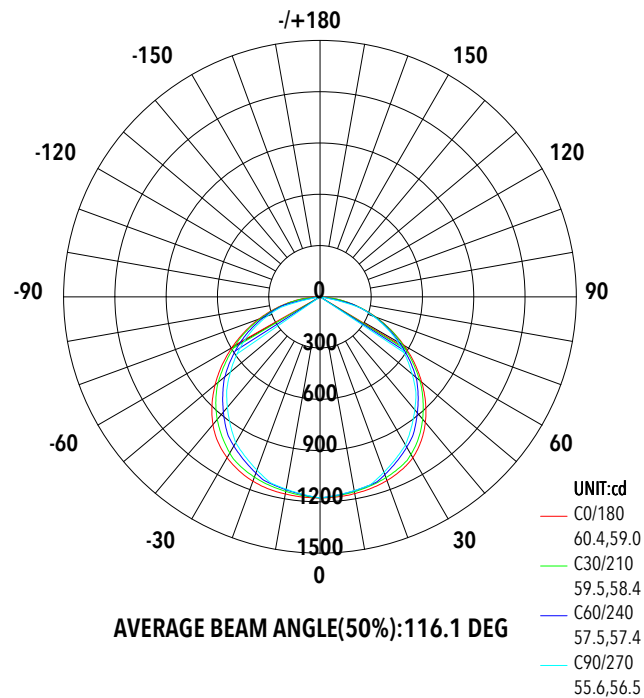


COMPANY NAME: _____ PROJECT SPECIFIER: _____ RUSH PROJECT: Yes ☐ No ☐

NAME	STR-24-60x36-SP-6000
NOMINAL POWER(W)	24.4
RATED VOLTAGE(V)	24
NOMINAL FLUX(lm)	3180.14
SIZE	60" x 36"
COLOR	6000K

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

STRATA, 60" x 36",
24V, Standard Power, 6000K





PHOTOMETRY

NAME	STR-24-60x36-SP-6000
NOMINAL POWER(W)	24.4
RATED VOLTAGE(V)	24
NOMINAL FLUX(lm)	3180.14
SIZE	60" x 36"
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LUMINOUS DISTRIBUTION INTENSITY DATA

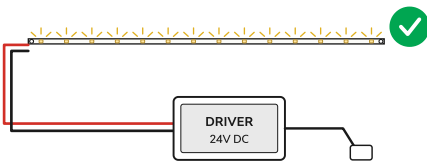
C (DEG) Y (DEG)	0	45	90	135	180	225	270	315
0	1177	1177	1177	1177	1177	1177	1177	1177
5	1175	1167	1164	1167	1176	1164	1160	1164
10	1169	1155	1151	1156	1171	1150	1143	1149
15	1160	1141	1139	1144	1164	1135	1126	1131
20	1144	1125	1093	1130	1148	1117	1079	1113
25	1121	1083	1047	1091	1123	1077	1033	1073
30	1087	1034	1001	1044	1087	1027	987	1025
35	1031	980	932	992	1040	974	915	973
40	959	921	863	931	975	914	844	909
45	873	835	794	845	895	835	772	818
50	777	745	704	757	802	750	685	726
55	674	653	615	668	702	661	598	633
60	566	547	526	566	597	560	511	532
65	456	444	429	466	489	461	419	432
70	347	341	332	365	381	362	328	333
75	241	238	236	263	276	263	236	234
80	138	121	0	142	174	144	0	121
85	44.1	0	0	0	77.6	0	0	0
90	0.44	0	0	0	0.5	0	0	0

B

Installation & Wiring: Strata with Metal Backer

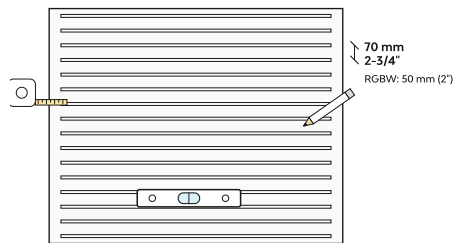
White aluminum composite backer, max 60" × 120"

1 Test first



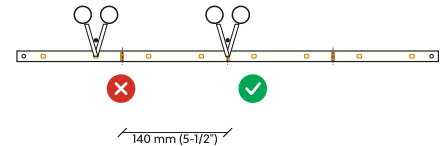
- Connect every strip to the driver and check all LEDs light evenly **before** mounting.
- Red = +, Black = -. Power OFF to connect.

2 Plan the layout



- Rows 70 mm (2-3/4") apart. RGBW 50 mm (2").
- Level and mark each row. Edge rows 35 mm (1-3/8") in.

3 Cut to length

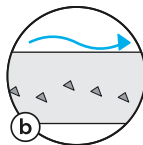
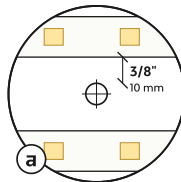
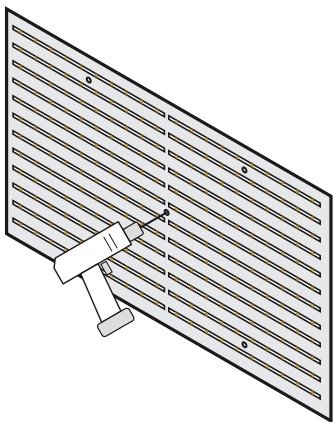


- Cut only on the marks: every 140 mm (5-1/2"). RGBW 70 mm (2-3/4").
- Every cut piece needs its own + / - feed.

4

Mount the backer

Factory pre-drilled holes recommended. On site, drill from the front.



- Send a drawing with the order and the factory pre-drills the mounting holes.
- On site: drill from the **front** (LED side) so the strips and wires are visible. **Never** drill through an LED or strip.
- **a** Only in the gap between rows, at least 3/8" (10 mm) from any LED, strip or wire. 3/16" bit, pilot hole first.
- **b** Vacuum away all aluminum chips: shavings can short the strips.
- Mount with M4 stainless steel screws (not included), with anchors suited to the wall.

B

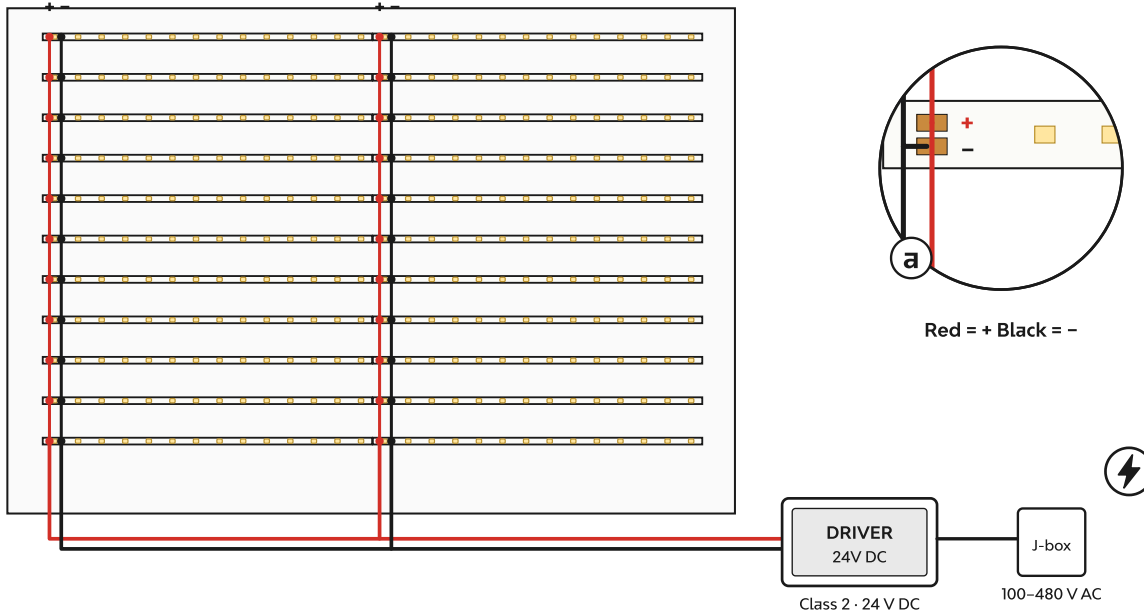
Installation & Wiring: Strata with Metal Backer

White aluminum composite backer, max 60" × 120"

5

Wire the rows

Vertical connector wires run between the rows and link them in parallel.



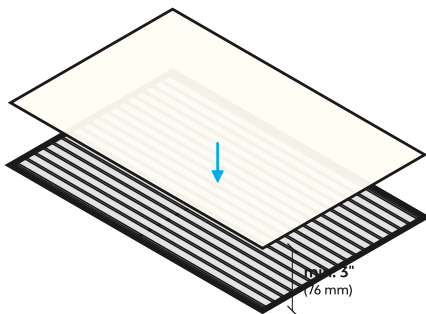
- Connect every row + to + (red) and - to - (black). Never cross polarity.
- 20 AWG for white systems, 24 AWG for color (RGBW).

- Load each driver to no more than 80% of its rating (Static 10 W/sq ft, Tunable 14, RGBW 6).
- The 100–480 V AC connection to the driver is made in a junction box by a licensed electrician.

6

Power on, then install the face material

Confirm every row lights evenly before closing up.



- **Backlighting depth: minimum 3" (76 mm)** between the LED strips and the face material, for any material.
- Use only Class 2, 24 V DC drivers supplied by EOS. Power OFF at the breaker before installing or wiring.
- Install per the NEC and local codes by a qualified electrician.
- Full instructions, delivery inspection and warranty: **Strata Installation & Wiring Guide** at eoslight.com.