CVEN2
2x2

CVEN2 with Lift Kit

Fail-Safe

CVEN2
Comforting Views Enhanced

ArcMED

2x2, 2x4, 4x4 - Recessed Ceiling
Visual Therapy
Behavioral Health

Typical Applications:

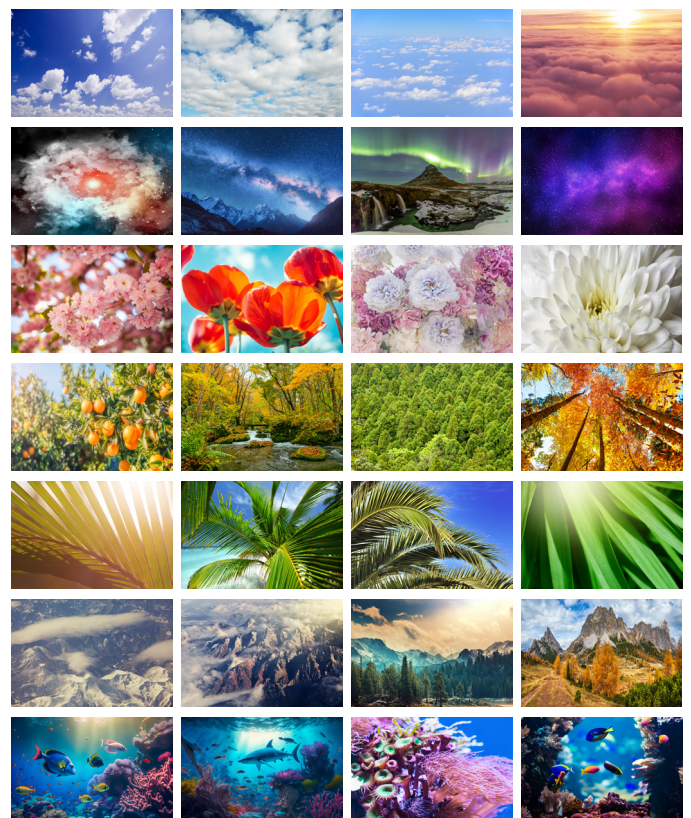Healthcare • Lobbies • Education • Entertainment • Commercial • Retail

Product Certification

UL CERTIFIED · IC RATED · T24 Efficiency Standards Can be used to comply with California Title 24 Non-Residential · FCC · ISO5 CLEANROOM

Product Features

BAA Compliant Options Available · IK10 · IP65 · MHC MENTAL HEALTH COMPLIANT

Image Selection Examples

See pages 5-11 for complete image selection.

Interactive Menu

Top Product Features

- Choose from over 100 standard comforting views images
- Customer furnished images, for the personal touch
- Choose the lift kit (LK2) to elevate the image(s) 2" above the ceiling line - for a "sky light" effect
- IP65 ingress protection available, for use in sterile environments
- Single image can be maintained across multiple luminaires – scalable
- Image is UV printed on the back-side of acrylic or polycarbonate, for easy cleaning and wipe-down
- Options to meet Buy American Act requirements

additional
product diagrams

COOPER
Lighting Solutions
a (S)ignify business

Order Information

SAMPLE CATALOG LOGIC: **CVEN2-44-UNV-EDC1-AC/MTN106-1/44**
CVEN2-22-UNV-EDD1-AC/FLWR111-4/22-LK2/BLPCC/IP65
CVEN2-24-UNV-EDC1-PC/PALM105-1/24-MHC-IP65

Domestic Preferences (1)	Product Family	Size	Voltage	Driver	Image Number (7)
[Blank]=Standard **BAA**=Buy American Act	**CVEN2**=Comforting Views Enhanced	**22**=2' x 2' **24**=2' x 4' **44**=4' x 4'	**UNV**=120-277V	**[Blank]**=Selectable lumens, 10% dimming (3), (4) **EDC1**=Electronic driver, single circuit, non-dimming (5) **EDD1**=Electronic driver, single circuit, dimming 10% (5) **ED1D1**=Electronic driver, single circuit, dimming 1% (5) **5LTD1**=Fifth Light DALI driver, dimming 5% (2), (5)	**AC**=Image printed on 0.125" thick, acrylic lens **PC**=Image printed on 0.125" thick, polycarbonate lens CLOUD 101 109 NIGHT 102 110 FLWR 103 111 TREE 104 112 PALM 105 113 MTN 106 114 WATER 107 115 108 **Example:** CLOUD112, WATER105, PALM107
Notes (1) Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.				**Notes** (2) 2x2 fixtures with the 5LTD driver option will be 3900 lumen. (3) Only available in 2' x 2' and 2' x 4' sizes. For 4' x 4', please specify driver. (4) Low/Med/High lumen outputs: 2x2-2700-5000 lumens, 2x4 3000-6900 lumens. 3 CCT Selectable, 3500K, 4000K, 5000K (5) Fixture comes 4000K CCT standard. Please contact Fail-Safe Technical Support for any additional CCT options.	**Notes** (7) Luminaires can be ordered in configuration with lens attached, or can be ordered in configuration with lens being shipped on separate line item. (please see below for ordering logic examples) Example Ordering Logic - Fixture With Lens: CVEN2-24-UNV-EDC1-AC/TREE101-4/22 = This is one set of the 4/22 configuration, consisting of (four) 2'x2' fixtures with the lens attached, this 4/22 configuration will create the TREE101 image with overall dimension of 4'x4'.

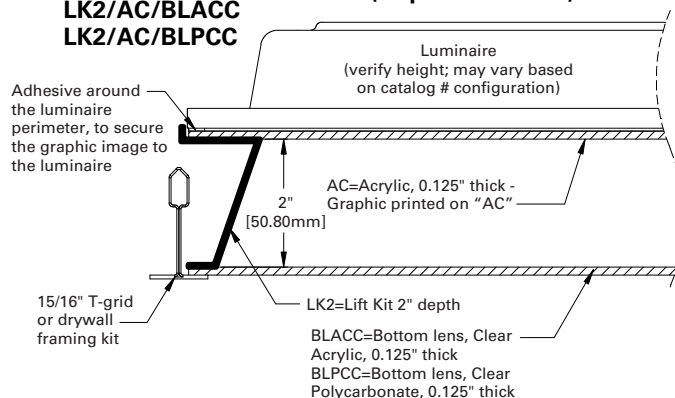| Configuration (8) (See below)	Options	Accessories (Order Separately) (13)
1/22=(1) 2x2 **1/24**=(1) 2x4 **1/44**=(1) 4x4 **2/22**=(2) 2x2 **2/24**=(2) 2x4 **2/44**=(2) 4x4 **4/22**=(4) 2x2 **3/24**=(3) 2x4 **3/44**=(3) 4x4 **6/22**=(6) 2x2 **4/24**=(4) 2x4 **4/44**=(4) 4x4 **9/22**=(9) 2x2 **5/24**=(5) 2x4 **12/22**=(12) 2x2 **6/24**=(6) 2x4	**[Blank]**=Image printed on acrylic, 0.125" thick **MHC**=Mental Health Compliant (hard ceilings or walls only) (13) **IP65**=IP65 Rated, image/luminaire flush to ceiling line **Lift Kit:** **LK2**=Lift Kit 2" above ceiling (9) **LK2/IP65**=Lift Kit, 2", IP65 (9) **Lift Kit / Bottom Clear Lens:** **LK2/BLACC**=Lift Kit, 2", clear bottom acrylic lens **LK2/BLPCC**=Lift Kit, 2", clear bottom polycarbonate lens (10) **LK2/BLACC/IP65**=Lift Kit, 2", clear bottom acrylic lens, IP65 **LK2/BLPCC/IP65**=Lift Kit, 2", clear bottom polycarbonate lens, IP65 (10)	**MSC4-PK**=Mounting Security Clips. Use to secure fixture to grid or to attach tie-wires. **DFCL-2448W-U**=2' x 4' gasketed drywall framing kit. Ships with gasket to be applied in field. Cut out dimension 24.25" x 48.25" **DFCL-2424W-U**=2' x 2' gasketed drywall framing kit. Ships with gasket to be applied in field. Cut out dimension 24.25" x 24.25" **DFCL-4848W-U**=4' x 4' gasketed drywall framing kit. Ships with field installed gasket. Cut out dimensions 48.25" x 48.25"
Notes (8) Luminaires can be ordered in configuration with lens attached, or can be ordered in configuration with lens being shipped on separate line item. (please see below for ordering logic examples) Example Ordering Logic - Fixture With Lens: CVEN2-24-2-UNV-EDD1-AC/TREE101-4/22 = This is one set of the 4/22 configuration, consisting of (four) 2'x2' fixtures with the lens attached, this 4/22 configuration will create the TREE101 image with overall dimension of 4'x4'. Example Ordering Logic - Lens On Separate Line: LNS-CVEN2-24-2-AC/TREE101-4/22 = Lens ordered on separate line item from the fixtures, will consists of (four) 2'x2' lens, which creates the TREE101 image in the 4/22 configuration.	**Notes** (9) Fixture will come with a factory installed lift kit to provide a 2" elevated recessed CVEN2. (10) Meets IK10 rating. (11) Ordering the MHC option allots fixture to meet mental health compliance requirements. Factory installed DFVR. Includes four brackets to secure luminaire to the ceiling structure. IP66 and IK10 standard. MHC only available for 2'x2' and 2'x4' form factors. (12) IP66 standard with DFVR/CVEN2 drywall kit. IP66 rating also includes IP65 rating, as IP66 testing requirements are stricter that IP65 requirements. (13) Factory installed DFVR kit attached to the CVEN2 - not available with LK2 option.	**Notes** (13) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

Configuration Examples

1/22 **4/22** **6/22** **9/22** **12/22** **2/44** **3/44**

2/22

3/24

1/24 **6/24**

4/24 **5/24**

2/24

4/44 **1/44**
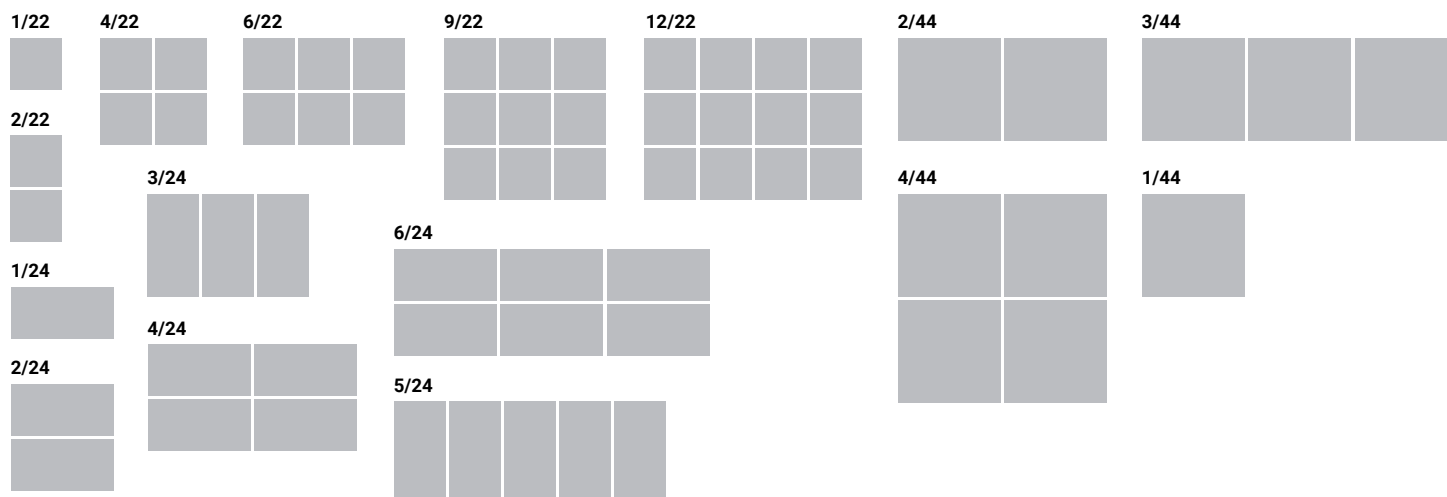
BEHAVIORAL HEALTH / LIGATURE RESISTANT

① **Lift kit with Clear Acrylic or Polycarbonate bottom lens (ships with fixture)**

LK2/AC/BLACC
LK2/AC/BLPCC
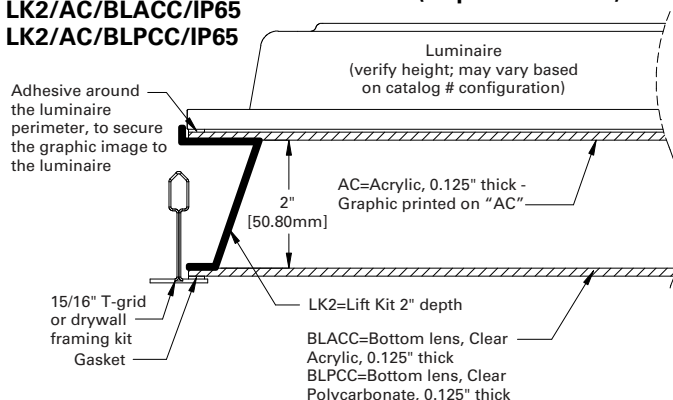
Luminaire (verify height; may vary based on catalog # configuration)

Adhesive around the luminaire perimeter, to secure the graphic image to the luminaire

AC=Acrylic, 0.125" thick - Graphic printed on "AC"

2" [50.80mm]

15/16" T-grid or drywall framing kit

LK2=Lift Kit 2" depth

BLACC=Bottom lens, Clear Acrylic, 0.125" thick
BLPCC=Bottom lens, Clear Polycarbonate, 0.125" thick

STERILE ENVIRONMENTS

② **Lift kit with Clear Acrylic or Polycarbonate bottom lens - IP65 (ships with fixture)**

LK2/AC/BLACC/IP65
LK2/AC/BLPCC/IP65

Luminaire (verify height; may vary based on catalog # configuration)

Adhesive around the luminaire perimeter, to secure the graphic image to the luminaire

AC=Acrylic, 0.125" thick - Graphic printed on "AC"

2" [50.80mm]

15/16" T-grid or drywall framing kit

Gasket

LK2=Lift Kit 2" depth

BLACC=Bottom lens, Clear Acrylic, 0.125" thick
BLPCC=Bottom lens, Clear Polycarbonate, 0.125" thick

HIGH ABUSE

③ **Lift kit, image printed on Polycarbonate lens (ships with fixture)**

LK2/PC

Luminaire (verify height; may vary based on catalog # configuration)

Adhesive around the luminaire perimeter, to secure the graphic image to the luminaire

PC=Polycarbonate, 0.125" thick - Graphic printed on "PC"

2" [50.80mm]

15/16" T-grid or drywall framing kit

LK2=Lift Kit 2" depth
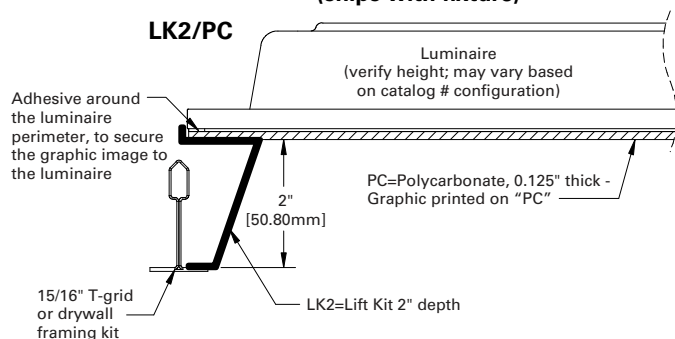
GENERAL APPLICATION

④ **Lift kit, image printed on Acrylic lens (ships with fixture)**

LK2/AC

Luminaire (verify height; may vary based on catalog # configuration)

Adhesive around the luminaire perimeter, to secure the graphic image to the luminaire

AC=Acrylic, 0.125" thick - Graphic printed on "AC"

2" [50.80mm]

T-Grid

LK2=Lift Kit 2" depth
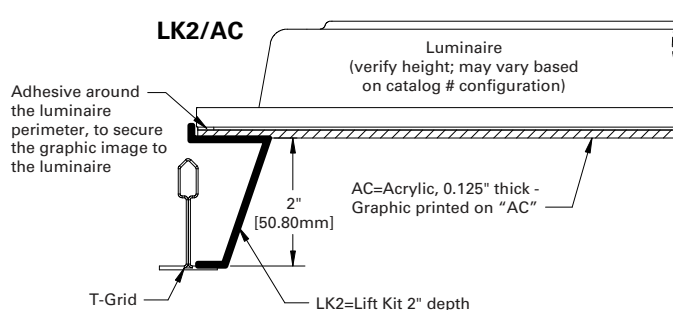
STERILE ENVIRONMENTS

⑤ **Lift kit, no bottom lens, Gasketed, IP65 (ships with fixture)**

LK2/PC/IP65
LK2/AC/IP65

Luminaire (verify height; may vary based on catalog # configuration)

Adhesive around the luminaire perimeter, to secure the graphic image to the luminaire

Graphic image

Gasket factory applied to lift kit perimeter

2" [50.80mm]

AC=Acrylic, 0.125" thick - Graphic printed on "AC"
PC=Polycarbonate, 0.125" thick - Graphic printed on "PC"

15/16" T-grid or drywall framing kit

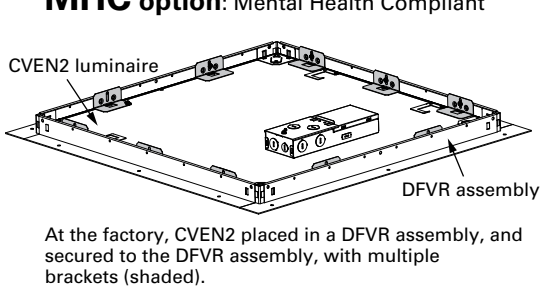LK2=Lift Kit 2" depth
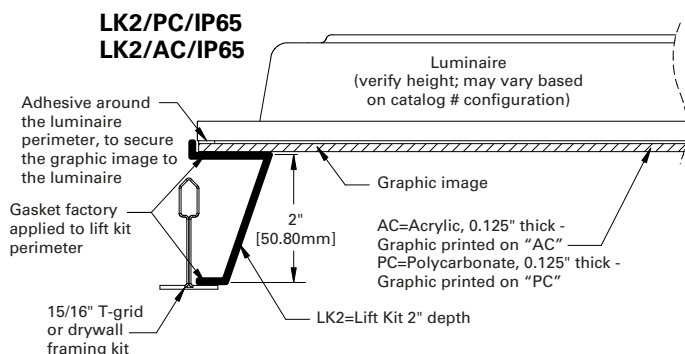
BEHAVIORAL HEALTH / LIGATURE RESISTANT

(4) 2x2 Comforting Views with a LK2/CP125 option to make a single continuous cloud view. Ideal for behavioral health applications.

LK2/AC/BLPCC

Dimensional and Mounting Details

2x4

2-7/8" [72mm]

2-7/8" [72mm]

23-3/4" [602mm]

47-3/4" [1212mm]

2.26" to 2.55"

2x2

2-7/8" [72mm]

2-7/8" [72mm]

23-3/4" [602mm]

23-3/4" [602mm]

2.26" to 2.55"

4x4

9-1/2" [242mm]

13" [331mm]

47-11/16" [1212mm]

47-11/16" [1212mm]

5" [128mm]

Image printed on Polycarbonate or Acrylic .125" thick lens

47-3/4" [1212mm]
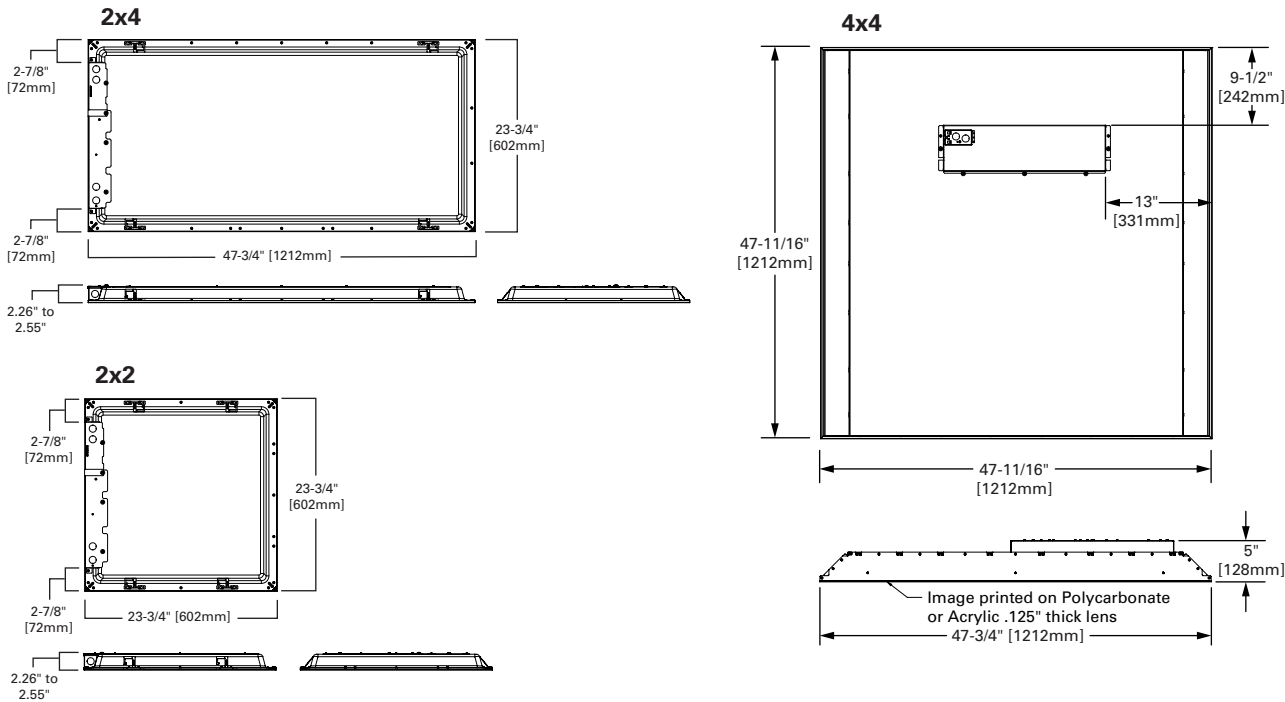
MHC option: Mental Health Compliant

CVEN2 luminaire

DFVR assembly

At the factory, CVEN2 placed in a DFVR assembly, and secured to the DFVR assembly, with multiple brackets (shaded).

Tamper resistant Scew Detail

Blocking (shaded)

Hard ceiling

TORX counter-sunk flat head screws

Room Side View

Blocking

Comforting Views image

Ceiling

???

12 qty. TORX counter-sunk flat head screws fasten DFVR assembly to the hard ceiling or wall.

FSP luminaire

Blocking

Ceiling

Blocking

Position the DFVR assembly in the ceiling cut-out, and secure with multiple tamper-resistant screws; shown above.

MENTAL HEALTH COMPLIANT FEATURES / BENEFITS			
Aesthetics	**Construction / Versatility**	**Patient Safety / Robustness**	
Architectural matte white paint, standard	IP65 rating available (under covered ceiling)	Anti-microbial finish, available	IK10 impact resistant, standard
All countersunk fasteners on the show surface, painted matte white	Ceiling or wall mount	Flush fasteners, standard	Heavy gauge extruded aluminum frame
Custom colors available	Shipped assembled, ready for install	Tamper resistant, T20 Torx fasteners	Multiple attachment points, minimum 12" spacing
		Clear bottom polycarbonate lens, 0.125" thickness minimum	

Image Selection - Clouds

CLOUD101

CLOUD102

CLOUD103

CLOUD104

CLOUD105

CLOUD106

CLOUD107

CLOUD108

CLOUD109
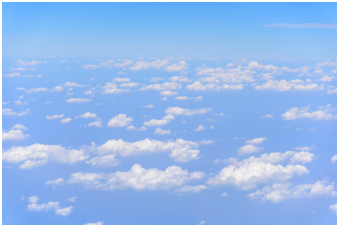
CLOUD110

CLOUD111

CLOUD112

CLOUD113

CLOUD114

CLOUD115

Configuration Examples

1/22

4/22

6/22

9/22

12/22

2/44

3/44

2/22

3/24

6/24

4/44

1/44

1/24

4/24

5/24

2/24
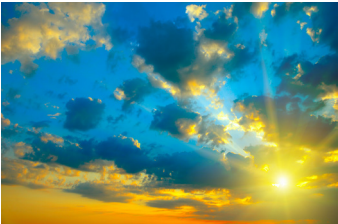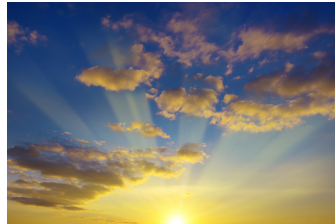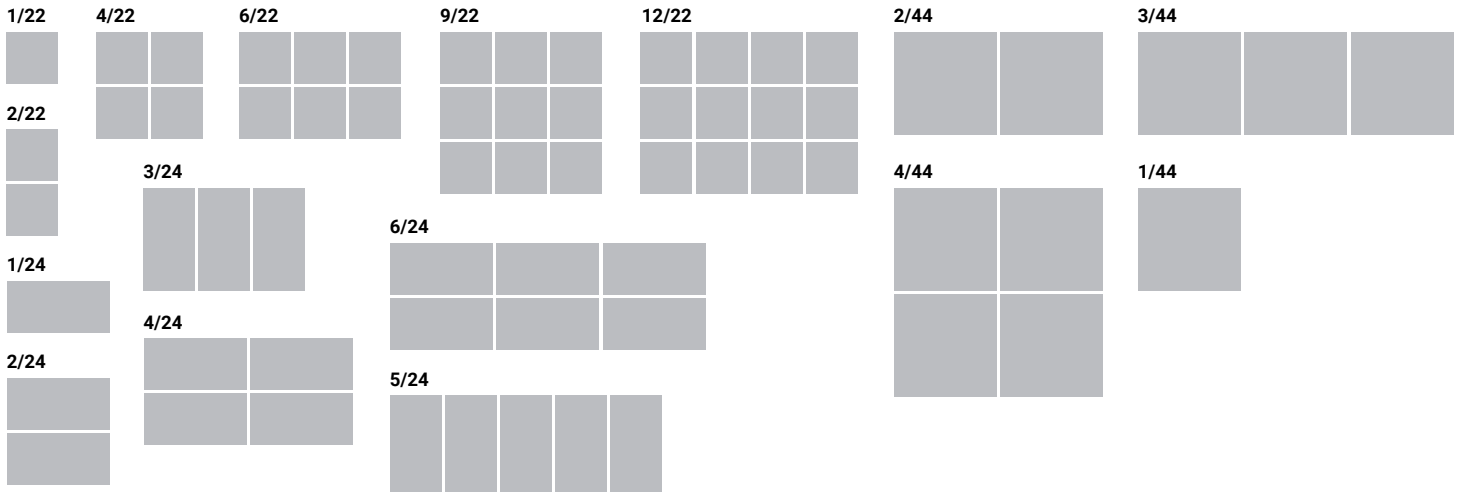
Image Selection - Night Sky

NIGHT101

NIGHT102

NIGHT103

NIGHT104

NIGHT105

NIGHT106

NIGHT107

NIGHT108

NIGHT109

NIGHT110

NIGHT111

NIGHT112

NIGHT113

NIGHT114

NIGHT115

Configuration Examples

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12/22

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2/22

3/24

1/24

6/24

4/44

1/44

4/24

2/24

5/24

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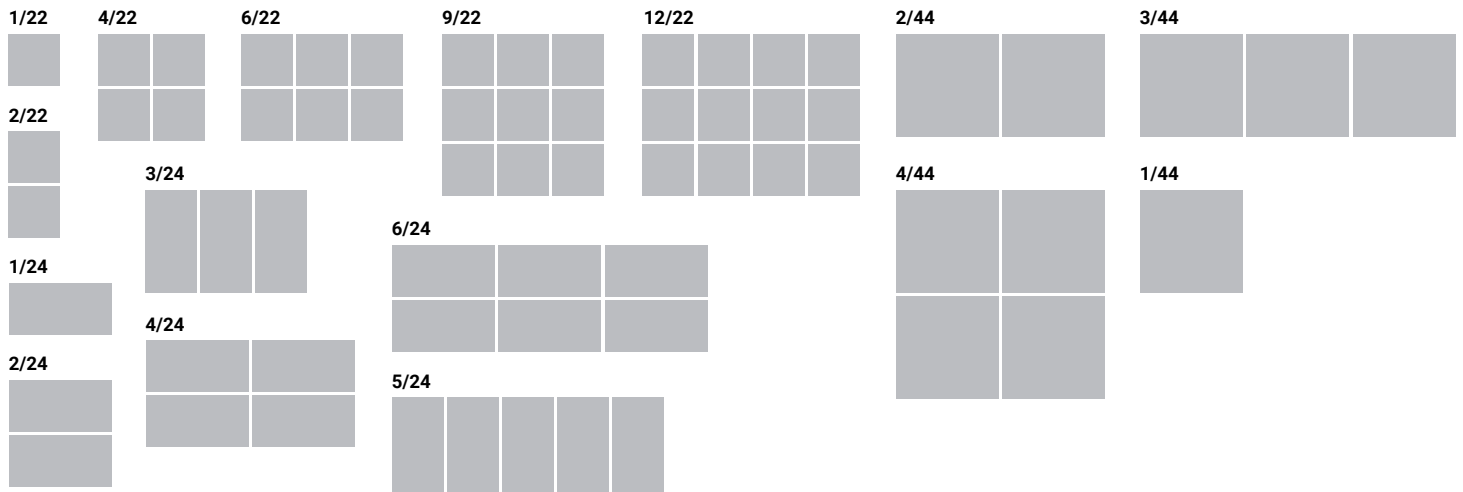
Image Selection - Flowers

FLWR101

FLWR102

FLWR103

FLWR104

FLWR105

FLWR106

FLWR107
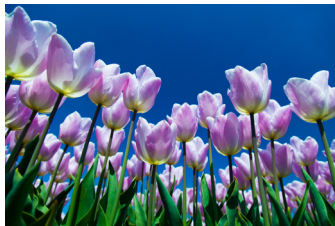
FLWR108

FLWR109

FLWR110

FLWR111

FLWR112

FLWR113
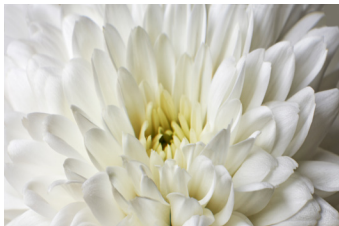
FLWR114

FLWR115

Configuration Examples

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4/22

6/22

9/22

12/22

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3/44

2/22

3/24

4/44

1/44

1/24

6/24

2/24

4/24

5/24
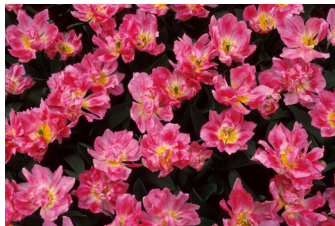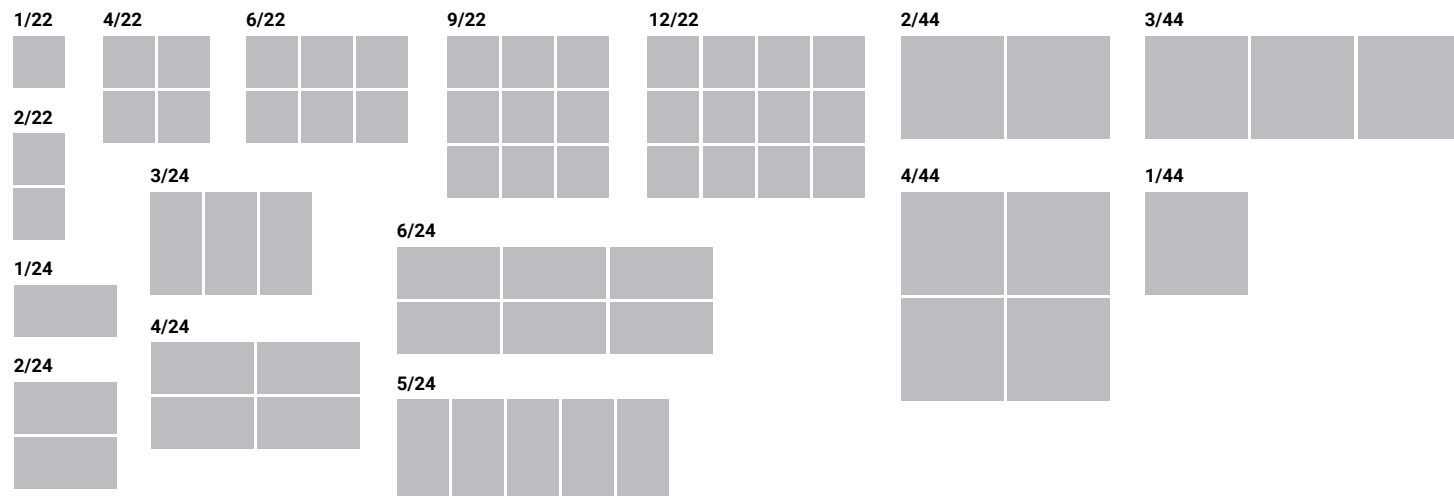
Image Selection - Trees

TREE101

TREE102
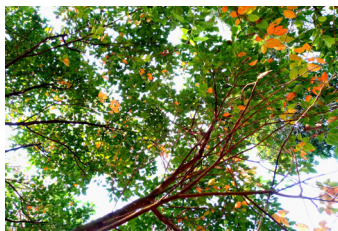
TREE103
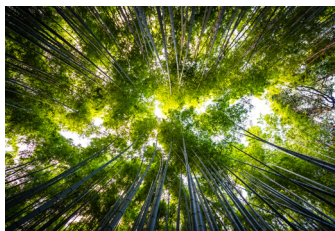
TREE104

TREE105
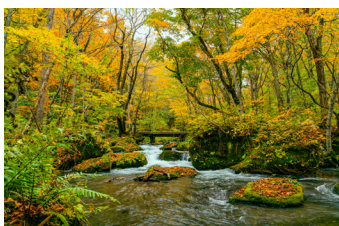
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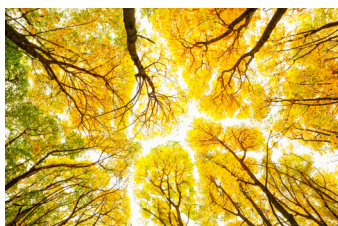
TREE107
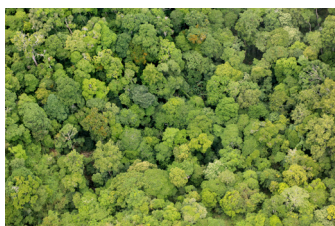
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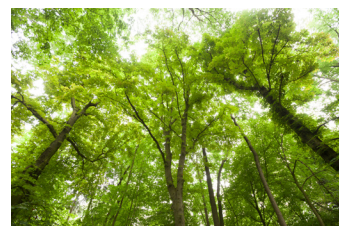
TREE109
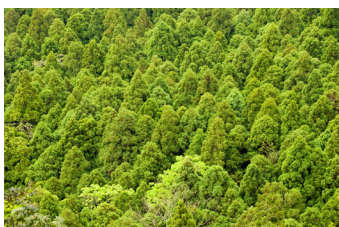
TREE110
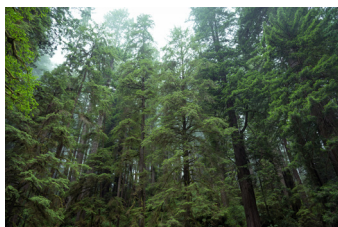
TREE111
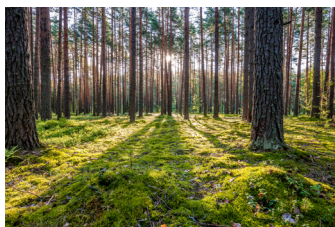
TREE112

TREE113
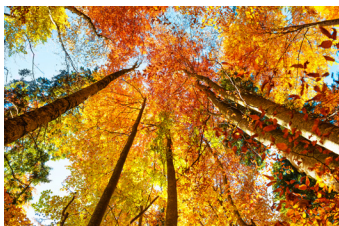
TREE114

TREE115

Configuration Examples

1/22 4/22 6/22 9/22 12/22 2/44 3/44

2/22

3/24 6/24 4/44 1/44

1/24

4/24 5/24

2/24
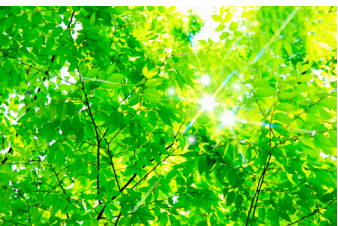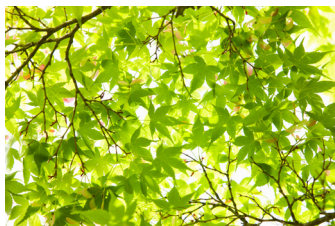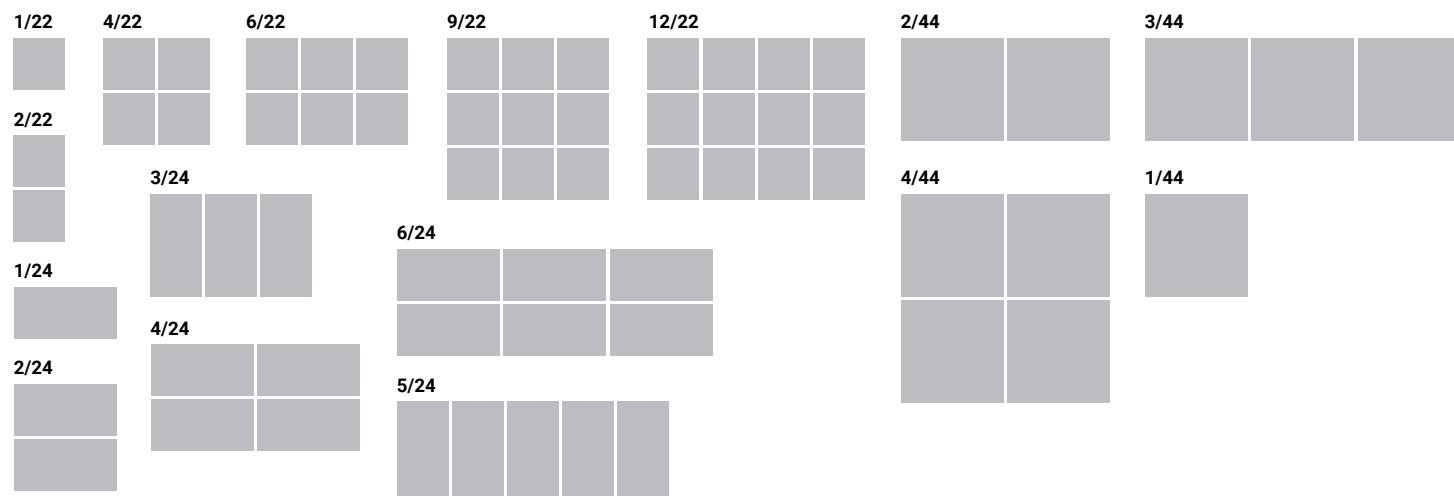
Image Selection - Palms/Palm Trees

PALM101

PALM102
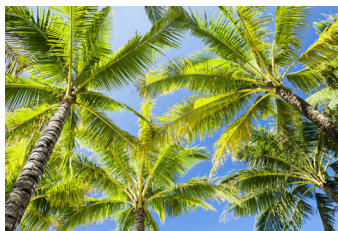
PALM103

PALM104

PALM105

PALM106
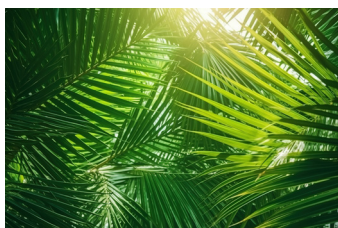
PALM107
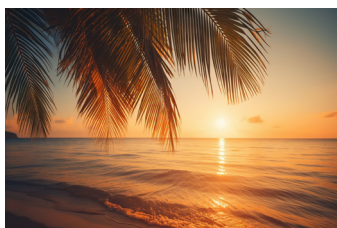
PALM108
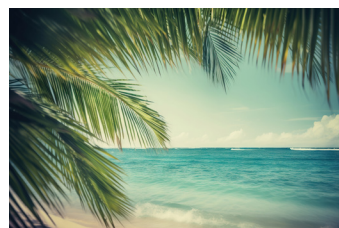
PALM109

PALM110
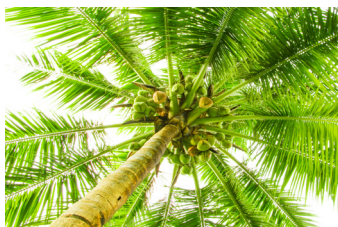
PALM111
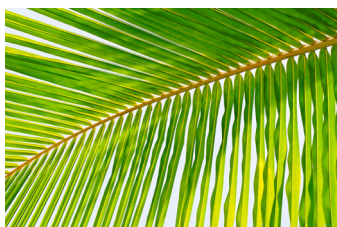
PALM112

PALM113
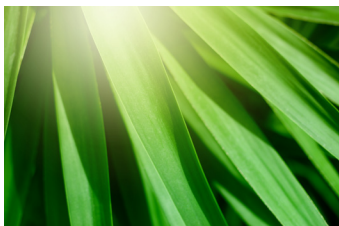
PALM114

PALM115

Configuration Examples

1/22 4/22 6/22 9/22 12/22 2/44 3/44

2/22

3/24

1/24 6/24 4/44 1/44

4/24

2/24 5/24
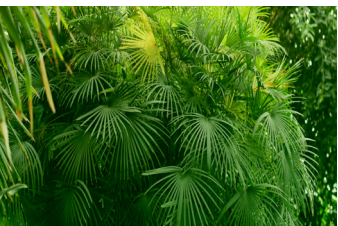
COOPER
Lighting Solutions
a Signify business
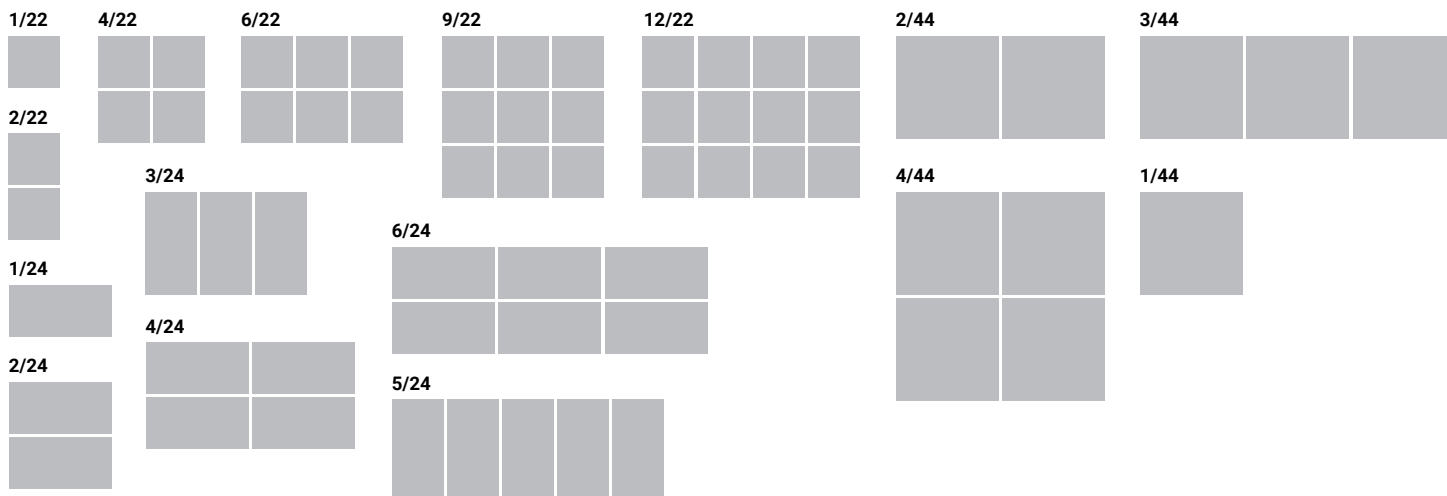
Image Selection - Mountains

MNT101

MNT102
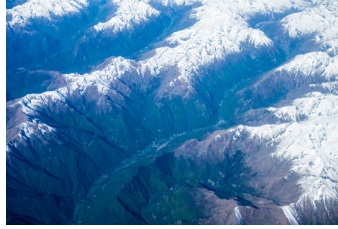
MNT103

MNT104
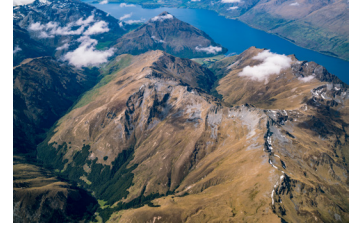
MNT105

MNT106

MNT107

MNT108

MNT109

MNT110

MNT111

MNT112

MNT113

MNT114

MNT115

Configuration Examples

1/22 4/22 6/22 9/22 12/22 2/44 3/44

2/22

4/44 1/44

3/24

1/24 6/24

2/24 4/24

5/24

Image Selection - Underwater

WATER101

WATER102

WATER103

WATER104

WATER105

WATER106

WATER107

WATER108

WATER109
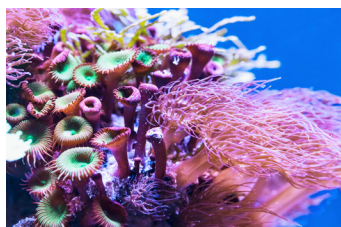
WATER110
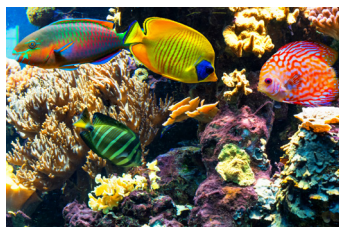
WATER111
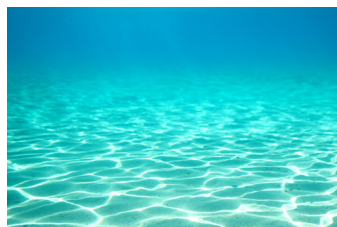
WATER112

WATER113
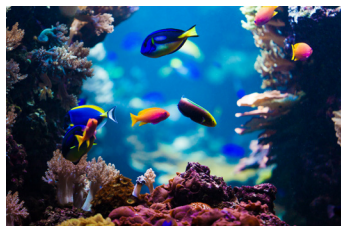
WATER114

WATER115

Configuration Examples

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2/24 5/24
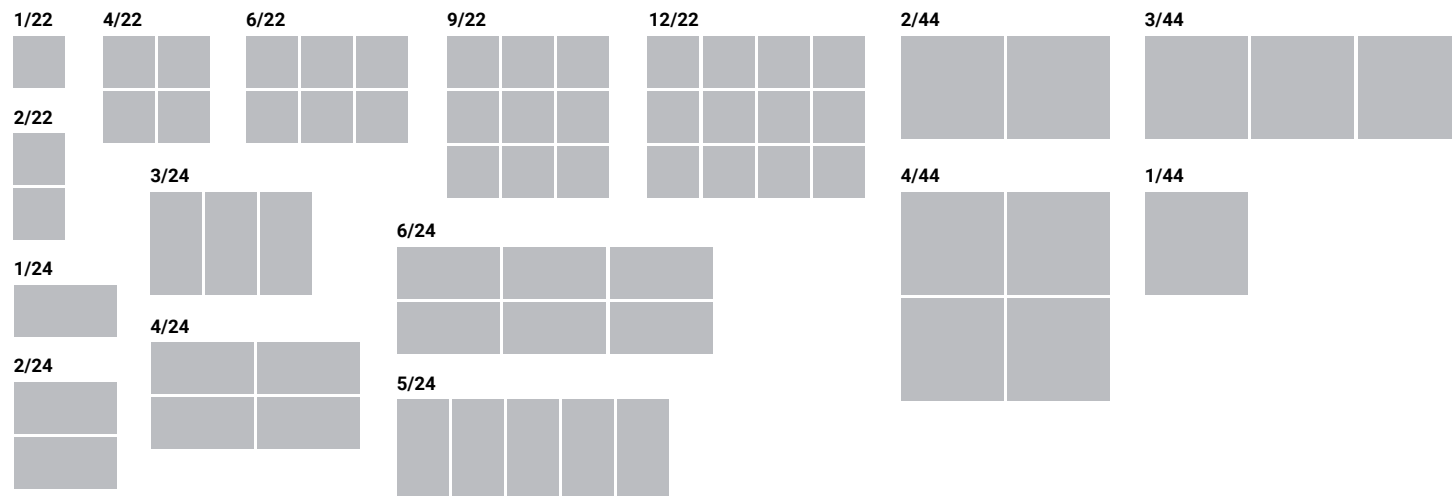
Product Specifications

Construction
- Robust die-formed steel back plate is post-painted to ensure durability
- Housing is absent of holes to resist debris/bug intrusion
- Aluminum door frame with a lens that seals the fixture shut

Mounting
- Integral grid clips provided and include suspension/wire retention features
- Junction box constructed of code gauge galvanized steel with access plate
- Multiple 7/8" KOs provided

Materials
- Constructed of 2x2, 2x4, or 4x4 luminaire, a 1.75" deep grid riser, and an acrylic or polycarbonate lens

Optical Shielding
- High quality acrylic or polycarbonate photographic lens, 0.125" thick. Choose from standard images (pages 3-9), or provide a custom digital image (minimum resolution requirement is 300 x 300p), or reference a readily available, non-proprietary public image.
- Micro-optics enable uniform distribution of the LEDs for uniform lens illumination

LEDs
- 4000K color temperature, with minimum 80CRI
- 3400 initial lumens (2x2); 6700 initial lumens (2x4); 10,000 initial lumens (4x4)
- Selectable driver comes with field selectable CCT options in 3500K, 4000K, and 5000K.

Driver
- Electronic, 0-10V 1% dimming available.

Compliance
- cULus listed for 25C ambient environments, indoor applications
- IC rated for direct insulation contact
- Wet location listed, under covered ceiling
- IESNA LM-79 and LM-80 standards compliant
- Suitable for State of California Title 24 high efficacy luminaire
- FCC part 15 class B (residential) compliant with standard 10% dimming driver
- Meets IP65 or IP66 rating from the room side, when specified in catalog logic
- Meets ISO5 when specified in catalog logic
- Meets IK10 when specified in catalog logic
- Meets Mental Health compliance when specified in catalog logic

Warranty
- Five year warranty
- Ten year extended warranty available