KIRLIN
HEALTHCARE LIGHTING

CATALOG #		TYPE
JOB NAME	WATTAGE	VOLTAGE

SmartLED™ MRI Lighting System
2'x 2' Recessed White or Scenic Panel
Ultra-slim LED • Type IC • Soothing & Safe "Skylight" Effect

MRP-22290

White (No Image)

Option: -IMG (SKY10)

Specifications

Delivered System Performance
- Lumen Series: **MUST SPECIFY**
  -2500L (35W) - Not available with images
  -1500L (20W)
- Color temperature: **MUST SPECIFY**
  3500°K or 4100°K
- Distribution: WFL
- 90 CRI; 60,000 hour life (L70)

Luminaire Features
- Driverless, 20 watt LED array; low voltage, Class II DC powered
- Completely non-ferromagnetic

Thermal Management
- Housing/heat sink provides maximum heat dissipation for side-fire LED technology

SmartLED™ MRI Lighting System Required
- Kirlin remote driver modules, cabinet, and RFI filters required for operation
- Components ordered separately, see below for driver information and **MRI-CABNT** for additional components

SmartLED™ Emergency Backup System
- EMI-21220 for emergency power
- See specification sheet; order separately

Trim/Lens
- Regressed trim provides a unique, architectural "skylight" effect when installed in grid ceiling
- Extruded acrylic, wave guide lens provides unparalleled uniformity and even illumination of the image
- See specification sheet; order separately

Scenic Panel Image (Optional)
- Acrylic scenic panel (100+ selections from Kirlin or customer-provided) above polycarbonate
- Easily changed without replacing luminaire for cost-effective interior design update
- Visualize your design with Kirlin's **Scenic Configurator** tool

Installation
- Requires minimum 18 AWG twisted pair shielded wire from SmartLED™ MRI Lighting System to fixtures
- Drops into 2' x 2' ceiling grid.

UL, C-UL (Canada) Listings
- Wet, damp, dry locations, covered ceilings.
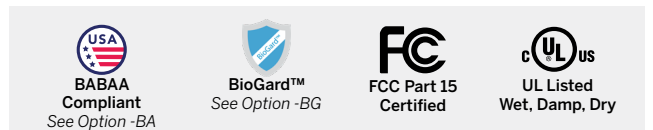- Type IC for direct contact with insulation

FCC Compliance
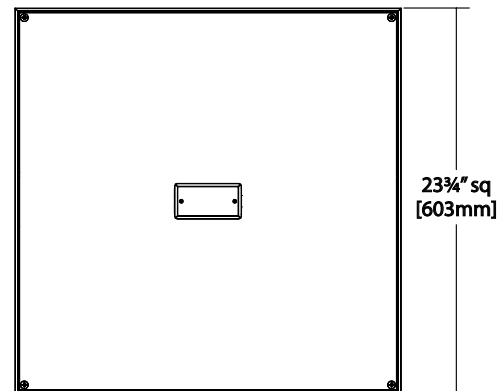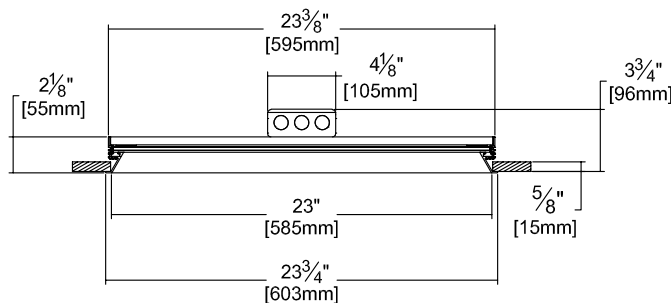- FCC Part 15 certified for EMI/RFI emissions

FIVE YEAR Limited Warranty
- Complete standard fixture

For MRI Installations, use of both SmartLED™ Driver Modules and Filters is REQUIRED or Kirlin warranty is null and void

USA
BABAA Compliant
See Option -BA

BioGard™
See Option -BG

FC
FCC Part 15 Certified

c(UL)us
UL Listed Wet, Damp, Dry

Dimensions

23³⁄₈" [595mm]
4¹⁄₈" [105mm]
2¹⁄₈" [55mm]
3³⁄₄" [96mm]
23" [585mm]
⁵⁄₈" [15mm]
23³⁄₄" [603mm]
23¾" sq [603mm]

2x2 Recessed Panel Ordering Configuration

(Example: [QTY:6] MRP-22290-1500L-41K-2X2-IMG-BG)

Must Specify					Optional	
Model	**Lumens**	**CCT & CRI**	**Size**	**Image**	**Trim Finish**	**Other Options**
MRP-22290						
	-2500L† **-1500L** † 2500L not available with images	**(Blank):** 35K, 90+ CRI **-35K:** 3500K **-41K:** 4000K	**-2X2:** 1 panel	**(Blank):** White Panel **-IMG:** Scenic Panel; Order one panel for every 2'x2' of the image array size; N/A with -2500L **Choose the image desired from the Scenic Image Gallery brochure; Order the scenic image seperately**	**(Blank):** White recessed trim **-BG:** White BioGard™ anti-microbial finish **-BKBG:** BioGard™ anti-microbial black **-94:** Custom color/finish; see page 5 for recommended custom colors; consult factory **-94BG:** BioGard™ anti-microbial custom color finish	**(Blank):** None **-99:** Special modification; consult factory **-BA:** Buy America (BA, BAA) and Build America, Buy America (BABAA) compliant

Scenic Image Ordering Configuration

(Example: MRP-22IMG-4X6-SKY10)

Must Specify			Options	
Model	**Size**		**Image**	**Other Options**
MRP-22IMG				
	-2X2: 1 panel; square orientation **-2X4:** 2 panels; portrait orientation **-4X2:** 2 panels; landscape orientation **-4X4:** 4 panels; square orientation **-4X6:** 6 panels; portrait orientation **-4X8:** 8 panels; portrait orientation **-6X4:** 6 panels; landscape orientation	**-6X6:** 9 panels; square orientation **-6X8:** 12 panels; portrait orientation **-8X4:** 8 panels; landscape orientation **-8X6:** 12 panels; landscape orientation **-8X8:** 16 panels; square orientation **-8X12:** 24 panels; portrait orientation **-12X8:** 24 panels; landscape orientation See the next page for additional layout and orientation details.	**Choose the image desired from the Scenic Image Gallery brochure and insert the code here. To see how your artwork will appear in an arrangement, visit Kirlin's Scenic Configurator tool.** **-IMG99:** Custom image‡ ‡ See requirements on page 5	**(Blank):** None **-99:** Special modification; consult factory **If ordering a -PAT image, choose the pattern color desired from the Scenic Image Gallery brochure and insert the code here.**

SmartLED™ MRI Driver Modules

Fully Digital Controlled Power Source for LED Luminaires

Mounted in Kirlin's **MRI-CABNT**

Drivers wired in series

Lumens	Driver Module	Maximum Capacity	Fixture Load Examples
2500L	DVR-1400A	1 Fixture	• Qty 1: MRP-22290-2500L-2X2
1500L	DVR-0700A	Up to 2 Fixtures	• Qty 2: MRP-22290-1500L-2X2 • Qty 1: MRP-22290-1500L-2X2

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Scenic Panel Options
Scenic Image Ordering Matrix on last page


-SKY05

-SKY17

-TRE12

-PAT04-PUR

Image Gallery

- Sky (SKY) - 25 Images
- Night Sky (NGT) - 7 Images
- Space (SPC) - 4 Images
- Tree (TRE) - 22 Images
- Nature Landscape (LND) - 8 Images
- Water (WTR) - 5 Images
- Abstract Art (ART) - 10 Images
- Patterns (PAT) - 25 Patterns

Size and Artwork Orientation

Nominal Dimensions	Fixture Qty.	Landscape Arrangement	Option	Preferred Resolution (Pixels)	Portrait Arrangement	Option	Preferred Resolution (Pixels)
2' X 2'	1		-2X2	1800 x 1800			
2' X 4'	2		-4X2	3600 x 1800		-2X4	1800 x 3600
4' X 4'	4		-4X4	3600 x 3600			
4' X 6'	6		-6X4	5400 x 3600		-4X6	3600 x 5400
6' X 6'	9		-6X6	5400 x 5400			
6' X 8'	12		-8X6	7200 x 5400		-6X8	5400 x 7200
8' X 8'	16		-8X8	7200 x 7200			
Custom Size		-10X4 — Specify number of panels and orientation of artwork					

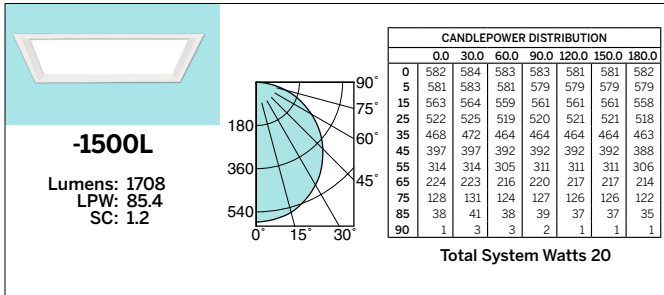When specifying size, orientation and artwork, consider how the image will be divided and cropped. For example:
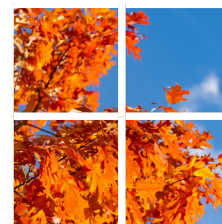
-4X4

-6X4

-4X6

To see how your artwork will appear in an arrangement, visit Kirlin's **Scenic Configurator** tool.

Photometry - Installed Complete Fixture

LM-79 IESNA Certified Photometry from Independent Lab

-1500L

Lumens: 1708
LPW: 85.4
SC: 1.2

CANDLEPOWER DISTRIBUTION						
	0.0	30.0	60.0	90.0	120.0	150.0	180.0
0	582	584	583	583	581	581	582
5	581	583	581	579	579	579	579
15	563	564	559	561	561	561	558
25	522	525	519	520	521	521	518
35	468	472	464	464	464	464	463
45	397	397	392	392	392	392	388
55	314	314	305	311	311	311	306
65	224	223	216	220	217	217	214
75	128	131	124	127	126	126	122
85	38	41	38	39	37	37	35
90	1	3	3	2	1	1	1

Total System Watts 20

-2500L

Lumens: 3049
LPW: 87.1
SC: 1.2

CANDLEPOWER DISTRIBUTION						
	0.0	30.0	60.0	90.0	120.0	150.0	180.0
0	1039	1042	1040	1041	1041	1038	1039
5	1037	1041	1038	1034	1036	1035	1034
15	1004	1007	998	1002	995	1002	997
25	933	937	926	928	924	931	925
35	835	843	829	829	819	828	826
45	708	709	700	700	689	699	693
55	560	561	545	555	543	554	546
65	401	398	386	392	380	387	382
75	229	235	222	226	211	225	217
85	68	73	68	39	62	65	62
90	3	5	5	4	2	1	1

Total System Watts 35

LED manufacturers maintain a tolerance of +/-7% on flux (lumens) and power (electrical) measurements.
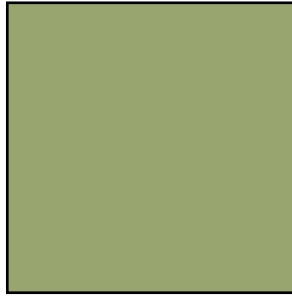
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Recommended Custom Colors

The below colors match Kirlin's Scenic Patterns for a cohesive look throughout the space.
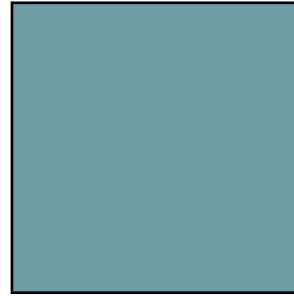To be used with option code -94.
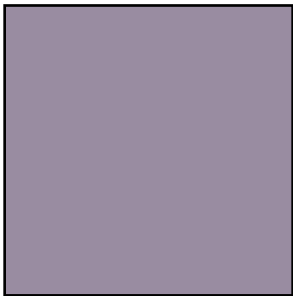
Calming Colors
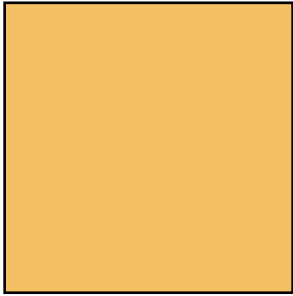
Pale Marigold (-94PM)

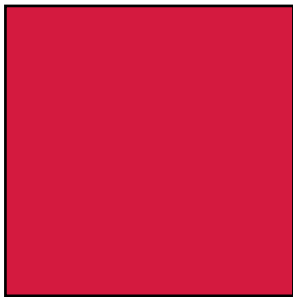Peaceful Pine (-94PP)

Moonlit Bay (-94MB)
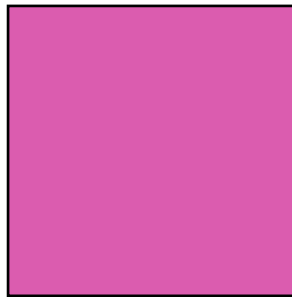
Dreamy Dusk (-94DD)
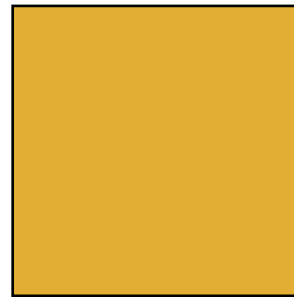
Mudstone Magic (-94MM)

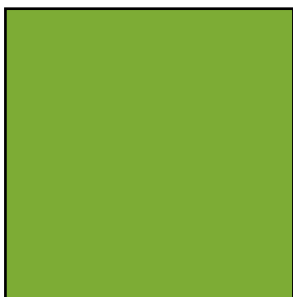Soft Slate (-94SS)

Vibrant Colors

Electric Ember (-94EE)
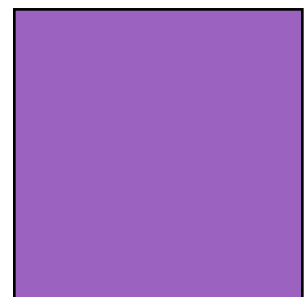
Hot Orchid (-94HO)

Lemon Zing (-94LZ)

Kiwi Kick (-94KK)

Caribbean Lagoon
(-94CL)

Cerulean Wave (-94CW)

Glam Grape (-94GG)

Due to variations in monitor settings and screen resolutions, the appearance of colors, textures, and details in the images may differ from the actual product.