Columbia LIGHTING

Scaler™ 2x4 Panel
2'X4' EDGE-LIT FLAT PANEL

FEATURES

- Edge-lit flat panel with options provides a wide variety of configurations to match any application

- Appropriate for offices, schools, medical, and public spaces

- Superior construction provides even light across the face of the fixture

- Standard and HE lumen packages available

- IC rated

- Suitable for ISO Class 5–9 positive pressure cleanrooms

Built to UL 924 Standards   CP Chicago Plenum   ISO 5   UL Sanitation   C UL US
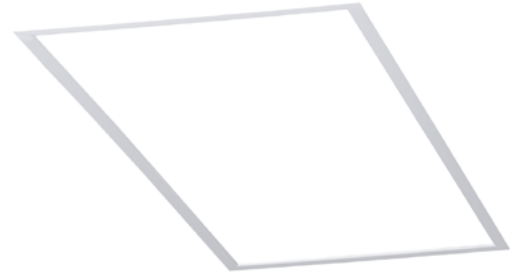
CONTROLS TECHNOLOGY

SpectraSync)) Color Tuning Technology   NX LIGHTING CONTROLS

SPECIFICATIONS

CONSTRUCTION
- Extruded aluminum frame has a matte white finish and clean frame-to-lens transition

OPTICS
- Acrylic blend light guide with frosted/textured outer lens provides edge to edge illumination without pixelation or bright spots

INSTALLATION
- Integral T-bar clips for secure mounting to grid ceiling

- For surface/cable mount applications use surface/cable mount kit accessories

- For plaster or sheet rock installations, use flange kit

ELECTRICAL
- 54,000 hour LEDs at L70 for reduced maintenance

CONTROLS
- Optional SpectraSync™ offers a Tunable White solution and integrates seamlessly into a variety of control systems

- NX Lighting Controls provides options for wired or wireless connectivity for NX system deployments

CERTIFICATIONS
- All luminaires are built to UL 1598 standards and bear appropriate cULus labels

- CSA certified to UL 924 standards with battery pack

- Damp location label standard

- Tested in accordance with ISO 14644-1; suitable for ISO Class 5–9 positive and negative pressure clean rooms

- NX is available in U.S., Canada and Mexico. For other locations consult factory

- UL Sanitation certified to NSF 2 Food Equipment standard for non-food zones

CERTIFICATIONS (CONTINUED)
- The DTS, Dimming Bypass Module, is for emergency circuit control loads including sensors and wireless systems UL certified to UL 924. See page 8 for wiring diagram.

- Adheres to LM79, LM80, and TM21 industry standards for photometrics and lifetime calculations

WARRANTY
- 5 year warranty

KEY DATA	
Lumen Range	2566–8995
Wattage Range	19–85
Efficacy Range (LPW)	94–145
Reported Life (Hours)	L70/54,000

Current

COL_SRP24_spec

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

Scaler™ 2x4 Panel
2'X4' EDGE-LIT FLAT PANEL

ORDERING GUIDE

Example: SRP24–35LWG–EDU–ELL14–NXE

CATALOG # [_____]

SRP24	–				–	G	–	

Model / **CRI** / **Color Temp** / **Lumen Output** — **Ceiling** — **Driver**

Model	CRI	Color Temp		Lumen Output			
SRP24 2' x 4' Scaler™ Panel Edge-Lit	Blank >80	**30** 3000K		**XW** 2566–2886	**ML** 4554–5123		
		35 3500K		**XWHE** 2617–2774	**MLHE** 4861–5152		
		40 4000K		**VW** 3094–3480	**HL** 5246–5902		
		50 5000K		**VWHE** 3288–3485	**HLHE** 5639–5976		
		3050T 3000–5000K		**MW** 3637–4091	**VL** 6812–7663		
				MWHE 3694–3914	**VLHE** 7075–7498		
				LW 4206–4732	**XL** 7996–8995 [1]		
				LWHE 4272–4528	**XLHE** 8474–8981		
				See Product Availability Table (page 4)			

Ceiling

G	Grid

Driver

ED	0–10V Dimming
ED1	0–10V 1% Dimming
EDD	0–10V Dim-to-Dark
ESD	Step Dimming
LUTH	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology [2,3]
LUTT	T-Series 1% 2-Channel Tunable White driver [2,3,4]

–		–			

Voltage — **Options** — **Control Options [12]** — **Accessories**

Voltage	Options	
U 120V–277V	**ELL14**	Emergency Battery Pack Installed, 1400 Lumens [3,5]
347 347V	**ELL14ST**	Emergency Battery Pack Installed, 1400 Lumens w/ Self Test [3,5]
	ELL14H2	Emergency Battery Pack, 2-Hour Run Time [3,5,6]
	DTS	Dimming Bypass Module [3,5,7]
	CP	Chicago Plenum
	GLR	Fast Blow Fuse
	C3xx	3-wire Flex [8]
	C4xx	4-wire Flex [8]
	C5xx	5-wire Flex [8]

Control Options [12]

NX Networked – Wired

NXE	NX Dual RJ45 SmartPORTs, without Sensor [3,8,9]

NX Networked – Wireless

NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,8,9]

Accessories

☐ FK24	2x4 Single Flange Kit (Shipped separately)
☐ PLRTS	Remote Test Switch Module [10]
☐ SRPSMK-24	2x4 SRP Surface Mount Kit (HE lumen packages available on) [11]
☐ CFPCM36Y SC5F-KIT	36" Cable Mount Kit for 1' or 2' wide Cable Mount fixtures, 5-wire

Notes:

1. Not available with emergency battery pack or DTS
2. Limitations apply based on lumen packages (see Product Exceptions & Details)
3. Not available in 347V
4. For use only with Lutron T series controls
5. For compatibility with Dual-Lite Litegear inverters, contact lighting representative
6. Not available for use in Canada
7. For emergency circuit control loads including sensors and wireless systems UL certified to UL 924. See page 6 for wiring diagram

NX In-Fixture Control Options:

8. For NX control and flex wire together consult factory
9. NX is not available with ESD, LUTH or LUTT driver options

Accessory Notes:

10. Use with emergency battery pack
11. Surface mount kit can not be used with NXW options

All Controls

12. Minimum ambient temperature: 0°C (32°F)

For questions about configuration options, contact lighting representative

PRODUCT EXCEPTIONS & DETAILS

Driver options listed below are available for the outputs as shown.

DRIVER AVAILABILITY TABLE																
	XW	XWHE	VW	VWHE	MW	MWHE	LW	LWHE	ML	MLHE	HL	HLHE	VL	VLHE	XL	XLHE
ED	X	X	X	X	X	X	X	X	X	X	X	X	X[12]	X	X[12]	X
ED1	X	X	X	X	X	X	X	X	X	X	X	X	X[12]	X	X[12]	X
EDD	X	X	X	X	X	X	X	X	X	X	X	X	X[12]	X	X[12]	X
ESD	X	X	X	X	X	X	X	X	X	X	X	X	X[12]	X	X[12]	X
LUTH	X	X	X	X	X	X	X	X	X	X	X	X				
LUTT	X	X	X	X	X	X	X	X	X	X	X	X				
347	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

12 Not available with thru-wiring

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CONTROLS

NX Lighting Controls:
Supports both indoor and outdoor applications in a variety of deployment options- wired, wireless, hybrid.
Integrates with and enables a wide array of luminaires including those with SpectraSync™ Color Tuning Technology.

NX LIGHTING CONTROLS

NX INTEGRATED CONTROLS REFERENCE								
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0–10V Dimming	On/off Control	Bluetooth® App Programming
NX Networked – Wired								
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC[1]
NX Networked – Wireless								
NXW[2]	N/A	Yes	Yes	No	No	Yes	Yes	Yes

1   NXBTC needs to be plugged into an available NX SmartPORT™ on the fixture network
2   To program NXW option, need to consult factory. If connected to an area controller, programming can be done from that
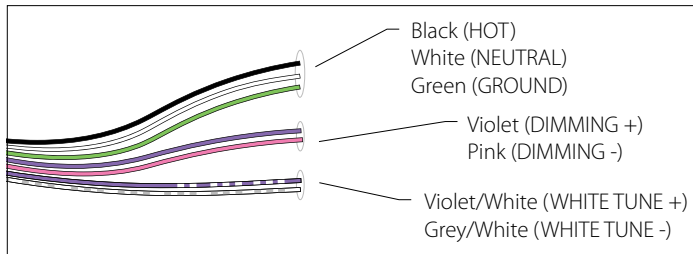
SpectraSync™ Color Tuning Technology:
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.

SpectraSync Color Tuning Technology

SPECTRASYNC COLOR TUNING TECHNOLOGY		
Mode	Kelvin Range	Description
Tunable White	3000K–5000K	Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space

SpectraSync Tunable White
3050T (3000K–5000K). Requires two 0–10V controllers, one for intensity and one for CCT. Minimum 5% dimming.

Black (HOT)
White (NEUTRAL)
Green (GROUND)

Violet (DIMMING +)
Pink (DIMMING -)

Violet/White (WHITE TUNE +)
Grey/White (WHITE TUNE -)

SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

Controller Manufacturer Data
SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:
- NX Lighting Controls Room Controller (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers

Color Tuning Profile
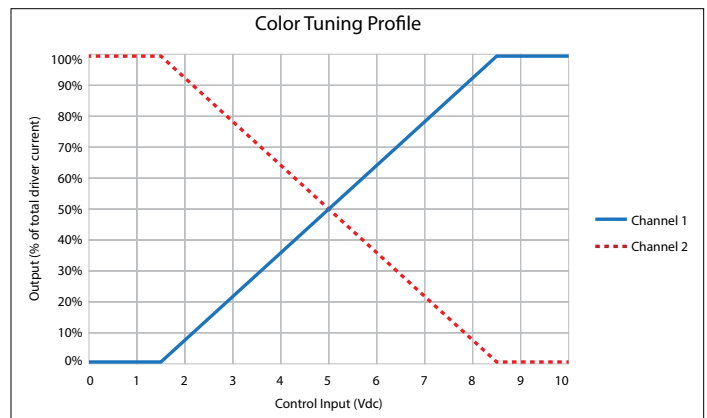
To enable scheduling and for use with NX wall control preset stations please refer to NX SpectraSync technical sheet.

Current

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Columbia LIGHTING

Scaler™ 2x4 Panel
2'X4' EDGE-LIT FLAT PANEL

SpectraSync™
Color Tuning Technology

DELIVERED LUMENS, SPECTRASYNC™

Lumen Output	Watts	3000		3500		4000		5000	
		Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
XW	22	2566	114	2672	119	2779	124	2886	129
VW	27	3094	113	3222	118	3351	122	3480	127
MW	33	3637	109	3788	114	3940	119	4091	123
LW	39	4206	108	4381	113	4557	117	4732	122
ML	45	4554	100	4744	104	4934	109	5123	113
HL	54	5246	97	5465	101	5683	106	5902	110
VL	69	6812	99	7095	104	7379	108	7663	112
XL	85	7996	94	8329	98	8662	102	8995	106

DELIVERED LUMENS

Product Availability			
Lumen Package	Lumens	Input Watts	LPW
SRP24-30XW-EDU	2566	22	114
SRP24-30XWHE-EDU	2617	19	134
SRP24-35XW-EDU	2672	22	119
SRP24-35XWHE-EDU	2652	19	136
SRP24-40XW-EDU	2779	22	124
SRP24-40XWHE-EDU	2739	19	141
SRP24-50XW-EDU	2886	22	129
SRP24-50XWHE-EDU	2774	19	143
SRP24-30VW-EDU	3094	27	113
SRP24-30VWHEG-EDU	3288	25	134
SRP24-35VW-EDU	3222	27	118
SRP24-35VWHEG-EDU	3331	25	136
SRP24-40VW-EDU	3351	27	122
SRP24-40VWHEG-EDU	3441	25	140
SRP24-50VW-EDU	3480	27	127
SRP24-50VWHEG-EDU	3485	25	142
SRP24-30MW-EDU	3637	33	109
SRP24-30MWHEG-EDU	3694	27	136
SRP24-35MW-EDU	3788	33	114
SRP24-35MWHEG-EDU	3742	27	138
SRP24-40MW-EDU	3940	33	119
SRP24-40MWHEG-EDU	3866	27	143
SRP24-50MW-EDU	4091	33	123
SRP24-50MWHEG-EDU	3914	27	145
SRP24-30LW-EDU	4206	39	108
SRP24-30LWHEG-EDU	4272	31	136
SRP24-35LW-EDU	4381	39	113
SRP24-35LWHEG-EDU	4329	31	138
SRP24-40LW-EDU	4557	39	117
SRP24-40LWHEG-EDU	4471	31	142
SRP24-50LW-EDU	4732	39	122
SRP24-50LWHEG-EDU	4528	31	144

Product Availability (continued)			
Lumen Package	Lumens	Input Watts	LPW
SRP24-30ML-EDU	4554	45	100
SRP24-30MLHE-EDU	4861	36	135
SRP24-35ML-EDU	4744	45	104
SRP24-35MLHE-EDU	4926	36	136
SRP24-40ML-EDU	4934	45	109
SRP24-40MLHE-EDU	5088	36	141
SRP24-50ML-EDU	5123	45	113
SRP24-50MLHE-EDU	5152	36	143
SRP24-30HL-EDU	5246	54	97
SRP24-30HLHEG-EDU	5639	42	133
SRP24-35HL-EDU	5465	54	101
SRP24-35HLHEG-EDU	5713	42	135
SRP24-40HL-EDU	5683	54	106
SRP24-40HLHEG-EDU	5902	42	140
SRP24-50HL-EDU	5902	54	110
SRP24-50HLHEG-EDU	5976	42	141
SRP24-30VL-EDU	6812	69	99
SRP24-30VLHEG-EDU	7075	54	130
SRP24-35VL-EDU	7095	69	104
SRP24-35VLHEG-EDU	7168	54	132
SRP24-40VL-EDU	7379	69	108
SRP24-40VLHEG-EDU	7404	54	136
SRP24-50VL-EDU	7663	69	112
SRP24-50VLHEG-EDU	7498	54	138
SRP24-30XL-EDU	7996	85	94
SRP24-30XLHE-EDU	8474	66	128
SRP24-35XL-EDU	8329	85	98
SRP24-35XLHE-EDU	8586	66	129
SRP24-40XL-EDU	8662	85	102
SRP24-40XLHE-EDU	8869	66	133
SRP24-50XL-EDU	8995	85	106
SRP24-50XLHE-EDU	8981	66	135

Current

COL_SRP24_spec

Columbia LIGHTING

Scaler™ 2x4 Panel
2'X4' EDGE-LIT FLAT PANEL

DIMENSIONS

GRID

47.75"
(1212.9mm)

2.5"
(63mm)

47.75"
(1212.9mm)

23.7"
(602mm)

1.0" (25.4mm)
(all sides)

SURFACE MOUNT

2.5"
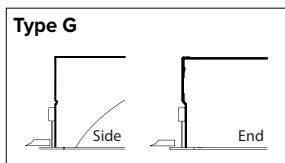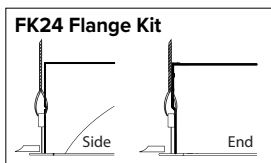(62.8mm)
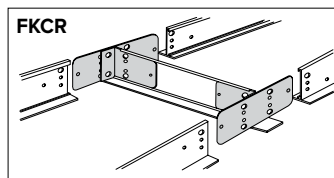
48.0"
(1218.6mm)

24.0"
(608.6mm)
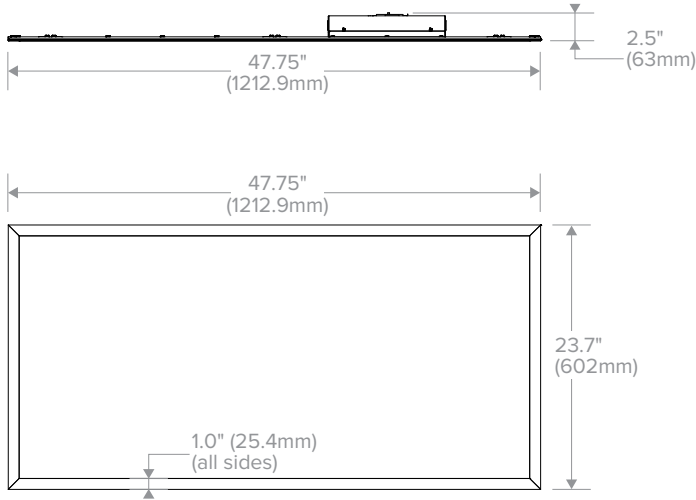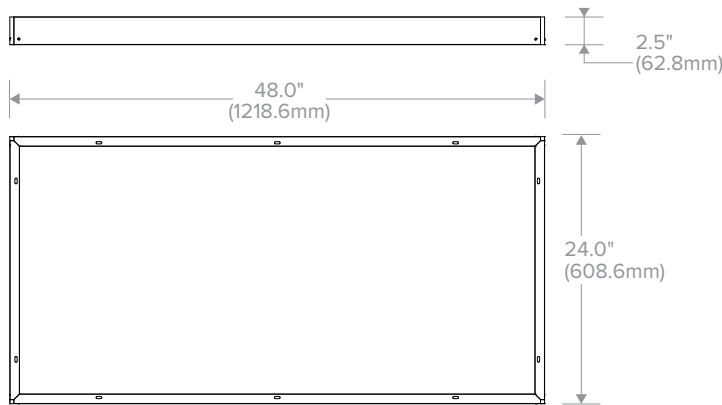
CEILING COMPATIBILITY

Type G

Side   End

For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed.

FK24 Flange Kit

Side   End

For hard ceiling applications, order FK24 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.

FKCR

For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK24 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK24 & (1) FKCR)

Row cut out dimensions using FK24s & FKCR adapters: Width 24⅜", Length [48" × (# in row)] + ⅜". Example: (48" × 2) + ⅜" = 96⅜"

Flange kit cut out dimension for single unit only: 24⅜" × 48⅜"

Current

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Columbia LIGHTING

Scaler™ 2x4 Panel
2'X4' EDGE-LIT FLAT PANEL

PHOTOMETRY

SRP24-35LW

LUMINAIRE DATA

Test No.	19.01992
Description	2' x 4' LED SRP Scaler Panel
Delivered Lumens	4384
Watts	38.88
Efficacy	113
Mounting	Recessed
Spacing Criterion	0° = 1.26 90° = 1.26

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–30	1179	26.9
0–40	1936	44.2
0–60	3441	78.5
0–90	4384	100.0
0–180	4384	100.0

POLAR GRAPH
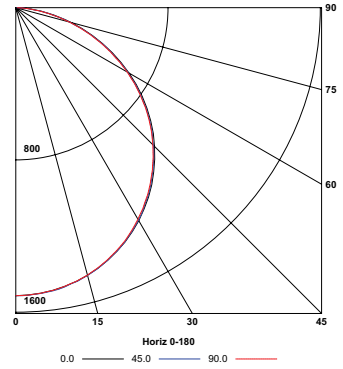
SRP24-35ML

LUMINAIRE DATA

Test No.	19.02072
Description	2' x 4' LED SRP Scaler Panel
Delivered Lumens	4746
Watts	45.42
Efficacy	104
Mounting	Recessed
Spacing Criterion	0° = 1.26 90° = 1.26

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–30	1277	26.9
0–40	2096	44.2
0–60	3726	78.5
0–90	4746	100.0
0–180	4746	100.0

POLAR GRAPH
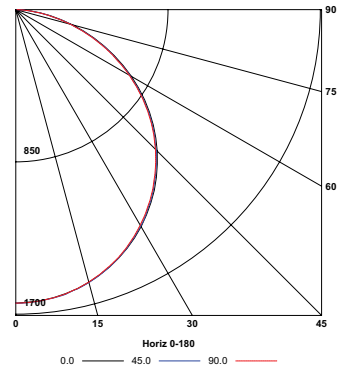
SRP24-35HL

LUMINAIRE DATA

Test No.	19.02160
Description	2' x 4' LED SRP Scaler Panel
Delivered Lumens	5468
Watts	53.84
Efficacy	102
Mounting	Recessed
Spacing Criterion	0° = 1.26 90° = 1.26

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–30	1471	26.9
0–40	2414	44.1
0–60	4291	78.5
0–90	5468	100.0
0–180	5468	100.0

POLAR GRAPH
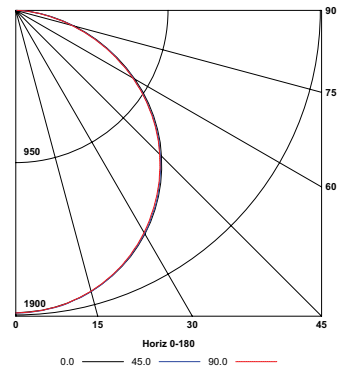
ADDITIONAL INFORMATION

DTS WIRING DIAGRAM (0–10V DIMMING DRIVER SHOWN)

WHITE/BLUE	Emergency Neutral
BLUE	Emergency Line
BLACK	Utility Line (Unswitched Hot)
WHITE	Utility Neutral
RED	Switched Hot
VIOLET	Dimming
PINK	Dimming

Current⊙