

Scaler™ 2x2 Panel

2'X2' EDGE-LIT FLAT PANEL

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

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



CONTROLS TECHNOLOGY



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)

- DLC® (DesignLights Consortium) Qualified, with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at www.designlights.org
- 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	1492–4746
Wattage Range	12–41
Efficacy Range (LPW)	103–142
Reported Life (Hours)	170/54,000

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ORDERING GUIDE

Example: SRP22-35LWG-EDU-ELL14-NXE

CATALOG #

SRP22							G		
Model	CRI	Color Temp		Lumen Output			Ceiling	Driver	
SRP22 2' x 2' Scaler™ Panel Edge-Lit	Blank >80	30	3000K	VW	1492–1678	ML	G Grid	ED	0–10V Dimming
		35	3500K	VWHE	1597–1692	MLHE		ED1	0–10V 1% Dimming
		40	4000K	MW	2071–2330	HL		EDD	0–10V Dim-to-Dark
		50	5000K	MWHE	2098–2224	HLHE		ESD	Step Dimming
		3050T	3000–5000K	LW	2643–2973	VL		LUTH	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology ^{1, 2}
				LWHE	2641–2799	VLHE		LUTT	T-Series 1% 2-Channel Tunable White driver ^{1, 2, 3}
				See Product Availability Table (next page)					

Voltage	Options	Control Options	Accessories
U 120V-277V 347 347V	ELL14 Emergency Battery Pack Installed, 1400 Lumens ^{2,4} ELL14ST Emergency Battery Pack Installed, 1400 Lumens w/ Self Test ^{2,4} ELL14H2 Emergency Battery Pack, 2-Hour Run Time ^{2,4,5} DTS Dimming Bypass Module ^{2,4,6} CP Chicago Plenum GLR Fast Blow Fuse C3xx 3-wire Flex ⁷ C4xx 4-wire Flex ⁷ C5xx 5-wire Flex ⁷	NX Networked – Wired NXE NX Dual RJ45 SmartPORTs, without Sensor ^{2,7,8} NX Networked – Wireless NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor ^{2,7,8}	<input type="checkbox"/> FK22 2x2 Single Flange Kit (Shipped separately) <input type="checkbox"/> PLRTS Remote Test Switch Module ⁹ <input type="checkbox"/> SRPSMK-22 2x2 SRP Surface Mount Kit (HE lumen packages available on) ¹⁰ <input type="checkbox"/> CFFCM36Y SC5F-KIT 36" Cable Mount Kit for 1' or 2' wide Cable Mount fixtures, 5-wire

Notes:

- Limitations apply based on lumen packages (see Product Exceptions & Details)
- Not available in 347V
- For use only with Lutron T series controls
- For compatibility with Dual-Lite Litegear inverters, contact lighting representative
- Not available for use in Canada
- 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:

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

Accessory Notes:

- Use with emergency battery pack
 - Surface mount kit can not be used with NXW options
- 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												
	VW	VWHE	MW	MWHE	LW	LWHE	ML	MLHE	HL	HLHE	VL	VLHE
ED	X	X	X	X	X	X	X	X	X	X	X	X
ED1	X	X	X	X	X	X	X	X	X	X	X	X
EDD	X	X	X	X	X	X	X	X	X	X	X	X
ESD	X	X	X	X	X	X	X	X	X	X	X	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
347	X	X	X	X	X	X	X	X	X	X	X	X

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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 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/R ¹
NX Networked – Wireless								
NXW ²	N/A	Yes	Yes	No	No	Yes	Yes	Yes

- 1 NXBTC/R 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:

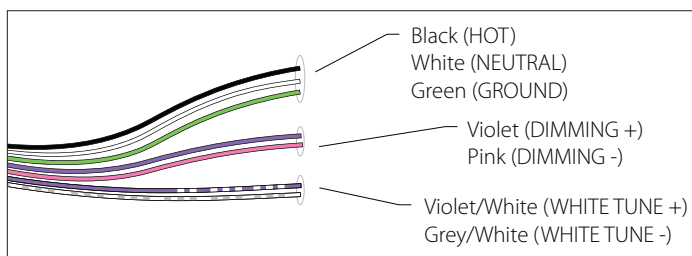
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



SPECTRASYNCH 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.

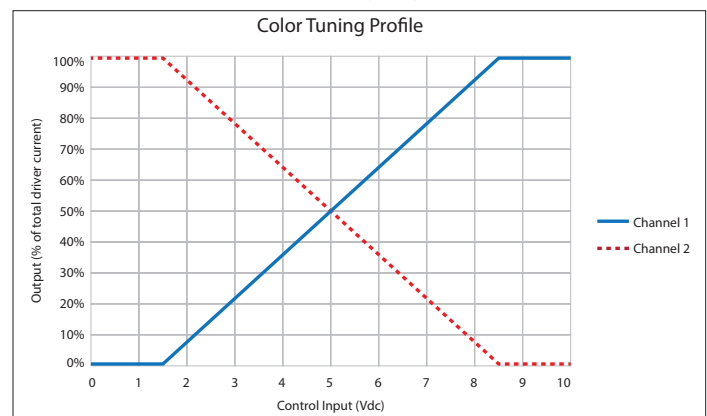


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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: DDTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



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

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DELIVERED LUMENS, SPECTRASYNC™



Lumen Output	Watts	3000		3500		4000		5000	
		Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
VW	13	1492	111	1554	115	1616	120	1678	125
MW	18	2071	113	2157	118	2243	122	2330	127
LW	23	2643	114	2753	118	2863	123	2973	128
ML	30	3062	103	3190	107	3317	111	3445	115
HL	33	3546	108	3694	112	3841	117	3989	121
VL	41	4218	104	4394	108	4570	113	4746	117

DELIVERED LUMENS

Product Availability			
Lumen Package	Lumens	Input Watts	LPW
SRP22-30VW-EDU	1492	13	111
SRP22-30VWHE-EDU	1597	12	130
SRP22-35VW-EDU	1554	13	115
SRP22-35VWHE-EDU	1618	12	132
SRP22-40VW-EDU	1616	13	120
SRP22-40VWHE-EDU	1671	12	136
SRP22-50VW-EDU	1678	13	125
SRP22-50VWHE-EDU	1692	12	138
SRP22-30MW-EDU	2071	18	113
SRP22-30MWHEG-EDU	2098	16	132
SRP22-35MW-EDU	2157	18	118
SRP22-35MWHEG-EDU	2126	16	134
SRP22-40MW-EDU	2243	18	122
SRP22-40MWHEG-EDU	2196	16	138
SRP22-50MW-EDU	2330	18	127
SRP22-50MWHEG-EDU	2224	16	140
SRP22-30LW-EDU	2643	23	114
SRP22-30LWHEG-EDU	2641	20	133
SRP22-35LW-EDU	2753	23	118
SRP22-35LWHEG-EDU	2676	20	135
SRP22-40LW-EDU	2863	23	123
SRP22-40LWHEG-EDU	2764	20	139
SRP22-50LW-EDU	2973	23	128
SRP22-50LWHEG-EDU	2799	20	141

Product Availability			
Lumen Package	Lumens	Input Watts	LPW
SRP22-30ML-EDU	3062	30	103
SRP22-30MLHE-EDU	3286	25	130
SRP22-35ML-EDU	3190	30	107
SRP22-35MLHE-EDU	3329	25	132
SRP22-40ML-EDU	3317	30	111
SRP22-40MLHE-EDU	3439	25	136
SRP22-50ML-EDU	3445	30	115
SRP22-50MLHE-EDU	3482	25	138
SRP22-30HL-EDU	3546	33	108
SRP22-30HLHEG-EDU	3571	27	134
SRP22-35HL-EDU	3694	33	112
SRP22-35HLHEG-EDU	3618	27	135
SRP22-40HL-EDU	3841	33	117
SRP22-40HLHEG-EDU	3738	27	140
SRP22-50HL-EDU	3989	33	121
SRP22-50HLHEG-EDU	3785	27	142
SRP22-30VL-EDU	4218	41	104
SRP22-30VLHE-EDU	4324	33	131
SRP22-35VL-EDU	4394	41	108
SRP22-35VLHE-EDU	4381	33	133
SRP22-40VL-EDU	4570	41	113
SRP22-40VLHE-EDU	4525	33	137
SRP22-50VL-EDU	4746	41	117
SRP22-50VLHE-EDU	4582	33	139

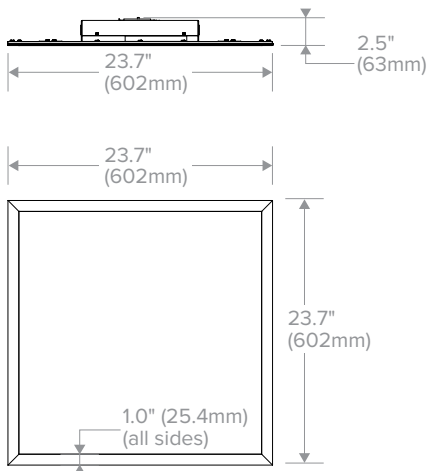
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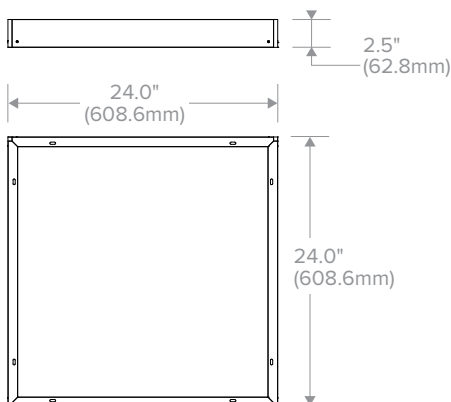
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DIMENSIONS

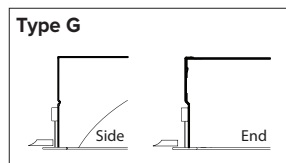
GRID



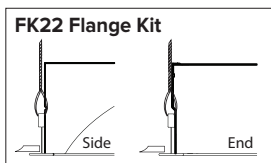
SURFACE MOUNT



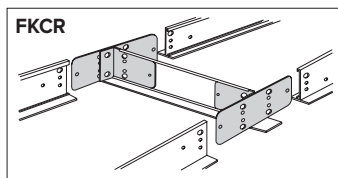
CEILING COMPATIBILITY



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



For hard ceiling applications, order FK22 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.



For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK22 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK22 & (1) FKCR)

Row cut out dimensions using FK22s & FKCR adapters:
Width $24\frac{3}{8}"$, Length $[24" \times (\# \text{ in row})] + \frac{3}{8}"$.
Example: $[24" \times 2] + \frac{3}{8}" = 48\frac{3}{8}"$

Flange kit cut out dimension for single unit only: $24\frac{3}{8}" \times 24\frac{3}{8}"$

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PHOTOMETRY

SRP22-35LW

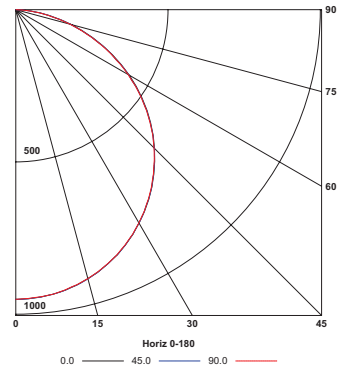
LUMINAIRE DATA

Test No.	19.02119
Description	2' x 2' LED SRP Scaler Panel
Delivered Lumens	2755
Watts	23.28
Efficacy	118
Mounting	Recessed
Spacing Criterion	0° = 1.26 90° = 1.26

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	741	26.9
0-40	1216	44.1
0-60	2161	78.5
0-90	2755	100.0
0-180	2755	100.0

POLAR GRAPH



SRP22-35ML

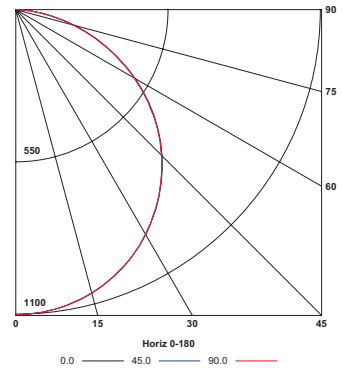
LUMINAIRE DATA

Test No.	19.01989
Description	2' x 2' LED SRP Scaler Panel
Delivered Lumens	3192
Watts	29.83
Efficacy	107
Mounting	Recessed
Spacing Criterion	0° = 1.26 90° = 1.26

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	858	26.9
0-40	1409	44.1
0-60	2504	78.5
0-90	3192	100.0
0-180	3192	100.0

POLAR GRAPH



SRP22-35HL

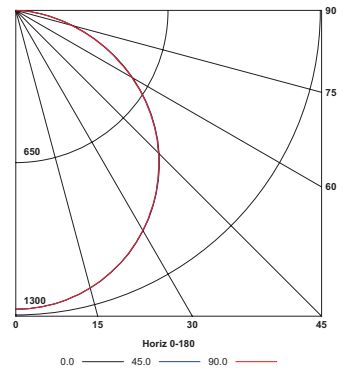
LUMINAIRE DATA

Test No.	19.02070
Description	2' x 2' LED SRP Scaler Panel
Delivered Lumens	3696
Watts	32.86
Efficacy	112
Mounting	Recessed
Spacing Criterion	0° = 1.26 90° = 1.26

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	994	26.9
0-40	1631	44.1
0-60	2900	78.5
0-90	3696	100.0
0-180	3696	100.0

POLAR GRAPH



ADDITIONAL INFORMATION

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

