

# EDUCATION FACILITY LIGHTING

**DESIGN GUIDE** Campus Lighting Solutions

K-12, College & University

### CLASSROOM/CORRIDOR/ATTRIUM/LIBRARY ECONOMY SOLUTION - COLUMBIA CBT BACKLIT PANEL



#### **CBT** Back-Lit Troffer

#### Affordable, Available, Adjustable

The CBT is an affordable LED lensed troffer with smooth, even illumination. With its LED energy saving technology, CBT is perfect for offices, classrooms and many other applications.

- Switchable Lumen technology: 4400/3300/2750 lumens (1x4 and 2x2) 5500/4400/3300 lumens (2x4)
- Switchable CCT technology: 3500/4000/5000K
- 1x4, 2x2, and 2x4 sizes
- 0-10V 1% Dim to Off driver (standard) provides superior dimming capabilities
- Tested in accordance with ISO 14644-1; suitable for ISO Class 4-9 positive

and negative pressure clean rooms IC rated

- Back-lit design and frosted lens provides smooth, even illumination across the face of the luminaire
- All CBT LSCS Generation A units are priced as single units and must be ordered as single units. Two packaging options are available



Switchable technology: Switchable Lumen and Switchable CCT Technology allows for easy field-adjustable lighting output with switch located on back of panel.

FEATURES

1X4

2X2

#### **CLASSROOM/CORRIDOR/ATTRIUM/LIBRARY** VOLUMETRIC TROFFER SOLUTION

Columbia LIGHTING	 				С	urr	en	t 🔘
<b>LCAT-LSCS</b> LED Contemporary Architectural troffer			7	1'x2' A small scale, attractive option for corridors, conference rooms, recepti desks and architectural insets.				
			-	1'x4' This slee seamles				gns.
				2'x2' Add quie spaces v modular	vith the	simplicit	y and	I
				2'x4' Replace for new i appealin	nstallat	ions with	this	-
	Setting	1	Lumen	c			LPW	
Catalog No. UPC Description	octing	, 3500К	4000K	5000K	Watts	3500K	4000K	5000K
LCAT14-LSCS 840141424002 1x4 LED Contemporary Ar Lumen Switchable, CCT S	LOW MED HIGH	3946 4837 5340	4381 5547 6295	4224 5180 5774	32 42 50	125 115 107	147 140 135	136 125 117
LCAT22-LSCS 840141423340 2x2 LED Contemporary Ar Lumen Switchable, CCT S	LOW MED HIGH	2642 3008 3764	2929 3387 4460	2872 3272 4124	21 25 35	126 120 108	139 135 127	137 131 118
LCAT24-LSCS 840141423364 2x4 LED Contemporary Ar	LOW MED	3964	4424	4285	32	126	140	136

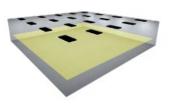
MED

HIGH

-ELL14 (Emergency Battery Pack Installed. 1400 Lumens) or -C588 (5-wire Flex) options are available for order.

Lumen Switchable, CCT Switchable, 120-277V

#### TYPICAL CLASSROOM LAYOUT COLUMBIA LCAT



LCAT24 PERFORMANCE	
Room Size (L x W)	40' x 40'
Number of Luminaires	20
Workplane, horizontal	2.5'
Reflectances	80/50/20
Light Loss Factors	1.0/0.90/0.90

Mounting Height	OC Spacing	Lumen Package	Fixture Lumens 3500K CCT	Avg fc 2.5'	Max/Min	Avg/Min	Fixture Watts	LPD
9'		XW	2420	23fc	2.6	2	19.1	0.24
	8' x 10'	VW	3216	30fc	2.6	2	27.6	0.35
	0 x 10	MW	3462	33fc	2.6	2	30.2	0.38
		LW	4394	42fc	2.6	2	36.4	0.46
		ML	4912	46fc	2.6	2	38.8	0.49
14'		HL	5604	45fc	2.1	1.7	44	0.55
20'		VL	7205	47fc	2.1	1.7	59	0.74
25'		XL	8408	47fc	2	1.6	73.8	0.92

#### **CLASSROOM/CORRIDOR/ATTRIUM/LIBRARY** 1x4,2x4,2x2 VOLUMETRIC TROFFER SOLUTION



	Dimensions - Imperial										
	Size	L	W	Н							
I	14G	47.95"	11.85″	3.25"							
	22G	23.95"	23.90"	3.25"							
	24G	47.95"	23.90"	3.25"							

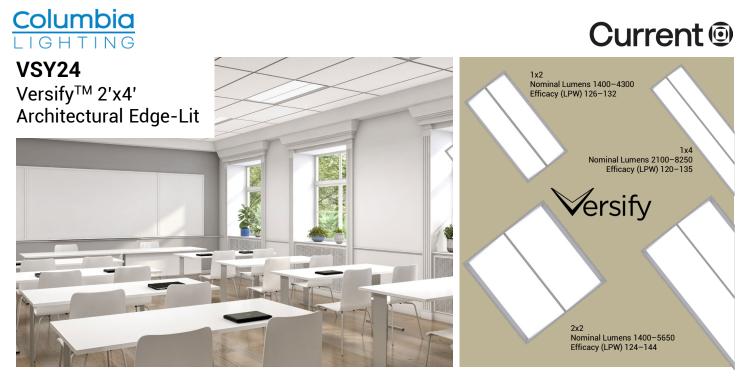
BOTTOM VIEW

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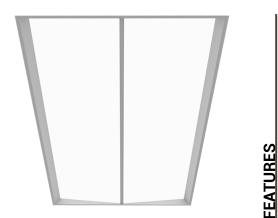
\*Other sizes available, consult factory.

# CLASSROOM/OFFICE/LIBRARY

ARCHITECTURAL EDGE LIT TROFFER – COLUMBIA VSY SERIES



# Versify



- Architectural styling in an edge-lit luminaire
  - High efficiency acrylic lens featuring edge lit technology
- Ideal for offices, schools, medical, and public spaces
- Available in trendy matte
  black finish
- Stylish controls integration
- Wet location option available
- 2" overall depth, 2 1/4" with emergency battery pack option
- Surface mount kit available as an accessory
- Up to 150 lumens per watt



#### **CONTROLS TECHNOLOGY**





Typical Dimensions and Weights							
Size	2x4						
(A) Length Inches (mm)	47.75 (1213)						
(B) Width Inches (mm)	23.75 (603)						
(C) Height Inches (mm)	2.00 (51)						
Weight lbs (kg)	15.0 (6.8)						

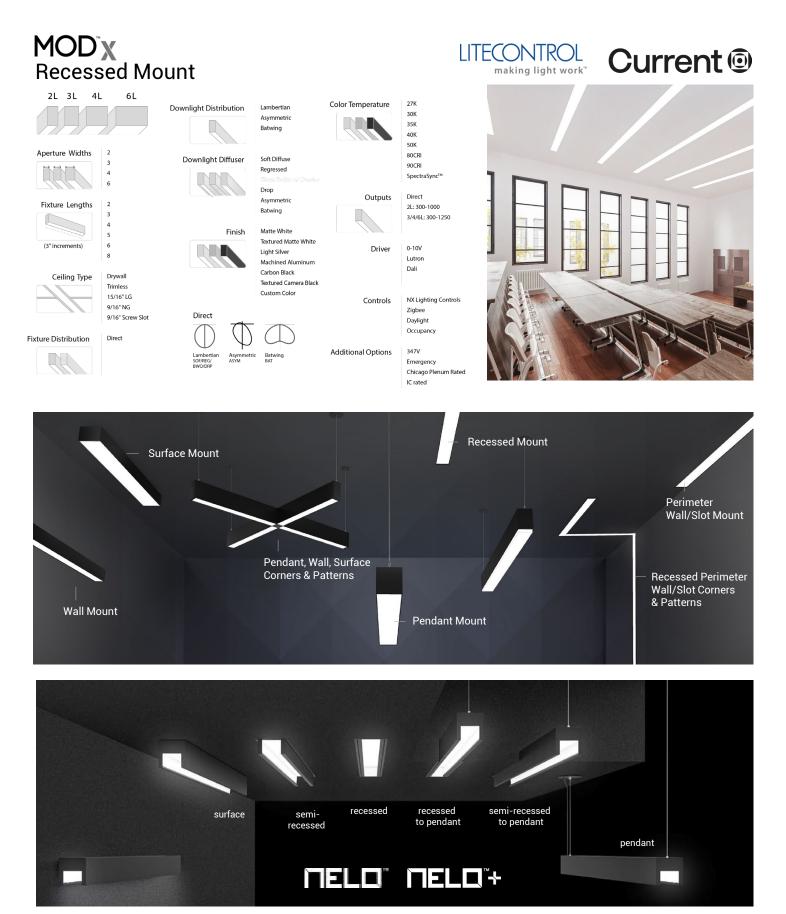
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# **CLASSROOM/OFFICE/LIBRARY** DIRECT/INDIRECT LINEAR SYSTEMS





# LECTURE THEATER/LIBRARY ARCHITECTURAL RECESSED-SURFACE-PENDANT LINEAR



## CLASSROOM/CORRIDOR/ATTRIUM/LIBRARY ARCHTECURAL LINEAR WRAP

#### LITECONTROL

# **Current**

making light work" 67L-P-D Note LED Pendant Direct

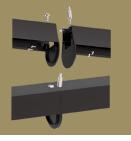


# Variable Intensity®

- Technology
  SpectraSync<sup>™</sup> Color Tuning Technology available
- Up to 127 LPW
- Output range from 550-2000 lumens/ft Pendant, Surface & Wall Mount Removable Lens



**Row Mounting** Row connection is simple and straightforward, with a









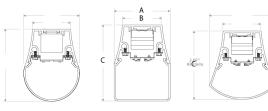
- Variable Intensity technology provides a range of
- specifiable outputs and resulting fixture wattages
- FEATURES 2 SDCM color consistency
  - Up to 127 LPW efficacy •
  - Output range from 550 to 2000 lumens/ft •
  - Removable Lens for ease of accessibility and installation



#### CONTROLS TECHNOLOGY



**QS**10



Dome

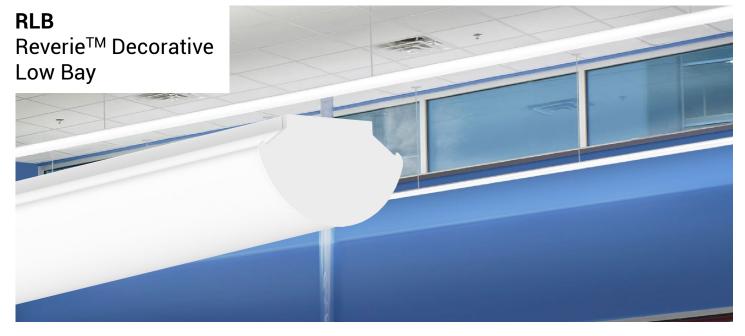
Square

Bell

## CLASSROOM/CORRIDOR/ATTRIUM/LIBRARY LINEAR WRAP



# Current



#### **Unified Appearance in Different Applications**



Medium Distribution

FEATURES

Narrow Distribution

Stack/Aisle Distribution

#### Light Delivered Exactly Where You Need It

With its medium, narrow and aisle/stack distribution options, Reverie offers lighting solutions for a variety of spaces. Optional uplight, available up to 4,000 lumens, removes "the cave effect" by pleasantly illuminating your ceilings.



**Medium Distribution** Mid-range, diffused path of light • General lighting



• Work spaces



**Narrow Distribution** Concentrated channel of light Auto service areas

 Manufacturing stations



Stack/Aisle Distribution **Bidirectional paths** of light Library bookshelves

Store aisles

for standalone and networked integrated sensor with wired or wireless connectivity for NX system deployments

NX Lighting Controls provides options

Three photometric distributions: Medium, Narrow and Aisle/Stack

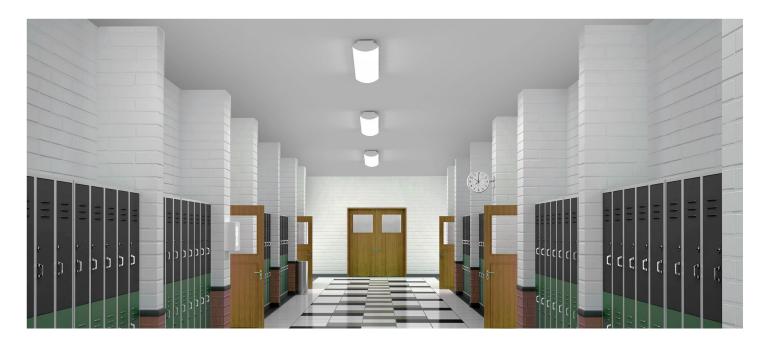
or row mount applications Optional SpectraSync<sup>™</sup> offers two modes of tunable white solutions and integrates seamlessly into a variety of

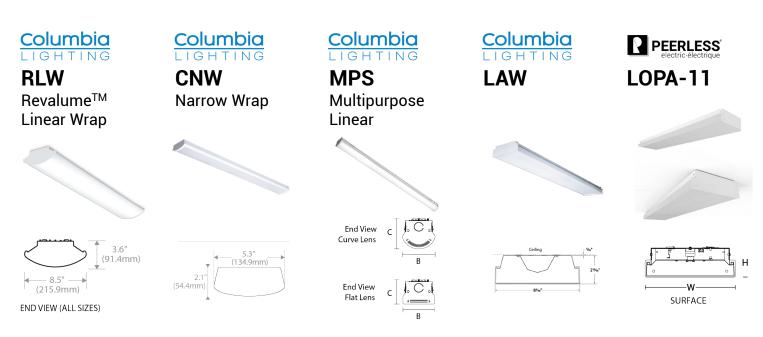
control systems

Available in 4' or 8' standard lengths

Optional integral emergency battery pack for backup-required applications Uninterrupted ribbon of light for single

### **CORRIDOR /MAINTENANCE ROOMS** LED WRAPS





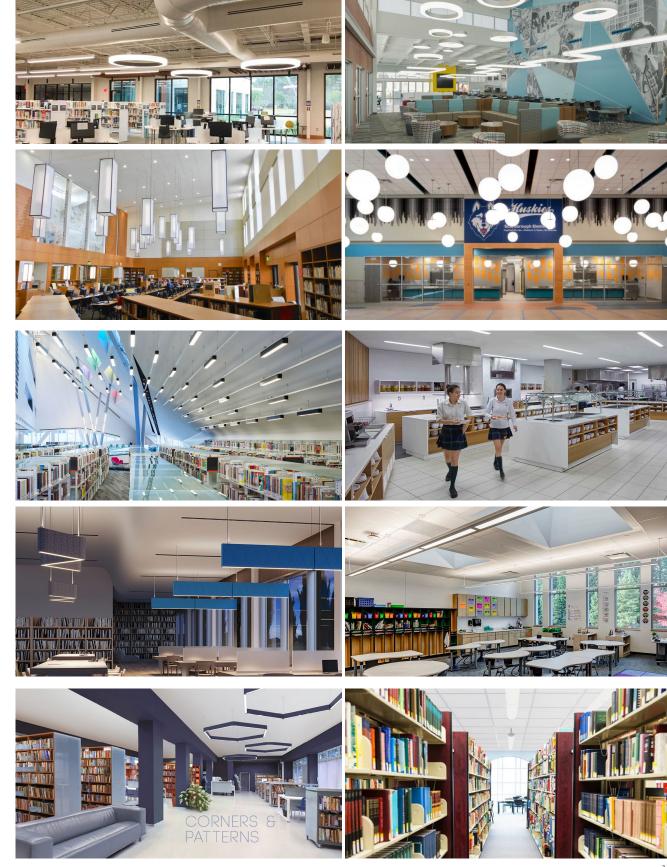


# LIBRARY INSPIRATIONS



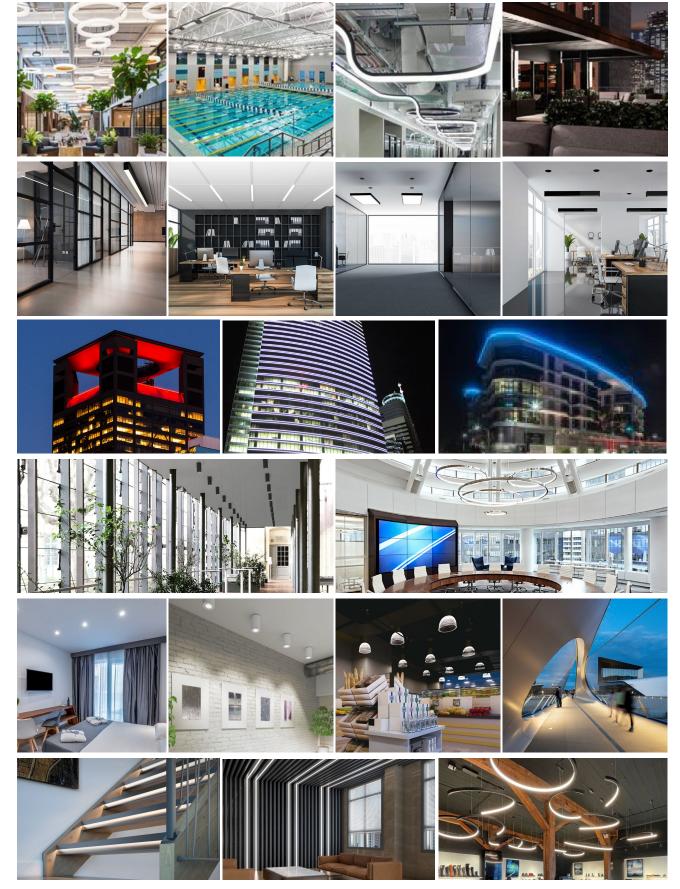


LITECONTROL making light work"



# **ARCHITECTURAL LIGHTING PARTNERS**

**SPI**LIGHTING **PEERLESS**<sup>electric-électrique</sup> LUMEN alphabet ARANCIA. ACCLAIN WARM LIGHTING



# **DOWN LIGHT/CYLINDER COLLECTION**





**NU1RD PRO** 

**CYLINDERS** 



BETA 3 3" Cylinder Warm Dim





**NU3RD PRO** NU2RD PRO 2 inch - R Round - D Downlight3 inch - R Round - D Downlight



BETA 4" Square Warm Dim



BETA 6" Cylinder Warm Dim



NU4RD PRO 4 inch - R Round - D Downlight

# **DOWN LIGHT/CYLINDER COLLECTION**

FULL LITEISTRY FAMILY	DOWNLIGHT			WALL WASH		ADJUSTABLE		CYLINDER					
													_
3″	Very N	Narrow	Very N	Narrow	Single		Open Pinhole	Open	Surface Cord	Pendant Wall	Surface Cord	Pendant Wall	
UP TO	Narrow	Medium	Narrow	Medium	Double Corner		Lensed	Slot 15° 25° 35° 45°	15° 25° 35° 45°	Downlight			
2000 lm	Wide	Extra Wide	Wide	Extra Wide			10 20 30 40	10 20 33 40	Wall	Wash	Downlight		
4"	Very N	Varrow	Very N	Narrow	Cinala			Open Pinhole Slot 15° 25° 35° 45°	Open 15° 25° 35° 45°	Surface	Pendant	Surface	Pendant
	Narrow	Medium	Narrow	Medium	Single Double Corner		Lensed			Cord	nlight	Cord	Wall
ир то 4000 lm	Wide	Extra Wide	Wide	Extra Wide	Corner							nlight	
6″	Very N	Narrow	Very N	Narrow				Open	Open	Surface	Pendant	Surface	Pendant
	Narrow	Medium	Narrow	Medium	Single Double	Lensed	Lensed	Pinhole Slot	15° 25° 35° 45°	Cord	Wall	Cord	Wall
ир то 9000 im	Wide	Extra Wide	Wide	Extra Wide	Corner	rner		15° 25° 35° 45°		Downlight Wall Wash		Downlight	

prescolite LITEISTRY

Architectural - Solutions that blend consistent, quiet apertures with optical performance



Commercial - High performance luminaires that provide versatility in application



Essential - Value product families that combine flexibility with simple installment

#### **ATHLETIC CENTERS- GYMNASIUM** RUGGED – HEAVY CONSTRUCTION – HIGH OUTPUT-WIRE GUARDS

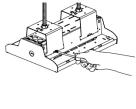






ABV4 Series LED High Bay Lighting









**GP-15** Gymnasium, Protective 15" width



**GP-HB** Gymnasium, Protective, High Bay



LED luminaire for surface or suspended installation. Ideal for gymnasiums, recreational areas and other commercial environments.



# **AQUATIC CENTERS- NATATORIUM RATED Pool Lighting Systems**

#### Metalumen Ideas brought to light

The NATA provides general lighting while seamlessly blending within the designed natatorium space.

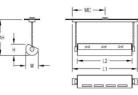
Designing for such a large, reflective space can be a challenge for designers. Factors to be considered include aesthetics, roof structure, level of illumination, height of the luminaires, maintenance, code requirements and the amount of direct and reflected glare from all contributing light sources including daylight.

- up to 122 LPW
- 80+ CRI is standard with option of 90CRI
- offered in both indirect and
- FEATURES direct/indirect distribution



Echo Round 9.0 LED - Pendant





**Lightruss Rail** 

# **SPI**LIGHTING

Lightruss LED Gen 2 -New



#### Metalumen Ideas brought to light

**Rail 4 Outdoor** RM4D0D





- Wet Location rated
- IK10 rated with polycarbonate lens only
- Vandal resistant
- hardware Inverse mullion mount

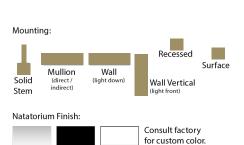
FEATURES

- option for indirect distribution
- Suitable for natatoriums and healthcare labs









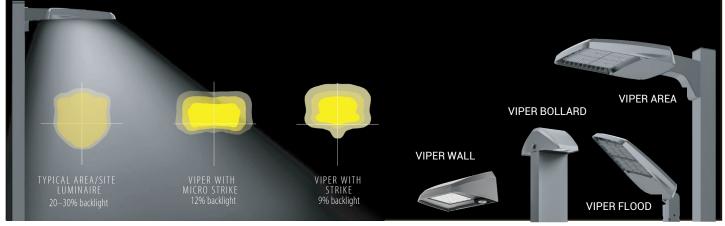


# **EXTERIOR SITE LIGHTING**

# RATIO AREA/SITE Flood Wall Bollard Flood Wall Control of the second se

#### VIPER PERFORMANCE

VERSATILITY





#### KIMLIGHTING Pavilion Impact | Pedestrian Safe | Traffic Barrier | Lane delineation for cyclists



# **SPORT FIELD LIGHTING**







**Retrofit Solution** 



**Standard yoke mounting** with single 3/4" bolt. Yoke also includes vertical aiming indicators, adjustable in 5 degree increments. Fixture is 3G vibration rated.

Lumen outputs up to 114,000 lumens and 153 LPW give superior performance to legacy products and provide additional energy savings.

Visor and Laser aiming accessories available and can be field installed.



The Turf Sports Lighter is designed to replace 1500W HID products 1 for 1 and even has the capability of reducing fixture count which can result in more than 54% energy savings. This doesn't include additional savings from reduction in maintenance costs and sustained lighting levels. Upgrading your sports lighting has never been so easy!

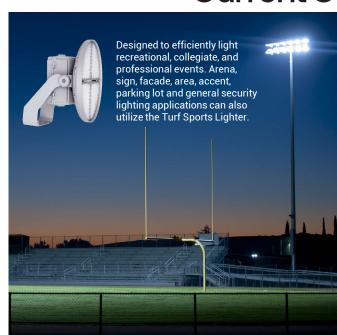


1000w-1500w HID to LED LAMP RETROFIT



**Ballfield Benefits from an LED Lamp Upgrade** GE lamps high output BT56 Case Study











#### EMERGENCY LIGHTING ABB Emergi-Lite

A global manufacturer of emergency lighting and exit signs for the specification markets, Emergi-Lite provides products using innovative technologies designed for permanence, reliability and cost efficiency to met the highest standards in the industry.





**Nexus Monitoring System** Emergency Lighting Exit Sign and Battery Unit Monitoring and testing system.



EA Series -Extruded Aluminum Picotogram



EAC Series -Aluminum Combination Unit



EN Series -NEMA-4X Rated Pictogram



ENC Series -NEMA-4X Rated Combination Unit



EX10 Series -Economical and good quality



EX10-P Series -Economical Combination Unit



EXP Series -For any hazardous locations



EX3 Series -Slim, modular, state-of-the-art



Eclipse Series -Full automatic emergency lighting



EXHZ Series -Hazardous Locations Combo Unit



EAE Series -Aluminum Slim Edge-Lit



ESL Series -High Performance Long Life Battery



EMEX -Emergency Power Battery System



CH Series -Central DC Systems



# Current 🐵

#### INSPIRE

It's time to breathe exciting new life into your old fixtures.

Current's LED Replacement lamps are the best way to achieve superior lighting on a budget. Slash operating and maintenance costs while vastly improving the color and quality of light in virtually any setting – commercial, industrial, office or retail. Visit us online and check out our vast collection of case studies, videos and image galleries at www.gecurrent.com, and then call your Current representative for a free personal consultation. Below you will find a few of the dependable LED products that Current offers.



#### LED GENERAL PURPOSE

Dimmable LED A-Line lamps that replace standard INC lamps.



LED TUBES Our complete line of Type A, Type B and Type C solutions make it easy to convert from LFL to LED.



**LED HID** Type B LED HID ANSI standard lamps designed for many applications.



LED PLUGIN Long life LED plug-ins to replace existing CFL lamps.



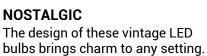
LED DIRECTIONAL

Dimmable LED lamps designed for a wide variety of applications.



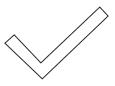
LED REPLACEMENT LAMPS Decorative Lamps.







#### WHY CURRENT?







#### COMPLETE

#### INNOVATIVE

#### TRUSTED

## BOUNDLESS SOLUTIONS One Platform



# Introducing NX Site Manage – A new, on-premise enterprise lighting control platform.

Site Manager empowers users to improve operational efficiencies for NX connected lighting and smart buildings. Intuitive dashboards provide energy, floor plan, and device management to enable actionable insights.





#### Integrated Control Indoor Luminaires Look Up Guide

		D	Downlighting							
		Kurt Versen	Presc	olite						
	$\bigcirc$		2							
MODs	Brand (88L)	Flow (91L)	Note (67L)	NELO ™ (70L, 75L)	SAE100 (101, 102, 103, 104, 105, 106)	Noni ™ Lite	istry™ Lite	eFrame®		
		Strip	Strip Surface Mount							
Litecontro	l Col	umbia Lighti	ng	Lite Shie	eld	Columbia Lighting				
		76	><		- 11					
Ryvl (55L)	Versify™ Scale (VSY) (SR		LCAT-S	в тсат	Kloven (KLO)	MPS	Esc	clate™ (ESL)		
		Wall M	ount		Hig	jh & Low Bay Lig	hting			
Columbia	Lighting	Lite Shi	eld		Columbia Lighting					
CWM	Revalume™ (RLW)	Wall 3 (W3B)	Preve (PVN				Jtilibay™ (UTB2)	Reverie™ (RLB)		



# **TYPICAL DIGITAL CLASSROOM**



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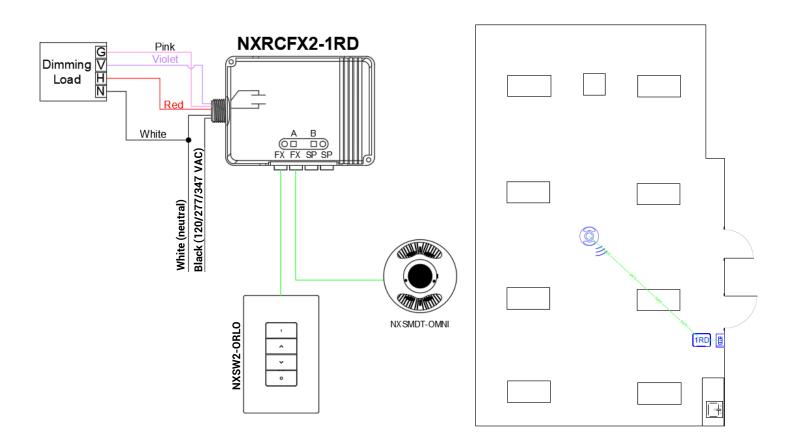
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- Sensor dims lights to specified level upon occupancy.
- Sensor dims lights to specified level upon . vacancy.
- Light Shut off after timer expires.
- <u>S.O.</u>0 Light levels are adjustable via wall switch.

•	NXRCFX-1RD-UNV

NXSW2-ORLO-UNV

NXSMDT-OMNI





<u>S.0.0</u>

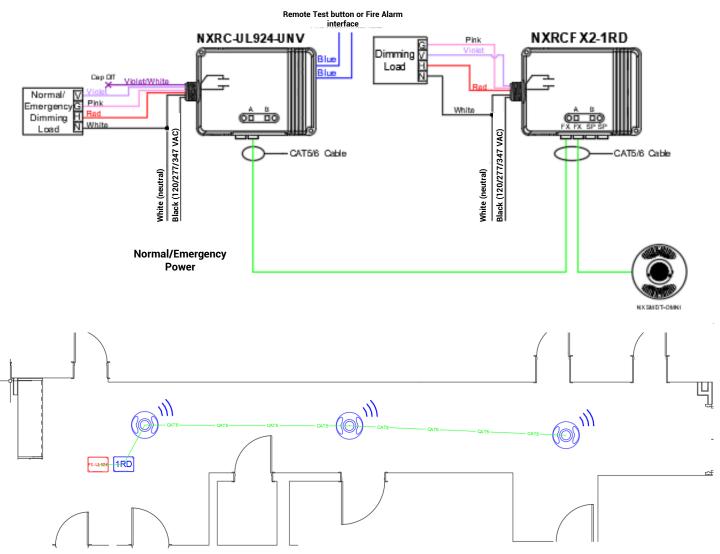
# **TYPICAL CORRIDOR**



- Sensor turns lights to 100% upon occupancy.
- Sensor dims down to 25% upon vacancy.
- Upon emergency state (power loss, fire
- alarm, etc.) lights are set 100% and
- sensors are bypassed.

S	•	N
5	•	N
Ъ.	•	N

- NXRCFX-1RD-UNV
- NXSMDT-OMNI
- NXRCFX-UL924-UNV





Current @	Current@	GE LAMPS & BALLAST	💦 ALBEO	architectural arealighting	BEACON	Columbia		EVOLVE
	FORUM	immersit in		kurt versen	lifeshield	LIGHTGRID	LIGHT <b>SWEEP</b>	LITECONTROL making light work"
💥 Lumination		prescolite	LIGHTING	Spectra <b>Sync</b>	<b>Tetra</b>	WHITEWAY	ABB Emergi-Lite	Hazlux
		aluce	Amico	ARANCIA	ARKANSAS LIGHTING STAY ILLUMINATED	BETHEL	bios	BLU Ecosystem
Bold	BOCCI	6 bruck	BubblyNet	CASTALDI	Christie Lites		DARK	***** ***** ****
Everbrite	ewo	FERRO		©GHIDINI	<u>GMLighting</u>	HINKLEY	CANADA Pure Outdoor Lighting	
	a LARK	Light <b>Tape</b>	LUCITALIA MILANO		LUM N WARM	Luminart	LuxR	
IN Metalumen Ideas brought to light	MODERN FORMS	New Star		PEERLESS electric-électrique	PRIMA	+PROGRESS +LIGHTING"	REFRESH	2
selux	<b>SPI</b> LIGHTING		Architectural Lighting		valmont∛	Vesoi	WAC LIGHTING Responsible Lighting	

**Showroom Lighting Center:** 26 Glebe Street, Cambridge, Ontario, N1S 2P1 Open: Monday – Friday 9:00 a.m. to 5:00 p.m.

Tel: 519-267-6262 **Email:** sales@gslightinggroup.ca **Website:** www.gslightinggroup.ca



Book a design meeting, lighting audit or lighting seminar today!