Connected Buildings
Product Selection Guide



COOPER
Lighting Solutions

Metalux

Celebrating 50+ years, Metalux offers an extensive line of LED lighting products including recessed, linear and industrial fixtures.

Metalux's complete family of luminaires are dedicated to the latest solid state lighting and driver technology for optimal performance and energy efficiency.

Metalux delivers innovation, quality, product availability, and responsiveness all with an affordable value proposition.

The product selection guides are simple yet powerful tools to help assist with product comparisons and selection based on features, performance and value.

2 **Commercial LED -** Recessed Ambient
3 **Commercial LED -** Linear
4 **Commercial LED -** Surface
5 **Specification LED -** Recessed
6 **Industrial LED -** High Bay
7 **Industrial LED -** Vaportite

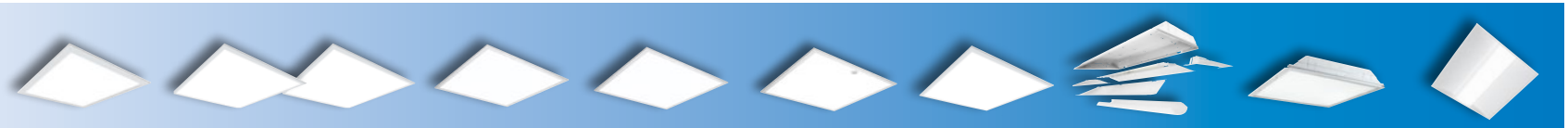






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		Panels							Retrofit Kit	Troffers	
		Backlit CGT	Backlit CGTS	Backlit CGTS NUV [2]	Edgelit FP	Edgelit FPS	Edgelit FPX	Edgelit CGTX	Center Basket CBRK	Flat Lens GR	Center Basket Cruze ST
APPLICABILITY[1]	Education	★★★	★★★		★★★	★★★	★★★	★★★	★★★	★★★	★★★
	Office	★★	★★		★★	★★★	★★★	★★★	★★	★★	★★★
	Healthcare	★	★★		★	★	★★	★★	★	★★	★★
	Retail	★★	★★		★★★	★★★	★★★	★★★	★	★★	★★★
FEATURES / PERFORMANCE	Sizes	1x4, 2x2, 2x4	2x2, 2x4	1x4, 2x2, 2x4	1x4, 2x2, 2x4	1x4, 2x2, 2x4	1x4, 2x2, 2x4	1x4, 2x2, 2x4	1x4, 2x2, 2x4	1x4, 2x2, 2x4	1x4, 2x2, 2x4
	lm/W (Max)	115	137	130	136	120	130	146	168	140	157
	Lum (Max)	5,300	6,900	6,000	7,000	6,500	6,400	10,000	4,700	18,000	17,000
	Life (@60K)	L84	L86		L86	L87	L87	L88	L85	L89	L90
	Lens	Frost, Smooth	Frost, Smooth		Frost, Smooth	Frost, Smooth	Frost, Smooth	Frost - Smooth, Prismatic	Frost, Ribbed	Frost, Prismatic	Round or Square, Frost - Ribbed or Smooth, Perf Inlays
	Emergency	Remote	Remote		Remote	Remote	Integrated	Integrated	Integrated	Integrated	Integrated
	CRI	80+	80+		80 / 90	80+	80+	80+ / 90+	80+	80+	80+ / 90
	Sensor Location	Tile Mount	Tile Mount		Tile Mount	Tile Mount	Integrated	Integrated	Integrated	Integrated	Integrated
	DLC	Standard	Standard		Premium	Standard	Premium	Premium	Premium	Premium	Premium
	Door	No	No		No	No	No	No	None	Yes	Yes
	Lumen / CCT Select	No	Yes		No	Yes	No	No	No	No	No
	VividTune™	No	No		No	No	No	No	No	Tunable White	Tunable White
INTEGRATED CONTROLS	WaveLinx Lite						✔	✔	✔	✔	✔
	WaveLinx						✔	✔	✔	✔	✔
	DLVP						✔	✔		✔	✔

Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable. 2. Canadian market only.

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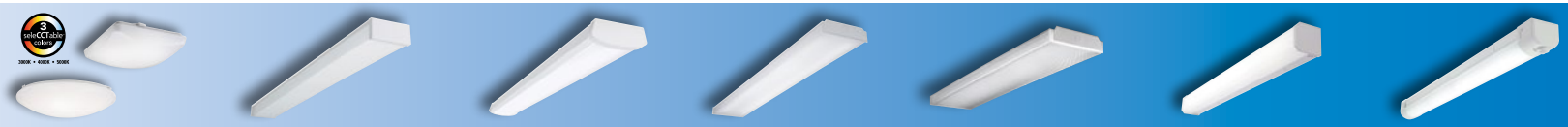
		SLES [2]	ST	ST2 DIM	SLSTP	SSRK Retrofit	SNLED	SRL	SWLED	WSL
APPLICABILITY [1]	Education	★★	★	★★	★★★	★	★★★	★★★	★★★	★★
	Office	★	★	★★	★★★	★	★★★	★★★	★★★	★★★
	Healthcare				★	★	★★	★★	★	★★
	Retail	★★★	★	★★	★★	★★★	★★★	★★★	★	★★★
	Industrial	★★	★★	★★	★★	★★★	★★★	★★★	★★	★★
	Residential		★★★		★★					
FEATURES / PERFORMANCE	Length	4', 8'	2', 4', 8'	2', 4', 8'	2', 4', 8'	4', 8'	2', 4', 8'	4', 8'	4'	4', 8'
	lm/W (Max)	167 (8ft)	108	122	148	159	150	149	150	121
	Lum (Max)	8,700	9,200	9,200	11,900	8,000 / 4 ft.	17,000	11,000	8,000	16,000
	Life (@60K)	L70/50K [3]	L70/50K	L70/50K	L70/50K	L94	L87	L82	L91	L81
	Dimming	N/A	No	0-10V	Triac or 0-10V	0-10V	0-10V, Step, Dali	0-10V, Step, Dali	0-10V, Step, Dali	0-10V, Step, Dali
	Lens	None [4]	White, Single or Dual Lens	White, Dual Lens	Diffuse, Poly	Frost, Acrylic	Frost, Acrylic	Frost, Acrylic	(Vandal Resistant) Frost, Acrylic	WaveStream, Acrylic
	Emergency	Integrated	None	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
	CRI	80+	80+	80+	80+	80+	80+	80+	80+	80+
	Sensor Location	Remote	Remote	Remote	Sensor Kit	N/A	Integrated	Integrated	Integrated	Integrated
	DLC	Standard (TLED Lamps only)	Standard	Standard	Standard	Premium	Premium	Premium	Standard	Standard
	Lumen / CCT Select	No	No	CCT	CCT/Lumen	No	No	No	No	No
INTEGRATED CONTROLS	Basic Occupancy				✔	✔	✔	✔	✔	✔
	Stand Alone Daylight / Occupancy					✔	✔	✔	✔	✔
	WaveLinx Lite							✔	✔	✔
	WaveLinx							✔	✔	✔
	DLVP									✔

Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable. 2. w/T8 LED lamps included. 3. TLED lamp tested to B50 L70 requirement. LED lifetime means the length of time (in hours) until half of the LED light sources maintain at least 70% of their initial lumen output (B50, L70). 4. TLED CorePro lamp is glass tube. TLED MasterClass lamp is shatter resistant plastic.

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		FM CCT	WP	NWS	WNLED	WSNLED	BCLED	SWLED
APPLICABILITY[1]	Education	★★	★★	★★★	★★★	★★	★★	★★★
	Office	★	★	★★	★★	★★★	★	★★★
	Healthcare	★	★	★	★	★★	★★	★
	Retail	★★	★	★★	★	★★★	★	★
	Industrial		★	★	★★			★★
	Residential	★★★	★★★		★	★		
FEATURES / PERFORMANCE	Sizes	9", 11", 15", 19"	2' and 4', 5.1" wide	2', 4' / 5.3" wide	2', 4'	2', 4'	2', 4'	4'
	lm/W (Max)	85	114	129	118	108	120	150
	Lum (Max)	2,400	3,400	4,900	5,000	6,500	4,800	8,000
	Life (@60K)	L70/50K	L70/50K	L82	L88	L87	L82	L91
	Lens	Frost / Acrylic	Prismatic Acrylic	Diffuse, Acrylic	Frost, Acrylic	Frost + Film, Acrylic	Frost, Smooth	(Vandal Resistant) Frost, Acrylic
	Emergency	No	No	Remote	Integrated	Integrated	Integrated	Integrated
	CRI	80+	80+	80+	80+	80+	80+	80+
	Row Mount	N/A	N/A	Yes	Yes	Yes	Yes	No
	Sensor Location	N/A	N/A	Integral, Microwave	N/A	N/A	N/A	Integrated
	DLC	Energy Star	Standard	DLC, Title 24 Non-Res	Standard	Standard	None	Standard
	Lumen / CCT Select	CCT		CCT/Lumen				
INTEGRATED CONTROLS	Basic Occupancy							✔
	Stand Alone Daylight / Occupancy							✔
	WaveLinx Lite							✔
	WaveLinx							✔
	DLVP							

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		FPX	Cruze SB	SkyRidge	RLN	Ovation	Accord	Encounter	Perceive	InDepth
APPLICABILITY[1]	Education	★★★	★★★	★	★★	★★	★	★★	★★★	★★★
	Office	★★★	★★	★★★	★★★	★★★	★★★	★★★	★★★	★★★
	Healthcare	★★	★★★	★★	★★	★	★★	★★★	★★★	★★★
	Retail	★★★	★★	★★	★★	★★★	★★	★★	★★	★★
FEATURES / PERFORMANCE	Sizes	1x4, 2x2, 2x4	1x4, 2x2, 2x4	1x2, 1x4, 2x2, 2x4	1x4, 2x2, 2x4	1x4, 2x2, 2x4	1x4, 2x2, 2x4	1x2, 1x4, 2x2, 2x4, Metric	1x4, 2x2, 2x4	1x4, 2x2, 2x4
	lm/W (Max)	130	157	150	139	109	127	141	137	127
	Lumens (Max)	6,400	7,500	6,400	8,000	5,000	7,300	7,400	9,000	8,000
	Life (@60K)	L87	L84	L92	L93	L89	L89	L92	L85	L86
	Lens	Frost, Smooth	Round, Frost - Ribbed or Smooth	Acrylic (WaveStream)	Frosted Acrylic	Metal Perforated	Frosted Acrylic	Acrylic (WaveStream)	Acrylic (Perceive Optics)	1", 2" Cube Regress 1", 2" Cube Drop 2" Single & Double Curve Regress & Drop
	Service from Below	No	Yes	No	Yes	No	Yes	No	Yes	No
	Emergency	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated, Indicator is Remote
	CRI	80+	80+ / 90	80+	80+ / 90	80+	80+	80+ / 90	80+ / 90	80+
	Sensor Location	Integrated	Integrated	Integrated	Integrated	Tile Mount	Integrated	Integrated	Integrated	Tile Mount
	DLC	Premium	Premium	Premium	Premium	Standard	Premium	Premium	Premium	Premium
	Air Venting	None	None	Yes	None	Yes	Yes	Yes	None	No
	VividTune™	No	Tunable White	No	Tunable White	No	No	Tunable White	Yes	No
INTEGRATED CONTROLS	WaveLinx Lite	✔	✔	✔	✔			✔	✔	✔
	WaveLinx Pro	✔	✔	✔	✔	✔	✔	✔	✔	✔
	DLVP	✔	✔	✔	✔		✔	✔	✔	✔

Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable

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		LHB	VHB	UHB	ILED	Steeler	HBLED	OHB(L)	XHB	Benchmark
APPLICABILITY[1]	Big Box Retail	★	★	★★	★★★	★★	★	★★★		★
	Sports / Recreation	★★	★★	★★	★	★★★	★★	★★★		★★
	Warehouses	★★★	★★★	★★	★★★	★★★	★★★	★★★		
	Manufacturing	★★	★★	★★	★	★★★	★★★	★★★	★★★	★★★
	Cold Storage	★	★★★	★		★	★	★★★		★★
	Large Indoor					★★	★★★	★★★	★★★	★★
	Complex Environments		★	★★		★			★★★	★★★
FEATURES / PERFORMANCE	Lumen Range	12,000 - 36,000	9,000 - 24,000	12,000 - 30,000	5,000 - 32,000	9,000 - 36,000	12,000 - 60,000	9,000 - 60,000	60,000 - 85,000	12,000 - 70,000
	Efficacy (Max)	140 lm/W	147 lm/W	137 lm/W	155 lm/W	152 lm/W	186 lm/W	205 lm/W	132 lm/W	181 lm/W
	CRI	80	70, 80, 90	80	80	80	70, 80	70, 80, 90	70, 80	70, 80
	Distribution	M	N, W	M	N, W	N, M, W	N, W	N, M, W	N, M, W, EW, UW	N, M, W
	Sizes	13" x 2' & 4'	< 2'	12" Dia	4', 8'	17" Dia	4'	Scalable	22" Dia	17", 25" Dia
	Housing[2]	CRS	CRS / Extruded	Diecast	CRS	CRS / Diecast	CRS	CRS	Diecast	Diecast
	Lensing	Acrylic	Polycarbonate	Polycarbonate	Optional	Polycarbonate	Optional	Acrylic	Polycarbonate	Acrylic
	Uplight	None	None	None	Up to 5%	Up to 10%	None	None	None	None
	Life (@ 60K hrs)	L84	L83	L91	L86	L88	L84	L96	L87	L92
	Ambient Range	-20C to 50C	-40C to 40C	-40C to 45C	-40C to 35C	-40C to 55C	-40C to 55C	-40C to 55C	-40C to 65C	-40C to 65C
	Emergency	None	Remote	None	Integrated	Remote	Integrated	Integrated	Remote	Remote
	Ratings	Damp	Damp	IP65	Damp	IP65 Optics	Damp	Damp	IP66, NEMA 4X	IP66
	DLC	Premium	Standard, Premium	Premium	Premium	Premium	Premium	Premium	Premium	Premium
INTEGRATED CONTROLS	Basic Occupancy		✔		✔	✔	✔	✔		✔
	Stand Alone Daylight / Occupancy		✔		✔	✔	✔	✔		✔
	WaveLinx		✔			✔	✔	✔		✔
	Enlighted[3]		✔			✔	✔	✔		✔

Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable
2. CRS=Cold-rolled Steel, Extruded=Extruded Aluminum, Diecast=Diecast Aluminum.
3. Location data for asset tracking.

Metalux's sealed and gasketed products deliver maximum operation and reliability in complex environments where the elements require more than just a standard light fixture.



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		APVT	VT2	VT3	VT4S	VT4
APPLICABILITY[1]	Canopy	★★	★★	★★		
	Storage	★★★	★★★	★★		
	Parking Garage		★★	★★★		
	Warehouse	★	★★★	★★★	★	★
	Food Processing		★★	★★★	★★	★★
	Manufacturing		★★	★★	★★★	★★★
	Complex Environments		★	★★★	★★★	★★★
FEATURES / PERFORMANCE	Lumen Range	2,000 - 4,000	2,000 - 22,000	2,000 - 8,000	9,000 - 18,000	9,000 - 30,000
	Efficacy (Max)	132 lm/W	150 lm/W	154 lm/W	165 lm/W	146 lm/W
	Distribution [2]	G	G, W	G, W, P	G	G
	Sizes	2', 4'	2', 4', 8'	2', 4'	2'	4'
	Housing	Polycarbonate	Fiberglass/Polyester	Fiberglass/Polyester	Fiberglass	Fiberglass
	Lensing	Polycarbonate	DR Acrylic or Polycarb	DR Acrylic or Polycarb	DR Acrylic or Polycarb	DR Acrylic or Polycarb
	Wet Location	Yes	Yes	Yes	Yes	Yes
	IP Rating	None	None	IP65, 66, 67	IP65, 66, 67, 69	IP65, 67
	NSF	None	Yes	Yes	Yes	Yes
	NEMA 4X	None	None	None	Yes	Yes
	Life (@60K hrs)	L70 at 54K	L91	L91	L91	L92
	Ambient Range	-20C to 30C	-40C to 35C	-40C to 50C	-40C to 40C	-40C to 40C
	Emergency	None	Yes	Yes	Yes	Yes
	Vandal Resistant	None	Optional	Optional	Optional	Optional
	DLC	Standard	Premium	Premium	Premium	Premium
INTEGRATED CONTROLS	Basic Occupancy		✔	✔	✔	✔
	Stand Alone Daylight / Occupancy		✔	✔	✔	✔
	WaveLinx					
	Enlighted [3]					

Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable
2. G=General, W=Wide, P=Parking Garage.
3. Location data for asset tracking.

Corelite Neo-Ray

Corelite and Neo-Ray offer a unique array of high performance LED luminaires perfectly suited for today's architectural interior environments.

Combining modern details and high optical performance, Corelite and Neo-Ray's innovative approach to linear, recessed and surface-mounted luminaires make it the ultimate solution for applications with both demanding energy requirements and uncompromising aesthetics.

The product selection guides are simple yet powerful tools to help assist with product comparisons and selection based on features, performance and value.

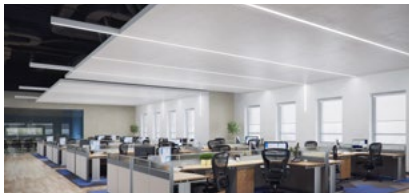
9-10 **Architectural LED -** Linear Suspended

11 **Architectural LED -** Recessed

12 **Architectural Linear LED-** Lines of Light



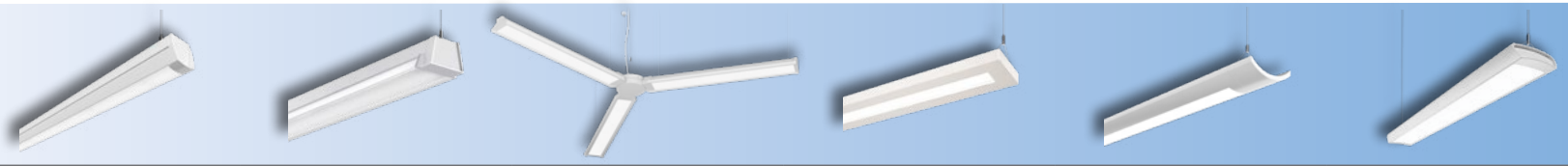




Architectural LED
Linear Suspended

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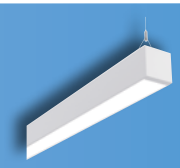
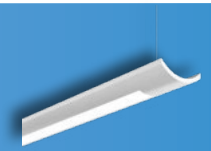
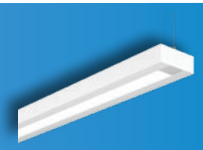
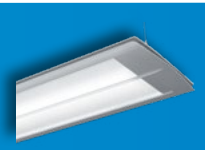


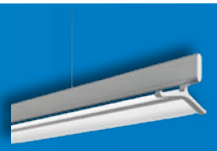
		Hugo	RZL	WSLA	Jaylum	Iridium i3	Continua CTA
APPLICABILITY[1]	Education	★★★	★★	★★	★★★	★★★	★★★
	Office	★★	★	★★★	★★★	★★	★★
	Healthcare	★★	★★	★★	★★	★★	★★
	Retail	★★★	★★★	★★★	★	★	★★
FEATURES / PERFORMANCE	Construction	Extruded Aluminum	Cold Rolled Steel	Steel/Extruded Aluminum	Cold Rolled Steel	Cold Rolled Steel	Extruded Aluminum
	Lengths	4', 8', 12', Cont.	4', 8', 12', Cont.	4', 8', Cont.	4', 8', Cont.	4', 8', Cont.	4', 8', 12', Cont.
	Pattern / Layout	Straight	Straight	Straight, Intersection (Up to 6-way with hub)	Straight	Straight	Straight
	lm/W (Max)	145	135	133	157	158	147
	Lumens (Max)	8000 (2000 lms/ft)	8800 (2200 lms/ft)	8000 (2000 lms/ft)	8000 (2000 lms/ft)	8000 (2000 lms/ft)	6000 (1500 lms/ft)
	Up/Down % Options	2	2	3	5	5	4+
	CIE Type	Direct, Semi-Direct	Direct, Semi-Direct	Direct, Semi-Direct	Direct/Indirect	Direct/Indirect	Direct, Direct/Indirect
	Life (@60K)	L85	L85	L93	L93	L93	L84
	Shielding	Frost - Smooth, Drop Lens, Baffle	Frost -Linear Prismatic, Baffle	WaveStream - Acrylic	Frost - Smooth	Frost - Smooth	Frost - Continuous Roll Lens
	Companion Family Fixtures	Surface	Surface	Surface	Wall, Sconce	-	Wall
	Driver Location	Integral	Integral	Integral	Integral	Integral	Integral
	Emergency	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
	CRI	80+ / 90	80+ / 90	80+ / 90	80+ / 90	80+ / 90	80+ / 90
	Sensor Location	Integrated, Side Mount	Integrated	Integrated, Fixture or Hub	Integrated	Integrated	Integrated, Side Mount
	DLC	Premium	Premium	Premium	Premium	None	Premium
	VividTune™	No	No	No	Tunable White	Tunable White	No
INTEGRATED CONTROLS	Stand Alone Daylight / Occupancy		✔	✔	✔	✔	
	WaveLinx Lite	✔	✔	✔	✔	✔	✔
	WaveLinx	✔	✔	✔	✔	✔	✔
	Enlighted	✔	✔	✔	✔	✔	✔
	DLVP						

Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable

Best

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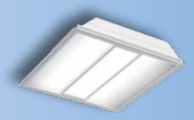
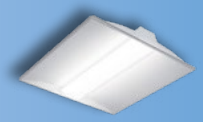
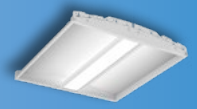
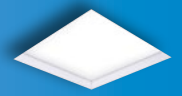


		Continua SQ4	Iridium i2 WaveStream	Element /Loft / Vertechs WaveStream	Divide	Define	Converge
APPLICABILITY[1]	Education	★★★	★★★	★★★	★★	★★	★★★
	Office	★★★	★★	★★	★★★	★★★	★★★
	Healthcare	★★	★★	★★	★	★★	★
	Retail	★★	★	★	★★	★	★★
FEATURES / PERFORMANCE	Construction	Extruded Aluminum	Cold Rolled Steel	Extruded Aluminum	Extruded Aluminum	Extruded Aluminum	Extruded Aluminum
	Lengths	2', 4', 6', 8', 12', Cont.	4', 8', Cont.	4', 8', 12', Cont.	4', 8', Cont.	2' - 12', Cont.	4', 8', Cont.
	Pattern / Layout	Straight	Straight	Straight	Straight	Straight, Corners, Intersection	Straight
	lm/W (Max)	147	114	116	140	164	119
	Lumens (Max)	10,800+ lm (2,700+ lms/ft)	7200 (1800 lms/ft)	7200 (1800 lms/ft)	6000 (1500 lms/ft)	9900 (2475 lms/ft)	6700 (1700 lms/ft)
	Up/Down % Options	28+	3	3	2	∞	3
	CIE Type	Direct, Direct/Indirect, Indirect	Direct, Direct/Indirect	Direct, Direct/Indirect	Direct, Direct/Indirect	Direct, Direct/Indirect, Indirect	Direct, Direct/Indirect
	Life (@60K)	L84	L81	L81	L87	L90	L85
	Shielding	Frost - Continuous Roll Lens Black/White Louvered Baffle	Frost - Linear Prismatic	Frost - Smooth	WaveStream - Acrylic Specular, Diffuse	Frost - Smooth, Drop & Regressed, Asymmetric and Batwing Lens	WaveStream - Acrylic Diffuse
	Companion Family Fixtures	Recessed, Wall	-	-	Surface, Wall, Recessed	Surface, Wall, Recessed, Perimeter	-
	Driver Location	Integral	Integral	Integral	Integral	Integral	Remote w/ Luxwire
	Emergency	Integrated	Integrated	Integrated	Integrated	Integrated	Remote
	CRI	80+ / 90	80+ / 90	80+ / 90	80+ / 90	80+ / 90	80+ / 90
	Sensor Location	Integrated, Endcap/Side Mount	Integrated	Integrated	Integrated	Integrated	Tile Mount
	DLC	Premium	Standard	Standard	Premium	Premium	None
	VividTune™	Tunable White	No	No	No	Tunable White	No
INTEGRATED CONTROLS	Stand Alone Daylight / Occupancy		✔	✔		✔	✔
	WaveLinx Lite	✔			✔	✔	
	WaveLinx	✔	✔	✔	✔	✔	✔
	Enlighted	✔	✔	✔	✔	✔	✔
	DLVP						✔

Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable

Good — Better — Best

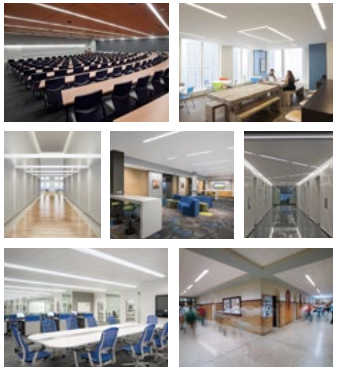
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		Class RX/ZX	Class D3X	Class R2X	Bridge	InDepth	Divide
APPLICABILITY	Education	★★★	★★	★★★	★★	★★★	★★
	Office	★★★	★★★	★★★	★★★	★★★	★★★
	Healthcare	★	★★	★★★	★	★★	★★★
	Retail	★★	★★	★★	★★	★★	★
FEATURES / PERFORMANCE	Sizes	1x4, 2x2, 2x4	1x4, 2x2, 2x4	1x4, 2x2, 2x4, Metric	1x4, 2x2, 2x4, Metric	1x4, 2x2, 2x4, 4x4	1x4, 2x2, 2x4
	lm/W (Max)	145	139	134	118	127	137
	Lumens (Max)	7600	7800	8000	7300	9000	7500
	Life (@60K)	L94	L93	L87	L80	L84	L87
	Lens	Round (R), Flat (Z) Frost - Smooth	Frost - Smooth, Perf Inlays	Round (R), Frost - Smooth	Acrylic (Wavestream), Perf Inlays	1", 2" Cube Regress 1", 2", 3" Cube Drop 2" Single & Double Curve Regress & Drop Sweep Regress & Drop	Acrylic (Wavestream), Specular, Diffuse
	Emergency	Integrated	Integrated	Integrated	Integrated	Integrated, Indicator is Remote	Integrated
	CRI	80+ / 90	80+ / 90	80+ / 90	80+ / 90	80+	80+ / 90
	Sensor Location	Integrated	Integrated	Tile Mount	Integrated	Tile Mount	Integrated
	DLC	Standard	Standard	Standard	Standard	Premium	Premium
	Air Return	Yes	None	Yes	Yes, concealed	No	None
	VividTune™	Tunable White	Tunable White	No	No	No	No
INTEGRATED CONTROLS	WaveLinx Lite	✔	✔		✔	✔	
	WaveLinx Pro	✔	✔		✔	✔	✔
	WaveLinx, No Sensor	✔	✔			✔	
	Enlighted	✔	✔	✔	✔	✔	✔
	DLVP	✔	✔		✔	✔	

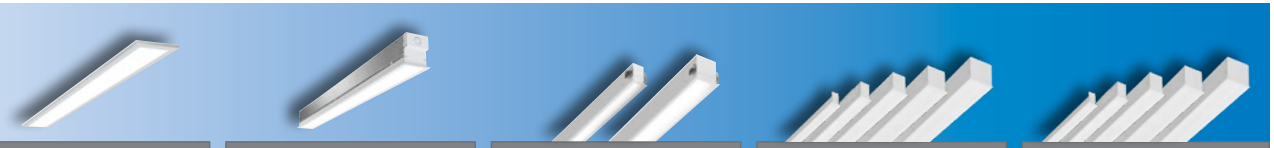
Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable

Whether lighting contemporary architectural spaces or general area lighting, **Cooper Lighting Solution's architectural linear LED** products offer a complete family of innovative, affordable, and energy saving LED solutions for your next project.



Good — Better — Best

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		Metalux RBG	Metalux RCG	Corelite CL	Neo-Ray Define Standard	Neo-Ray Define Premium
APPLICABILITY[1]	Office	★★	★★	★★	★★★	★★★
	Secondary Education	★★	★★	★★	★★★	★★
	Primary Education	★★★	★★★	★★★	★★	★
	Healthcare	★★	★	★	★★	★★★
	Tenant Improvement	★★★	★★★	★★★	★★	★
FEATURES / PERFORMANCE	Apertures	4"	3"	2", 4"	1.5", 2", 3", 4", 5"	1.5", 2", 3", 4", 5"
	Sizes	Fixed 2', 4', 8'	4', 8'	4', 8' + Continuous Runs	2'-12' + Continuous Runs	2'-12' + Continuous Runs
	Length Resolution	Fixed	Fixed	4' Increments	1" Increments	1" Increments
	Installation Type	Ceiling, Wall	Ceiling	Ceiling	Ceiling, Wall, Perimeter	Ceiling, Wall, Perimeter
	Configuration Geometry	Straight	Straight	Straight	Straight, Corners, Intersection	Straight, Corners, Intersection
	Compatible Family Fixtures	Surface/Susp & Drywall Kits	N/A	N/A	Suspended, Surface, Wall	Suspended, Surface, Wall
	lm/W (Max)	115	121	124	127	141
	Lms/ft (Max)	1,000	1,000	1,200	1,400	1,500
	Standard Lumen Levels	3	4	5	5 + Custom	5 + Custom
	Lens	Flush Frosted	Flush Frosted, Asymmetric	Flush Frosted, Asymmetric	Flush & Drop Frosted, Asymmetric, Louver	Flush & Drop Frosted, Asymmetric, Louver
	Emergency	Integrated, Remote Switch	Integrated	Integrated	Integrated	Integrated
	CRI	80+	80 Standard, 90 Optional	80 Standard, 90 Optional	80 Standard, 90 Optional	80 Standard, 90 Optional
	Ceiling Integration / Flange Type	Standard T-Grid, Gypsum	Standard T-Grid, Gypsum	6 Common Architectural Systems	>12 Architectural Ceiling Systems	>12 Architectural Ceiling Systems
	DLC	Standard	Standard	Standard	Standard & Premium	Standard & Premium
	VividTune™	No	No	No	No	Tunable White
INTEGRATED CONTROLS	WaveLinx, Enlighted, DLVP, Stand Alone	Integrated or Tile Mount	Integrated	Integrated	Integrated or Tile Mount	Integrated or Tile Mount
	Integral Downlights	N/A	N/A	N/A	Optional Fixed or Adjustable	Optional Fixed or Adjustable

Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable

Fail-Safe

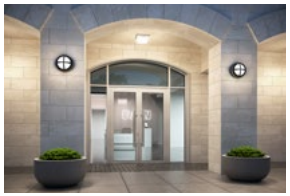
Fail-Safe is a leading provider of specialty grade lighting products designed to perform in a wide variety of complex environments.

Fail-Safe's complete family of luminaires are designed to meet the most demanding applications needs in medical / healthcare, vandal resistant, correctional, cleanroom, and specialty / custom lighting.

The product selection guides are simple yet powerful tools to help assist with product comparisons and selection based on features, performance and value.

14 **Cleanroom Spaces -** LED
15, 16 **Medical Spaces -** LED
17, 18 **Correctional Spaces -** LED
19 **Linear Vandal Resistant -** LED
20 **Indoor Vandal Resistant -** LED
21 **Vandal Resistant Wall Packs -** LED
22 **Vandal Resistant Vaportite -** LED
23 **Downlights -** LED
24 **Troffer -** LED
25 **Behavioral Health -** LED










Cleanroom Ratings

- ISO standard ratings (1-9) are used to identify products suitable for those cleanroom rated conditions.
- FED-STD-209E has been replaced by ISO 14644-1, but is still referenced in some specifications.
- For both systems, lower numbers correspond to stricter cleanroom ratings.



Hose Down Ratings

- IP 65 is low pressure hose down.
- IP 66 is high pressure hose down.
- First digit signifies dust ingress protection rating (1-6) and second digit represents liquid ingress protection (1-6 for hosedown). In both cases, the higher the number, the better the seal on the fixture.



NSF Ratings

- NSF (National Sanitation Foundation) provides certified product for use in commercial food processing applications.
- NSF rating can serve as a good indicator of the ability to easily clean/wipe down products.



Narrow Spectrum Illumination

- Red light is used in vivarium (enclosed structure for animal observation or research) applications.
- Green light is used in operating rooms.
- Amber and Yellow are used in various industrial processes.

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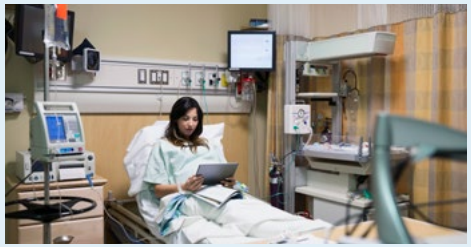





	CFA	FLD4B	FLD6B	FSP	FCZ	ENW/ENC	FSN	CLM	CLP
Mounting	Surface	Recessed	Recessed	Recessed	Recessed	Recessed	Recessed	Recessed / Surface	Recessed / Surface
ISO Rating	3		5	5	5	5	5	5	5
FED-STD-209E	1		100	100	100	100	100	100	100
Max Lumens	4,100	5,300	6,600	6,400	7,500	7,000	4,121 (4ft)	24,000	24,000
Sizes	2', 3', 4', 8'	4" Round	6" Round	1x4, 2x2, 2x4	1x4, 2x2, 2x4	1x2, 1x4, 2x2, 2x4	Fixed 2', 4', 8'	1x2, 1x4, 2x2, 2x4	1x2, 1x4, 2x2, 2x4
UL Rating	Wet Location	Wet Location	Wet Location	Wet Location	Wet Location	Wet Location	Wet Location	Wet Location	Wet Location
IP Rating		IP65/IP66	IP65/IP66	IP65/IP66	IP65	IP66	IP66	IP65	IP66
NSF		Optional	Optional	Standard	Standard	Standard	Standard	Standard	Standard
Red	Optional							Optional	Optional
Green	Optional							Upon Request	Upon Request
Amber	Optional							Upon Request	Upon Request
Yellow	Upon Request							Upon Request	Upon Request

Patient rooms





Multi-function vs multi-compartment
- Multi-function fixtures have a variety of functions and light outputs in a single fixture.
- Multi-compartment fixtures place each function in a distinctly separate compartment.

Multiple lights in one package
- Patient bed lights need to perform a variety of functions within a single fixture.
- Typical functions include ambient, exam, reading, nightlight, and chart light.

Mounting
- Patient bed lights can be ceiling mounted above or beside the bed, or to the headwall.

Operating rooms





Operating room layout
- Troffers typically used to form high lumen perimeter around operating table.
- Downlights typically used around perimeter of operating theater.

MIL-STD-461-G
- Rated to provide high level of protection against radiated and conducted electromagnetic interference (EMI).
- Protects certain sensitive equipment used in some operating rooms.

Green LEDs for auxiliary lighting
- Green LEDs used as auxiliary and supplemental lighting to primary white LEDs. If requested by the surgical staff, green LEDs are available for specification.

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	APR	APN	MPBL
Sizes	2' x 2', 2' x 4'	6" x 48", 6" x 60", 6" x 72"	24", 36", 48"
Mounting	Recessed ceiling (above bed)	Ceiling (beside bed)	Wall Mount
Max lumens	19,500	6,000	12,650
UL Location Rating	Damp (Wet optional)	Damp (Wet optional)	Damp
Wipedown	Standard	Standard	Standard
Tamperproof	CP250 lens optional	CP250 lens optional	
CRI	80, 90	80, 90	80, 90

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	ORL	FLD6B/OR
Sizes	1' x 4', 2' x 2', 2' x 4'	6" round
Mounting	Recessed troffer	Recessed downlight
Max lumens	28,000	6,600
UL Location Rating	Wet	Wet
IP Rating	IP66	IP65 (IP66 optional)
Wipedown	Standard	Standard
NSF	Standard	Optional
CRI	80, 90	80, 90, 97
MIL-STD-461-G	Optional	Optional
Green LEDs	Optional	

Behavioral health





Form and function
- Fixtures should have aesthetic appeal while maintaining high structural security.
- Continue visual themes from non-behavioral health areas.

Self harm resistant
- Designed to protect against self harm by patients.
- Polycarbonate lens and tamperproof hardware used to withstand high abuse.

Disease prevention and control
- Antimicrobial Matte White paint finish protects against disease propagation.

Exam rooms





High light levels and light quality
- High lumen levels needed for performing patient examinations.
- High CRI available for aid in visual evaluation of patient and symptoms.

Ease of cleaning
- Wipedown design and NSF (National Sanitation Foundation) rating make regular cleaning of fixtures easier.

Disease prevention and control
- Antimicrobial Matte White paint finish protects against disease propogation.

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	ENV	FLD6BXV	FWL
Sizes	1' x 2', 1' x 4', 2' x 2', 2' x 4'	6" round	18", 24", 48"
Mounting	Recessed troffer	Recessed downlight	Wall mount
Max lumens	6,100	6,600	6,000
UL Location Rating	Wet	Wet	Damp
IP Rating	IP66	IP66	
Wipedown	Standard	Standard	Standard
Tamperproof	Standard	Standard	Standard
NSF	Standard		
CRI	80, 90	80, 90, 97	80, 90

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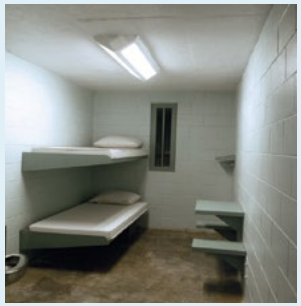




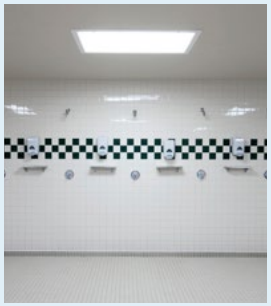
	SGI	ENW
Sizes	1' x 4', 2' x 2', 2' x 4'	1' x 2', 1' x 4', 2' x 2', 2' x 4'
Mounting	Recessed troffer	Recessed troffer
Max lumens	11,500	6,100
UL Location Rating	Damp (Wet optional)	Wet
IP Rating	IP65 (optional)	IP66
Wipedown	Standard	Standard
Tamperproof	Optional	Optional
NSF	Optional	Standard
CRI	80, 90	80, 90

Unsupervised Areas

Cells



Showers



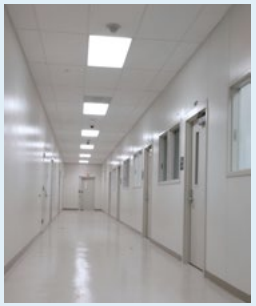
Work Spaces



- Inmates regularly present in these areas for long periods of time
- Guards only pass by periodically; not continuously present
- Fixtures typically mounted at lower heights and easy to reach
- Lens and metal thicknesses are thick to withstand regular, extended periods of potential high abuse

Supervised Areas

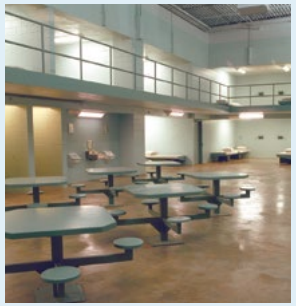
Hallways



Cafeterias



Visiting Spaces



- Inmates occasionally present in these areas
- Guards regularly present, able to respond quickly to inmates attempting to damage fixtures
- Fixture mounting heights low, medium, or high depending on space/application
- Lens and metal thicknesses withstand intermittent, moderate abuse

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		FMB	FMR	FCC	FUSL
Applicability	Cells	★★★	★★★	★★★	★★★
	Showers		★★★	★★★	★★
	Work Spaces	★★	★★★	★★	★★★
Features	Mounting	Wall	Recessed	Corner	Surface
	Size	2', 4'	1x1,1x2,1x4, 2x2, 2x4	2', 4'	2', 4'
	Max Lumens	5,264 / 5,264*	9,960*	7,178*	11,832*
	Wet Location	N/A	Optional	Optional	Optional
	Max Metal Ga. / Thickness	12 ga / 0.109"	12 ga / 0.109"	12 ga / 0.109"	12 ga / 0.109"
	Max Total Lens Thickness	.750"	.875"	.875"	.687"

Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable
*Max Lumens with 0.250" Polycarbonate Lens
**Nominal Lens Thickness

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		FCT	FMS	TR15
Applicability	Hallways	★★★	★★★	★★
	Cafeterias	★★	★★★	★★
	Visiting Spaces	★★★	★★★	★★★
Features	Mounting	Surface	Surface	Wall
	Size	2', 4'	1x1,1x2,1x4,2x2,2x4	15" Round
	Max Lumens*	16,700	15,300	4,875
	Wet Location	N/A	Optional	Standard
	Max Metal Ga. / Thickness	12 ga / 0.109"	12 ga / 0.109"	N/A
	Max Total Lens Thickness	.500"	.860"	0.135"

Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable

Non-Correctional Areas

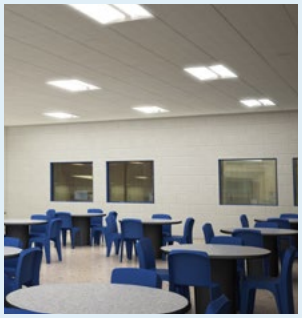
Offices



Entrances

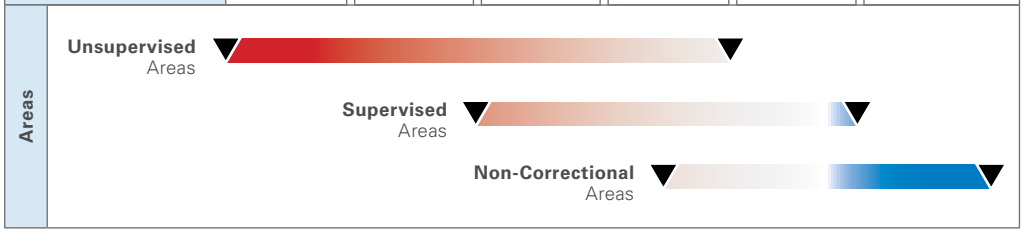


Waiting Areas



- Inmates never/rarely present
- Guards rarely present
- Improved aesthetic appearance desired
- Lenses can be polycarbonate or acrylic

Security Level	Super Max	Max	Medium	Minimum	High Abuse	Non-Correctional
Metal Material	Steel / Stainless	Steel / Stainless	Steel / Stainless	Steel / Stainless	Steel / Stainless / Aluminum	Steel / Aluminum
Door Gauge	12 ga	14 ga	16 ga	18 ga	20 ga	N/A
Housing Gauge	14 ga	14 ga	16 ga	16 ga	20 ga	N/A
Lens	0.375" Polycarbonate or Tempered Glass	0.250" Polycarbonate or Tempered Glass	0.187" Polycarbonate or Tempered Glass	0.156" Polycarbonate or Tempered Glass	0.125" Polycarbonate	0.125" DR Acrylic



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		GRV	FLD6B	ENV	G12
Applicability	Offices	★★★	★★★	★★★	★
	Entrances	★★★	★★★	★★★	★★★
	Waiting Areas	★★★	★★★	★★★	★
Features	Mounting	Recessed	Recessed	Recessed	Wall
	Size	1x4, 2x2, 2x4	6" Round	1x2, 1x4, 2x2, 2x4	12" Square
	Max Lumens	18,000	7,000	6,489*	3,750
	Wet Location	N/A	Standard	Standard	Standard
	Max Total Lens Thickness	0.187"	0.375"	0.250"	0.135"**

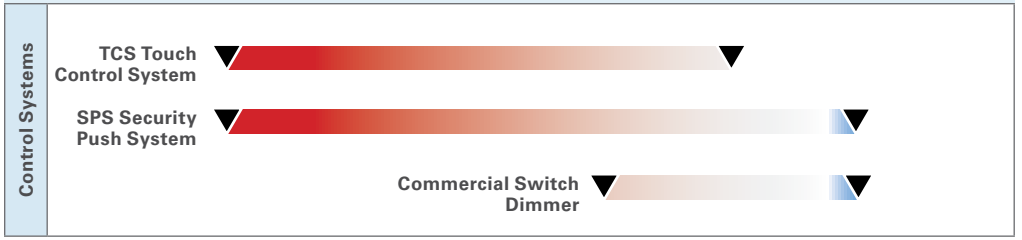
Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable
*Max Lumens with 0.250" Polycarbonate Lens
**Nominal Lens Thickness

Control Systems

TCS Touch Control System
- High security capacitive touch bolt
- Remote override capacity
- Integral to fixture or remote in wall

SPS Security Push System
- Security push switch, integral to fixture
- Local single fixture/circuit control

Commercial Switch / Dimmer
- Non-tamper resistant
- Offers on/off and dimming



Linear Vandal Resistant
LED

Fail-Safe

Good — Better — Best

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		FVS4	FVS8	HVSL2	HVSL4	HVSL8	HVSL12	HVL8	HVL12
APPLICABILITY[1]	Behavioral Health	★	★	★★	★★	★★★	★★	★★	★★
	Outdoor Vandal Resistant	★★	★★	★★	★★	★★	★★	★★	★★
	Indoor Vandal Resistant	★★★	★★★	★★★	★★★	★★★	★★★	★★★	★★★
	Industrial High Abuse	★★★	★★★	★★★	★★★	★★★	★★★	★★★	★★★
	Multifamily homes	★★	★★	★★★	★★★	★★★	★★★	★★	★★
MOUNTING	Wall	✔	✔	✔	✔	✔	✔	✔	✔
	Ceiling	✔	✔	✔	✔	✔	✔	✔	✔
	Pendant			✔	✔			✔	✔
FEATURES	Lengths	2', 3', 4', 8'	2', 3', 4', 8'	2', 3', 4', 8'	1', 2', 3', 4', 8'	2', 4', 8'	2', 4', 8'	1', 2', 4', 8'	1', 2', 4', 8'
	Size (W x H)	4" x 3.75"	8" x 3.75"	2.5" x 2.75"	4" x 3.3"	8.5" x 3.6"	12.5" x 3.6"	8.6" x 3.6"	12.6" x 3.6"
	Maximum Lumen Output (4ft Length)	8664	13841	4083	7883	13444	12942	12690	12350
	Lens Thickness	0.125", 0.187"	0.125", 0.187"	0.085"	0.085"	0.135"	0.135"	0.135"	0.135"
	Emergency	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Occupancy	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Photocell	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CERTIFICATIONS	IP	N/A	N/A	N/A	N/A	IP63	IP63	IP64	IP64
	Wet Location	Optional	Optional	Optional	Optional	Optional	Optional	Standard	Standard
	NSF	N/A	N/A	N/A	Optional	N/A	N/A	Optional	Optional

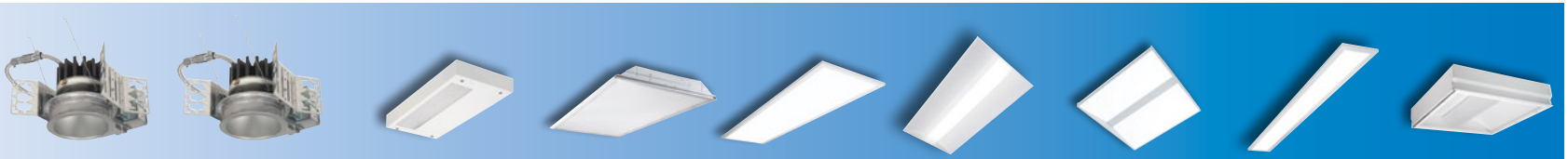
Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable

Indoor Vandal Resistant
LED

Fail-Safe

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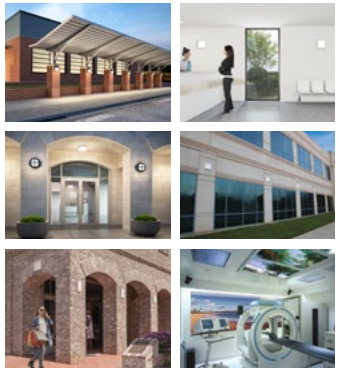
		FLD4B	FLD6B	UCLV	GRV	FSP	FCZ	ENV	FSN	SGI
APPLICABILITY[1]	Behavioral Health	★★★	★★★	★★	★★	★★★	★★★	★★★	★★★	★★★
	Indoor Vandal Resistant	★★★	★★★	★★★	★★★	★★★	★★★	★★★	★★★	★★★
	Indoor High Abuse	★★★	★★★	★	★★★	★★★	★★★	★	★★★	★
	Multifamily homes	★★★	★★★	★	★★	★★	★★	★★	★	★★
FEATURES	Size	4" Round	6" Round	1', 2', 3', 4'	1x4, 2x2, 2x4	1x4, 2x2, 2x4	1x4, 2x2, 2x4	1x2, 1x4, 2x2, 2x4	Fixed 2', 4', 8'	1x4, 2x2, 2x4
	Mounting	Recessed	Recessed	Undercabinet	Recessed	Recessed	Recessed	Recessed	Recessed or Surface/Suspension	Recessed
	Maximum Lumen Output	4,000	7,000	2,400	17,000	6,400	7,500	6,200	4,121 (4ft)	11,500
	Maximum Lens Thickness	0.187"	0.500"	0.187"	0.187"	0.375"	0.250"	0.375"	0.250"	0.375"
	Emergency	Optional	Optional	N/A	Optional	Optional	Optional	Optional	Optional	Optional
	Occupancy	N/A	N/A	Optional	N/A	N/A	N/A	N/A	N/A	N/A
CERTIFICATIONS	IP	IP66	IP66	IP63	N/A	IP65/IP66	IP65	IP66	IP66	IP65
	Wet Location	Standard	Standard	N/A	N/A	Standard	Standard	Standard	Standard	Optional
	NSF	Standard	Standard	N/A	N/A	Standard	Standard	Standard	Standard	Optional

Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable

Vandal Resistant Wall Packs
LED

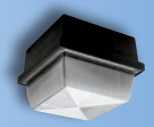
Fail-Safe

Whether lighting hallways, stairwells, prisons, or shopping plazas in a variety of high abuse applications, **Fail-Safe's** wall pack vandal resistant LED products offer a complete family of innovative, affordable, and energy saving LED solutions for your next project.



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		B95	H12	G12	TR11	TR15	FW
APPLICABILITY[1]	Behavioral Health	★★	★★	★★	★★★		★★★
	Outdoor Vandal Resistant	★★★	★★★	★★★	★★★		★★★
	Indoor Vandal Resistant	★★	★★	★★	★★★		★★
	Industrial High Abuse	★★★	★★★	★★★	★★★		★★★
	Multifamily homes	★★	★★	★★	★★★		★★★
MOUNTING	Wall	✔	✔	✔	✔		✔
	Ceiling	✔	✔	✔	✔		N/A
FEATURES	Size	5" x 9" Rectangle	12" x 12" Square	12" x 12" Square	11" Round	15" Round	6" x 12", 12" x 6", 9" x 9", 12" x 12"
	Maximum Lumen Output	1,975	4,703	3,750	2,630	4,875	2,500
	Lens Thickness	0.130"	0.156"	0.130"	0.125"		0.125"
	Emergency	N/A	Optional	Optional	Optional		Optional
	Occupancy	N/A	Optional	Optional	Optional		Optional
	Photocell	Optional	Optional	Optional	Optional		N/A
CERTIFICATIONS	IP	IP65	IP65	IP65	IP65		IP65
	Wet Location	Standard	Standard	Standard	Standard		Standard

Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable

Vandal Resistant Vaportite
LED

Fail-Safe

Fail-Safe's Vandal Resistant Vaportite fixtures deliver reliability and robust construction for complex environments, able to withstand high levels of abuse.








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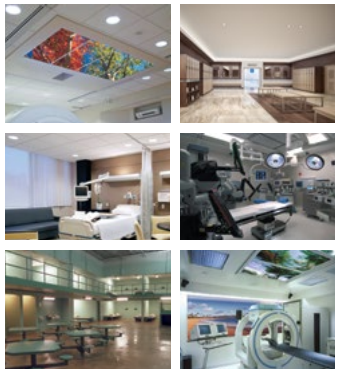



		VRVT2	VRVT3	VRVT4S	VRVT4
APPLICABILITY[1]	Canopy	★★	★★		
	Parking Garage	★★	★★★		
	Warehouse	★★★	★★★	★	★
	Food Processing	★★	★★★	★★	★★
	Manufacturing	★★	★★	★★★	★★★
	Complex Environments	★	★★★	★★★	★★★
	Natatorium	★★	★★★	★★★	★★★
	Vivarium	★★★	★★★	★★★	★★★
FEATURES / PERFORMANCE	Lumen Range	2,000 - 22,000	2,000 - 8,000	9,000 - 18,000	9,000 - 30,000
	Efficacy (Max)	150 lm/W	154 lm/W	165 lm/W	146 lm/W
	Distribution [2]	G, W	G, W, P	G	G
	Sizes	2', 4', 8'	2', 4'	2'	4'
	Housing	Fiberglass/Polyester	Fiberglass/Polyester	Fiberglass	Fiberglass
	Lensing	DR Acrylic or Polycarb	DR Acrylic or Polycarb	DR Acrylic or Polycarb	DR Acrylic or Polycarb
	Wet Location	Yes	Yes	Yes	Yes
	IP Rating	IP65	IP65, 66, 67	IP65, 66, 67, 69	IP65, 67
	NSF	Yes	Yes	Yes	Yes
	NEMA 4X	None	None	Yes	Yes
	Life (@60K hrs)	L91	L91	L91	L92
	Ambient Range	-40C to 35C	-40C to 50C	-40C to 40C	-40C to 40C
	Emergency	Yes	Yes	Yes	Yes
	Vandal Resistant	Optional	Optional	Optional	Optional
	Tamperproof	Standard	Standard	Standard	Standard
	Narrow Spectrum Color LED	Red, Amber, Green	Red, Amber, Green	Red, Amber, Green	Red, Amber, Green
INTEGRATED CONTROLS	Basic Occupancy	✔	✔	✔	✔
	Stand Alone Daylight / Occupancy	✔	✔	✔	✔
	WaveLinx				

Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable
2. G=General, W=Wide, P=Parking Garage.

Fail-Safe

Fail-Safe offers an assortment of downlights intended for a variety of customer applications. Whether it's high abuse environments, medical spaces, or even MRI suites, **Fail-Safe's** downlight fixtures meet the most stringent requirements and still deliver the aesthetic appeal desired by customers.



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		FLD4B Open Medical 4"	FLD4BX Enclosed 4"	FLD6B Open Medical 6"	FLD6BX Enclosed 6"	FLD6BX / OR Operating Room	MRI-R6DNLT MRI Downlight
APPLICABILITY[1]	Vandal Resistant / Behavioral Health	★	★★★	★	★★★		
	Correctional		★		★★		
	Food Processing	★★★	★★★	★★★	★★★	★	
	Cleanroom			★★★	★★★	★★	
	Medical (non-OR)	★★★	★★★	★★★	★★★	★	
	Operating Room	★	★★	★	★★	★★★	
	MRI						★★★
CONFIGURATIONS	Open	✔	✔	✔	✔		✔
	Bottom Lens		✔		✔		
	Bottom Trim Ring				✔	✔	
FEATURES	Size	4"	4"	6"	6"	6"	6"
	Max Lumens	5,000	5,000	7,000	7,000	5,000	1,800
	Tamperproof	–	Optional	–	Optional	–	–
	VividTune	Available	Available	Available	Available	–	–
	Dim to Warm	Available	Available	Available	Available	Available	–
	Non-Ferrous	–	–	–	–	–	Standard
	Remote Driver	–	–	–	–	–	Standard
CERTIFICATIONS	UL	Wet	Wet	Wet	Wet	Wet	Damp
	IP	IP65	IP65/IP66	IP65	IP65/IP66	IP66	–
	NSF	Available	Available	Available	Available	Available	–
	MIL-STD-461-G	–	–	–	–	Available	–
	ISO Cleanroom[2]	5	5	5	5	5	–

Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable. 2. Fixtures rated ISO 5 are compatible with cleanrooms rated ISO 5 or higher.

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		GRW	GRV	FSP	FCB	FCZ	ENW/ENC	ENV	CLM	CLP	FSN	SGI
APPLICABILITY[1]	Vandal Resistant	★	★★★	★★	★★	★★★	★	★★★	★	★	★★★	★★★
	High Abuse	★	★★★	★★★	★★	★★★	★★	★★★	★★	★	★★★	★★★
	Healthcare	★	★	★★★	★★★	★★★	★★★	★★	★	★	★★★	★★★
	Behavioral Health	★	★★★	★★	★★	★★★	★	★★★	★	★	★★★	★★★
	Cleanroom	★		★★★		★★	★★★	★★	★★★	★★★	★★	★
	Pharmaceuticals	★★		★★★	★	★★	★★★	★★	★★★	★★★	★★	★★
	Vivariums					★			★★★	★★★		★★
	Hosedown	★★		★★★	★	★★	★★★	★★★	★★★	★★★	★★★	★★★
	Food Prep			★★★		★★★	★★★	★★	★★★	★★★	★★★	★★★
FEATURES	Size	1' x 4', 2' x 2', 2' x 4'	1' x 4', 2' x 2', 2' x 4'	1' x 4', 2' x 2', 2' x 4'	1' x 4', 2' x 2', 2' x 4'	1' x 4', 2' x 2', 2' x 4'	1' x 4', 2' x 2', 2' x 4'	1' x 4', 2' x 2', 2' x 4'	1' x 4', 2' x 2', 2' x 4'	1' x 4', 2' x 2', 2' x 4'	Fixed 2', 4', 8'	1' x 4', 2' x 2', 2' x 4'
	Mounting	Grid	Grid	Grid	Grid	Grid	Grid	Grid	Grid	Grid/Flange/ Surface	Surface	Grid
	Max Lumens	18,000	18,000	6,400	7,500	7,500	7,000	7,000	24,000	24,000	4,121 (4ft)	11,500
	Sevice from Below	✔	✔		✔				✔	✔		✔
RATINGS	Wet Location	Standard	Standard	Standard	Optional	Standard	Optional (ENW) Standard (ENC)	Standard	Standard	Standard	Standard	Standard
	IP	–	–	IP66 Optional	–	IP65 Optional	IP66	IP66	IP65	IP66	IP66	IP65 Available
	NSF	–	–	Standard	–	Standard	Standard	Standard	Standard	Standard	Standard	Available
	ISO Cleanroom[2]	–	–	5	–	5	5	5	5	5	5	–

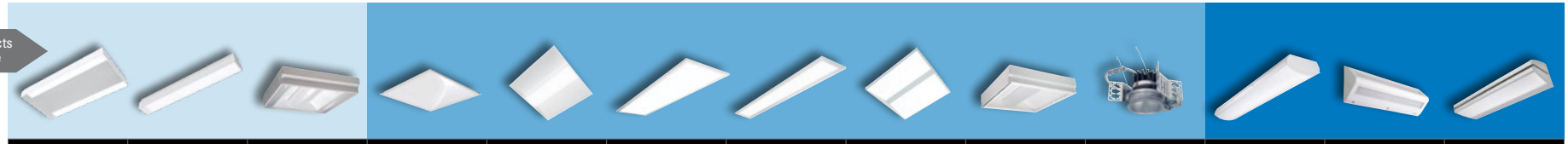
Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable
2. Fixtures rated ISO 5 are compatible with cleanrooms rated ISO 5 or higher.

Multi-Function
(Exam / Ambient / Reading / Night Light)

Clear Polycarbonate Bottom Lens

Surface Mount Wall / Ceiling

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	ArcMed Patient Room Recessed	ArcMed Patient Room Narrow	Medical Ambient / Exam	ArcMed InDepth	FailSafe Cruze	FailSafe Sealed Panel	FailSafe Sealed Narrow	Encounter Vandal	Sealed & Gasketed Indirect	FailSafe Downlight	Harmony Vandal Steel	FailSafe Wall LED	Multi-Purpose Wall
	APR	**APN**	**MAE (w/door)**	**AID**	**FCZ**	**FSP**	**FSN**	**ENV**	**SGI**	**FLD4 & FLD6**	**HVSL8B**	**FWL**	**MWL**
Polycarbonate Lens/ Thickness	0.250" max	0.250" max	0.187" max	0.250" max	0.250" max	0.375" max	0.250" max	0.250" max	0.375" max	0.250" max	0.135" max	0.250" max	0.125" max
Mounting	Recessed Grid, Drywall Framing Kit for hard ceiling	Recessed Grid, Drywall Framing Kit for hard ceiling	Recessed Grid, Drywall Framing Kit for hard ceiling	Recessed Grid, Drywall Framing Kit for hard ceiling	Recessed Grid, Drywall Framing Kit for hard ceiling	Recessed Grid, Drywall Framing Kit for hard ceiling	Recessed Grid, Drywall Framing Kit for hard ceiling	Recessed Grid, Drywall Framing Kit for hard ceiling	Recessed Grid, Drywall Framing Kit for hard ceiling	Recessed Ceiling	Surface, Wall or Ceiling	Surface, Wall or Ceiling	Surface, Wall
Sizes / Lumen Ranges	2x2 up to 12,250 2x4 up to 22,750	6" x 4' up to 12,750	2x2 up to 5,000 2x4 up to 11,000	2x2 up to 8,000 2x4 up to 9,000 1x4 up to 8,000	2x2 up to 11,000 2x4 up to 17,000 1x4 up to 6,000	2x2 up to 4200 2x4 up to 6400 1x4 up to 4200	4' length up to 4,050 8' length up to 8,250 2' length up to 2,000	2x2 up to 4,300 2x4 up to 7,000 1x4 up to 4,300	2x2 up to 5,500 2x4 up to 11,500 1x4 up to 6,600	6" downlight to 7,000 4" downlight to 4,000	4' length up to 14,300 2' length up to 7,150	4' length up to 6,000 2' length up to 3,000 18" length up to 1,675	4' length up to 6,600 up / 7,300 down
VividTune	Yes	Yes	–	Yes	Yes	–	–	–	–	–	–	–	Yes
Listing	Damp standard / Wet available	Damp standard / Wet available	Damp Location standard	Damp standard / Wet available	Wet Location standard	Wet Location standard	Wet Location standard	Wet Location standard	Damp standard / Wet available	Wet Location standard	Damp Location standard	Damp Location standard	Damp Location standard
IP	IP65 available	IP65 available	–	IP65 available	IP65 standard	IP65 & IP66 available	IP66 available	IP66	IP65 available	IP65 and IP65	–	–	IP4X
NSF	Yes	Yes	–	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–	–	–
ISO	–	–	–	ISO5-8	ISO5-8	–	ISO5-8	ISO5-8	–	–	–	–	–
IK	IK10 with 0.25" Polycarbonate Lens	IK10 with 0.25" Polycarbonate Lens	–	IK10 with 0.25" Polycarbonate Lens	–	IK10 with 0.25" Polycarbonate Lens	IK10 with 0.25" Polycarbonate Lens	–	–	–	–	–	–
Anti-microbial Finish	Standard Anti-microbial	Standard Anti-microbial	Available	Standard Matte White	Available	Standard Matte White	Standard Matte White	Standard Matte White	Available	Available	Available	Aavailable	Available
Other	Used directly over the bed	Patient Control w/ Low Voltage Relay. Used in pairs, adjacent to the bed.	Extruded Aluminum or Steel Door	Multiple Regress Diffusers	Continue Cruze theme into complex areas	50°C Ambient Rating	Flex Assembly for Continuous Run	Continue Encounter theme into complex areas	Extruded Aluminum or Steel Door	Open or Enclosed, Polycarbonate Lens to 0.250" thick	Corner Mount Bracket, Corner Connectors available	Flush Tamper Proof Screws standard, separate Up/Down Chambers	0.125" Polycarbonate Lens, Uplight/Downlight, for protection

Sure-Lites

Sure-Lites has been the trusted name and industry leader for emergency and exit lighting for over 30 years. Sure-Lites offers a full line of innovative emergency and exit lighting products designed for commercial, industrial, hospitality, educational and multi-housing residential spaces.

Sure-Lites products are designed to meet and exceed today's building codes. Our products offer maximum reliability and performance while minimizing installation and maintenance costs. From ease of installation to performance-enhancing electronics to time-saving features, Sure-Lites is focused on advancing technology to develop the most effective emergency and exit lighting solutions.

The product selection guides are simple yet powerful tools to help assist with product comparisons and selection based on features, performance and value.

27 Emergency LED
28 Exit LED
29 Remote LED
30 Emergency Battery Packs








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SPECIFICATION

	APELMINI	APEL	SELW29SD / SELWT29SD / SELW25	SEL50 / SEL25 / SEL17	SEL50R7SD/ SEL25R10SD/ SEL60R4SD / SEL60R4	SEL60R10SD/ SEL50R14SD/ SEL25R16SD	SELM60R10SD/ SELM50R14SD/ SELM25R16SD / SELM60R4SD	SELMREC	SELA	SELDWA	SELMTG	AEL2SD / AEL2	SELIN	SELDSD
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Series	APELMINI	APEL	SELW	SEL	SEL	SEL	SELM	SELMREC	SELA	SELDWA	SELMTG	AEL2	SELIN60SD	SELD
Material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Sheet Metal	Sheet Metal	Polycarbonate	Die cast AL	Sheet metal	Die Cast AL	Fiberglass	Die Cast AL
Source	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED
Coverage	17 feet	17 feet	25 feet	17/25/50 feet	25/50/60 feet	25/50/60 feet	25 feet or 60 feet	25, 50 or 60 feet	29 feet	29 or 50 feet	60 feet	25 feet	25, 50 or 60 feet	60 feet
Battery	Nickel cadmium	Nickel cadmium	Nickel cadmium	Nickel cadmium	Nickel cadmium	Nickel cadmium	Nickel cadmium	Nickel cadmium	Nickel cadmium	Nickel cadmium	Nickel cadmium	Nickel cadmium	Nickel cadmium	Nickel cadmium
Remote Capability	No	No	NA	No	4 to 10 watts	10 to 16 watts	4 to 16 watts	4 to 10 watts	No	NA	5 watts	No	Yes	Yes
Color	White	White	Ag/BK/WH/BZ	White or Black	White or Black	White or Black	White	White or Black	White or Black	Ag/BK/WH/BZ	White or Black	Ag/BK/WH/BZ	Grey	Ag/BK/Wh
Temp Range	10° C to 40° C	10° C to 40° C	0° C to 40° C / -20° C to 55° C	0° C to 40° C	0° C to 40° C	0° C to 40° C	0° C to 40° C	0° C to 40° C	0° C to 40° C	0C to 40 C/ -20C to 55C	0C to 40C	-30° C to 55° C	0° C to 40° C	-30° C to 50° C
Self Diagnostics	No	No	No	Option	Option	Standard	Standard	Standard	Standard	Standard	Standard	Option	Standard	Standard
UL Rating	Damp Location	Damp location	Wet Location	Damp location	Damp location	Damp location	Damp location	Damp location	Damp location	Wet location	Damp location	Wet Location	NEMA4x	NEMA 4X / HAZ option
Always On	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No
Availability	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Q2 2019	Stock	Stock	Stock

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Series	APX	APC/APCH	LPX	CX	LPXC	EU	LPXW	EUX	ACE	ES / ELX	UX
Type	Box	Combo	Box	Box	Combo	Edge Lit	Box	Edge Lit	Circular	Edge Lit	Box
Material	Polycarbonate	Polycarbonate	Polycarbonate	Die Cast	Polycarbonate	Aluminum	Polycarbonate	Aluminum	Aluminum	Aluminum	Die Cast AL
Mounting	Universal		Universal	Universal	Universal	Sur / Rec	Universal	Universal	Universal	Sur / Rec	Universal
Faces	Universal	Universal	Universal	One or Two	Universal	Universal	One or Two	Universal	Universal	One or Two	One or Two
Letter Color	Red or Green	Red or Green	Red & Green	Red & Green	Red & Green	Red or Green	Red or Green	Red or Green	Red & Green	Red or Green	Red & Green
Housing Color	White, Black	White, Black	White, Black	Silver, Black, White	White, Black	Silver	Silver, Black, White	Silver, Black, White	Silver, Black, White	Wh, BK, BZ, BR, AL	Silver, Black, White
Self Diagnostics	N/A	N/A	Option	Standard	Option	N/A	Standard	Option	Standard	Option ELX	Standard
Remote Capacity	Option	Yes	Option	No	Option	No	No	No	No	No	No
UL Rating	Damp location	Damp location	Damp location	Damp location	Damp location	Damp location	Wet location	Damp location	Damp location	Damp location	NEMA4X/HAZ
Availability	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	MTO	Stock

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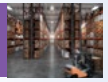
	APWR	SRP	SRM	SRPA
				
Series	APWR	SRP	SRM	SRPA
Material	Plastic	Polycarbonate	Sheet Metal	Polycarbonate
Source	LED	LED	LED	LED
Number of heads	1 or 2	1 or 2	1 or 2	2
Adjustable	Yes	Yes	Yes	Yes, with forward throw
Coverage	15 feet	13 to 60 feet	13 to 60 feet	29 feet
Voltage input	3.6 volts	4.8 through 12 volts	4.8 through 12 volts	4.8 through 6 volt
Color	White, Black	White, Black, Grey	White, Black, Grey	White, Black, Silver, Grey
Temp Range	0° C to 40° C	-30° C to 60° C	-30° C to 60° C	-30° C to 55° C
UL Rating	Wet location	Wet Location	Wet Location	Wet Location
Availability	Stock	Stock	Stock	Stock

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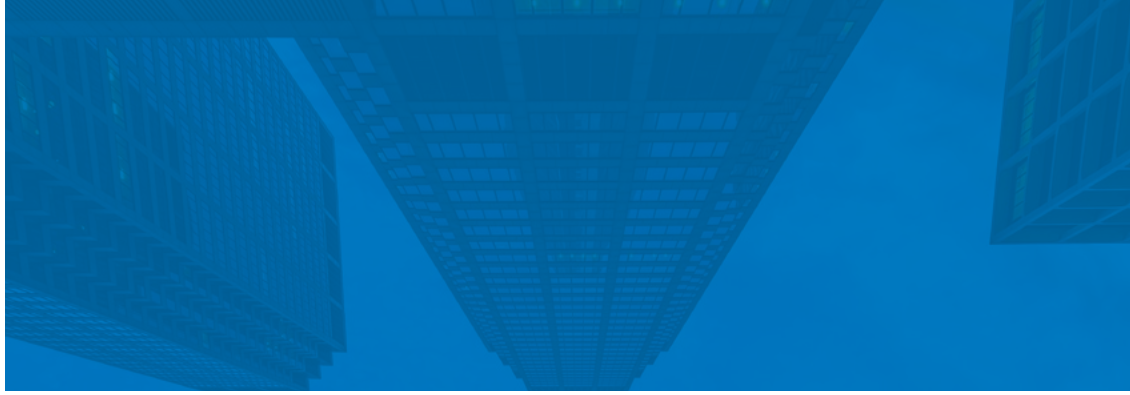
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	EBPLED7W	EBPLED-7.5WSD	EBPLEDLP-10WSD	EBPLED14W	EBPLED14WSD	EBPLEDC1LV-20W	EBPLEDC1HV-20W
							
Series	EBPLED7W	EBPLED-7.5WSD	EBPLEDLP-10WSD	EBPLED14W	EBPLED14WSD	EBPLEDC1LV-20W	EBPLEDC1HV-20W
Fixture Compatibility	LED	LED	LED	LED	LED	LED	LED
Input Voltage	120/277 VAC	120/277 VAC	120/277 VAC	120/277 VAC	120/277 VAC	120/277 VAC	120/277 VAC
Power Output	7W	7.5W	10W	14W	14W	20W	20W
Output Voltage	8VDC to 55VDC	15VDC to 50VDC	8VDC to 52VDC	16VDC to 55VDC	16VDC to 55VDC	20VDC to 50VDC	125VDC to 200VDC
Battery	NiCad	NiCad	NiCad	NiCad	NiCad	NiCad	NiCad
Self-Diagnostics	No	Yes	Yes	No	Yes	No	No
Laser Test Capability	Yes	No	No	Yes	Yes	No	No
EZ-Key Battery Disconnect	Yes	No	No	Yes	Yes	No	No
Replaceable Battery	No	No	No	No	Yes	No	No
Temp Range	0°C to 55°C	0°C to 55°C	0°C to 55°C	0°C to 55°C	0°C to 55°C	0°C to 55°C	0°C to 55°C
UL Rating	Field [1]	Factory or Field Install	Factory or Field Install	Field [1]	Field [1]	Factory or Field Install	Factory or Field Install
Availability	Stock	Stock	Stock	Stock	Stock	Stock	Stock

Lighting controls

Make your workspace work for you. Cooper Lighting Solution's connected lighting systems take the guesswork out of managing your facility, seamlessly adapting to patterns and preferences. With solutions that let you easily manage comfort, productivity and energy savings, it pays to be connected.

Lighting the spaces where we congregate - whether for work, for entertainment, education or services - is fundamental to our experience and performance. Maximizing those interactions requires specific design, cost and efficiency considerations.



The product selection guides are simple yet powerful tools to help assist with product comparisons and selection based on features, performance and value.

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Click on Connected product to learn more

		WaveLinx Wireless	WaveLinx Wired
EQUIPMENT	Wired Switches	●	●
	Battery Switches	●	
	Wired Sensors	●	●
	Battery Sensors	●	
	Wireless fixtures	●	
	Sensor integrated fixtures	●	
	Switchpacks	●	●
	Receptacle Control	●	●
	Integration	●	●
INSTALLATION	Traditional wiring	●	●
	Modular Wiring System	●	●
	Wireless communications	●	
	Two wire communications	●	●
SOFTWARE	AV integration	●	●
	BACnet	●	●
	OpenADR	●	●
	Mobile App	●	●
	Floorplan	●	
	Alarms & Events	●	
	Energy Dashboard	●	
	API Integration	●	
APPLICATIONS	Office/ Private/ Open	●	●
	Education/ Classroom	●	●
	Industrial/ Warehouse	●	●
	Outdoor Parking Lot	●	●
	Outdoor Area Site	●	●
	Outdoor Parking Garage		●
CODE	ASHRAE 90.1 2016	●	●
	IECC 2018	●	●
	T24 2018	●	●

Why use Controls?

Rising conduit and wire costs
Conduit and copper has seen continued cost increase, as much as 22% over the past 12 months.
- Eliminate up to 60% of the wire runs
- Less wire - Less pipe

Shortage of qualified labor
80% of electrical contracting firms are reporting difficulty filling hourly craft worker positions and higher salaries.
- Save up to 45 minutes per control zone
- Less time - Less people

Installation times
Get off the job at least 40% faster simple install and simple setup.
- More jobs with the same people means more money for you
- Faster install

Energy savings
How do you make sure you meet local code and provide energy savings to your customer?
- Network Lighting Controls (NLCs) provide 47-70% savings with integrated luminaire lighting controls
- Up to 70% energy savings

Training
How do you keep up with the latest technology? Cooper Lighting Solutions provides local and classroom certification programs
- Learn how the system works in as little as 2 hours
- Simply mobile

Instructional videos
What if I need a tutorial on site? WaveLinx has fifteen, 5 minute videos that walk you through it.
- Free mobile app
- Free training videos

Utility incentives
Many states provide rebate incentives for LED fixtures with integrated sensors.
- Less material to install, and the rebate pays for it
- Incentives up to $75 per fixture

Cybersecurity
Are you concerned with cybersecurity? Good, but know that WaveLinx has the UL2900-1 listing for Network Cybersecurity.
- Help customers stay secure
- Peace of mind that the product is backed by UL for cybersecurity

Wired or Wireless, code-compliant and cost-effective for today's
Electrician

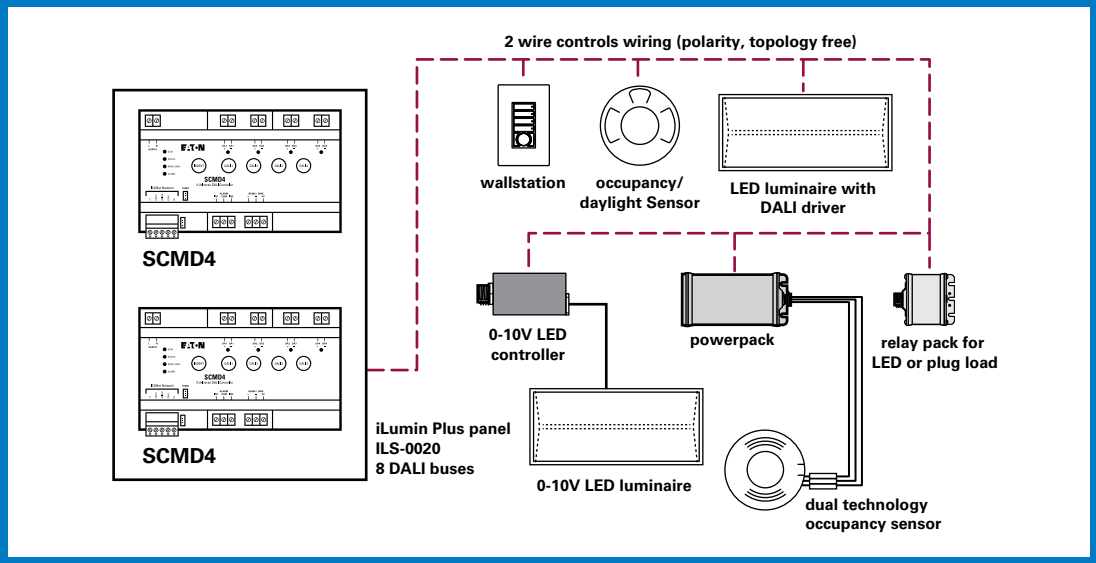


WaveLinx

Wired

Your wired solution to control complete building lighting via area (relay), zone (0-10v) or fixture (2-wire or DMX) all from one system.

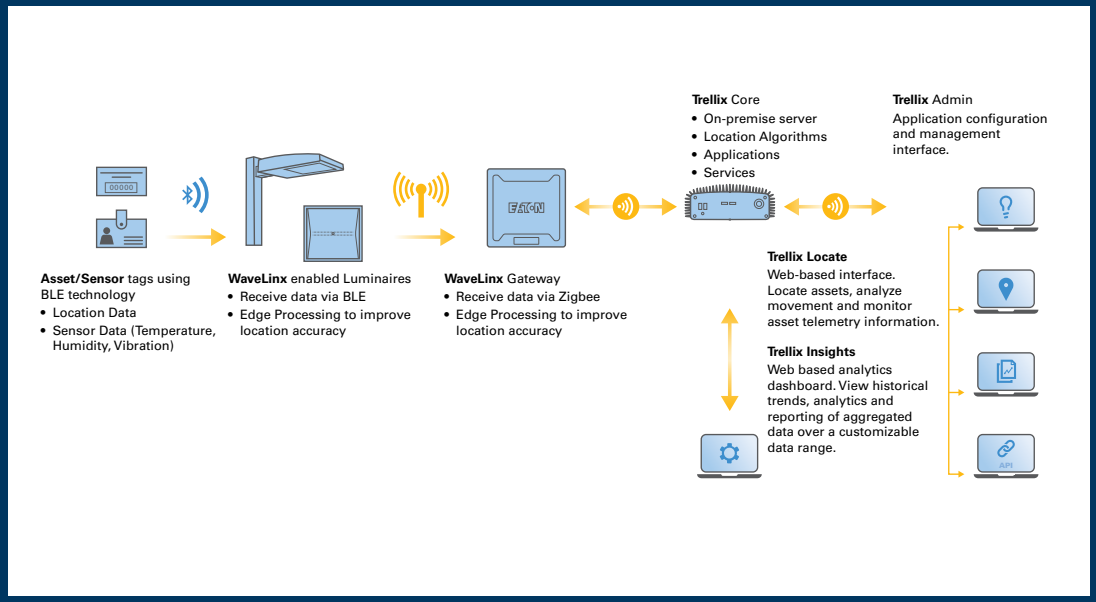
- Simplified control wiring
- Achieve more wired applications
- Control a floor or entire building



Wireless

Electrical Contractors use basic wiring practices they already know to complete projects and get off the job faster with the most comprehensive and cost effective system on the market.

- No special wiring required
- Get more jobs done faster
- Feel safe with industry best UL2900 listing
- Control a room, floor or entire building





Notes



Lighting Product Lines

Ametrix
AtLite
Corelite
Ephesus
Fail-Safe
Halo
Halo Commercial
Invue
io
Iris
Lumark
Lumière
McGraw-Edison
Metalux
MWS
Neo-Ray
Portfolio
RSA
Shaper
Streetworks
Sure-Lites

Controls Product Lines

Fifth Light Technology
Greengate
iLight (International Only)
iLumin
Zero 88

Connected Lighting Systems

Distributed Low-Voltage Power
HALO Home
iLumin Plus
WaveLinx
Trellix

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