

Connected Buildings
Product Selection Guide



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.

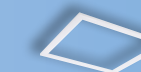
The product selection guides are simple yet powerful tools to help assist with product comparisons and selection based on features, performance and value.

- 2-3 Commercial LED Recessed** - Panels and Troffers
- 4-5 Commercial LED Linear Ambient** - Strips and Wraps
- 6 Industrial LED** - High Bay
- 7 Industrial LED** - Vaportite



Good

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| APPLICABILITY ¹ | | Backlit CGT | Backlit CGTS ² | Edgelit FP | Edgelit FPS | Backlit MMS | Backlit CGTX | Edgelit FPX | Backlit CGSB | Surround SFS |
|----------------------------|--------------------|----------------|---|---------------|----------------|-------------------------------|---------------------------|----------------|-----------------|-------------------------|
| | Education | ★★★ | ★★★ | ★★★ | ★★★ | ★★★ | ★★★ | ★★★ | ★★★ | ★★★ |
| | Office | ★★ | ★★ | ★★ | ★★★ | ★★★ | ★★★ | ★★★ | ★★ | ★★★ |
| | Healthcare | ★ | ★★ | ★ | ★ | ★★ | ★★ | ★★ | ★★★ | ★★ |
| | Retail | ★★ | ★★ | ★★★ | ★★★ | ★★★ | ★★★ | ★★★ | ★★ | ★★★ |
| FEATURES / PERFORMANCE | Sizes | 1x4, 2x2, 2x4 | 1x4, 2x2, 2x4 | 1x4, 2x2, 2x4 | 1x4, 2x2, 2x4 | 1x1, 1x2, 6"x4, 1x4, 2x2, 2x4 | 1x4, 2x2, 2x4 | 1x4, 2x2, 2x4 | 1x4, 2x2, 2x4 | 1x2, 1x4, 1x8, 2x2, 2x4 |
| | lm/W (Max) | 115 | 159 | 136 | 120 | 145 | 137 | 130 | 140 | 149 |
| | Lum (Max) | 5,300 | 6,900 | 7,000 | 6,500 | 6,200 | 10,000 | 6,400 | 9,300 | 8,500 |
| | Life (@60K) | L84 | L86 | L86 | L87 | L82 | L88 | L87 | L86 | L88 |
| | Lens | Frost, Smooth | Frost, Smooth | Frost, Smooth | Frost, Smooth | Frost, Smooth | Frost - Smooth, Prismatic | Frost, Smooth | Frost, Smooth | Frost, Smooth |
| | Service from Below | No | No | No | No | Yes in Surface Mount | No | No | Yes | No |
| | Emergency | Remote | Stock Integrated 8W EBP, Other Options Remote Test Switch | Remote | Remote | Integrated in Recessed Mount | Integrated | Integrated | Integrated | Remote |
| | CRI | 80+ | 80+ | 80+ / 90+ | 80+ | 90+ | 80+ / 90+ | 80+ | 80+ / 90+ | 80+ |
| | Sensor Location | Tile Mount | WLS Integrated | Tile Mount | Tile Mount | Tile Mount | Integrated | Integrated | Integrated | Tile Mount |
| | DLC | Standard | Standard | Standard | Standard | Standard/Premium | Premium | Premium | Standard | Standard/Premium |
| | Door | No - see CGSB | No - see CGSB | No - see CGSB | No - see CGSB | No - see CGSB | No - see CGSB | No - see CGSB | Yes | No - see CGSB |
| | Air Venting | No | No | No | No | No | No | No | No | Standard |
| | Lumen / CCT Select | No | Yes | No | Yes | Yes | No | No | No | Yes |
| | VividTune™ | No | No | No | No | No | No | No | No | No |
| INTEGRATED CONTROLS | WaveLinX LITE | | ✓ | | | | ✓ | ✓ | ✓ | ✓ |
| | WaveLinX PRO | | | | | | ✓ | ✓ | ✓ | ✓ |

Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable. 2. CGTS-NUV also available (Canadian market only).

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| | | Center Basket CBRK | Flat Lens GR | Center Basket Achieva ARS | Center Basket Cruze CZS | Cruze ST | Cruze SB | RLN | Ovation | Accord | SkyRidge | Encounter |
|----------------------------|--------------------|-----------------------|--------------------|------------------------------|--|--|---------------------------------|-----------------|------------------|-----------------|----------------------|----------------------------|
| APPLICABILITY ¹ | Education | ★★★ | ★★★ | ★★★ | ★★★ | ★★★ | ★★★ | ★★ | ★★ | ★ | ★ | ★★ |
| | Office | ★★ | ★★ | ★★ | ★★★ | ★★★ | ★★ | ★★★★ | ★★★★ | ★★★★ | ★★★★ | ★★★★ |
| | Healthcare | ★ | ★★ | ★★ | ★★ | ★★ | ★★★ | ★★ | ★ | ★★ | ★★ | ★★★ |
| | Retail | ★ | ★★ | ★★ | ★★★ | ★★★ | ★★ | ★★ | ★★★★ | ★★ | ★★ | ★★ |
| FEATURES / PERFORMANCE | Sizes | 1x4, 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 | 1x2, 1x4, 2x2, 2x4 | 1x2, 1x4, 2x2, 2x4, Metric |
| | lm/W (Max) | 168 | 140 | 146 | 156 | 157 | 157 | 139 | 109 | 127 | 150 | 141 |
| | Lumens (Max) | 4,700 | 18,000 | 8,000 | 6,500 | 17,000 | 7,500 | 8,000 | 5,000 | 7,300 | 6,400 | 7,400 |
| | Life (@60K) | L85 | L89 | L90 | L90 | L90 | L84 | L93 | L89 | L89 | L92 | L92 |
| | Lens | Frost, Ribbed | Frost, Prismatic | Round or Square Ribbed | Round or Square, Frost - Ribbed or Smooth, Perf Inlays | Round or Square, Frost - Ribbed or Smooth, Perf Inlays | Round, Frost - Ribbed or Smooth | Frosted Acrylic | Metal Perforated | Frosted Acrylic | Acrylic (WaveStream) | Acrylic (WaveStream) |
| | Service from Below | Yes | Yes | No | No | No | Yes | Yes | No | Yes | No | No |
| | Emergency | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| | CRI | 80+ | 80+ | 80+ / 90 | 80+ | 80+ / 90 | 80+ / 90 | 80+ / 90 | 80+ | 80+ | 80+ | 80+ / 90 |
| | Sensor Location | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Tile Mount | Integrated | Integrated | Integrated |
| | DLC | Premium | Standard / Premium | Standard / Premium | Standard / Premium | Standard / Premium | Premium | Premium | Standard | Premium | Premium | Premium |
| | Door | No | Yes | No - see Cruze SB | No - see Cruze SB | No - see Cruze SB | Yes | No | No | No | No | No |
| | Air Venting | Yes | No | No | Yes | Yes | No | No | Yes | Yes | Yes | Yes |
| | Lumen / CCT Select | Yes | Yes | Yes | Yes | No | Yes | No | No | No | Yes | No |
| | VividTune™ | No | Tunable White | No | No | Tunable White | Tunable White | Tunable White | No | No | No | Tunable White |
| INTEGRATED CONTROLS | WaveLinX LITE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ |
| | WaveLinX PRO | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

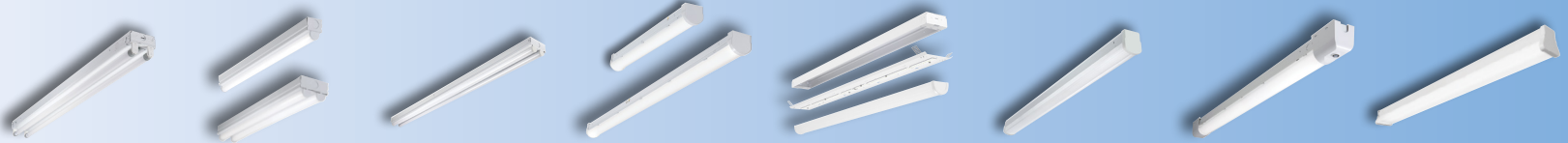
Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable

Good

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| | | SLES ² | ST | ST2 DIM | SLSTP | SSRK Retrofit | SNX | SRL | MicroBay |
|----------------------------|-------------------------------------|-------------------------------|-------------------------------|------------------|------------------------------|----------------|-----------------------------------|-------------------|----------------|
| 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' | 2', 4', 8' |
| | lm/W (Max) | 167 (8ft) | 108 | 122 | 148 | 159 | 176 | 149 | 175 |
| | Lum (Max) | 8,700 | 9,200 | 9,200 | 11,900 | 8,000 / 4 ft. | 22,000 | 11,000 | 20,000 |
| | Life (@60K) | L70/50K ³ | L70/50K | L70/50K | L70/50K | L94 | L87 | L82 | L87 |
| | Voltage | UNV | UNV | UNV | 120V, UNV, NUV (120-347V) | UNV | UNV, 347, 480V | UNV, 347, 480V | UNV, 347, 480V |
| | Dimming | N/A | No | 0-10V | Triac or 0-10V ⁵ | 0-10V | 0-10V, Step, Dali | 0-10V, Step, Dali | 0-10V, Dali |
| | Lens | None ⁴ | White, Single or Dual Lens | White, Dual Lens | Diffuse, Poly | Frost, Acrylic | Open, Round, FDL, Square, Refl | Frost, Acrylic | Multiple |
| | Emergency | Integrated | None | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| | CRI | 80+ | 80+ | 80+ | 80+ | 80+ | >80 / 90 | 80+ | 80+ / 90+ |
| | Sensor Location | Remote | Remote | Remote | Sensor Kit | N/A | Integrated | Integrated | Integrated |
| | DLC | Standard (TLED Lamps only) | Standard | Standard | Standard | Premium | Premium | Premium | Premium |
| | Lumen / CCT Select | No | No | CCT | CCT/Lumen | No | Yes, specific lumen only | No | Optional |
| INTEGRATED CONTROLS | Basic Occupancy | | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Stand Alone Daylight / Occupancy | | | | | ✓ | ✓ | ✓ | ✓ |
| | WaveLinx LITE | | | | | | ✓ | ✓ | ✓ |
| | WaveLinx | | | | | | ✓ | ✓ | ✓ |

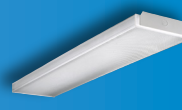
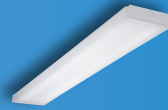
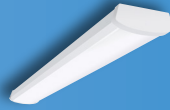
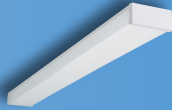
Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable. 2. w/T8 LED lamps included. 3. TLED lamp tested to B50 L70 requirement. LED lifetime means the length of time (in hours) until half of the LED light sources maintain at least 70% of their initial lumen output (B50, L70). 4. TLED CorePro lamp is glass tube. TLED MasterClass lamp is shatter resistant plastic. 5. 0-10V only applies to UNV or NUV inputs.

Good

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| | | WP | NWS | WNLED | WSNLED | BCLED | AWS / AWWS | SWLED |
|----------------------------|----------------------------------|----------------------|-----------------------|----------------|-----------------------|---------------|--|--------------------------------------|
| APPLICABILITY ¹ | Education | ★★ | ★★★ | ★★★ | ★★ | ★★ | ★★★ | ★★★ |
| | Office | ★ | ★★ | ★★ | ★★★ | ★ | ★★★ | ★★★ |
| | Healthcare | ★ | ★ | ★ | ★★ | ★★ | ★★ | ★ |
| | Retail | ★ | ★★ | ★ | ★★★ | ★ | ★★★ | ★ |
| | Industrial | ★ | ★★ | ★★ | | | ★ | ★★ |
| | Residential | ★★★ | | ★ | ★ | ★ | ★★ | |
| FEATURES / PERFORMANCE | Sizes | 2' and 4', 5.1" wide | 2', 4' / 5.3" wide | 2', 4' | 2', 4' | 2', 4' | 2', 4', 8' / 5.5" & 10" Wide | 4' |
| | lm/W (Max) | 114 | 129 | 118 | 108 | 120 | 165 | 150 |
| | Lum (Max) | 3,400 | 4,900 | 5,000 | 6,500 | 4,800 | 13,000 | 8,000 |
| | Life (@60K) | L70/50K | L82 | L88 | L87 | L82 | L90 | L91 |
| | Lens | Prismatic Acrylic | Diffuse, Acrylic | Frost, Acrylic | Frost + Film, Acrylic | Frost, Smooth | (Vandal Resistant) Ribbed Frost, Polycarb | (Vandal Resistant) Frost, Acrylic |
| | Emergency | No | Remote | Integrated | Integrated | Integrated | Integrated | Integrated |
| | CRI | 80+ | 80+ | 80+ | 80+ | 80+ | 80+, 90+ | 80+ |
| | Row Mount | N/A | Yes | Yes | Yes | Yes | Yes | No |
| | Sensor Location | N/A | Integral, Microwave | N/A | N/A | N/A | Integrated | Integrated |
| | DLC | Standard | DLC, Title 24 Non-Res | Standard | Standard | None | DLC, Title 24 Res | Standard |
| | Lumen / CCT Select | No | CCT/Lumen | No | No | No | CCT/Lumen | No |
| INTEGRATED CONTROLS | Basic Occupancy | | ✓ | | | | ✓ | ✓ |
| | Stand Alone Daylight / Occupancy | | | | | | ✓ | ✓ |
| | WaveLinx LITE | | | | | | ✓ | ✓ |
| | WaveLinx | | | | | | ✓ | ✓ |

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

Good

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| | | EZBY | SPHB | VHB | UHBS2 | CZL | Steeler | OHB(L) | Benchmark |
|----------------------------|----------------------------------|-----------------|----------------|-------------------|--------------------|----------------|----------------|-----------------|-----------------|
| APPLICABILITY ¹ | Big Box Retail | ★ | ★★★ | ★ | ★★★ | ★★★ | ★★ | ★★★ | ★ |
| | Sports / Recreation | ★ | ★★ | ★★ | ★★ | ★ | ★★★ | ★★★ | ★★ |
| | Warehouses | ★★★ | ★★★ | ★★★ | ★★★ | ★★ | ★★★ | ★★★ | |
| | Manufacturing | ★★ | ★★ | ★★ | ★★★ | ★ | ★★★ | ★★★ | ★★★ |
| | Cold Storage | ★ | ★★ | ★★★ | ★★★ | ★ | ★ | ★★★ | ★★ |
| | Large Indoor | ★ | ★★ | ★ | ★★ | | ★★ | ★★★ | ★★ |
| | Complex Environments | ★ | | | ★★ | | ★ | | ★★★ |
| FEATURES / PERFORMANCE | Lumen Range | 18,000 - 30,000 | 9,000 - 60,000 | 9,000 - 48,000 | 12,000 - 36,000 | 5,000 - 32,000 | 9,000 - 30,000 | 9,000 - 100,000 | 12,000 - 70,000 |
| | Selectable | Lumens/CCT | Lumens/CCT | Lumens | Lumens/5CCT | | | | |
| | Efficacy (Max) | 150 lm/W | 172 lm/W | 164 lm/W | 180 lm/W | 176 lm/W | 152 lm/W | 205 lm/W | 181 lm/W |
| | CRI | 80 | 70, 80, 90 | 70, 80, 90 | 80 | 80, 90 | 80, 90 | 70, 80, 90 | 70, 80 |
| | Distribution | M | N, M, W | N, W | Selectable N, M, W | Multiple | N, M, W | N, M, W | N, M, W |
| | Sizes | 13.4" | 18", 26", 42" | < 2' | 12"/14.1"/16" Dia | 4', 8' | 17" Dia | Scalable | 17", 25" Dia |
| | Housing ² | Diecast | CRS | CRS / Extruded | Diecast | CRS | CRS / Diecast | CRS | Diecast |
| | Lensing | Acrylic | Polycarbonate | Polycarbonate | Polycarbonate | Multiple | Polycarbonate | Acrylic | Acrylic |
| | Uplight | None | Optional | None | None | Optional | Up to 10% | None | None |
| | Life (@ 60K hrs) | L91 | L88 | L83 | L91 | L89 | L88 | L96 | L92 |
| | Ambient Range | -20C to 50C | -40C to 55C | -40C to 55C | -40C to 50C | -40C to 65C | -40C to 55C | -40C to 55C | -40C to 65C |
| | Emergency | Remote | Integrated | Remote | Remote | Integrated | Remote | Integrated | Remote |
| | Ratings | IP65 | Damp | Damp | IP65, NEMA 4X, NSF | Damp | IP65 Optics | Damp | IP66 |
| | DLC | Premium | Premium | Standard, Premium | Premium | Premium | Premium | Premium | Premium |
| INTEGRATED CONTROLS | Basic Occupancy | | | ✓ | | ✓ | ✓ | ✓ | ✓ |
| | Stand Alone Daylight / Occupancy | Sensor Port | Sensor Port | ✓ | Sensor Port | ✓ | ✓ | ✓ | ✓ |
| | WaveLinx | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| | Enlighted ³ | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |

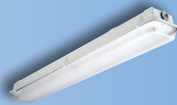
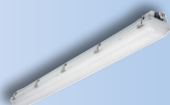
Notes: 1. ★★ = high applicability, ★ = medium applicability, ★ = low applicability, blank = non-applicable
2. CRS=Cold-rolled Steel, Extruded=Extruded Aluminum, Diecast=Diecast Aluminum.
3. Location data for asset tracking.

Good

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| | | APVT-S | VT2 | VT3 | VT4S | VT4 |
|----------------------------|----------------------------------|----------------|------------------------|------------------------|------------------------|------------------------|
| APPLICABILITY ¹ | Canopy | ★★ | ★★ | ★★ | | |
| | Storage | ★★★ | ★★★ | ★★ | | |
| | Parking Garage | ★★ | ★★ | ★★★ | | |
| | Warehouse | ★★ | ★★★ | ★★★ | ★ | ★ |
| | Food Processing | ★★ | ★★ | ★★★ | ★★ | ★★ |
| | Manufacturing | | ★★ | ★★ | ★★★ | ★★★ |
| | Complex Environments | | ★ | ★★★ | ★★★ | ★★★ |
| FEATURES / PERFORMANCE | Lumen Range | 3,000 - 11,600 | 2,000 - 22,000 | 2,000 - 8,000 | 9,000 - 18,000 | 9,000 - 30,000 |
| | Selectable | Lumens / CCT | N/A | Lumens / CCT | N/A | N/A |
| | Efficacy (Max) | 151 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 | 4', 8' | 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 | IP65 | 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) | L89 | L91 | L91 | L91 | L92 |
| | Ambient Range | -20C to 40C | -40C to 35C | -40C to 50C | -40C to 40C | -40C to 40C |
| | Emergency | Yes | 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 | ✓ | | ✓ | | ✓ |
| | LumaWatt Pro 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.

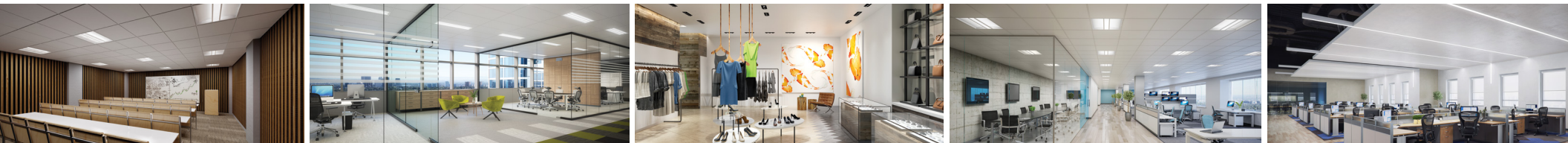
Corelite Neo-Ray

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**



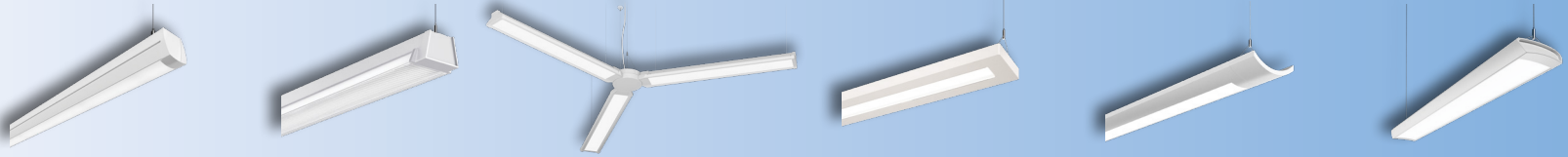
Architectural LED

Linear Suspended

Good

Better

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| | | Hugo | RZL | WSLA | Jaylum | Iridium i3 | Continua CTA |
|------------------------|----------------------------------|-----------------------------------|---------------------------------|---|--------------------|--------------------|------------------------------|
| APPLICABILITY | 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

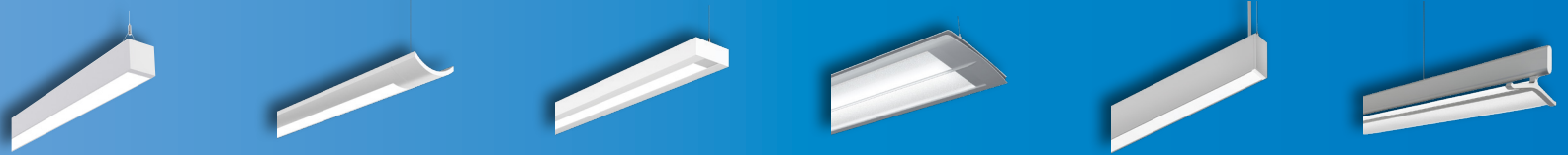
Architectural LED

Linear Suspended (continued)

Metalux | Corelite | Neo-Ray

Best

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to learn more



| | | Continua SQ4 | Iridium i2 WaveStream | Element/Loft/Vertechs WaveStream | Divide | Define | Converge |
|------------------------|----------------------------------|---|--------------------------|----------------------------------|---|--|------------------------------|
| APPLICABILITY | 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 | | | | | | ✓ |

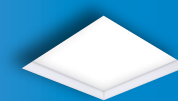
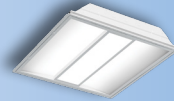
Notes: 1. ★★★ = high applicability, ★★ = medium applicability, ★ = low applicability, blank = non-applicable

Good

Better

Best

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to learn more



| | | Class RX/ZX | Class D3X | Class R2X | Bridge | Perceive | 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 | 1x4, 2x2, 2x4, 4x4 | 1x4, 2x2, 2x4 |
| | lm/W (Max) | 145 | 139 | 134 | 118 | 137 | 127 | 137 |
| | Lumens (Max) | 7600 | 7800 | 8000 | 7300 | 9,000 | 9000 | 7500 |
| | Life (@60K) | L94 | L93 | L87 | L80 | L85 | L84 | L87 |
| | Lens | Round (R), Flat (Z) Frost - Smooth | Frost - Smooth, Perf Inlays | Round (R), Frost - Smooth | Acrylic (Wavestream), Perf Inlays | Acrylic (Perceive Optics) | 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 | Integrated, Indicator is Remote | Integrated |
| | CRI | 80+ / 90 | 80+ / 90 | 80+ / 90 | 80+ / 90 | 80+ / 90 | 80+ | 80+ / 90 |
| | Sensor Location | Integrated | Integrated | Tile Mount | Integrated | Integrated | Tile Mount | Integrated |
| | DLC | Standard | Standard | Standard | Standard | Premium | Premium | Premium |
| | Air Return | Yes | None | Yes | Yes, concealed | None | No | None |
| | VividTune™ | Tunable White | Tunable White | No | No | Yes | No | No |
| INTEGRATED CONTROLS | WaveLinx Lite | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| | WaveLinx Pro | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| | WaveLinx, No Sensor | ✓ | ✓ | | | ✓ | ✓ | |
| | Enlighted | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | DLVP | ✓ | ✓ | | ✓ | ✓ | ✓ | |

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

Architectural Linear LED

Lines of Light

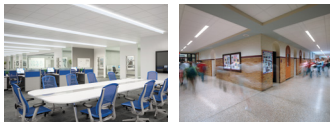
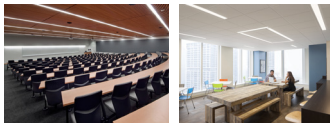
Metalux | Corelite | Neo-Ray

Good

Better

Best

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.



Click on products to learn more

| | | 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

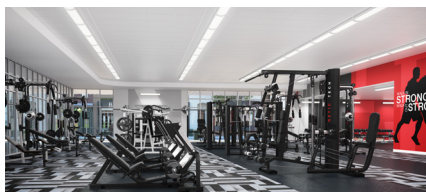
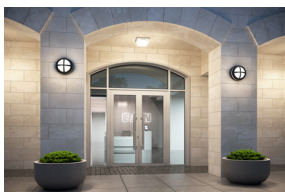
Fail-Safe

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

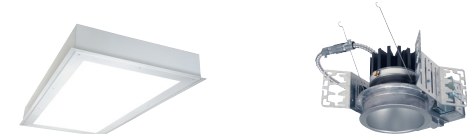
- Green LEDs used as auxiliary and supplemental lighting to primary white LEDs.
- If requested by the surgical staff, green LEDs are available for specification.

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to learn more



| | 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 tamper resistant 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

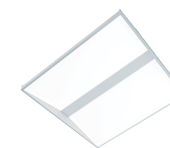
- Antimicrobial Matte White paint finish protects against disease propagation.

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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 |
| Tamper Resistant | Standard | Standard | Standard |
| NSF | Standard | | |
| CRI | 80, 90 | 80, 90, 97 | 80, 90 |

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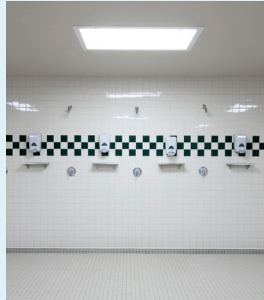
| | FCZ | ENW |
|--------------------|---------------------------|------------------------------------|
| Sizes | 1' x 4', 2' x 2', 2' x 4' | 1' x 2', 1' x 4', 2' x 2', 2' x 4' |
| Mounting | Recessed troffer | Recessed troffer |
| Max lumens | 7,500 | 6,100 |
| UL Location Rating | Wet | Wet |
| IP Rating | IP65 | IP66 |
| Wipedown | Standard | Standard |
| Tamper Resistant | Optional | Optional |
| NSF | Standard | 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

Click on products to learn more



| | | 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

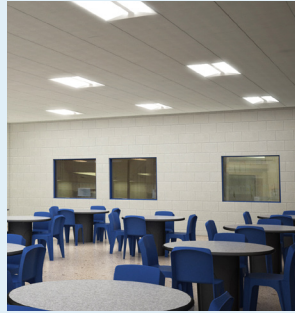
Offices



Entrances



Waiting Areas



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

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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

| 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 |
| Areas | Unsupervised Areas | | | | | |
| | Supervised Areas | | | | | |
| | Non-Correctional Areas | | | | | |

Control Systems

| | | TCS Touch Control System | SPS Security Push System | Commercial Switch / Dimmer |
|-----------------|--------------------------|--|---|---|
| Control Systems | TCS Touch Control System | <ul style="list-style-type: none"> • High security capacitive touch bolt • Remote override capacity • Integral to fixture or remote in wall | <ul style="list-style-type: none"> • Security push switch, integral to fixture • Local single fixture/circuit control | <ul style="list-style-type: none"> • Non-tamper resistant • Offers on/off and dimming |
| | SPS Security Push System | | | |
| | Commercial Switch Dimmer | | | |

Linear Vandal Resistant LED

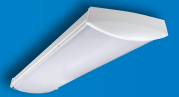
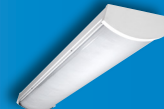
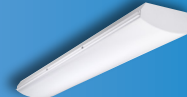
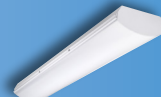
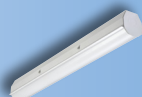
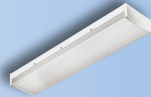
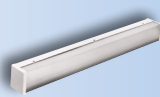
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| | | FVS4 | FVS8 | HVSL2 | HVSL4 | HVSL8 | HVSL12 | HVL8 | HVL12 |
|----------------------------|-----------------------------------|----------------|----------------|----------------|--------------------|-------------|--------------|----------------|----------------|
| 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

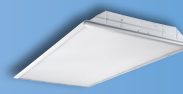
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| | | FLD4B | FLD6B | UCLV | GRV | FSP | FCZ | ENV | FSN |
|----------------------------|-------------------------|----------|----------|----------------|---------------|---------------|---------------|--------------------|--------------------------------|
| 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' |
| | Mounting | Recessed | Recessed | Undercabinet | Recessed | Recessed | Recessed | Recessed | Recessed or Surface/Suspension |
| | Maximum Lumen Output | 4,000 | 7,000 | 2,400 | 17,000 | 6,400 | 7,500 | 6,200 | 4,121 (4ft) |
| | Maximum Lens Thickness | 0.187" | 0.500" | 0.187" | 0.187" | 0.375" | 0.250" | 0.375" | 0.250" |
| | Emergency | Optional | Optional | N/A | Optional | Optional | Optional | Optional | Optional |
| | Occupancy | N/A | N/A | Optional | N/A | N/A | N/A | N/A | N/A |
| CERTIFICATIONS | IP | IP66 | IP66 | IP63 | N/A | IP65/IP66 | IP65 | IP66 | IP66 |
| | Wet Location | Standard | Standard | N/A | N/A | Standard | Standard | Standard | Standard |
| | NSF | Standard | Standard | N/A | N/A | Standard | Standard | Standard | Standard |

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

Vandal Resistant Wall Packs

LED

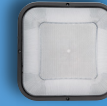
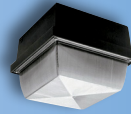
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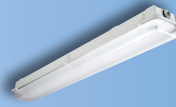
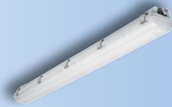
| | | B95 | H12 | G12 | TR11 | TR15 |
|----------------------------|--------------------------|-------------------|------------------|------------------|-----------|-----------|
| APPLICABILITY ¹ | Behavioral Health | ★★ | ★★ | ★★ | ★★★ | |
| | Outdoor Vandal Resistant | ★★★ | ★★★ | ★★★ | ★★★ | |
| |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

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

Vandal Resistant Vaportite LED

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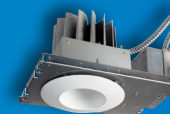
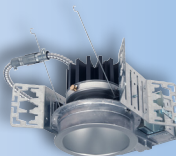
| | | VRVT1 | VRVT2 | VRVT3 | VRVT4S | VRVT4 |
|----------------------------|----------------------------------|----------------|---|------------------------|-----------------------------|-----------------------------|
| APPLICABILITY ¹ | Canopy | ★★ | ★★ | ★★ | | |
| | Parking Garage | ★★ | ★★ | ★★★ | | |
| | Warehouse | ★★★ | ★★★ | ★★★ | ★ | ★ |
| | Food Processing | ★ | ★★ | ★★★ | ★★ | ★★ |
| | Manufacturing | ★★ | ★★ | ★★ | ★★★ | ★★★ |
| | Complex Environments | ★ | ★ | ★★★ | ★★★ | ★★★ |
| | Natorium | ★ | ★★ | ★★★ | ★★★ | ★★★ |
| | Vivarium | | ★★★ | ★★★ | ★★★ | ★★★ |
| FEATURES / PERFORMANCE | Lumen Range | 3,500 - 12,000 | 2,000 - 22,000 | 2,000 - 8,000 | 9,000 - 18,000 | 9,000 - 30,000 |
| | Efficacy (Max) | 150 lm/W | 150 lm/W | 154 lm/W | 165 lm/W | 146 lm/W |
| | Distribution | General | General, Wide | General, Wide, Parking | General | General |
| | Lengths | 4', 8' | 2', 4', 8' | 2', 4' | 2' | 4' |
| | Housing | Polycarbonate | Fiberglass housing is reinforced polyester and selfextinguishing (ASTM-D635-74) plastic | Fiberglass/Polyester | Polycarbonate | Polycarbonate |
| | Lens | Polycarbonate | Polycarbonate | Polycarbonate | DR Acrylic or Polycarbonate | DR Acrylic or Polycarbonate |
| | Wet Location | Yes | Yes | Yes | Yes | Yes |
| | IP Rating | IP65 | IP65 | IP65, 66, 67 | IP65, 66, 67, 69 | IP65, 67 |
| | NSF | Yes | Yes | Yes | Yes | Yes |
| | NEMA 4X | None | None | Yes | Yes | Yes |
| | Life (@60K hrs) | L70 @60K | L91 @61K | L91 @61K | L70 @60K | L70 @60K |
| | Ambient Range | -20C to 45C | -40C to 35C | -40C to 50C | -40C to 40C | -40C to 40C |
| | Emergency | Yes | Yes | Yes | Yes | Yes |
| | Tamper-resistant | Standard | Standard | Standard | Standard | Standard |
| | Narrow Spectrum Color LED | N/A | 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

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 |
|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|----------------------------------|------------------------------|------------------------------|------------------------------|------------------|
| 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' |
| | Mounting | Grid | Grid | Grid | Grid | Grid | Grid | Grid | Grid | Grid/Flange/Surface | Surface |
| | Max Lumens | 18,000 | 18,000 | 6,400 | 7,500 | 7,500 | 7,000 | 7,000 | 24,000 | 24,000 | 4,121 (4ft) |
| | Sevice from Below | ✓ | ✓ | | ✓ | | | | ✓ | ✓ | |
| RATINGS | Wet Location | Standard | Standard | Standard | Optional | Standard | Optional (ENW) Standard (ENC) | Standard | Standard | Standard | Standard |
| | IP | – | – | IP66 Optional | – | IP65 Optional | IP66 | IP66 | IP65 | IP66 | IP66 |
| | NSF | – | – | Standard | – | Standard | Standard | Standard | Standard | Standard | Standard |
| | 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 ArcMed Recessed | FailSafe Sealed Panel | FailSafe Sealed Narrow | Encounter Vandal | FailSafe Downlight | Harmony Vandal Steel | FailSafe Wall LED | Multi-Purpose Wall |
|--------------------------------------|---|---|---|---|---|---|---|--|--|---|--|--|
| | APR | APN | MAE (w/door) | AID | FLR/FLR2 | FSP | FSN | ENV | FLD4 & FLD6 | HVSL8B | FWL | MWL |
| Polycarbonate Lens/ Thickness | 0.250" max | 0.250" max | 0.100" max | 0.250" max | 0.375" max | 0.375" max | 0.250" max | 0.250" max | 0.375" 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 Ceiling | Surface, Wall or Ceiling | Surface, Wall or Ceiling | Surface, Wall |
| Sizes / Lumen Ranges | 2x2 up to 8,940 2x4 up to 21,000 | Pair of 6" x 4" up to 8,400 | 2x2 up to 7,600 2x4 up to 15,000 | 2x2 up to 8,000 2x4 up to 9,000 1x4 up to 8,000 | 2x2 up to 6000 2x4 up to 10000 1x4 up to 8000 | 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 1x2 up to 3,500 | 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 |
| Listing | Damp standard / Wet location in process | Damp standard / Wet location available | Damp Location standard | Damp standard / Wet available | Wet Location, High Abuse, Medical/ Cleanroom | Wet Location standard | Wet Location standard | Wet Location standard | Wet Location standard | Damp Location standard | Damp Location standard | Damp Location standard |
| IP | IP65 available | IP65 available | — | IP65 available | IP65 & IP66 available | IP65 & IP66 available | IP66 available | IP66 | IP65 | IP63 | — | IP4X |
| NSF | — | Yes | — | Yes | — | Yes | Yes | Yes | Yes | — | — | — |
| ISO | — | — | — | ISO5-8 | ISO3-8 | — | ISO5-9 | ISO5-9 | — | — | — | — |
| IK | IK10 | IK10 | IK10 rating | IK10 with 0.25" Polycarbonate Lens | IK10 rating | IK10 with 0.25" Polycarbonate Lens | — | — | — | — | — | — |
| Ligature Resistant | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Anti-microbial Finish | — | Standard Anti-microbial | Available | Standard Matte White | — | Standard Matte White | Standard Matte White | Standard Matte White | 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 | Aluminum frame weld and ground | 50°C Ambient Rating | Flex Assembly for Continuous Run | Continue Encounter theme into complex areas | Open or Enclosed, Polycarbonate Lens to 0.375" 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, healthcare, educational and multi-housing residential spaces.

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Title 20 Appliance Database

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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- 28 LED Emergency Wet Location, Suitable for both Outdoor and Indoor**
- 29 LED Exit Products - Box Type**
- 30 LED Exits - Edge Lit**
- 31 Remote Products**
- 32 Emergency Battery Packs**



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| | APELMINI | APEL | AP2SQLED30 | SEL | XR6C-LED | SELM | SELHP100R3 | SELMREC | SELA50 | SELA | SELMTG |
|----------------------------------|----------------|----------------|----------------|-----------------------------|---------------------|------------------|---|--------------------------|--|---|--|
| Material | Polycarbonate | Polycarbonate | Thermoplastic | Polycarbonate | Sheet Metal | Sheet Metal | Thermoplastic | Sheet Metal | Thermoplastic | Polycarbonate | Sheet metal |
| Color | White | White or Black | White | White or Black | White | White | White | White or Black | White | White or Black | White or Black |
| Mounting | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Recessed wall or ceiling | Recessed ceiling | Recessed wall mount | Recessed T-grid mount |
| Coverage | 17 feet | 17 feet | 30 feet | 17/25/50/60 feet | 2 x 300 lumen heads | 25/50/60/80 feet | 100 feet | 25 or 60 feet | 50 feet | 29 feet | 60 feet |
| Battery | Nickel cadmium | Nickel cadmium | Nickel cadmium | Nickel cadmium | Nickel cadmium | Nickel cadmium | LiFePO4 | Nickel cadmium | Nickel cadmium | Nickel cadmium | Nickel cadmium |
| Remote Capability | No | ✓ (Option) | No | ✓ (Option) 4 to 16 watts | No | 4 to 16 watts | 3 watts | 4 to 10 watts | NiMH | No | 5 watts |
| Temp Range | 10° C to 40° C | 10° C to 40° C | 10° C to 40° C | 0° C to 40° C | 0° C to 40° C | 0° C to 40° C | 0° C to 50° C | 0° C to 40° C | 10° C to 40° C | 0° C to 40° C | 0° C to 40° C |
| Self-Diagnostics | No | No | No | ✓ (Option) | No | ✓ (Standard) | ✓ (Option) | ✓ (Standard) | ✓ (Option) | ✓ (Standard) | ✓ (Standard) |
| EZ Key Battery Disconnect | No | No | No | ✓ (with SD Models) | ✓ (Standard) | ✓ (Standard) | No | No | No | ✓ (Standard) | ✓ (Standard) |
| Laser Test | No | No | No | ✓ (with SD Models) | No | ✓ (Standard) | No | ✓ (Standard) | No | ✓ (Standard) | ✓ (Standard) |
| UL Rating | UL 924 Damp | UL 924 Damp | UL 924 Damp | UL 924 Damp | UL 924 Damp | UL 924 Damp | UL 924 Damp | UL 924 Damp | UL 924 Damp | UL 924 Damp | UL 924 Damp |
| Normally On | No | No | No | No | No | No | No | No | No | No | No |
| City of Chicago Compliant | No | No | No | No | ✓ (Standard) | ✓ (Standard) | No | ✓ (Standard) | No | No | ✓ (Standard) |
| Availability | Stock | Stock | Stock | Stock | Stock | Stock | Stock | Stock | Stock | Stock | Stock |
| Other | | | | | | | <ul style="list-style-type: none"> • Ideal for ceiling or wall mount • 3 Watt remote capacity allows up to 130 feet egress coverage | | <ul style="list-style-type: none"> • Architectural Fixture • Round and rectangular trims provided for design flexibility | <ul style="list-style-type: none"> • Architectural Fixture • Three shrouds available, "barrel" accepts wall treatment for fixture to blend into space | <ul style="list-style-type: none"> • Architectural, recessed T-grid mount |

LED Emergency Lighting - Wet Location, Suitable for both Outdoor and Indoor

Sure-Lites

Good

Better

Best

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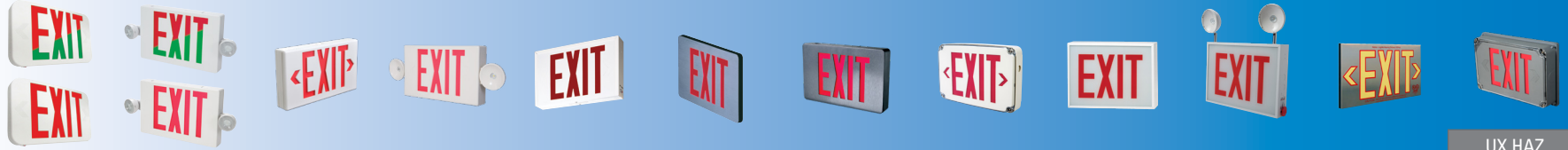
| | SELW | SELDWA | SELDWA50PS | AEL2 | SELIN60SD | SELD |
|----------------------------------|------------------------------------|------------------------------------|--|--|---------------------|---------------------------------|
| Material | Polycarbonate | Die cast AL | Die cast AL | Die Cast AL | Fiberglass | Die Cast AL |
| Color | Ag/BK/WH/BZ | Ag/BK/WH/BZ | Ag/BK/WH/BZ | Ag/BK/WH/BZ | Grey | Ag/BK/WH |
| Mounting | Surface | Surface, Mullion Mount option | Surface | Surface | Surface | Surface |
| Coverage | 25 feet | 29 or 50 feet | 29 or 50 feet | 25 feet | 25/50/60 feet | 60 feet |
| Battery | Nickel cadmium | Nickel cadmium | Nickel cadmium | Nickel cadmium | Nickel cadmium | Nickel cadmium |
| Remote Capability | No | No | No | No | 4 to 10 watts | No |
| Temp Range | 0° C to 40° C / -20° C to 55° C | 0° C to 40° C / -20° C to 55° C | 0° C to 40° C / -30° C to 40° C | -30° C to 55° C | 0° C to 40° C | -30° C to 50° C |
| Self-Diagnostics | No | ✓ (Standard) | ✓ (Standard) | ✓ (Standard) | ✓ (Standard) | ✓ (Standard) |
| EZ Key Battery Disconnect | No | No | No | No | No | No |
| Laser Test | No | No | No | No | ✓ (Standard) | ✓ (Standard) |
| UL Rating | UL 924 Wet | UL 924 Wet | UL 924 Wet | UL 924 Wet | UL 924 Wet, NEMA 4X | UL 924 Wet, NEMA 4X, HAZ option |
| Normally On | No | No | ✓ (Standard) | ✓ (Standard) | No | No |
| City of Chicago Compliant | No | ✓ (Standard) | ✓ (Standard) | ✓ (Standard) | No | ✓ (Standard) |
| Availability | Stock | Stock | Stock | Stock | Stock | Stock |
| Other | | | <ul style="list-style-type: none"> Architectural Look A/C on functionality: Dusk-to-down, switched on, always on, always off | <ul style="list-style-type: none"> Architectural Look A/C on functionality: Switched on, always on, always off | | |

Good

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| | APX | APC | LPX | LPXC | SLX | TPX | CX | LPXW | CHX | CHXC | PHL | UX HAZ UX NEMA 4X |
|---|--|--|---|---|---|------------------------------|---|----------------|----------------|--|---|---|
| Type | Box | Combo | Box | Combo | Box | Thin Profile/Box | Box | Box | Box | Combo | Thin Profile/Box | Box |
| Material | Thermoplastic | Thermoplastic | Polycarbonate | Polycarbonate | Steel | Die Cast AL | Die Cast | Polycarbonate | Steel | Steel | Aluminum | Die Cast AL |
| Mounting | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| Faces | Field Selectable | Field Selectable | Field Selectable | Field Selectable | Field Selectable | One or Two | Field Selectable | One or Two | One or Two | One or Two | One or Two | One or Two |
| Letter Color | Red or Green or  | Red or Green or  |  |  |  | Red or Green |  | Red or Green | Red | Red | Outline: Red or Green |  |
| Housing Color | WH, BK | WH, BK | WH, BK | WH, BK | White | AL, WH, BK | AL, WH, BK | AL, WH, BK | White | White | Aluminum | AL, WH, BK |
| Fire Alarm Interface | No | No | No | No | No | No | ✓ (Option) | No | No | No | No | No |
| 2nd Circuit (A/C Only) | ✓ (2C/2 Hot Option) | No | ✓ (Option) | No | ✓ (Option) | No | ✓ (Option) | No | No | No | No | ✓ (Option) |
| Battery (In Self-Powered Models) | Nickel Cadmium | Nickel Cadmium | Nickel Cadmium | Nickel Cadmium | Nickel Cadmium | Nickel Cadmium | Nickel Cadmium | Nickel Cadmium | Nickel Cadmium | Nickel Cadmium | No | Nickel Cadmium |
| Self-Diagnostics | No | No | ✓ (Option) | ✓ (Option) | ✓ (Standard) | No | ✓ (Option) | ✓ (Standard) | No | No | No | ✓ (Standard) |
| Laser Test Capability | No | No | ✓ (SD Models) | ✓ (SD, Remote Models) | No | No | ✓ (SD Models) | No | No | No | No | ✓ (Standard) |
| EZ Key Battery Disconnect | No | No | ✓ (SD Models) | SD Models | ✓ (Standard) | No | ✓ (SD Models) | No | ✓ (Standard) | ✓ (Standard) | No | No |
| Remote Capability | ✓ (Option) | ✓ (Option) | ✓ (Option) | ✓ (Option) | No | No | No | No | No | No | No | No |
| UL Rating | UL 924 Damp | UL 924 Damp | UL 924 Damp | UL 924 Damp | UL 924 Damp | UL 924 Damp | UL 924 Damp | UL 924 Wet | UL 924 Damp | UL 924 Listed | UL 924 Listed | UL 924 Wet, NEMA4X/HAZ |
| City of Chicago Compliant | No | No | No | No | No | No | No | No | Yes | ✓ (Standard) | No | No |
| Availability | Stock | Stock | Stock | Stock | Stock | Stock | Stock | Stock | Stock | Stock | Stock | Stock |
| Other | Contact factory for "2nd Circuit/2 Hot" models SALIDA face version available | 17 feet of egress coverage SALIDA face version available | | 25 or 50 feet of egress coverage | Signage options available | Suitable for floor proximity | Signage options available | Standard | | • 2 x 300 lumen heads/60 feet egress coverage • "Stair" signage available | Photoluminescent "Glow-in-the-Dark" yields 90 minutes of illumination | |

Good

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Best

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| | APXEL | ECHX | SCX | EU | EUX | ARCEL | ES | ELX |
|----------------------------------|---|--|---|--|---|--|--|--|
| Housing Material | Polycarbonate | Aluminum | Aluminum | Aluminum | Aluminum | Aluminum | Aluminum | Aluminum |
| Mounting | Surface | Universal | Universal | Surface / Recessed | Universal | Surface / Recessed | Surface / Recessed | Recessed |
| Pendant / Mullion Mount | No | No | No | ✓ (Pendant) | ✓ (Pendant, Mullion) | ✓ (Pendant, Mullion) | ✓ (Pendant, Mullion) | No |
| Faces | One or Two | One or Two | Universal | Universal | Universal | One or Two | One or Two | One or Two |
| Letter Color | Red or Green | Red Only | Red or Green | Red or Green | Red or Green | Red or Green | Red or Green | Red or Green |
| Lens Panel Color | White | White | 1 Face Clear 2 Faces Mirror | 1 Face Clear 2 Faces Mirror | Field Configurable: Clear, White, Mirror | Clear, White or Mirror | Clear, White or Mirror | Clear, White or Mirror |
| Chevron / Arrows | Field Selectable | Factory Install | Field Selectable | Field Selectable | Field Selectable | Field Selectable | Factory Install | Factory Install |
| Housing Color | White | AL, WH | AL | AL | AL, WH, BK | AL, WH, BK* | AL, WH, BK, BZ, PA | AL, WH, BK |
| Custom Color Available | No | No | No | No | No | No | Contact Factory | No |
| Fire Alarm Interface | No | No | No | No | No | ✓ (Standard) | No | No |
| 2nd Circuit (A/C Only) | No | No | No | ✓ (2C/2 Hot Option) | ✓ (Option) | No | No | ✓ (Option) |
| Battery | Nickel Cadmium | Nickel Cadmium | Nickel Cadmium | Nickel Cadmium | Nickel Cadmium | Nickel Cadmium | Nickel Cadmium | Nickel Cadmium |
| Self-Diagnostics | No | No | No | No | ✓ (Option) | ✓ (Standard) | No | No |
| EZ Key Battery Disconnect | No | No | No | No | ✓ (Standard) | ✓ (Standard) | No | No |
| Laser Test Capability | No | No | No | No | No | ✓ (Standard) | No | No |
| UL Rating | UL924 Damp | UL924 Damp | UL924 Damp | UL924 Damp | UL924 Damp | UL924 Damp | UL924 | UL924 |
| City of Chicago Compliant | No | ✓ (Standard) | No | No | No | No | No | No |
| Availability | Stock | Stock | Stock | Stock | Stock | Stock/*MTO Black | MTO | MTO |
| Benefits | <ul style="list-style-type: none"> • Value edge lit exit • In Stock • Self-adhesive field selectable chevrons = no ordering mistakes | <ul style="list-style-type: none"> • City of Chicago Compliant • Easy Ordering Process • In Stock | <ul style="list-style-type: none"> • Value edge lit exit • Universal surface mounting and recessed mounting in one box • Universal Faces • In Stock • Self-adhesive field selectable chevrons = no ordering mistakes | <ul style="list-style-type: none"> • Better Aesthetics • Universal Faces • Self-adhesive field selectable chevrons = no ordering mistakes • Contact factory for "2nd Circuit / 2 Hot" models | <ul style="list-style-type: none"> • Better Aesthetics • Universal Faces • Self-adhesive field selectable chevrons = no ordering mistakes • Labor savings self-diagnostics option | <ul style="list-style-type: none"> • Best Aesthetics • Slim profile, no visible screws • Multiple mounting options + square or round canopy for custom look • Self-adhesive field selectable chevrons = no ordering mistakes • Labor savings self-diagnostics standard • Stocked product = faster time to site | <ul style="list-style-type: none"> • Best Aesthetics • Multiple mounting options • Factory install chevrons for custom look • MTO • BAA Compliant | <ul style="list-style-type: none"> • Best Aesthetics • Recessed ceiling, wall, end mount • Recessed mounting box for rough-in / new construction • Factory install chevrons for custom look • MTO |

Good

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Best



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| | 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 | ✓ (Standard) | ✓ (Standard) | ✓ (Standard) | ✓ (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 |
| Compatibility | Compatible with: All-Pro remote capable exits, combo & emergency lights | Compatible with: Sure-lites remote capable exits, combo and emergency lights | Compatible with: Sure-lites remote capable exits, combo and emergency lights | Compatible with: Sure-lites remote capable exits, combo and emergency lights |

Wattage Output

Click on products
to learn more



| | EBPLEDL7W | EBPLED-7.5WSD | EBPLEDLP-10WSD | EBPLEDL14W | EBPLEDC1LV-20W | EBPLEDC1HV-20W |
|------------------------------|---------------------|--------------------------|--------------------------|---------------------|--------------------------|--------------------------|
| Fixture Compatibility | 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 |
| Power Output | 7W | 7.5W | 10W | 14W | 20W | 20W |
| Output Voltage | 8VDC to 55VDC | 15VDC to 50VDC | 8VDC to 52VDC | 16VDC to 55VDC | 20VDC to 50VDC | 125VDC to 200VDC |
| Battery | LiFePO ₄ | NiCad | NiCad | LiFePO ₄ | NiCad | NiCad |
| Self-Diagnostics | No | ✓ (Standard) | ✓ (Standard) | No | No | No |
| Battery Disconnect | ✓ (Standard) | No | No | ✓ (Standard) | 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 |
| UL Rating | Field ¹ | Factory or Field Install | Factory or Field Install | Field ¹ | Factory or Field Install | Factory or Field Install |
| Availability | Stock | Stock | Stock | Stock | Stock | Stock |

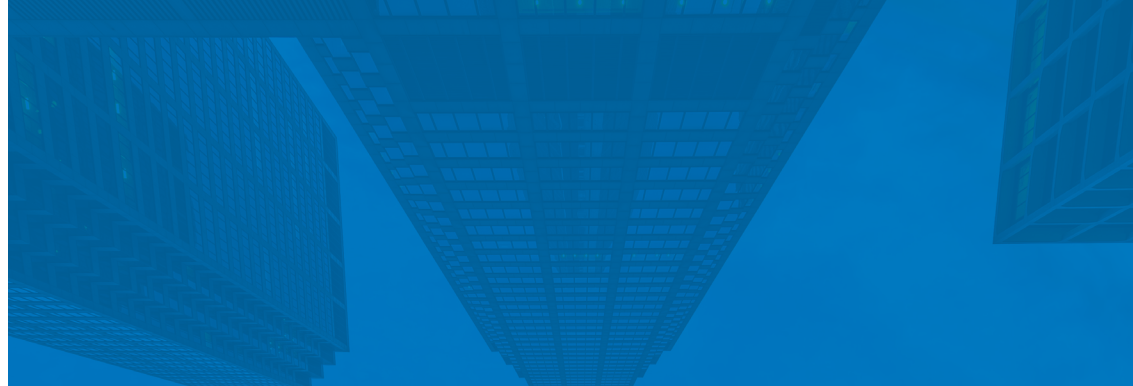
Notes: 1. Model EL7W and EL14W for factory install.

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.

34, 35



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



| 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

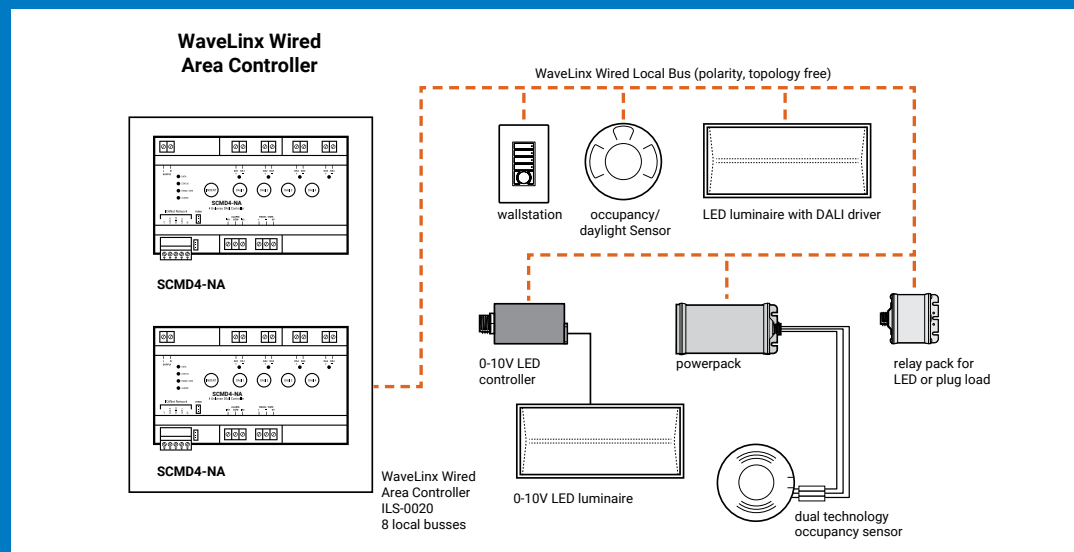
Wired or Wireless, code-compliant and cost-effective for today's Electrician



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.

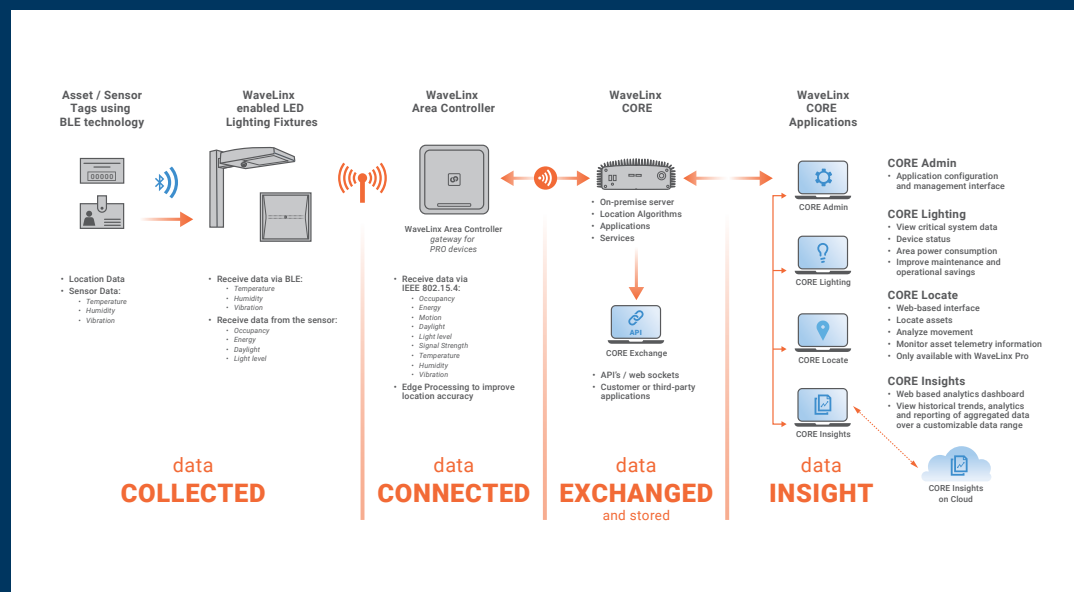
- Simplified control wiring
- Achieve more wired applications
- Control a floor or entire building

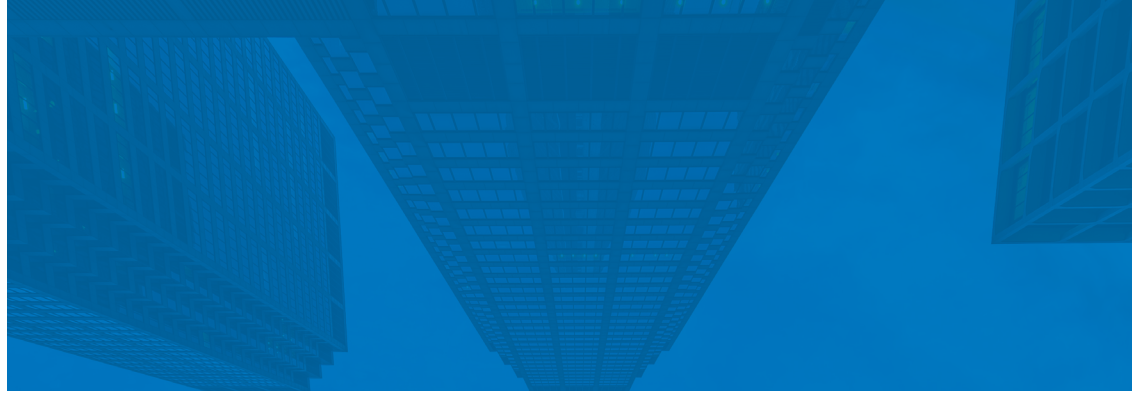


Wireless

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 Brands

Ametrix
AtLite
Corelite
Ephesus
Fail-Safe
HALO
HALO Commercial
Invue
iO
Iris
Lumark
LumarkAP
Lumière
McGraw-Edison
Metalux
MWS
NeoRay
Portfolio
PrentaLux - 3D Printed Lighting
RSA
Shaper
Streetworks
Sure-Lites

Controls Brands

Greengate
Fifth Light
Intelligent Lighting Controls

Connected Lighting Systems and Smart Spaces Platform

WaveLinx
Trellix Infrastructure



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