Dialight Obstruction LED Solutions
High, Medium & Low Intensity Products

APRIL 2019
DIALIGHT IS THE INNOVATION AND MARKET LEADER IN
LED OBSTRUCTION SOLUTIONS
FOR MORE THAN 20 YEARS

TRUSTED
Every Dialight LED Obstruction system is fully certified and compliant with FAA, ICAO, and international standards, for dependability and performance you can trust.

DIFFERENTIATED
Dialight offers the industry’s most comprehensive, energy-efficient and reliable line of LED-based obstruction solution systems in the world. Our precision patented optics ensure maximum safety with minimal ground scatter for community-friendly illumination.

CONVENIENT
Dialight systems offer a small, light-weight flash head for ease of installation, while our low-maintenance fixtures virtually eliminate tower climbs and unplanned site visits for years, dramatically reducing maintenance costs and non-compliance risk.

INTELLIGENT
Dialight controlled LED Obstruction solutions can be seamlessly integrated into existing operation and control centers while providing additional valuable information, both locally and remotely.
FEATURES & BENEFITS

• 5 year warranty
• Resistant to shock and vibration
• High impact polycarbonate lens with UV, scratch and chemical resistant coating
• Reduction in tower climbs for lower maintenance costs/unplanned site visits
• Smallest flash head in the industry
• Community friendly lighting system utilizing patented optics
Dialight’s LED Technology Innovations Over the Years

First ever FAA certified LED obstruction light

Vigilant® LED Based L-864/L-856 High Intensity System

2011 (White) Current (Red/White)

Vigilant® LED Based L-864 Red Beacon

2001 Current

Vigilant® LED Based L-864/L-865 Flashing Dual (Red/White) System

2007 Current

Patented Optics
Minimum ground scatter for a “community-friendly” lighting system

Dialight Timeline

| First ever FAA certified LED: |
|---|---|---|---|---|
| L810 | L864 | L864/L865 | L856 | L864/L856 |

Dialight (LSE: DIA.L) is leading the energy efficient LED lighting revolution around the world for industrial and hazardous areas as well as for transportation and infrastructure applications. For 40 years we have been committed to the development of LED lighting solutions that enable organizations to vastly reduce energy use and maintenance needs, improve safety, ease disposal and reduce CO2 emissions.
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## Medium Intensity Products

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## Low Intensity Products

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</table>
Vigilant® LED High Intensity System L-864 / L-856
High Intensity (Red/White) System

Certifications & Compliance
- FAA AC 150/5345 - 43H
- FAA EB No. 67D
- IP66
- Transport Canada Standard 621
- ICAO Annex 14
- DGAC Mexico

Features & Benefits
- 5 year warranty
- ETL verified to FAA standards
- Superior surge and lightning protection
- Controller can be mounted at the base of the structure
- IP66/NEMA 4X outdoor rated enclosures
- Low power consumption
- IP66 rated light fixtures
- Impact and vibration resistant
- Provision for padlock on the enclosure
- Patented optics for minimal down light/ground scatter
- Dry contacts for alarm monitoring/status
  - Photocell alarm
  - Sync alarm
  - White mode alarm
  - Red mode alarm
  - Communication
  - Operation mode (day/night)
  - Power fail

Technical Information:
- Flash head weight: 63 lbs (30 kg)
- Operating voltage: 208 – 277 VAC 50/60 Hz
- Effective intensity:
  - White Day - 270,000 cd
  - White Twilight - 20,000 cd
  - White Night - 2,000 cd
  - Red - 2,000 cd
- Wattage:
  - White Day - 220 W
  - White Twilight - 40 W
  - White Night - 30 W
  - Red - 30 W
- Power factor: > 0.9
- Ambient temperature: -40 °F to +131 °F (-40 °C to +55 °C)
- Synchronization: Multiple unit sync from single controller

All values typical unless otherwise stated (tolerance ± 10%)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Voltage</th>
<th>Certification/Compliance</th>
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</thead>
<tbody>
<tr>
<td>D266-A57-270</td>
<td>Flash head (120°) and power supply</td>
<td>208 – 277 VAC</td>
<td>FAA/TC/ICAO</td>
</tr>
<tr>
<td>D266-A57-CTRAC</td>
<td>Base controller w/ display</td>
<td>208 – 277 VAC</td>
<td>FAA/TC/ICAO</td>
</tr>
<tr>
<td>D256-6000-PEC</td>
<td>Day/Twilight/Night photocell w/ enclosure and 3/4 inch conduit entry</td>
<td>—</td>
<td>FAA/TC/ICAO</td>
</tr>
<tr>
<td>D266KITSTDAOL</td>
<td>Aviation obstruction light (AOL) &amp; power supply kit for FAA, Types C &amp; F</td>
<td>208 – 277 VAC</td>
<td>FAA/TC/ICAO</td>
</tr>
</tbody>
</table>

*Intertek verified FAA compliant system number D266A57SYS (system number not for order)
Vigilant® LED High Intensity System L-864 / L-856
High Intensity (Red/White) System
FAA Type B, C, F & G

Application
The Dialight Vigilant® High Intensity Red/White System is the first all LED L-864/L-856 unit designed for the lighting of communication towers, chimneys, smoke stacks, broadcast towers and other tall obstructions to aerial navigation, as specified by the FAA and ICAO.
Vigilant® LED Medium Intensity System L-864 / L-865
Medium Intensity (Red / White) System - Infrared (IR) or GPS models available

Certifications & Compliance
- FAA AC 150/5345 - 43H
- FAA EB No. 67D
- IP66
- Transport Canada Standard 621
- ICAO Annex 14
- DGAC Mexico

Features & Benefits
- 5 year warranty
- ETL verified to FAA standards
- Superior surge and lightning protection
- Patented optics for minimal down light / ground scatter
- Remote monitoring options available
- Integrated controller with LCD backlit display
- Universal 120–277 VAC input or 48 VDC input
- IP66/NEMA 4X outdoor rated enclosure
- GPS synchronized controller available
- Provisions for padlock on the enclosure

Cable
- Recommended UV rated 4 conductor cable with metal foil and braid.
  14AWG (2.08 mm2) for lengths up to 680’ (207 m) or 12AWG (3.31 mm2) for lengths above 680’ (207 m).
- Complete kits available: D1, E1, E1+1, E2, D2, E2+1 and D2+1

Technical Information:
- Flash head weight: 21 lbs (9.5 kg)
- Operating voltage: 120-277 VAC 50/60 Hz or 48 VDC power factor corrected supply
- Supply voltage ranges: Nominal ± 10%
- Effective intensity:
  - White Day - 20,000 cd
  - White Night - 2,000 cd
  - Red Night - 2,000 cd
- Flash head power:
  - White Day - 36 W (system = 75 w)
  - White Night - 4 W (system = 10 w)
  - Red Night - 12 W (system = 25 w)
- Power factor: > 0.9
- Operating temperature: -40 °F to +131 °F (-40 °C to +55 °C)
- Synchronization: Multiple unit sync from single controller

All values typical unless otherwise stated (tolerance ± 10%)

US Patents: #7,208,881 | #7,568,821 | #7,604,380 | #7,777,424 | #9,423,086 | #9,476,848 | #9,581,309
Vigilant® LED Medium Intensity System L-864 / L-865
Medium Intensity (Red/White) System - Infrared (IR) or GPS models available
FAA Type D & E

Application
Dialight’s LED based dual (Red/White) obstruction system is ideal for D & E style FAA communication tower types and can be used to mark other structures as well. The operation of the lights is configurable and fully monitored. The side markers can be run in steady burn or flashing mode. The lights are ETL verified to the FAA requirements.
Vigilant® LED Medium Intensity System L-864 / L-865
Medium Intensity (Red / White) System - Infrared (IR) or GPS models available

LED Flash Head (L-864 / L-865)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>D1RWFH409</td>
<td>Dual Red / White Medium Intensity Flash Head</td>
</tr>
<tr>
<td>D1CWFH409</td>
<td>Dual Red / White Medium Intensity Flash Head w/ IR*</td>
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</tbody>
</table>

LED Side Markers L-810 & L-810 (F)

<table>
<thead>
<tr>
<th>Input</th>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>12-48 VDC</td>
<td>RTO1R18001</td>
<td>L-810 Low Intensity Side Marker: DC Input</td>
</tr>
<tr>
<td>12-48 VDC</td>
<td>RTOCR08001</td>
<td>L-810 Low Intensity Side Marker w/ IR: DC Input*</td>
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</tbody>
</table>

Controllers

<table>
<thead>
<tr>
<th>Input</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>120-277 VAC</td>
<td>D1RWCTR409</td>
<td>Dual Red / White Medium Intensity Controller: AC Input</td>
</tr>
<tr>
<td>120-277 VAC</td>
<td>D1CWCTR409</td>
<td>Dual Red / White Medium Intensity Controller w/ IR: AC Input</td>
</tr>
<tr>
<td>120-277 VAC</td>
<td>D1RWCTR409GPS</td>
<td>Dual Red / White Medium Intensity Controller GPS: AC Input</td>
</tr>
<tr>
<td>48 VDC</td>
<td>D1RWCTR449</td>
<td>Dual Red / White Medium Intensity Controller: DC Input</td>
</tr>
<tr>
<td>48 VDC</td>
<td>D1CWCTR449</td>
<td>Dual Red / White Medium Intensity Controller w/ IR: DC Input</td>
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Power Supply

<table>
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<tr>
<th>Input</th>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>120-277 VAC</td>
<td>D1RWPS9409</td>
<td>Dual Red / White Medium Intensity Power Supply: AC Input</td>
</tr>
<tr>
<td>120-277 VAC</td>
<td>D1CWPS9409</td>
<td>Dual Red / White Medium Intensity Power Supply w/ IR: AC Input</td>
</tr>
<tr>
<td>48 VDC</td>
<td>D1RWPS9449</td>
<td>Dual Red / White Medium Intensity Power Supply: DC Input</td>
</tr>
<tr>
<td>48 VDC</td>
<td>D1CWPS9449</td>
<td>Dual Red / White Medium Intensity Power Supply w/ IR: DC Input</td>
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</tbody>
</table>

Photocell

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>D2566000PEC</td>
<td>Photocell: Single 3/4&quot; NPT Entry</td>
</tr>
<tr>
<td>D2566001PEC</td>
<td>GPS System Photocell: Two 3/4&quot; NPT Entries</td>
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</table>

GPS Antenna

<table>
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<tr>
<th>Part Number</th>
<th>Description</th>
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<tr>
<td>D1RWANT01</td>
<td>GPS Antenna</td>
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Cable

<table>
<thead>
<tr>
<th>Tower Height</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>up to 680 ft (207 m)</td>
<td>14 AWG (2.08 mm²) UV rated 4 conductor cable with metal foil and braid</td>
</tr>
<tr>
<td>above 680 ft (207 m)</td>
<td>12 AWG (3.31 mm²) UV rated 4 conductor cable with metal foil and braid</td>
</tr>
</tbody>
</table>

*Optically compliant to FAA Engineering Brief 98
** Intertek verified FAA compliant system numbers D1xWC1xx09SYS (System numbers not for order)
### Vigilant® LED Based L-864

Medium Intensity (Red) Beacon - Infrared (IR) models available

<table>
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<th>Part Number</th>
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<tr>
<td>D566A13001</td>
<td>L-864 Red Beacon</td>
<td>120–240 VAC</td>
<td>FAA (TC) L-864</td>
</tr>
<tr>
<td>D566A54001</td>
<td>L-864 Red Beacon</td>
<td>24–48 VDC</td>
<td>FAA (TC) L-864</td>
</tr>
<tr>
<td>RTO1R07001</td>
<td>L-810 Low Intensity Side Marker - single</td>
<td>120–240 VAC</td>
<td>FAA (TC) L-810</td>
</tr>
<tr>
<td>RTO1R07002</td>
<td>L-810 Low Intensity Side Marker - double</td>
<td>120–240 VAC</td>
<td>FAA (TC) L-810</td>
</tr>
<tr>
<td>RTO1R18001</td>
<td>L-810 Low Intensity Side Marker - single</td>
<td>12–48 VDC</td>
<td>FAA (TC) L-810</td>
</tr>
<tr>
<td>RTO1R18002</td>
<td>L-810 Low Intensity Side Marker - single</td>
<td>12–48 VDC</td>
<td>FAA (TC) L-810</td>
</tr>
<tr>
<td>RTO1R07001EU</td>
<td>ICAO Low Intensity Side Marker - single</td>
<td>120–240 VAC</td>
<td>ICAO only, 32 cd</td>
</tr>
<tr>
<td>RTO1R07002EU</td>
<td>ICAO Low Intensity Side Marker - double</td>
<td>120–240 VAC</td>
<td>ICAO only, 32 cd</td>
</tr>
</tbody>
</table>

#### Part Number | Description                        | Notes          | Certification / Compliance |
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<thead>
<tr>
<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>D566D0000PEC</td>
<td>Photocell: Single 3/4&quot; NPT Entry</td>
<td>—</td>
<td>FAA (TC) L-864</td>
</tr>
</tbody>
</table>

#### Controllers

<table>
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<th>Part Number</th>
<th>Description</th>
<th>Notes</th>
<th>Certification / Compliance</th>
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<tbody>
<tr>
<td>D5RB65CCTR</td>
<td>A0/A1 Red Controller (24–48 VDC)</td>
<td>2 outputs</td>
<td>FAA (TC) L-864/L-810</td>
</tr>
<tr>
<td>D5RB77CCTR</td>
<td>AD/A1 Red Controller (AC system)</td>
<td>2 outputs</td>
<td>FAA (TC) L-864/L-810</td>
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<tr>
<td>D5RE77CCTR</td>
<td>A2-A3 Non-Avian (A2-A6 Avian) Red Controller (AC system)</td>
<td>12 outputs</td>
<td>FAA (TC) L-864/L-810</td>
</tr>
<tr>
<td>D5RG77CCTR</td>
<td>A2-A6 Avian or Non-Avian Red Controller (AC system)</td>
<td>18 outputs</td>
<td>FAA (TC) L-864/L-810</td>
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#### Infrared (IR) Models

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<tr>
<td>D566R13001</td>
<td>L-864 Red Beacon w/ IR</td>
<td>120–240 VAC</td>
<td>FAA (TC) L-864</td>
</tr>
<tr>
<td>RTOCR07001</td>
<td>L-810 Low Intensity Side Marker w/ IR - single</td>
<td>120–240 VAC</td>
<td>FAA (TC) L-810</td>
</tr>
<tr>
<td>RTOCR07002</td>
<td>L-810 Low Intensity Side Marker w/ IR - double</td>
<td>120–240 VAC</td>
<td>FAA (TC) L-810</td>
</tr>
</tbody>
</table>

* Intertek verified FAA compliant system numbers D5R1x0xSYS (System numbers not for order) | * Optically compliant to FAA Engineering Brief 98

#### Certifications & Compliance
- FAA AC 150/5345 - 43H
- FAA EB No. 67D
- IP66
- Transport Canada Standard 621
- ICAO Annex 14
- DGAC Mexico

#### Features & Benefits
- 5 year warranty
- ETL verified to FAA standards
- Superior surge and lightning protection
- Patented optics for minimal downlight/ground scatter
- IP66/NEMA 4X outdoor rated enclosures
- Remote monitoring options available
- Provisions for padlock on the enclosure
- 6kV of surge protection
- Shock and vibration resistant

#### Technical Information:
- Flashhead weight: 18 lbs (8.2 kg)
- Flash rate: 20, 30, or 40 (±1%)
- Effective intensity: 2,000 cd
- Wattage: 3.3 W (16.7% duty circle) - standard
- Light intensity: 20 flashes per minute with 0.5 sec. on time
- Operating temperature: -40 °F to +131 °F (-40 °C to +55 °C)
- Power factor: > 0.9
- All values typical unless otherwise stated (tolerance ±10%)
Vigilant® LED Based L-810 / L-864 & L-810 / L-864 (F)
Red-Only Medium and Low Intensity Systems - Infrared (IR) models available

A0 (Avian)
0 ft - 150 ft
(0 m - 46 m)

A1 (Avian)
150 ft - 350 ft
(46 m - 107 m)

A2 (Avian)
350 ft - 700 ft
(107 m - 213 m)

A3 (Avian)
700 ft - 1,050 ft
(213 m - 320 m)

A4 (Avian)
1,050 ft - 1,400 ft
(320 m - 427 m)

A5 (Avian)
1,400 ft - 1,750 ft
(427 m - 533 m)

A6 (Avian)
1,750 ft - 2,200 ft
(522 m - 671 m)
Vigilant® LED Based L-810 & L-810 (F)
Low Intensity (Red) RTO Side Marker - Infrared (IR) models available

Certifications & Compliance
- FAA AC 150/5345 - 43H
- FAA EB No. 67D
- IP66
- German Air Traffic Control Notices for Pilots Part I, 6 January 2005
- FAA (TC) L-810(F)
- Transport Canada Standard 621
- ICAO Annex 14
- DGAC Mexico
- Nachrichten für Luftfahrer Teil I Langen, 6. Januar 2005

Features & Benefits
- ETL verified to FAA standards
- Superior surge and lightning protection
- Controllers available for all applications
- Compact, low power design
- Ideal for towers, stacks, wind turbines, buildings, etc.
- 360 degree coverage for each flash head
- Shock and vibration resistant
- Lighting kits available for standard towers

Technical Information:
Unit weight: 1.25 lbs (0.56 kg) (Retro unit)
2.00 lbs (0.91 kg) (Single unit)
4.60 lbs (2.09 kg) (Dual unit)
Supply voltage ranges: Nominal ±10%
Power factor: > 0.9 (All AC units)
Operating temperature: -40 °F to +131 °F (-40 °C to +55 °C)
Input AC frequency: 50/60 Hz
All values typical unless otherwise stated (tolerance ± 10%)

Part Number Description Voltage Certification / Compliance Wattage
RTO1R06001 Single Fixture 277 VAC FAA (TC) L-810(F) 8.0
RTO1R07001 Single Fixture 120–240 VAC FAA (TC) L-810(F) 6.5
RTO1R08001 Single Fixture 12–48 VDC FAA (TC) L-810(F) 3.5
RTO1R18001 Single Fixture - Low Power 12–48 VDC FAA (TC) L-810(F) 1.5
RTO1R06002 Dual Fixture 277 VAC FAA (TC) L-810(F) 8.0
RTO1R07002 Dual Fixture 120–240 VAC FAA (TC) L-810(F) 6.5
RTO1R08002 Dual Fixture 12–48 VDC FAA (TC) L-810(F) 3.5
RTO1R18002 Dual Fixture - Low Power 12–48 VDC FAA (TC) L-810(F) 1.5
RTO1R07004 Single Side Marker Retro-fit Fixture 120–240 VAC FAA (TC) L-810(F) 6.5
RTO1R08004 Single Side Marker Retro-fit Fixture 12–48 VDC FAA (TC) L-810(F) 3.5
RTO1R18004 Single Side Marker Retro-fit Fixture - Low Power 12–48 VDC FAA (TC) L-810(F) 1.5
RTOCR07001 Single Fixture Red/Infrared (IR) 120–240 VAC FAA (TC) L-810(F) 5.5
RTOCR08001 Single Fixture Red/Infrared (IR) 12–48 VDC FAA (TC) L-810(F) 5.0
RTOCR07002 Dual Fixture Red/Infrared (IR) 120–240 VAC FAA (TC) L-810(F) 5.5
RTOCR08002 Dual Fixture Red/Infrared (IR) 12–48 VDC FAA (TC) L-810(F) 5.0
RTOCR07004 Single Side Marker Retro-fit Fixture Red/Infrared (IR) 120–240 VAC FAA (TC) L-810(F) 5.5
RTOCR08004 Single Side Marker Retro-fit Fixture Red/Infrared (IR) 12–48 VDC FAA (TC) L-810(F) 5.0
RTO1R07001EU Single Side Marker Retro-fit Fixture 120–240 VAC ICAO only, 32cd 6.5
RTO1R07002EU Dual Fixture 120–240 VAC ICAO only, 32cd 6.5
RTO1R07004EU Single Side Marker Retro-fit Fixture 120–240 VAC ICAO only, 32cd 6.5

*Optically compliant to FAA Engineering Brief 98

www.dialight.com
Vigilant® LED Based L-810
Low Intensity (Red) Light

Certifications & Compliance
- IP66
- Transport Canada Standard 621
- ICAO Annex 14
- CASA

Features & Benefits
- Superior surge and lightning protection
- Controllers available for all applications
- Ideal for towers, stacks, wind turbines, buildings, etc.
- 360 degree coverage for each flash head
- Shock and vibration resistant
- Lighting kits available for standard towers
- 6kV of surge protection

Technical Information:
- Unit weight: 7.14 lbs (3.23 kg) (Single unit)
  16.06 lbs (7.28 kg) (Dual unit)
- Wattages:
  15 W/120mA (120 VAC) ± 10%
  16 W/120mA (230 VAC-60 Hz) ± 15%
  16 W/(230 VAC - 50 Hz)
  24 W/2.0A (12 VDC - Standard)
  20 W/920mA (24 VDC)
  13 W/275mA (48 VDC)
- Voltage amp:
  44 VA (120 VAC) ± 10%
  67 VA (230 VAC) ± 15%
- Operating temperature: -67 °F to +131 °F (-55 °C to +55 °C)
  All values typical unless otherwise stated (tolerance ± 10%)

US Patent #6,425,678 (other patents pending)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Voltage</th>
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<tbody>
<tr>
<td>860-1R01-001</td>
<td>Single Fixture</td>
<td>120VAC</td>
</tr>
<tr>
<td>860-1R02-001</td>
<td>Single Fixture</td>
<td>230VAC</td>
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<tr>
<td>860-1R03-001</td>
<td>Single Fixture</td>
<td>12VDC</td>
</tr>
<tr>
<td>860-1R04-001</td>
<td>Single Fixture</td>
<td>48VDC</td>
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<tr>
<td>860-1R05-001</td>
<td>Single Fixture</td>
<td>24VDC</td>
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<tr>
<td>860-1R01-002</td>
<td>Dual Fixture</td>
<td>120VAC</td>
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<tr>
<td>860-1R02-002</td>
<td>Dual Fixture</td>
<td>230VAC</td>
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<td>860-1R04-002</td>
<td>Dual Fixture</td>
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<td>860-4R02-001-EU</td>
<td>Single Fixture</td>
<td>230VAC</td>
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