| CATALOG # | | | TYPE | |
|---|---|---|---|---|
| JOB NAME | | WATTAGE | VOLTAGE | |

# Latitudes Series

## LRS-04504

*Ambient+ Lensed 4" Square Downlight •
Two Color Switchable or Static Color*

Six Static Colors Available • Up to 60,000 Hour Life
Wet Listed • LM-79 Certified • LM-80 Qualified

Static White Mode
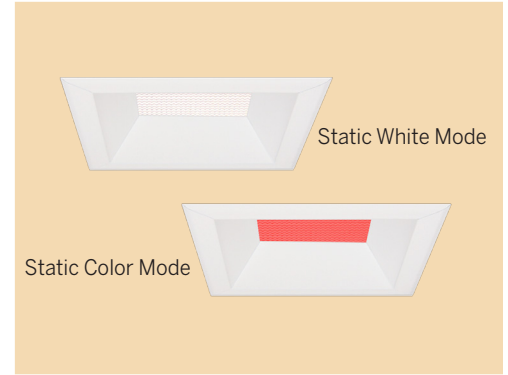
Static Color Mode

## Specifications

### Delivered System Performance
- Nominal Lumens in static white mode, see page 3 for static color output: **Must Specify**
  **Type IC**
  **-1000L**
- Select trim: see chart
- Beam distribution: WFL
- Select static white color (CCT): see chart; 80+ CRI standard; Option -HC for 90+ (15% lumen loss)
- Select static color: see chart
- 60,000 hour life (L70)

### Thermal Management System
- Aluminum heat sink and components for cool operation, long life, and low maintenance

### LED Driver - INTERNAL
- Indoor/Outdoor: -30°C to 60°C (-22°F to 140°F)
- 0-10V CCR 1.0% dimming standard
- 120-277V / 50-60 Hz standard; load insensitive

### Trim Assembly
- Tapered aluminum all white smooth self-flanged trim (field paintable)
- Regressed microprismatic spread lens

### Acrylic Enameled Aluminum Housing
- Rustproof and corrosion resistant: exceeds 1000 hour ASTM 5% salt spray test
- Shallow depth fits restricted plenums
- Cool operation extends component life
- Modular design; visible and fully serviceable through aperture
- Built-in plaster flange

### Outlet Box (Galvanized)
- UL Listed, 14GA, insulated, removable cover
- ½" and ¾" knockouts

### Installation & Hardware
- Indoor/outdoor in ceilings up to 1¼" thick or see option -79
- Compatible with fire rated enclosures (by others)
- 27" hanger bars & adjusting brackets (2) supplied

### UL, C-UL (Canada) Compliance
- UL Listed: wet, damp or dry locations, covered ceilings
- Through-branch conductors (4 #12 AWG 90°C)
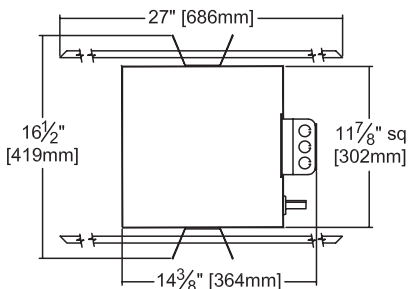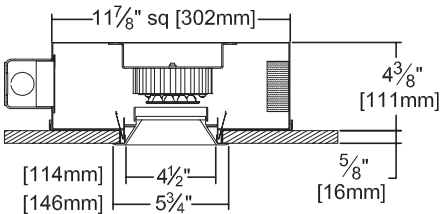
### IEC & FCC Compliance
- Meets IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment
- FCC Part 15 certified for EMI/RFI emissions

### FIVE YEAR Limited Warranty
- Complete standard fixture

| A+ Ambient+ *Two Color Switchable* | SC Static Color *6 Options* | Made in the USA *BAA Compliant* | FCC Part 15 Certified | UL Listed Wet, Damp, Dry |
|---|---|---|---|---|

## Dimensions

11⅞" sq [302mm]

4⅜" [111mm]

[114mm]
[146mm]

4½"
5¾"

⅝" [16mm]

27" [686mm]

16½" [419mm]

11⅞" sq [302mm]

14⅜" [364mm]

## Static Color Options

| OPTION | LED COLOR | | TYPICAL APPLICATION |
|---|---|---|---|
| **-465** | Blue | (465nm) | Backstage Theater, Public Safety |
| **-521** | Green | (521nm) | Operating Rooms |
| **-590** | Yellow / Amber | (590nm) | Turtle Friendly, Sleep-Supporting Circadian |
| **-617** | Amber | (617nm) | Vivarium, Sleep-Supporting Circadian |
| **-634** | Red / Amber | (634nm) | Sleep-Supporting Circadian |
| **-660** | Red | (660nm) | Darkroom, Laboratories |

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**KIRLIN** ARCHITECTURAL LIGHTING

## Ambient+ Two Color Options and Ordering Configuration

(Example: LRS-04504-1000L-UNV-30K-465-38T)

| Must Specify | | | | | Optional | | | |
|---|---|---|---|---|---|---|---|---|
| **Model** | **Lumens** | **Volts** | **White CCT** | **Static Color** | **Driver Options** | **Trim Options** | **Emergency Options** | **Other Options** |
| LRS-04504 | -1000L | -UNV<br>-97†: Other Voltage<br><br><br>†Consult factory | **80+ CRI***<br>-27K: 2700°K<br>-30K: 3000°K<br>-35K: 3500°K<br>-41K: 4100°K<br>-50K: 5000°K<br>*Note: Lumen Factor = 0.93 for -27K<br><br>**90+ CRI****<br>-27K-HC: 2700°K<br>-30K-HC: 3000°K<br>-35K-HC: 3500°K<br>-41K-HC: 4100°K<br>-50K-HC: 5000°K<br>**Note: Lumen Factor = 0.79 for -27K-HC; All Others = 0.85; Consult Factory | -465: 465nm Blue; Theater and Public Safety<br>-521: 521nm Green; Operating Rooms<br>-590: 590nm Yellow/Amber; Turtle-friendly<br>-617: 617nm Amber; Vivarium<br>-634: 634nm Red/Amber; Circadian<br>-660: 660nm Red; Darkrooms, Labs | **(Blank):** 0-10V 1.0% dim; 2 outputs - Static White and Static Color<br><br>**-D2:** 0-10V 0.1% dim; 2 outputs - Static White and Static Color | **(Blank):** Standard all-white self-flanged trim with lens above<br><br>**Trim Finishes**<br>-35T: Silver (natural aluminum) acrylic enameled trim<br>-37T: Dark bronze enamel trim<br>-38T: Black enamel trim<br>-94: Custom color; consult factory<br>**Other Trim Features**<br>-13: Clear poly lens below lens. Photometric distribution unaffected<br>-23: Frosted microprismatic lens<br>-32: White trim extender, specify OD<br>-33: Decorative Glow Ring; see last page for details<br>-45: Gasket between trim & ceiling<br>-46: Gasket between trim & lens<br>-WA: White acrylic lens | **(Blank):** None<br><br>-EI: Remote emergency inverter for 100% rated lumens; Run time: 90+ minutes; N/A for options -FS, -97 | **(Blank):** None<br><br>**Mounting**<br>-79: Extension collar for ceilings up to 2" thick<br>-RH: Joist mounting hardware instead<br>**Other Options**<br>-99: Special modification; consult factory<br>-FS: Fused primary; One per fixture; N/A for option -EI |

## Static Color Options and Ordering Configuration

(Example: LRS-04504-1000L-UNV-660-D2-13)

| Must Specify | | | | Optional | | | |
|---|---|---|---|---|---|---|---|
| **Model** | **Lumens** | **Volts** | **Static Color** | **Driver Options** | **Trim Options** | **Emergency Options** | **Other Options** |
| LRS-04504 | -1000L | -UNV<br>-97†: Other Voltage<br><br><br>†Consult factory | -465: 465nm Blue; Theater and Public Safety<br>-521: 521nm Green; Operating Rooms<br>-590: 590nm Yellow/Amber; Turtle-friendly<br>-617: 617nm Amber; Vivarium<br>-634: 634nm Red/Amber; Circadian<br>-660: 660nm Red; Darkrooms, Labs | **(Blank):** 0-10V 1.0% dim<br><br>**-D2:** 0-10V 0.1% dim; Static Color | **(Blank):** Standard all-white self-flanged trim with lens above<br><br>**Trim Finishes**<br>-35T: Silver (natural aluminum) acrylic enameled trim<br>-37T: Dark bronze enamel trim<br>-38T: Black enamel trim<br>-94: Custom color; consult factory<br>**Other Trim Features**<br>-13: Clear poly lens below lens. Photometric distribution unaffected<br>-23: Frosted microprismatic lens<br>-32: White trim extender, specify OD<br>-33: Decorative Glow Ring; see last page for details<br>-45: Gasket between trim & ceiling<br>-46: Gasket between trim & lens<br>-WA: White acrylic lens | **(Blank):** None<br><br>-EI: Remote emergency inverter for 100% rated lumens; Run time: 90+ minutes; N/A for options -FS, -97<br><br>-ERH: Remote emergency battery pack; Delivers 1000 lumens; CEC Compliant; Run time: 90+ minutes | **(Blank):** None<br><br>**Mounting**<br>-79: Extension collar for ceilings up to 2" thick<br>-RH: Joist mounting hardware instead<br>**Other Options**<br>-99: Special modification; consult factory<br>-FS: Fused primary; One per fixture; N/A for option -EI |

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ARCHITECTURAL LIGHTING
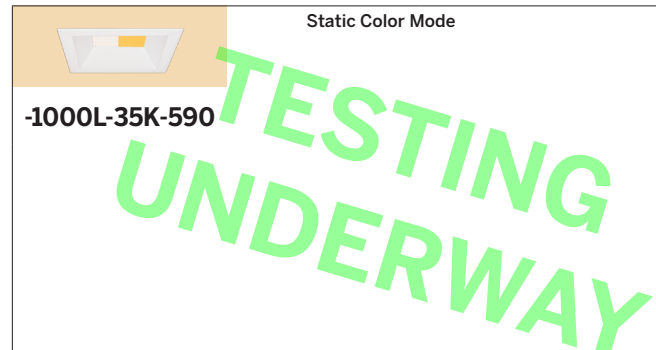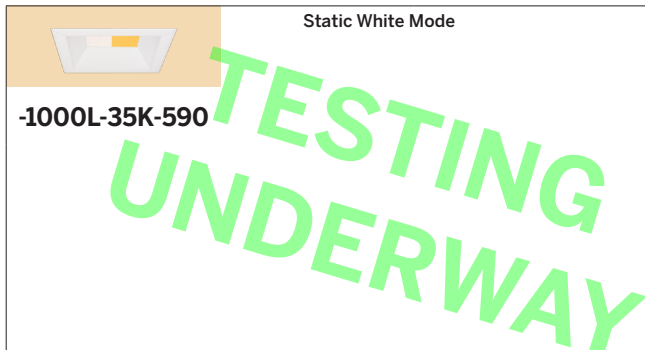
## Photometry - Ambient+ Two Color Switchable - Installed Complete Fixture

LM-79 IESNA Certified Photometry from Independent Lab

### Ambient+ Two Color

| CCT-STATIC COLOR | COLOR LUMENS | COLOR LUMEN FACTOR | MAXIMUM WATTAGE† |
|---|---|---|---|
| -CCT-465 | | 2.31 | 21.3 |
| -CCT-521 | | 3.73 | 20.5 |
| -CCT-590 | | 1.00 | 17.0 |
| -CCT-617 | | 1.83 | 17.5 |
| -CCT-634 | | 1.66 | 16.6 |
| -CCT-660 | | 0.78 | 16.8 |

Static White Mode

-1000L-35K-590

TESTING UNDERWAY

Static Color Mode

-1000L-35K-590

TESTING UNDERWAY

† *Maximum wattage is in static color mode. For static white wattage, please see photometry below.*

* *See notes on page 1 for additional info on Lumen Factors*

## Photometry - Static Color - Installed Complete Fixture

LM-79 IESNA Certified Photometry from Independent Lab

### Static Color

| STATIC COLOR | COLOR LUMENS | COLOR LUMEN FACTOR | NOMINAL WATTS | LPW |
|---|---|---|---|---|
| -465 | | 2.15 | 20.4 | |
| -521 | | 3.30 | 19.4 | |
| -590 | | 1.00 | 22.7 | |
| -617 | | 1.83 | 22.4 | |
| -634 | | 1.66 | 21.9 | |
| -660 | | 0.78 | 21.6 | |

Static Color Only

-1000L-590

TESTING UNDERWAY
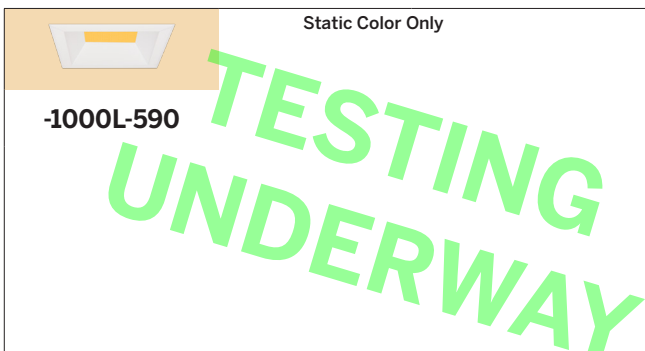
LED manufacturers maintain a tolerance of +/-7% on flux (lumens) and power (electrical) measurements.

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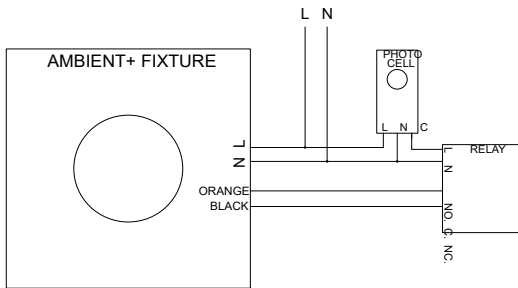# Ambient+ Two Color Switchable - Example Wiring Diagrams
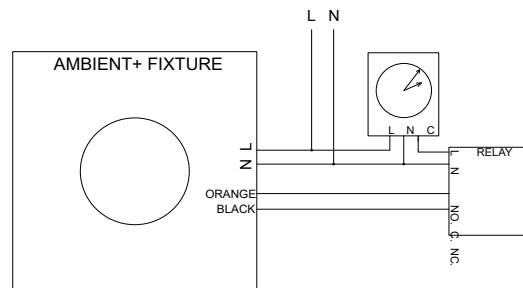
## Basic Color Selection
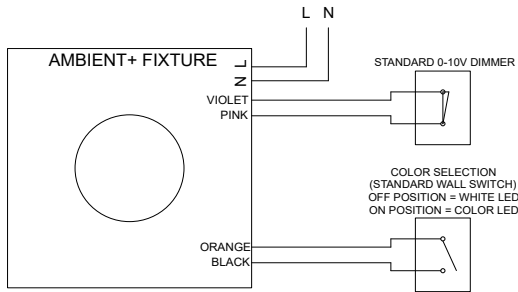


## Building Control of White vs. Color
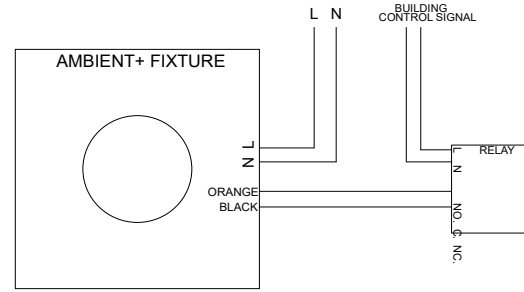


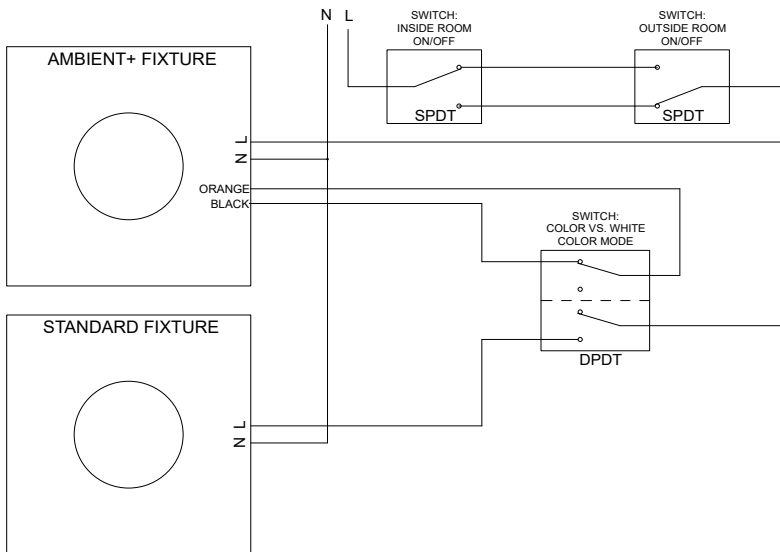## Photocell Control of White vs. Color



## Timer Control of White vs. Color



## Room Example with a Mix of Fixture Types

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# KIRLIN
## ARCHITECTURAL LIGHTING

# Classic Glow Rings:
# Option -33 for Latitudes

To order a Kirlin Glow Ring, begin by adding -33 to the product number. Then, configure your Glow Ring by selecting each of the 7 design elements listed below:

(**Example:** LRS-04503-2500L-120-MFL-30K-**33-GLM-1L-FRR-ROF-SIF-ROS-SIS**)
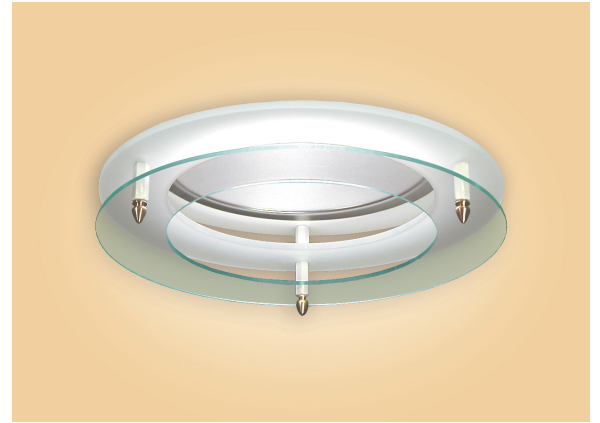


### 1. Ring Material (choose one)
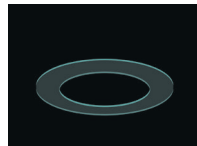
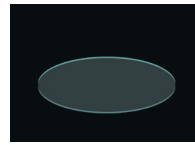| Glass (-GLM) | Acrylic (-ACM) | Custom (-CUM) |

### 2. # of Rings (choose one)
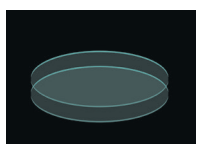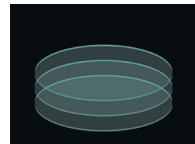
| 1 Ring (1L) | 2 Rings (-2L) | 3 Rings (-3L) |

### 3. Ring Design (choose one)

| Frosted Ring (-FRR) | Clear Ring (-CRR) | Solid Disk (-SDR) | Frosted Center (-FCR) | Frosted Disk (-FDR) |

### 4. Finial Design (choose one)
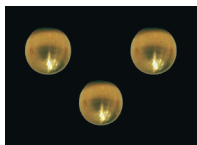
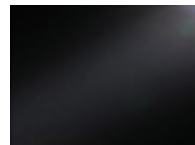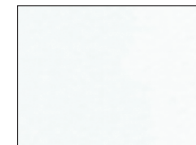| Round (-ROF) | Knurled (-KNF) | Cone (-COF) |
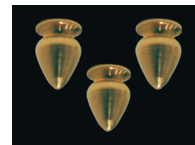
### 5. Finial Color (choose one)
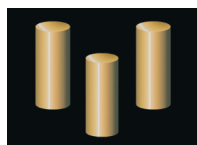
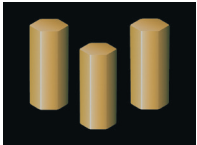| Brass (-BRF) | Silver (-SIF) | Black (-BLF) | White (-WHF) | Custom (-CUF) |

### 6. Standoff Design (choose one)
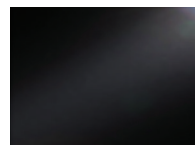
| Round (-ROS) | Hexagonal (-HOS) |

### 7. Standoff Color (choose one)

| Brass (-BRS) | Silver (-SIS) | Black (-BLS) | White (-WHS) | Custom (-CFS) |

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