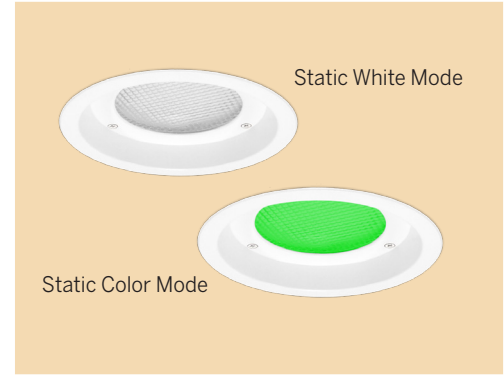


CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

# Latitudes Series

**Ambient+ IP66 Rated 6" Downlight • Two Color Switchable or Static Color LED**  
 Six Static Colors Available • Up to 60,000 Hour Life  
 Wet Listed • LM-79 Certified • LM-80 Qualified

# LRR-06454



## 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

- Smooth white seamless tapered aluminum self-flanged rigid cast trim (field paintable)

- High strength microprismatic acrylic above .125" clear flat polycarbonate lens.
- Vandal and ligature resistant, see Option -25
- BioGard antimicrobial trim, see Option -BGT

### IP66 Rated Sealed and Gasketed Trim

- Silicone seal between trim and lens seals lens to trim
- Closed cell gasketing on trim flange seals flange to ceiling
- O-rings on stainless steel fasteners seal fasteners to trim
- Meets ASTM E283 restricted airflow of 2CFM maximum

### 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
- 1/2" and 3/4" knockouts

### Installation & Hardware

- Indoor/outdoor in ceilings up to 1 1/8" thick
- Compatible with fire rated enclosures (by others)
- 27" hanger bars & adjusting brackets (2) supplied

### UL, C-UL (Canada)

- Wet, damp or dry locations, covered ceilings
- Through-branch conductors (4 #12 AWG 90°C) for Type IC listings

### IEC & FCC Compliance

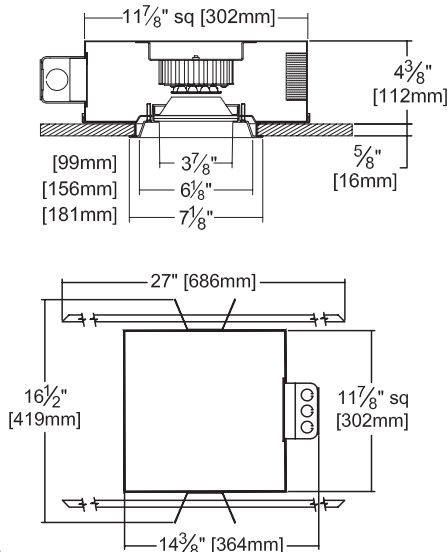
- Meets IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment
- FCC Part 15 certified for EMI/RFI emissions

### FIVE YEAR Limited Warranty

- Complete standard fixture



## Dimensions



## 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

## Ambient+ Two Color Options and Ordering Configuration

(Example: LRR-06454-1000L-UNV-30K-465-D2-38T)

Must Specify				Optional				
Model	Lumens	Volts	White CCT	Static Color	Driver Options	Trim Options	Emergency Options	Other Options
LRR-06454	-1000L	-UNV -97†: Other Voltage	<b>80+ CRI*</b> -27K: 2700°K -30K: 3000°K -35K: 3500°K -41K: 4100°K -50K: 5000°K *Note: Lumen Factor = 0.93 for -27K <b>90+ CRI**</b> -27K-HC: 2700°K -30K-HC: 3000°K -35K-HC: 3500°K -41K-HC: 4100°K -50K-HC: 5000°K **Note: Lumen Factor = 0.79 for -27K-HC; All Others = 0.85; Consult Factory	-465: 465nm Blue; Theater and Public Safety -521: 521nm Green; Operating Rooms -590: 590nm Yellow/Amber; Turtle-friendly -617: 617nm Amber; Vivarium -634: 634nm Red/Amber; Circadian -660: 660nm Red; Darkrooms, Labs	(Blank): 0-10V 1.0% dim; 2 outputs - Static White and Static Color -D2: 0-10V 0.1% dim; 2 outputs - Static White and Static Color	(Blank): Standard white trim <b>Trim Finishes</b> -35T: Silver enamel trim -94: Custom color; consult factory -BGT: Antimicrobial white BioGard™ (complete trim) -BN: Brushed nickel cast trim <b>Other Trim Features</b> -25: Vandal resistant trim, hardware and lensing. Provides ligature and vandal resistance. Not available with NSF rating -WA: White acrylic (flat) diffuser above poly instead of microprismatic acrylic. Provides wide flood distribution.	(Blank): None -EI: Remote emergency inverter for 100% rated lumens; Run time: 90+ minutes; N/A for options -FS, -97	(Blank): None -99: Special modification; consult factory -FS: Fused primary; One per fixture; N/A for option -EI -SH: Sealed housing and junction box

†Consult factory

## Static Color Options and Ordering Configuration

(Example: LRR-06454-1000L-UNV-660-13)

Must Specify				Optional			
Model	Lumens	Volts	Static Color	Driver Options	Trim Options	Emergency Options	Other Options
LRR-06454	-1000L	-UNV -97†: Other Voltage	-465: 465nm Blue; Theater and Public Safety -521: 521nm Green; Operating Rooms -590: 590nm Yellow/Amber; Turtle-friendly -617: 617nm Amber; Vivarium -634: 634nm Red/Amber; Circadian -660: 660nm Red; Darkrooms, Labs	(Blank): 0-10V 1.0% dim -D2: 0-10V 0.1% dim; Static Color	(Blank): Standard white trim <b>Trim Finishes</b> -35T: Silver enamel trim -94: Custom color; consult factory -BGT: Antimicrobial white BioGard™ (complete trim) -BN: Brushed nickel cast trim <b>Other Trim Features</b> -25: Vandal resistant trim, hardware and lensing. Provides ligature and vandal resistance. Not available with NSF rating -WA: White acrylic (flat) diffuser above poly instead of microprismatic acrylic. Provides wide flood distribution.	(Blank): None -EI: Remote emergency inverter for 100% rated lumens; Run time: 90+ minutes; N/A for options -FS, -97 -ERH: Remote emergency battery pack; Delivers 1000 lumens; CEC Compliant; Run time: 90+ minutes	(Blank): None -99: Special modification; consult factory -FS: Fused primary; One per fixture; N/A for option -EI -SH: Sealed housing and junction box

†Consult factory

LIMITED WARRANTY: CATALOGUED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALLATION, E.G., IN NORMAL USE. Manufacturer at the option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the offices of manufacturer within the years of original shipment. Liability of manufacturer is limited to the foregoing and manufacturer shall not be liable for any other damages, direct or indirect, sustained or suffered by purchaser or any person. This warranty is applied to the buyer in place of all other warranties, expressed or implied; seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty. Abnormal use, abuse of the fixture, improper installation, or repair or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.

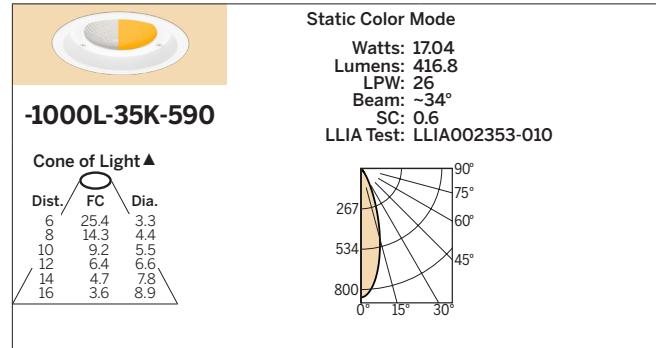
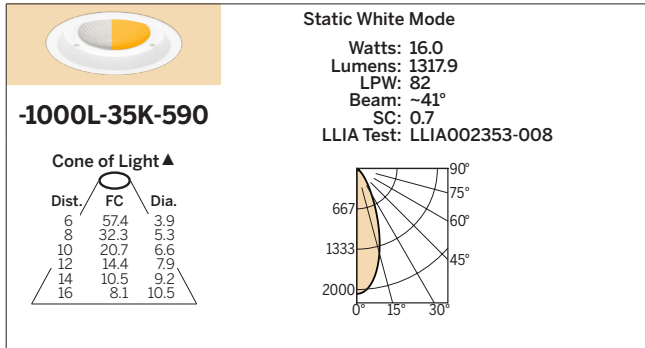
LATTITUDES  
APRIL 2024

# 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	964.1	2.31	21.3
-CCT-521	1554.7	3.73	20.5
<b>-CCT-590</b>	<b>416.8</b>	<b>1.00</b>	<b>17.0</b>
-CCT-617	760.7	1.83	17.5
-CCT-634	692.7	1.66	16.6
-CCT-660	323.9	0.78	16.8



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

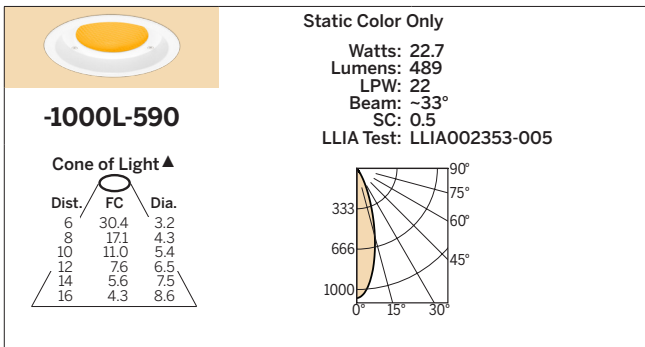
\* See notes on page 1 for additional info on Lumen Factors

# 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	1053.3	2.15	20.4	51.7
-521	1614.2	3.30	19.4	83.2
<b>-590</b>	<b>489.0</b>	<b>1.00</b>	<b>22.7</b>	<b>21.5</b>
-617	892.4	1.83	22.4	39.9
-634	812.7	1.66	21.9	37.1
-660	380.0	0.78	21.6	17.6



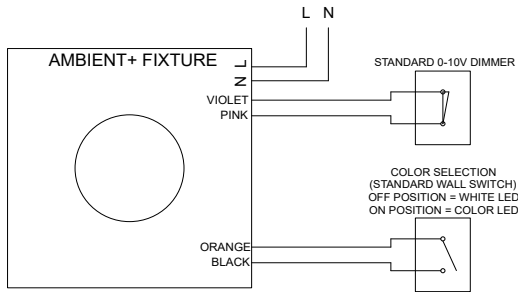
LED manufacturers maintain a tolerance of +/-7% on flux (lumens) and power (electrical) measurements.

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALLATION, ETC., IS NOT NORMAL USE. Manufacturer at the option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the office of manufacturer within the warranty period. Liability of manufacturer is limited to the foregoing and manufacturer shall not be liable for any other damages, direct or indirect, sustained or suffered by purchaser or any person. This warranty is supplied to the buyer in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty. Abnormal use, abuse of the fixture, improper installation, or repair or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.

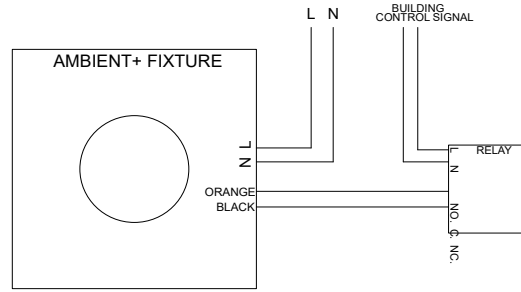
LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALLED TO N.E.C. IN NORMAL USE. Manufacturer of the fixture will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture to the office of manufacturer within two years of original shipment. Liability of manufacturer is limited to the foregoing and manufacturer shall not be liable for any other damages, direct or indirect, sustained or suffered by purchaser or any person. This warranty is supplied to the buyer in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of the fixture, improper installation, or repair or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.

# Ambient+ Two Color Switchable - Example Wiring Diagrams

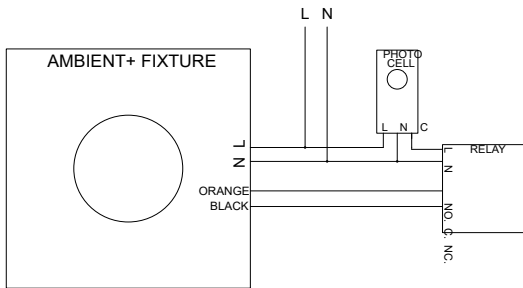
Basic Color Selection



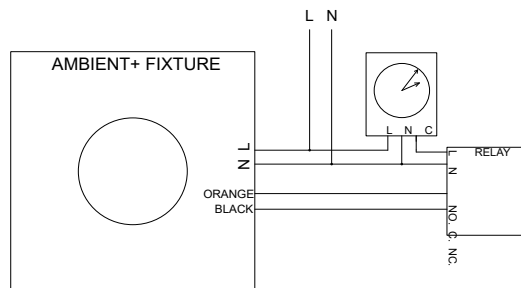
Building Control of White vs. Color



Photocell Control of White vs. Color



Timer Control of White vs. Color



Room Example with a Mix of Fixture Types

