

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

Latitudes Series

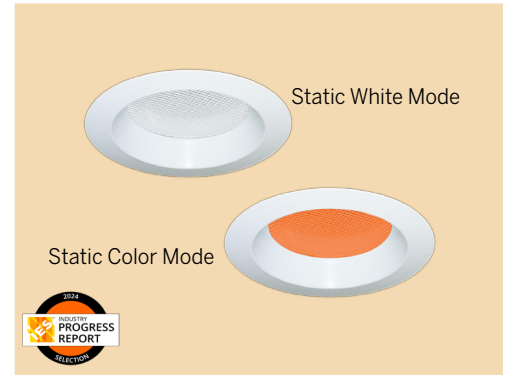
Ambient+ Lensed 4" Downlight • White Flare •

Two Color Switchable or Static Color LED

Six Static Colors Available • Up to 60,000 Hour Rated Life

Wet Listed • LM-79 Certified • LM-80 Qualified

LRR-04404



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 rated 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

- Seamless tapered aluminum self-flanged trim with white finish (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
- 1/2" and 3/4" knockouts

Installation & Hardware

- Indoor/outdoor in ceilings up to 1 1/8" thick or see Option -79
- Compatible with fire rated enclosures (by others)
- 27" hanger bars & adjusting brackets (2) supplied

UL, C-UL (Canada)

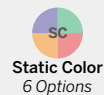
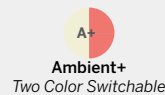
- UL Listed: wet, damp or dry locations, covered ceilings
- Through-branch conductors (4 #12 AWG 90°C)

IEC & FCC Compliance

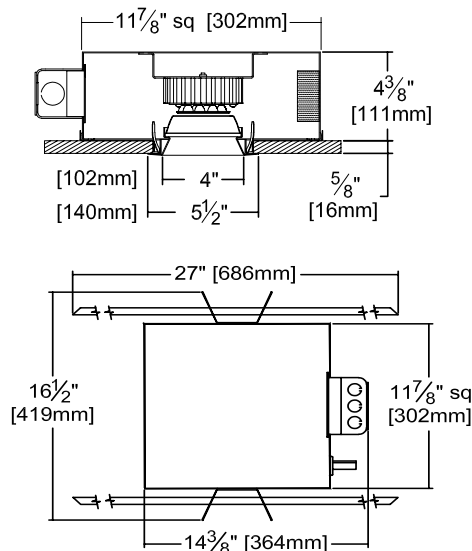
- Meets IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment
- FCC Part 15 certified for EMI/RFI emissions

FIVE YEAR Limited Warranty

- Complete standard fixture



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-04404-1000L-UNV-35K-590-D2-79)

Must Specify					Optional			
Model	Lumens	Volts	White CCT	Static Color	Driver Options	Trim Options	Emergency Options	Other Options
LRR-04404								
	-1000L	-UNV -97 [†] : Other Voltage	80+ CRI* -27K: 2700°K -30K: 3000°K -35K: 3500°K -41K: 4000°K -50K: 5000°K *Note: Lumen Factor = 0.93 for -27K 90+ CRI** -27K-HC: 2700°K -30K-HC: 3000°K -35K-HC: 3500°K -41K-HC: 4000°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): Seamless tapered aluminum self-flanged trim with white finish; microprismatic spread lens Trim Finishes -35T: Silver enamel (complete trim) -37T: Dark bronze enamel (complete trim) -38T: Black enamel (complete trim) -94: Custom color; consult factory Other Trim Features -13: Clear poly lens below lens. Photometric distribution unaffected -23: Frosted microprismatic lens -32: White trim extender, specify OD -45: Gasket between trim & ceiling -WA: White acrylic lens	(Blank): None -EI: Remote emergency inverter for 100% rated lumens; Run time: 90+ minutes; N/A for options -FS, -97	(Blank): None Mounting -79: Extension collar for ceilings up to 2" thick -RH: Joist mounting hardware instead Other Options -99: Special modification; consult factory -FS: Fused primary; One per fixture; N/A for option -EI -TA: Top access for servicing from above ceiling
		†Consult factory						

Static Color Options and Ordering Configuration

(Example: LRR-04404-1000L-UNV-521-35T)

Must Specify				Optional			
Model	Lumens	Volts	Static Color	Driver Options	Trim Options	Emergency Options	Other Options
LRR-04404							
	-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): Seamless tapered aluminum self-flanged trim with white finish; microprismatic spread lens	(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 Mounting -79: Extension collar for ceilings up to 2" thick -RH: Joist mounting hardware instead Other Options -99: Special modification; consult factory -AWN: Athena Wireless Node; Consult Factory -FS: Fused primary; One per fixture; N/A for option -EI -TA: Top access for servicing from above ceiling *Note: For other integrated control solutions, such as nLight, contact factory
					Trim Finishes		
					-35T: Silver enamel (complete trim)		
					-37T: Dark bronze enamel (complete trim)		
					-38T: Black enamel (complete trim)		
-94: Custom color; consult factory							
Other Trim Features							
-13: Clear poly lens below lens. Photometric distribution unaffected							
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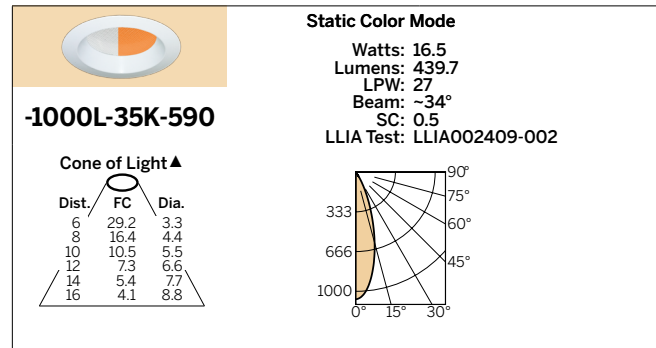
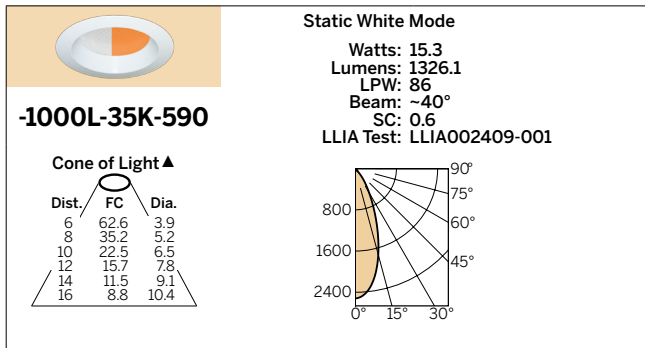
LIMITED WARRANTY: KIRLIN LIGHTING PRODUCTS ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALLATION, E.G., IN NORMAL USE. Manufacturer at its option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase 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 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. A breach of the fixture, improper installation, or repair or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.

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	1015.7	2.31	20.6
-CCT-521	1640.1	3.73	19.8
-CCT-590	439.7	1.00	16.5
-CCT-617	804.7	1.83	17.0
-CCT-634	730.0	1.66	16.2
-CCT-660	343.0	0.78	16.3



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

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

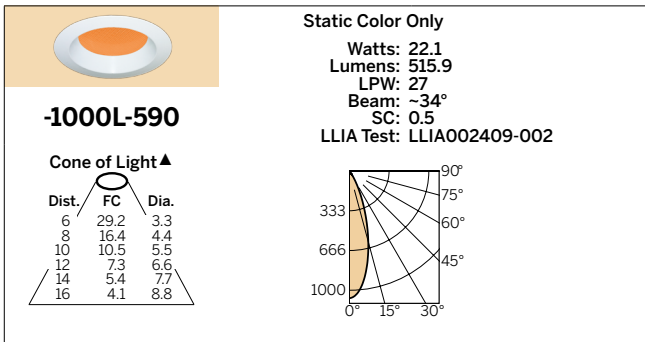
Photometry - Static Color - Installed Complete Fixture

LM-79 IESNA Certified Photometry from Independent Lab

Static Color

STATIC COLOR	COLOR LUMENS	COLOR LUMEN FACTOR	IES LUMEN FACTOR +	NOMINAL WATTS	LPW
-465	1109.1	2.15	2.58	22.1	50.3
-521	1702.4	3.30	3.96	22.1	77.1
-590	515.9	1.00	1.20	22.1	23.4
-617	944.0	1.83	2.20	22.1	42.8
-634	856.3	1.66	1.99	22.1	38.8
-660	402.4	0.78	0.94	22.1	18.2

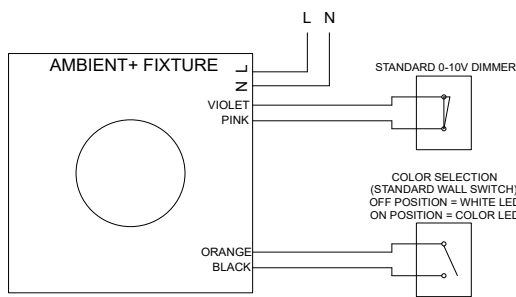
+ IES file are based on Ambient+ Static Color light output. Use this lumen factor for lighting calculations.



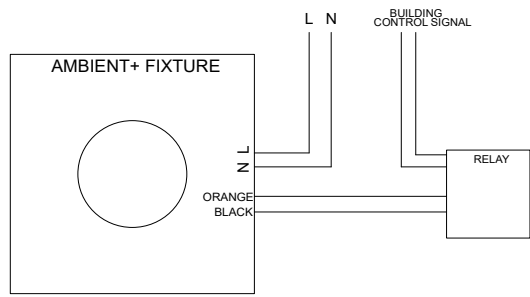
LED manufacturers maintain a tolerance of +/-7% on flux (lumens) and power (electrical) measurements.

Ambient+ Two Color Switchable - Example Wiring Diagrams

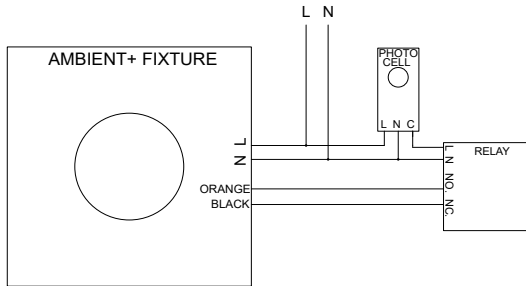
Basic Color Selection



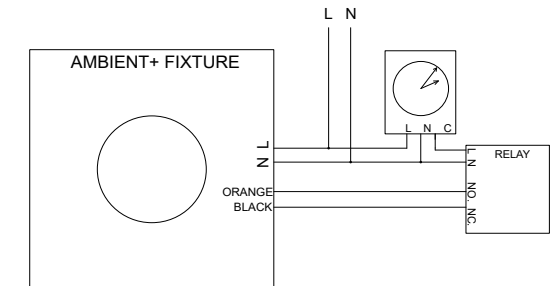
Building Control of White vs. Color



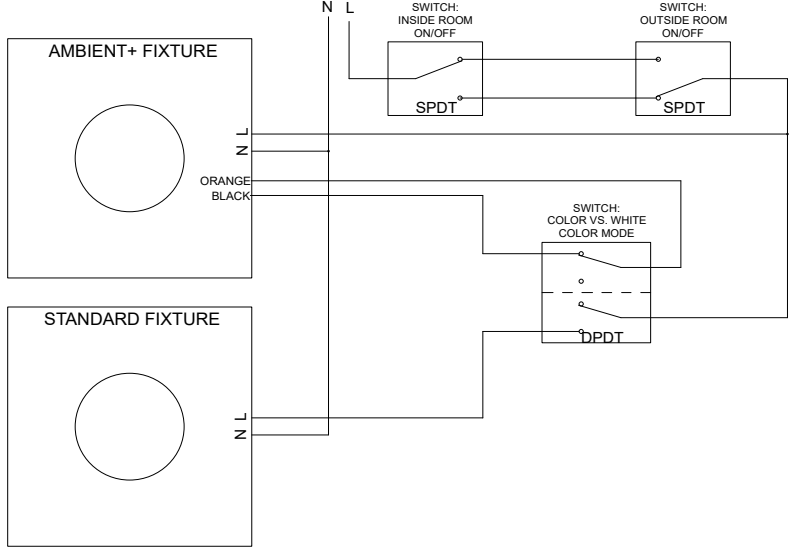
Photocell Control of White vs. Color



Timer Control of White vs. Color



Room Example with a Mix of Fixture Types



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 offices 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.