

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

Latitudes Series

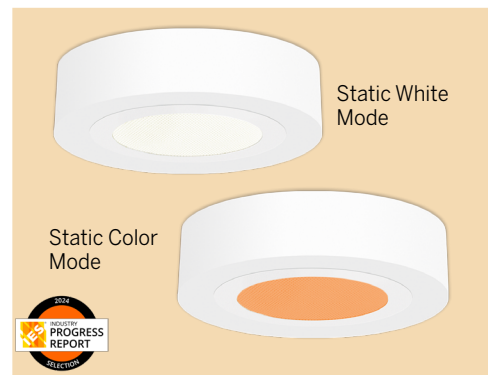
Ambient+ Super Shallow 12" x 4" Cylinder Downlight

• Two Color Switchable or Static Color LED

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

Wet Listed • LM-80 and LM-79 Certified

LSR-12493



Specifications

Delivered System Performance

- Nominal Lumens in static white mode, see page 3 for static color output: **Must Specify -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

- All aluminum heat sink and components for cool operation, long life, 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

- White flat seamless aluminum, one piece self-flanged
- Tempered microprismatic spread distribution lens or see optional lenses
- For vandal-resistant version, see Options -13, -26

Aluminum Housing

- Seamless white acrylic enameled finish
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test
- Water-tight construction with weatherproof closed cell top gasket for wet location use
- No visible cylinder hardware
- Cool operation: Extends life of all components
- Fully sustainable: Entire luminaire is modular, easily visible, and serviced through aperture
- Lightweight: minimizes ceiling load

Installation

- Direct mount to any J-box pattern
- Indoor or outdoor
- See Option -NAT for natatorium use
- Option -PM for pendant mount

UL, C-UL (Canada) Listings

- Wet listed in surface of pendant mount

IEC & FCC Compliance

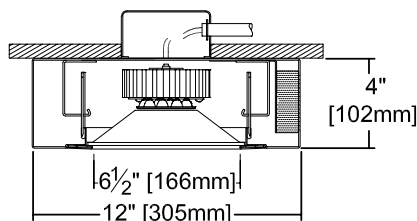
- Meets IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment
- FCC Part 15 certified for EMI/RFI emissions

FIVE YEAR Limited Warranty

- Complete standard fixture

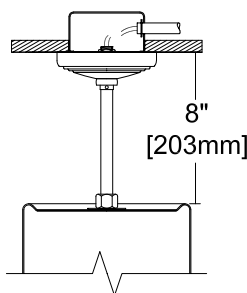


Dimensions



Representative View:

With optional pendant mount (Option -PM)



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: LSR-12493-1000L-UNV-27K-590-D2-80)

Must Specify					Optional				
Model	Lumens	Volts	White CCT	Static Color	Driver Options	Housing Options	Mounting Options	Emergency Options	Other Options
LSR-12493									
	-1000L	-UNV -120 -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): Standard white enamel Housing Finishes -35: Silver enamel finish -37: Dark bronze enamel finish -38: Black enamel finish -94: Custom color/finish; specify; consult factory Trim Features -46: Gasket between lens and trim Lens Options -13: Vandal resistant clear flat polycarbonate below with microprismatic flat lens above -23: Frosted microprismatic lens instead -26: Tamper resistant button head screw with center pin; 1 key/10 fixtures -WA: White acrylic diffuser instead; will produce wide flood distribution	(Blank): Standard surface mount -80: 2" collar for mounting beneath surface outlet box; ½" T.S. KO's; covered ceilings only -87: Custom length pendant; for -PM -88: Swivel canopy for sloped ceilings to 40°; with -PM -PM: Pendant stem; 8" stem or see -87	(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: Single in-line fuse; N/A for option -EI

Static Color Options and Ordering Configuration

(Example: LSR-12493-1000L-UNV-465-D2-80)

Must Specify				Optional				
Model	Lumens	Volts	Static Color	Driver Options	Housing Options	Mounting Options	Emergency Options	Other Options
LSR-12493								
	-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 enamel Housing Finishes -35: Silver enamel finish -37: Dark bronze enamel finish -38: Black enamel finish -94: Custom color/finish; specify; consult factory Trim Features -46: Gasket between lens and trim Lens Options -13: Vandal resistant clear flat polycarbonate below with microprismatic flat lens above -23: Frosted microprismatic lens instead -26: Tamper resistant button head screw with center pin; 1 key/10 fixtures -WA: White acrylic diffuser instead; will produce wide flood distribution	(Blank): Standard surface mount -80: 2" collar for mounting beneath surface outlet box; ½" T.S. KO's; covered ceilings only -87: Custom length pendant; for -PM -88: Swivel canopy for sloped ceilings to 40°; with -PM -PM: Pendant stem; 8" stem or see -87	(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: Single in-line fuse; N/A for option -EI

LIMITED WARRANTY: KIRLIN LIGHTING FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR ONE YEAR 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 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.

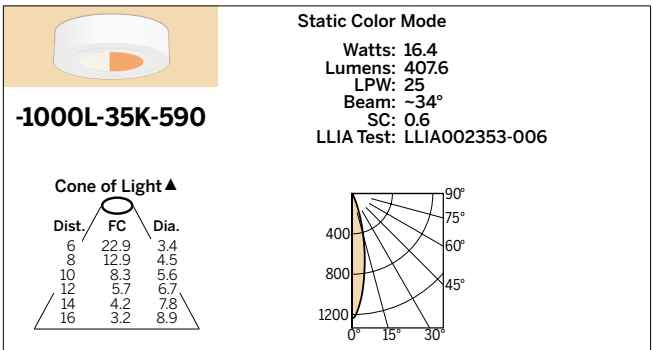
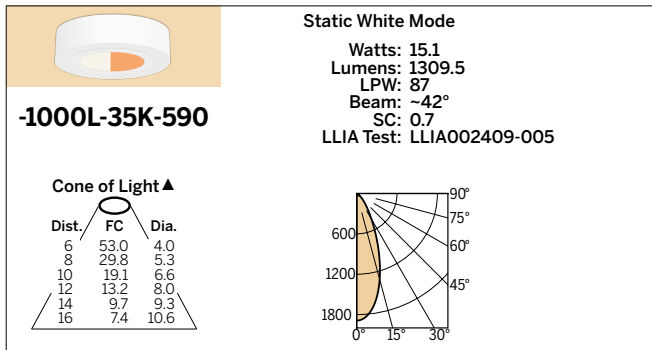
LATITUDES
NOVEMBER 2024

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	941.6	2.31	21.3
-CCT-521	1520.3	3.73	20.5
-CCT-590	407.6	1.00	17.0
-CCT-617	745.9	1.83	17.5
-CCT-634	676.6	1.66	16.6
-CCT-660	317.9	0.78	16.8



† 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

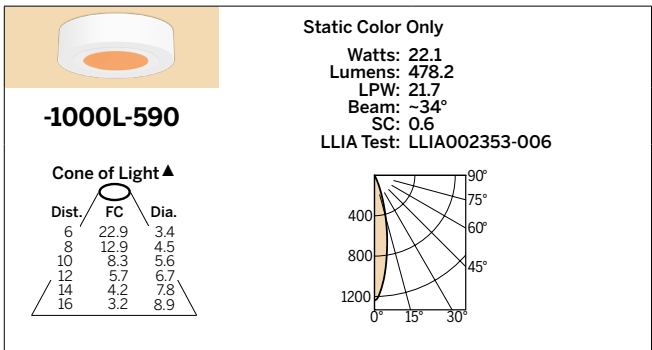
Photometry - Static Color - Installed Complete Fixture

LM-79 IESNA Certified Photometry from Independent Lab

Static Color

STATIC COLOR	COLOR LUMENS	COLOR LUMEN FACTOR	IES LUMEN FACTOR +	NOMINAL WATTS	LPW
-465	1028.1	2.15	2.58	22.1	46.6
-521	1578.1	3.30	3.96	22.1	71.5
-590	478.2	1.00	1.20	22.1	21.7
-617	875.1	1.83	2.20	22.1	39.7
-634	793.8	1.66	1.99	22.1	36.0
-660	373.0	0.78	0.94	22.1	16.9

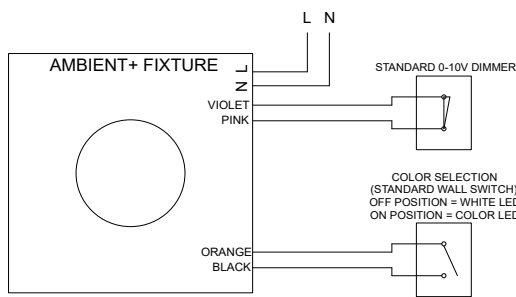
+ IES file are based on Ambient+ Static Color light output. Use this lumen factor for lighting calculations.



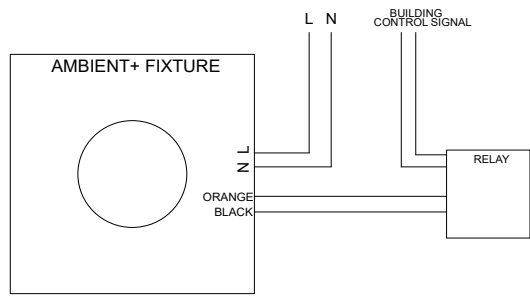
LED manufacturers maintain a tolerance of +/-7% on flux (lumens) and power (electrical) measurements.

Ambient+ Two Color Switchable - Example Wiring Diagrams

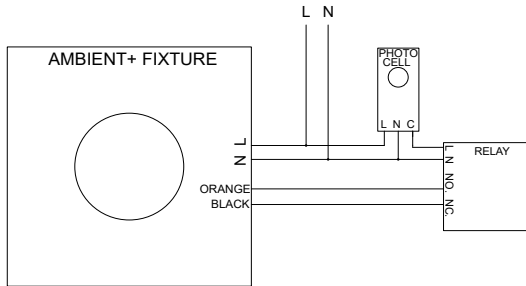
Basic Color Selection



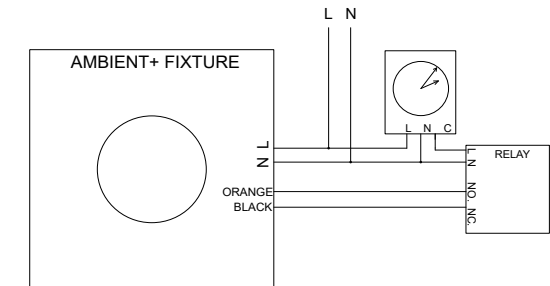
Building Control of White vs. Color



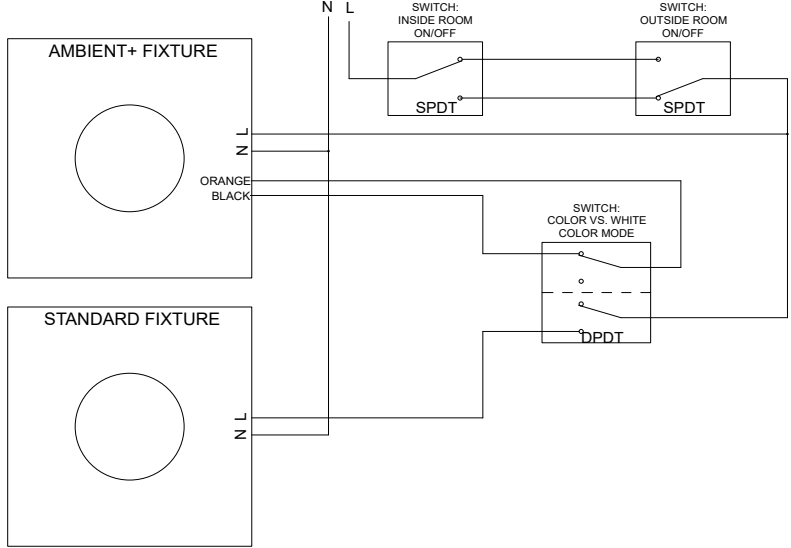
Photocell Control of White vs. Color



Timer Control of White vs. Color



Room Example with a Mix of Fixture Types



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