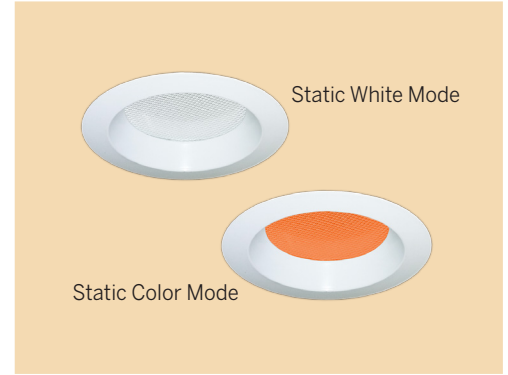| CATALOG #		TYPE	
JOB NAME		WATTAGE	VOLTAGE

Shoreview Series

TRR-04404

Ambient+ Lensed 4" Downlight • White Flare •
Two Color Switchable or Static Color LED

Two 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: see photometrics
- Select static white color (CCT): see chart; 80+ CRI standard; Option -HC for 90+ (15% lumen loss)
- Select static color: Environmental yellow/ amber (590nm) or Environmental red/orange (617nm) available
- True color, not phosphor converted
- No light emitted below 560nm in static color mode
- 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

- Seamless tapered aluminum self-flanged trim with white finish (field paintable)
- Clear poly lens with square black louver above

Acrylic Enameled Aluminum Housing

- Rustproof and corrosion resistant: exceeds 1000 hour ASTM 5% salt spray test
- Suitable for coastal areas
- 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 1⅛" thick or see Option -79
- Compatible with fire rated enclosures (by others)
- 27" hanger bars & adjusting brackets (2) supplied
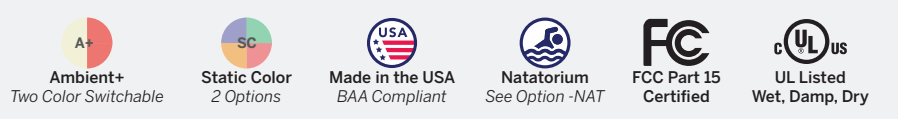
UL, C-UL (Canada)

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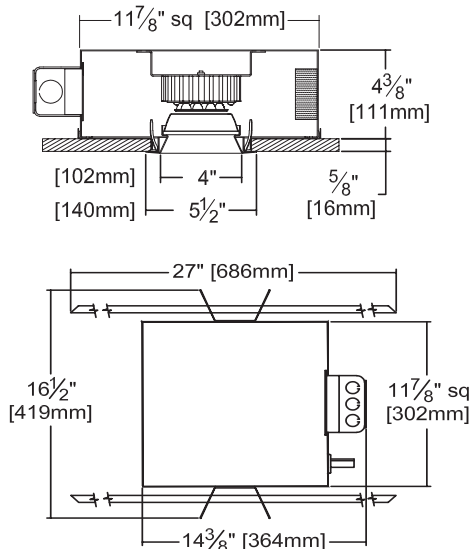
IEC & FCC Compliance

- 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

A+ Ambient+ *Two Color Switchable*	**SC** Static Color *2 Options*	**USA** Made in the USA *BAA Compliant*	Natatorium *See Option -NAT*	**FC** FCC Part 15 Certified	**UL** UL Listed *Wet, Damp, Dry*

Dimensions

11⅞" sq [302mm]

4⅜" [111mm]

[102mm]
[140mm]

4"

5½"

⅝" [16mm]

27" [686mm]

16½" [419mm]

11⅞" sq [302mm]

14⅜" [364mm]

Static Color Options

OPTION	LED COLOR		TYPICAL APPLICATION
-590	Yellow / Amber	(590nm)	Turtle Friendly, Sleep-Supporting Circadian
-617	Amber	(617nm)	Vivarium, Sleep-Supporting Circadian

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Ambient+ Two Color Options and Ordering Configuration

(Example: TRR-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: 4100°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: 4100°K -50K-HC: 5000°K ****Note:** Lumen Factor = 0.79 for -27K-HC; All Others = 0.85; Consult Factory	-590: 590nm Yellow/Amber; Turtle-friendly -617: 617nm Amber; Turtle-friendly	**(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; clear poly lens with square black louver above **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** -32: White trim extender, specify OD -45: Gasket between trim & ceiling	**(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: TRR-04404-1000L-UNV-617-35F)

Must Specify				Optional			
Model	**Lumens**	**Volts**	**Static Color**	**Driver Options**	**Trim Options**	**Emergency Options**	**Other Options**
LRR-04404	-1000L	-UNV -97†: Other Voltage	-590: 590nm Yellow/Amber; Turtle-friendly -617: 617nm Amber; Turtle-friendly	**(Blank):** 0-10V 1.0% dim -D2: 0-10V 0.1% dim; Static color	**(Blank):** Seamless tapered aluminum self-flanged trim with white finish; clear poly lens with square black louver above **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** -32: White trim extender, specify OD -45: Gasket between trim & ceiling	**(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 -FS: Fused primary; One per fixture; N/A for option -EI -TA: Top access for servicing from above ceiling
		†Consult factory					

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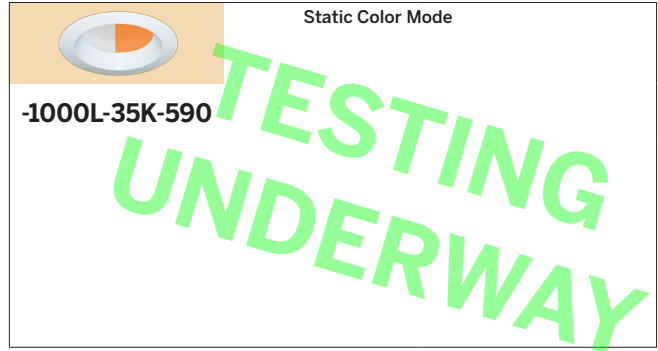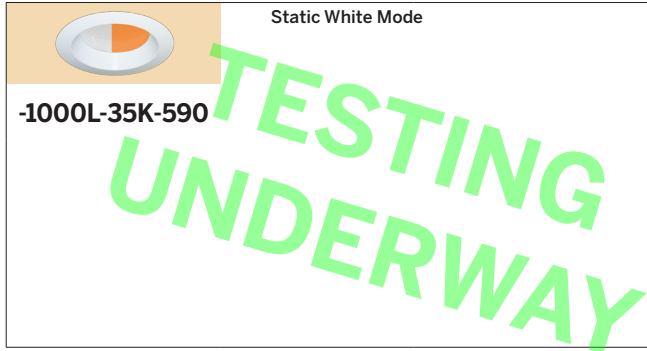
K Shoreview™
TURTLE-SAFE LIGHTING

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-590		1.00	17.0
-CCT-617		1.83	17.5

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
-590		1.00	22.1	
-617		1.83	22.4	

Static Color Only
-1000L-590
TESTING UNDERWAY
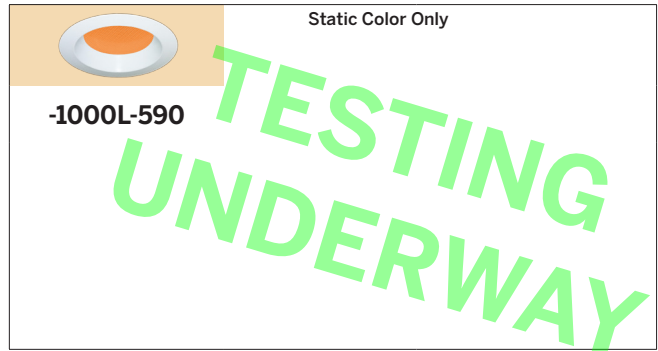
LED Spectral Emissions

—— LED Output
- - - Human Eye Perception

Environmental Yellow / Amber
590nm peak (583nm min, 595nm max)

Φ_{rel} vs λ (nm)
Legend: $\Phi_{rel\,(yellow)}$, V_λ
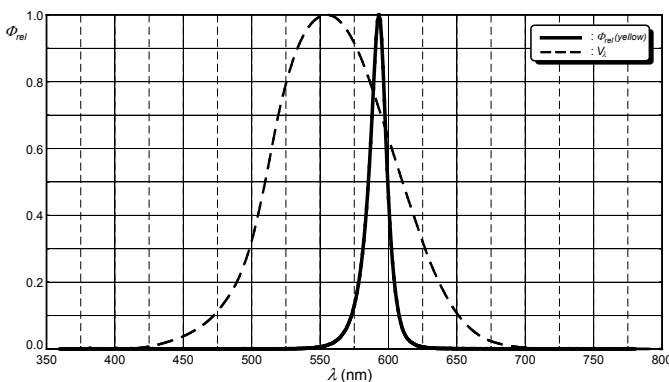
Option -ERO (Environmental Red / Orange)
617nm peak (609nm min, 624nm max)

Φ_{rel} vs λ (nm)
Legend: $\Phi_{rel\,(amber)}$, V_λ
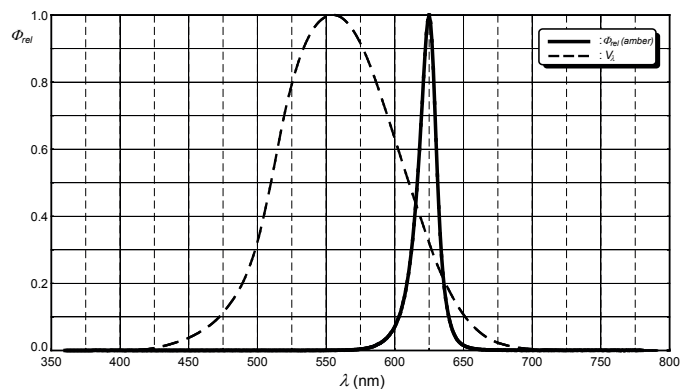
LED manufacturers maintain a tolerance of +/-7% on flux (lumens) and power (electrical) measurements.

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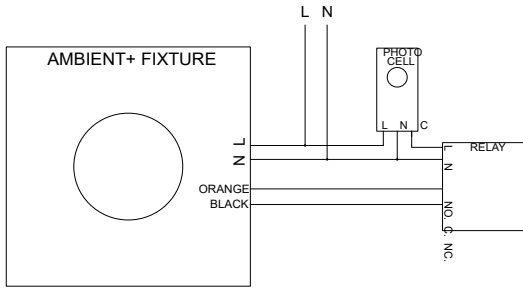# Ambient+ Two Color Switchable - Example Wiring Diagrams
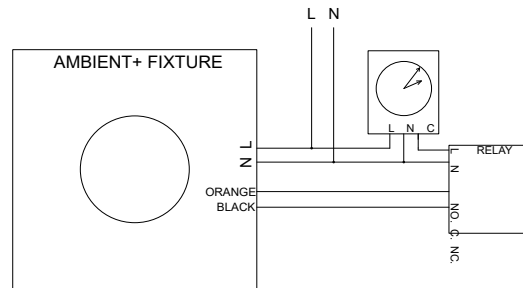
Basic Color Selection
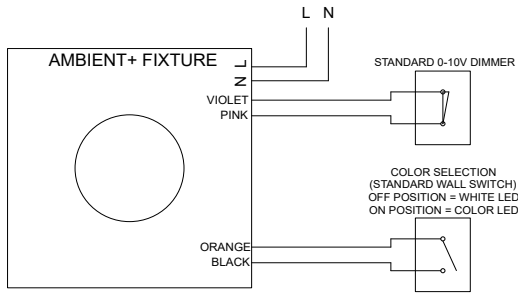
Building Control of White vs. Color
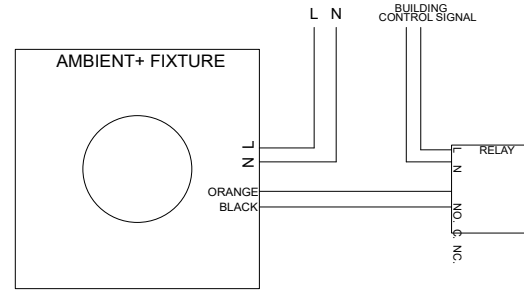
Photocell Control of White vs. Color

Timer Control of White vs. Color

Room Example with a Mix of Fixture Types