

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

Lighting for Patient Spaces

Ambient+ Ligature/Vandal Resistant 6" Downlight

Two Color Switchable or Static Color LED

Six Static Colors Available • Up to 90,000 Hour Rated Life

Antimicrobial Trim • LM-80 Qualified • LM-79 Certified Photometry

Specifications

Delivered System Performance*

- Lumen Series: **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)
- Fully sustainable: removable for servicing

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 and Lens Assembly

- Ligature resistant smooth white seamless tapered aluminum self-flanged rigid cast trim
- Kirlin BioGard™ antimicrobial white finish continuously inhibits growth of bacteria on the coating of the trim
- Flush center pin tamperproof hex screws and captive nuts secure trim to housing; tamperproof tool included
- High strength microprismatic acrylic above .220" clear flat polycarbonate lens.
- Continuous ring secures lens to trim

Acrylic Enameled Aluminum Housing

- Rustproof: exceeds 1000 hour ASTM 5% salt spray test; all components fully sustainable
- Shallow depth fits restricted plenums
- Cool operation extends component life
- Modular design; visible and fully serviceable through aperture
- Built-in plaster flange

MRV-06868



Outlet Box (Galvanized)

- UL listed J-box with insulated removable cover; prewired 14 GA (NEC) with 1/2" and 3/4" knockouts

Installation & Hardware

- Indoor/outdoor in covered locations in ceilings up to 1 1/8" thick
- 27" galvanized hanger bars & adjustable mounting brackets (2) supplied

UL, C-UL (Canada) Listings

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

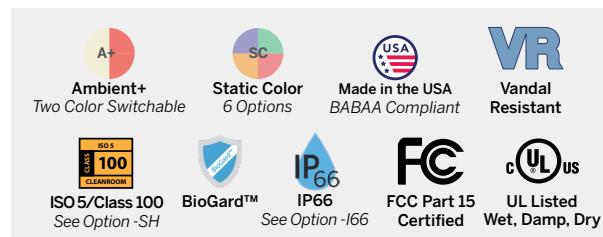
IEC & FCC Compliance

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

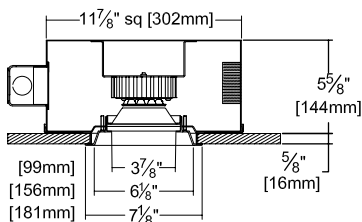
FIVE YEAR Limited Warranty

- Complete standard fixture

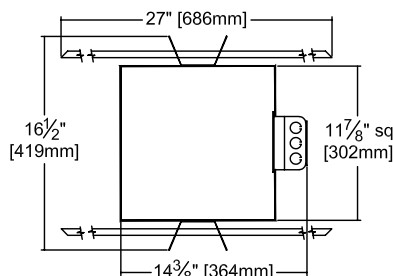
Level	Option	Patient Safety	Infection Protection
1+	Standard	VR Vandal Resistant	BioGard™
2+	-I66	VR Vandal Resistant	BioGard™ IP66
3+	-I66 -SH	VR Vandal Resistant	BioGard™ IP66 ISO 5/ Class 100



Dimensions



Ceiling Cut-out
6 3/4" Dia.



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: MRV-06868-1000L-UNV-30K-HC-521-D2-I66-SH)

Must Specify					Optional			
Model	Lumens	Volts	White CCT	Static Color	Driver Options	Trim Options	Emergency Options	Other Options
MRV-06868								
	-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): White tamper-resistant trim, high strength dual lens Trim Finishes -35T: Silver enamel (complete trim); (non BioGard™) -BKBG: BioGard anti-microbial black -94: Custom color/finish; specify; (non BioGard™); consult factory -94BG: BioGard anti-microbial custom color finish -BN: Brushed nickel cast trim instead (non BioGard™) Other Trim Features -I66: IP66 Rated trim; also see Option -SH -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; provides Cleanroom Rated luminaire (ISO 5 Class 100); must be used with option -I66
		†Consult factory						

Static Color Options and Ordering Configuration

(Example: MRV-06868-1000L-UNV-590-BN)

Must Specify				Optional			
Model	Lumens	Volts	Static Color	Driver Options	Trim Options	Emergency Options	Other Options
MRV-06868							
	-1000L	-UNV -97†: Other Voltage 					

LIMITED WARRANTY: KIRLIN LIGHTING PRODUCTS ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALLATION, ETC., 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. 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.

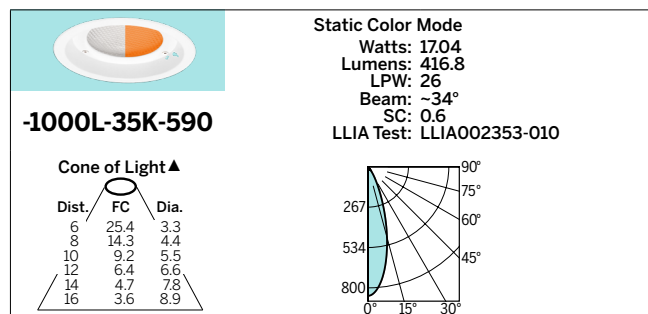
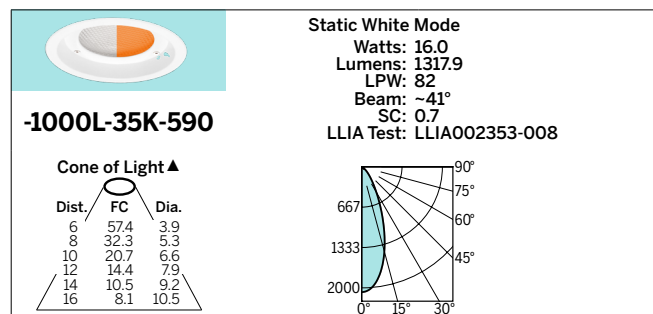
PATIENT SPACES
April 2025

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
-CCT-590	416.8	1.00	17.0
-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 details.

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

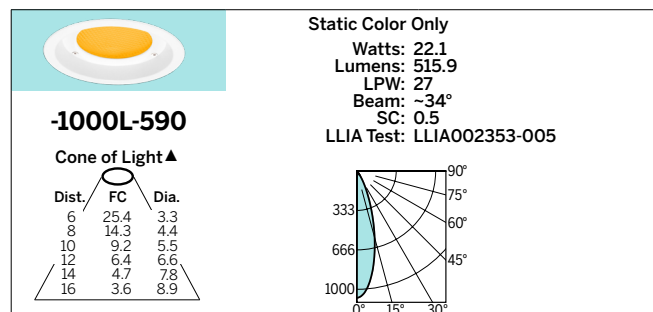
Photometry - Static Color - Installed Complete Fixture

LM-79 IESNA Certified Photometry from Independent Lab

Static Color

STATIC COLOR	COLOR LUMENS	COLOR LUMEN FACTOR	IES LUMEN FACTOR *	NOMINAL WATTS	LPW
-465	1041.7	2.15	2.58	22.1	47.2
-521	1598.9	3.30	3.96	22.1	72.4
-590	484.5	1.00	1.20	22.1	22.0
-617	886.6	1.83	2.20	22.1	40.2
-634	80.43	1.66	1.99	22.1	36.4
-660	377.9	0.78	0.94	22.1	17.1

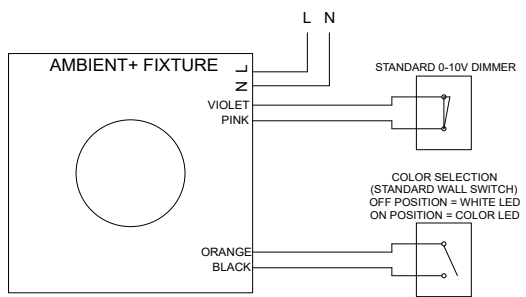
* IES file are based on Ambient+ Static Color light output. Use this lumen factor for lighting calculations.



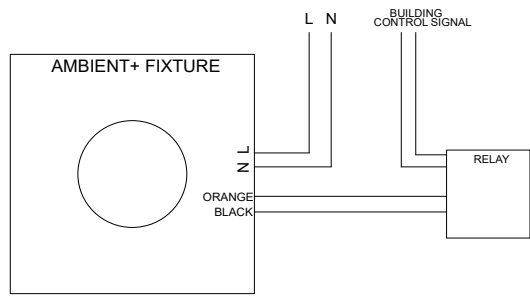
LED manufacturers maintain a tolerance of +/-7% on flux (lumens) and power (electrical) measurements.

Ambient+ Two Color Switchable - Example Wiring Diagrams

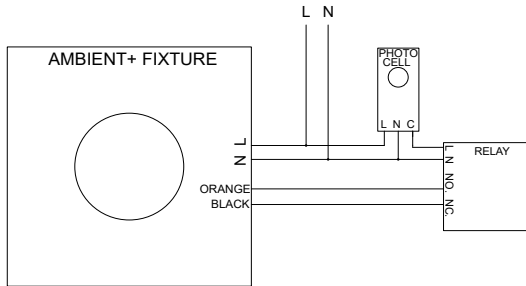
Basic Color Selection



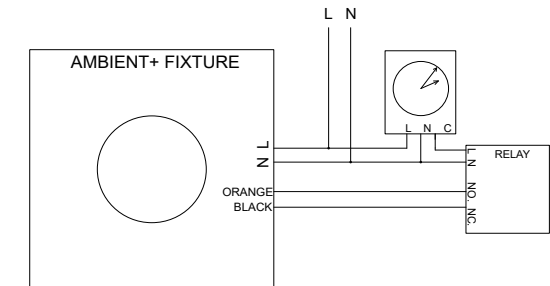
Building Control of White vs. Color



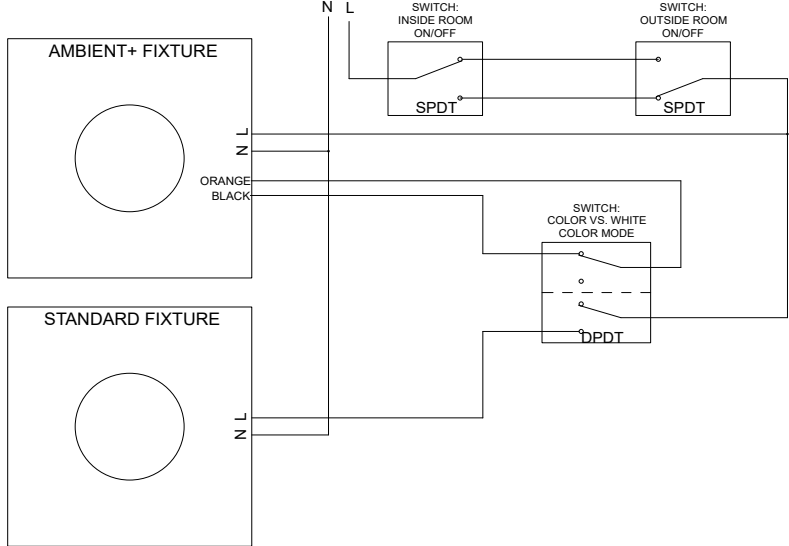
Photocell Control of White vs. Color



Timer Control of White vs. Color



Room Example with a Mix of Fixture Types



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