

CSL

WHISPER

WHISPER ½" TRIMLESS LED DOWNLIGHT

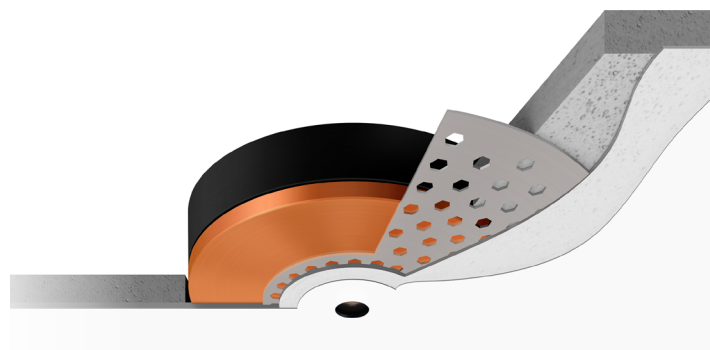
WS-IC

PROJECT: _____

TYPE: _____

CONTACT: _____

SPEC-00270 WHISPER, 0.5", V-5.0, UPDATED 08/04/23



Impossibly Small, ½" Aperture

FEATURES

- ½" aperture, trimless downlight minimizes fixture and light noise at the ceiling
- Delivers up to 1100 lumens of general or accent light using SilentVu™ optical control at 50° or 30°
- 100,000 hr LED lifetime and available integral or remote driver options

LED LIGHT ENGINE

RATED WATTAGE	16.1W
DELIVERED LUMENS	Up to 1100 lm @ 4000K - 50° Optic
EFFICACY	Up to 69.1 LPW @ 4000K - 50° Optic
CCT @ 90CRI	2700K, 3000K, 3500K, 4000K
COLOR QUALITY	90+ CRI, 2-Step SDCM
LED LIFETIME	100,000 hours @ L90
MAX AMBIENT	35°C (95°F)

DELIVERED LUMENS MATRIX

		30° Optic	50° Optic
16.1 W	2700K (90CRI)	651 lm	977 lm
	3000K (90CRI)	651 lm	977 lm
	3500K (90CRI)	696 lm	1054 lm
	4000K (90CRI)	735 lm	1104 lm

SILENT VU™ OPTICS TECHNOLOGY

OPTICS	50° Installed and 30° Included
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POWER SUPPLY

INPUT VOLTAGE	120-277V, 50/60Hz
DIMMING	Multiple dimming drivers available

HOUSING INSTALLATION

- Mud-in only
- 5½" Diameter ceiling cutout
- 3" drywall toggle bolts included
- Optional rough-in pan available
- ½" – 2" ceiling thickness
- 2½" minimum plenum height above ceiling required
- Above ceiling access required for remote driver option

LISTINGS AND WARRANTY

cULus Listed
 UL Listed for Wet Location
 ASTM E283 Certified Airtight
 IC Rated
 ENERGY STAR® Certified with 50° optic
 CA Title 24-JA8 Compliant with 50° optic, 90+ CRI
 Five (5) years limited warranty, extended to Ten (10) years with remote driver option





WHISPER

WHISPER 1/2" TRIMLESS LED DOWNLIGHT

PROJECT: _____

TYPE: _____

CONTACT: _____

SPEC-00270 WHISPER, 0.5", V-5.0, UPDATED 08/04/23

WS-IC

ORDER MATRIX

WHISPER ORDER MATRIX (Example: WS-IC-2790-S1)

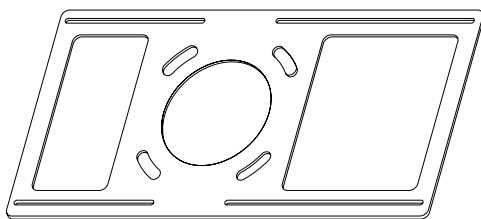
PRODUCT FAMILY	CCT	CRI	INTEGRAL DRIVER OPTIONS – Includes Whisper with Integral Driver
WS-IC- Whisper Downlight IC Rated New Construction or Remodel	27 (2700K)	90 (90 CRI)	-S1 (1) Whisper with Universal Dim Driver: 1%-100% 0-10V, TRIAC, ELV, 120V/277V -EL1 (1) Whisper with EldoLED Dim Driver: 0.1%-100% 0-10V, 120V/277V Integral drivers must be accessible from above the ceiling to validate warranty.
	30 (3000K)		
	35 (3500K)		REMOTE DRIVER OPTIONS – Includes Whisper(s) + Remote Driver -SR1 (1) Whisper + (1) Universal Dim Driver: 1%-100% 0-10V, TRIAC, or ELV, 120V/277V -SR2 (2) Whispers + (1) Universal Dim Driver: 1%-100% 0-10V, TRIAC, or ELV, 120V/277V -SR3 (3) Whispers + (1) Universal Dim Driver: 1%-100% 0-10V, TRIAC, or ELV, 120V/277V -ER1 (1) Whisper + (1) EldoLED Dim Driver: 0.1%-100% 0-10V, 120V/277V -ER2 (2) Whispers + (1) EldoLED Dim Driver: 0.1%-100% 0-10V, 120V/277V -ER3 (3) Whispers + (1) EldoLED Dim Driver: 0.1%-100% 0-10V, 120V/277V -LRE1 (1) Whisper + (1) Lutron Dim Driver: 1%-100% EcoSystem, 120V/277V -LRE2 (2) Whispers + (1) Lutron Dim Driver: 1%-100% EcoSystem, 120V/277V -LRE3 (3) Whispers + (1) Lutron Dim Driver: 1%-100% EcoSystem, 120V/277V Remote Driver Options listed above are specifically tuned to power the corresponding number of Whispers indicated and must be installed in the configuration as ordered: (1) Whisper + (1) Remote Driver, (2) Whispers + (1) Remote Driver, or (3) Whispers + (1) Remote Driver as defined above. For Remote Driver options, specific installation provisions should meet local code and jurisdiction requirements as determined by your licensed electrical contractor. DC wiring will run between the provided CSL Whisper junction box and the remote mounted driver. Generally, #12AWG, #14AWG, and #18AWG stranded or solid UL certified power wiring can accommodate run lengths of up to 50ft between the installed CSL Whisper.
	40 (4000K)		

EMERGENCY OPTIONS

EM-1000 (25W Remote Inverter)	EM-1003 (35W Remote Inverter)	EM-1004 (50W Remote Inverter)
EM-1002 (10W Remote Emergency Driver)	EM-1003-CA (35W Remote Inverter) Title 20	EM-1006 (25W Remote Inverter) Title 20

ADDITIONAL ACCESSORIES

WS-PAN	Whisper New Construction Rough-in Pan Optional, for new construction applications
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Rough-in Pan



Scan code to view installation video

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WHISPER 1/2" TRIMLESS LED DOWNLIGHT

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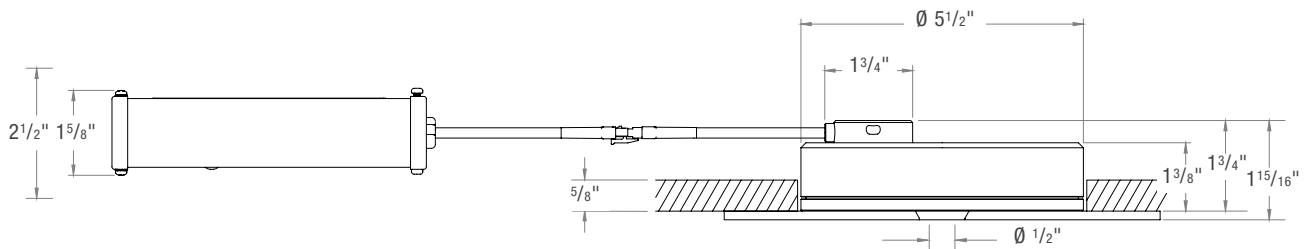
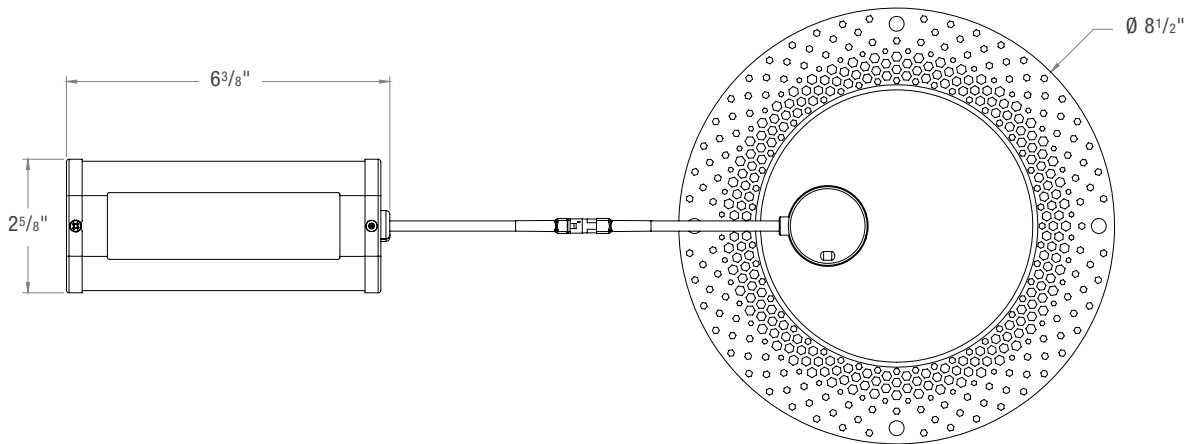
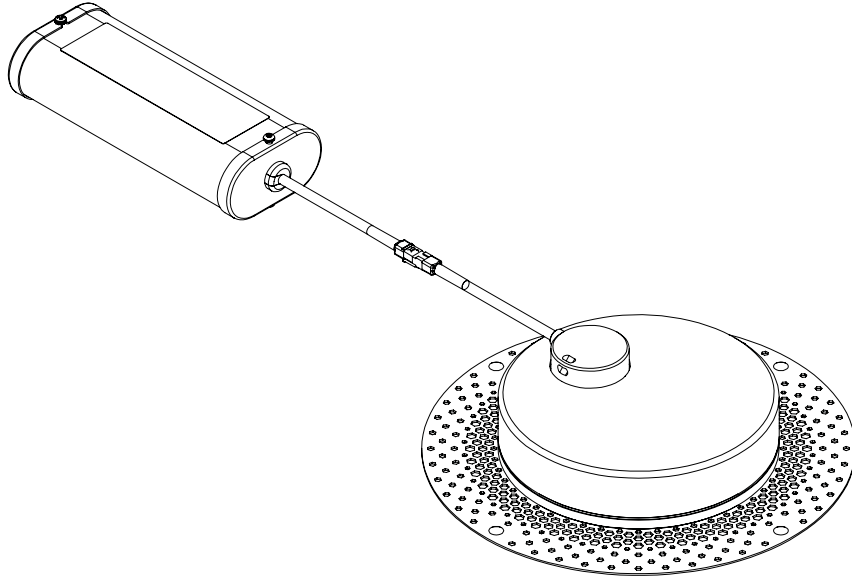
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WS-IC

INTEGRAL UNIVERSAL DIMMING DRIVER



Note: 2 1/2" Minimum plenum height to accommodate driver installation into the plenum

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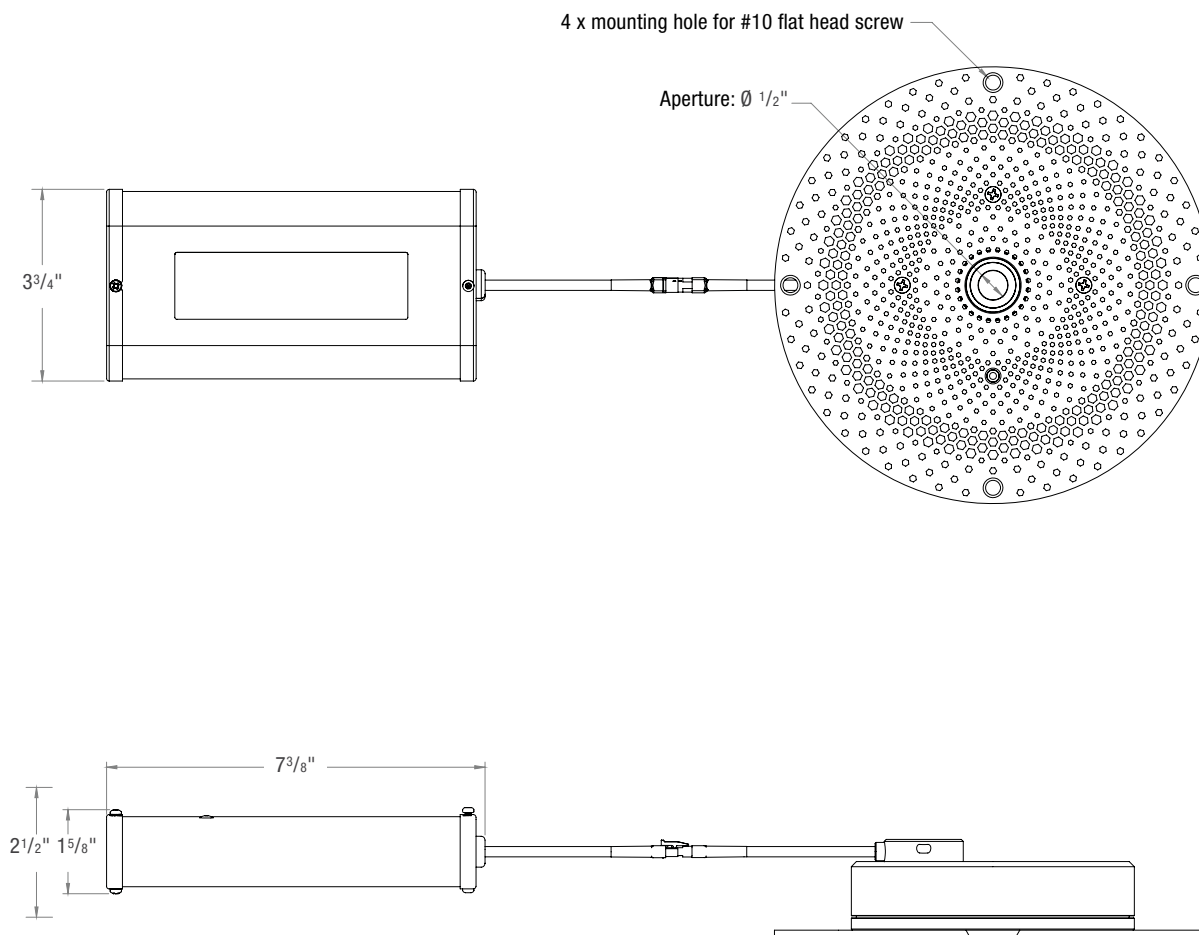
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INTEGRAL PERFORMANCE DIMMING DRIVER

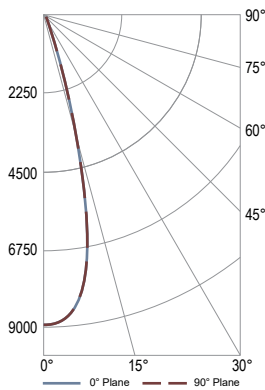


Note: 2 1/2" Minimum plenum height to accommodate driver installation into the plenum

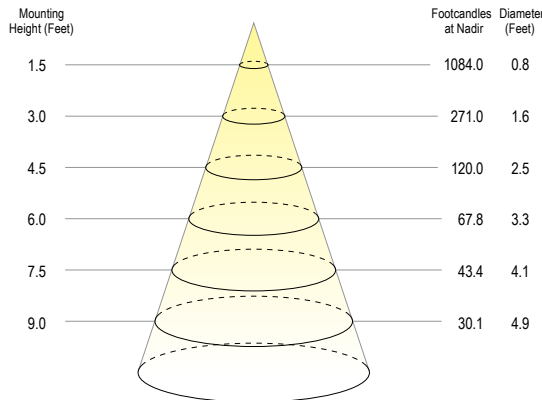
PHOTOMETRICS

Whisper Downlight 1/2" (3000K, 90 CRI, 30° Optic, 16.1W) Trimless

Polar Plot



Cone of Light Tabulation



Voltage	Current	Power
120.2 VAC	0.1345 A	15.97 W

Power Factor	Frequency	Current THD
0.988	60 Hz	12.5%

Summary of Results

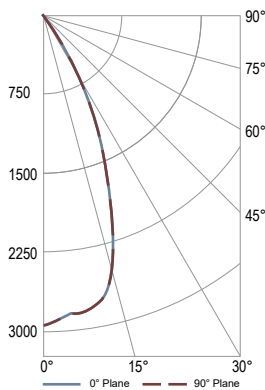
Spacing Criteria
 0-180: 0.52
 90-270: 0.52

Total Lumen Output: 650 Lumens
Luminaire Efficacy: 40.7 lm/w
Maximum Candela: 2439 Candela

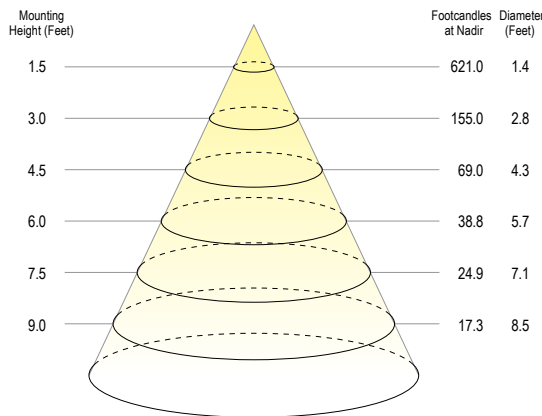
Zone	Lumens	% of Luminaire
0-40	641	98.6%
0-60	648	99.6%
0-90	651	100.0%

Whisper Downlight 1/2" (3000K, 90 CRI, 50° Optic, 16.1W) Trimless

Polar Plot



Cone of Light Tabulation



Voltage	Current	Power
120.1 VAC	0.1347 A	15.97 W

Power Factor	Frequency	Current THD
0.988	60 Hz	12.6%

Summary of Results

Spacing Criteria
 0-180: 0.80
 90-270: 0.80

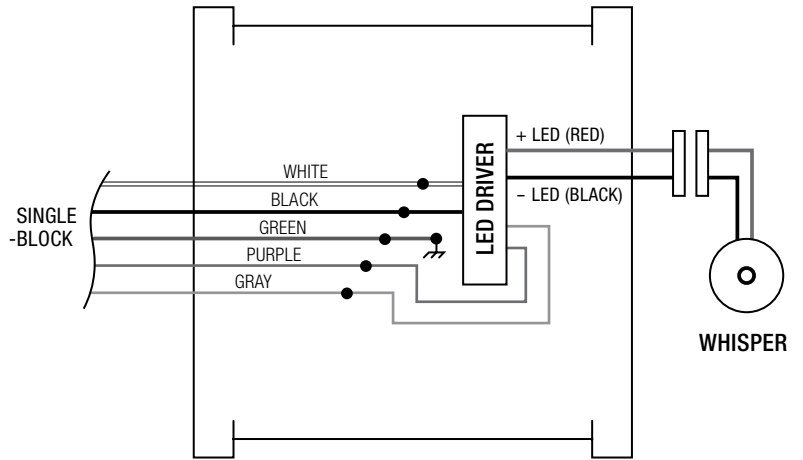
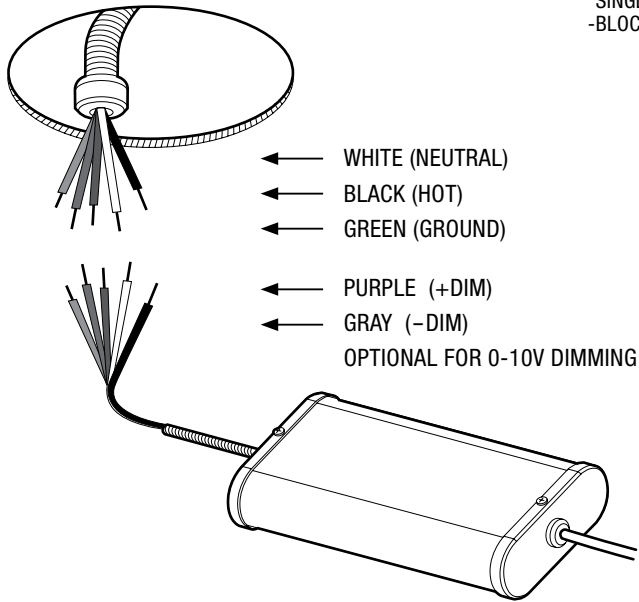
Total Lumen Output: 977.4 Lumens
Luminaire Efficacy: 61.2 lm/w
Maximum Candela: 1398 Candela

Zone	Lumens	% of Luminaire
0-40	935	96.7%
0-60	975	99.8%
0-90	977	100.0%

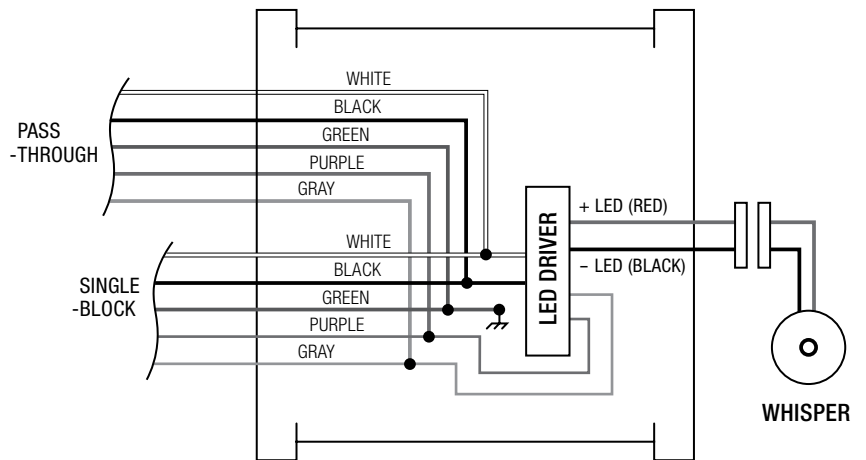
WIRING DIAGRAM - INTEGRAL DRIVER OPTIONS

LED Driver Inside

FOR SINGLE-BLOCK CONNECTION

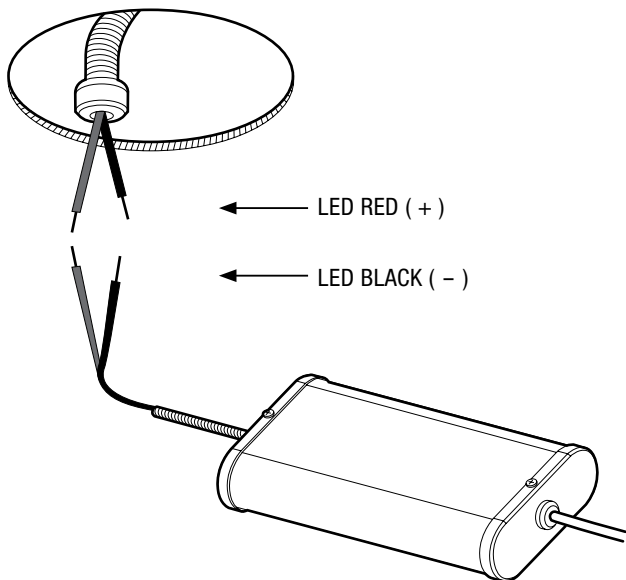


FOR PASS-THROUGH CONNECTION

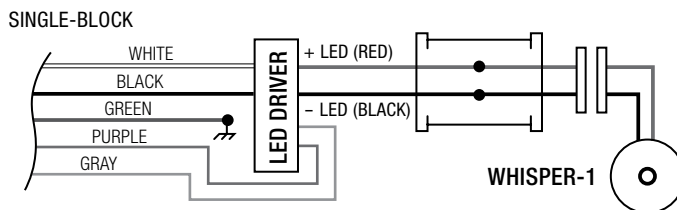


WIRING DIAGRAM - REMOTE DRIVER OPTIONS

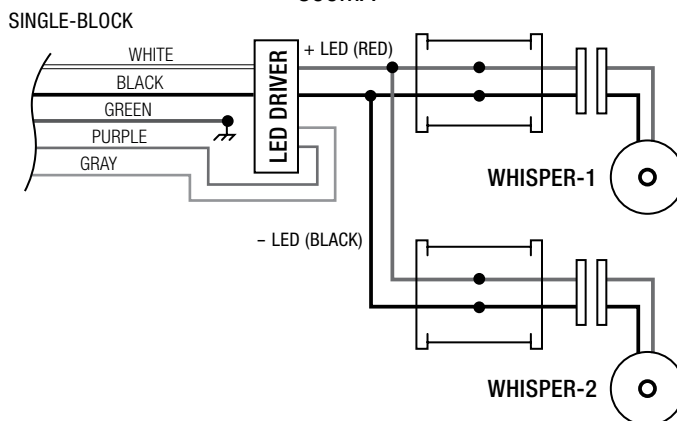
LED Driver Outside



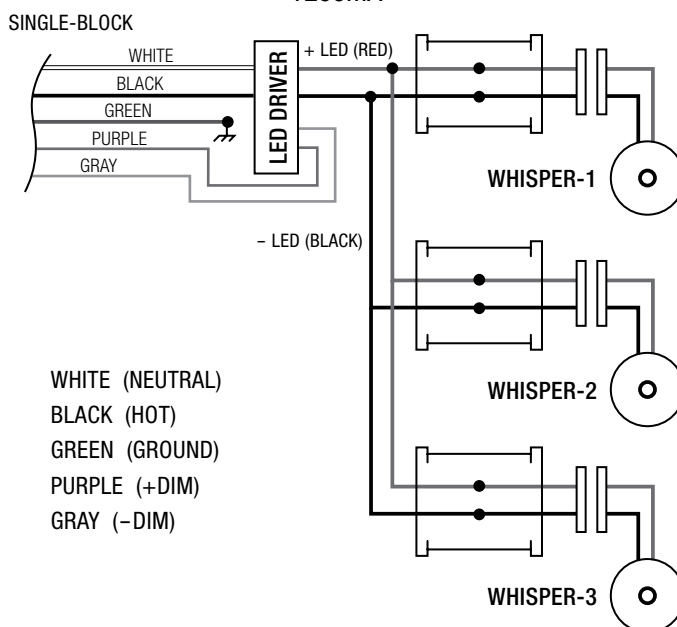
① WHISPER + ① REMOTE DRIVER 400mA



② WHISPERS + ① REMOTE DRIVER 800mA



③ WHISPERS + ① REMOTE DRIVER 1200mA



WHITE (NEUTRAL)
BLACK (HOT)
GREEN (GROUND)
PURPLE (+DIM)
GRAY (-DIM)

⚠ WARNING

A SINGLE LUMINAIRE SHALL NOT HAVE MORE THAN 14.4W (400MA @ 36VDC) SUPPLIED

⚠ WARNING

MAKE SURE THAT THERE ARE NO EXPOSED STRANDS OF WIRE THAT COULD CAUSE A DANGEROUS SHORT CIRCUIT!

⚠ WARNING

NEVER FASTEN THE GROUND WIRE (GREEN) TO THE HOT (BLACK) WIRE!
FAILURE TO FOLLOW THIS INSTRUCTION COULD RESULT IN SERIOUS INJURY OR DEATH!

DIMMING GUIDE

S1 (ERP)

- 120/277V input power
- 0-10V dimming, 1%-100%
- TRIAC (forward-phase or leading-edge) dimming, 1%, 120V only
- ELV (reverse-phase or trailing-edge) dimming, 1%, 120V only

SR1 (ERP)

- 120/277V input power
- Non-linear 0-10V dimming, 1%-100%
- TRIAC (forward-phase or leading-edge) dimming, 1%, 120V only
- ELV (reverse-phase or trailingedge) dimming, 1%, 120V only

120VAC Dimmers

Mfg.	Model	Mfg.	Model	Mfg.	Model
Lutron	S-603PG	Lutron	DVELV-303P	Lutron	CT-103P
Leviton	IPI06-1LZ	Lutron	SELV-300P	Cooper	SLC03P
Leviton	6631-2	Leviton	6683-IW	Leviton	IPE04
Lutron	DVCL-153P	Leviton	6161	Lutron	MAELV-600
Lutron	DV-600P	Leviton	6633-P	Lutron	FAELV-500
Lutron	TGCL-153P	Lutron	TG-600P	Lightolier	ZP260QEW
Lutron	S-600P	Cooper	DLC03P	Cooper	DAL06P
Leviton	VPE06	Lutron	LG-600P		

EL1 (ELDOLED)

- 0-10V dimming, 1% dim-to-off
- 120/277V

ER1 (ELDOLED)

- 0-10V dimming, 1% dim-to-off

Compatible 0-10V Dimmers and Switches

Dimmer Manufacturer	Website	Type	Recommended Dimming Curve
Busch-Jaeger	www.busch-jaeger.de	2112U-101	Logarithmic
Jung	www.jung.de	240-10	Logarithmic
Leviton Lighting Controls	www.leviton.com	IllumaTech - IP710-DLX	Logarithmic
Lightolier Controls	www.lightolier.com	ZP600FAM120	Logarithmic
Lutron Electronics	www.lutron.com/LEDtool	Nova T - NTFTV Diva - DVTV, Diva - NFTV	Linear Linear
Merten	www.merten.de	5729	Logarithmic
Pass & Seymour	www.legrand.us	CD4FB-W	Logarithmic
The Watt Stopper	www.wattstopper.com	DCLV1	Logarithmic
Sensor Switch	www.sensorswitch.com	nIO EZ	Linear
Synergy	www.synergylightingcontrols.com	ISD BC	Logarithmic

Compatible Dimming Control Systems

Control Manufacturer	Website	Type	Recommended Dimming Curve
Lutron Electronics	www.lutron.com/LEDtool	GraphicEye - GRX-TVI w GRX3503, Energy Savr Node - QSN-4T16-S, TVM2 Module	Linear
Crestron	www.crestron.com	GLX-01MFLV8, GLXP-01MFLV8, GLPAC-DIMFLV4-*, GLPAC-DIM- FLV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-A08, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV2EX	Logarithmic
ABB	www.abb.com/KNX	SD/S 2.16.1	Logarithmic

Note: All dimming guidance presented, based on driver manufacturers testing and recommendations.)