

WHISPER 1/2" TRIMLESS LED DOWNLIGHT

rhujeut.	
TYPF:	

WS-IC

TYPE:	
CONTACT	
CONTACT:	





DDO IECT

FEATURES

- 1/2" 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

LIGHT ENGINE

- 16.1W, delivers up to 1100lm
- 2700K, 3000K, 3500K, or 4000K at 90 CRI
- 50° (installed) and 30° SilentVu™ optics included with fixture

DIMMING AND DRIVER OPTIONS

- Universal voltage, 120V/277V, 50/60Hz
- Universal dim standard: 1%-100% TRIAC/ELV/0-10V
- EldoLED dim available: 0.1%-100% 0-10V
- Lutron dim available: 1%-100% TRIAC or EcoSystem
- · IIntegral driver (single downlight) and remote driver (up to three connected downlights) options available

CEILING THICKNESS AND PLENUM REQUIREMENTS

- 1/2" 2" ceiling thickness
- Minimum plenum height: 21/2" above the ceiling
- · Access above ceiling required for integral driver option

MOUNTING OPTIONS

- Mud-in only, 3" drywall toggle bolts included
- · Optional rough-in pan available

LISTING/WARRANTY

- · cULus Listed
- UL Listed for Wet Location
- ASTM E283 Certified Airtight
- 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

SPECIFICATIONS

DELIVERED LUMENS	Up to 1100lm		
WATTS	16.1W		
EFFICACY	Up to 69.1 lm/W		
LED	Cree® LED		
COLOR QUALITY	90+ CRI, 2-Step SDCM		
ССТ	2700K, 3000K, 3500K, 4000K		
INPUT VOLTAGE	120/277V, 50/60Hz		
DIMMING	TRIAC, ELV, 0-10V, dims to 1% standard, 0.1% available		
OPTICS	50° Installed, 30° Included		
CEILING APPEARANCE	Trimless, ½" Aperture		
GEILING AFFEARANGE	minicos, /2 Aperture		
CEILING CUTOUT	5½" Diameter		
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CEILING CUTOUT	5½" Diameter		
CEILING CUTOUT CEILING THICKNESS	5½" Diameter ½" to 2 "		
CEILING CUTOUT CEILING THICKNESS MIN PLENUM HEIGHT	5½" Diameter ½" to 2" 2½" to accommodate driver installation into the plenum		
CEILING CUTOUT CEILING THICKNESS MIN PLENUM HEIGHT MAX AMBIENT	5½" Diameter ½" to 2" 2½" to accommodate driver installation into the plenum 35°C (95°F)		
CEILING CUTOUT CEILING THICKNESS MIN PLENUM HEIGHT MAX AMBIENT FINISH	5½" Diameter ½" to 2" 2½" to accommodate driver installation into the plenum 35°C (95°F) Trimless, only light aperture visible		

DELIVERED LUMENS/EFFICACY MATRIX

OPTIC		90			
00	2700K	3000K	3500K	4000K	
30°	651 lm	651 lm	696 lm	735 lm	
50°	977 lm	977 lm	1045 lm	1104 lm	
30°	40.7 lm/W	40.7 lm/W	43.6 lm/W	46.0 lm/W	
50°	61.2 lm/W	61.2 lm/W	65.5 lm/W	69.1 lm/W	





















WHISPER ½" TRIMLESS LED DOWNLIGHT

PROJECT:	
TYPE:	
CONTACT:	

SPEC-00270 WHISPER, 0.5", V-3, UPDATED 01/31/22

WS-IC

ORDER MATRIX

 $\textbf{WHISPER ORDER MATRIX} \ \ (\textbf{Example: WS-IC-2790-S1} \quad \textbf{Whisper Downlight, IC Rated, 2700K, 90 CRI, Integral Universal Dim driver}) \\$

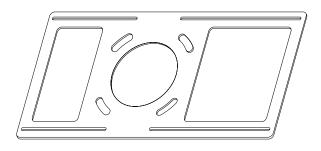
PRODUC	Γ FAMILY	CCT		CRI		INTEGRAL DRIVER OPTIONS — Includes Whisper with Integral Driver			
WS-IC-	Whisper Downlight	27	(2700K)	90	(90 CRI)	-S1	(1) Whisper with Universal Dim Driver: 1%-100% 0-10V, TRIAC, ELV, 120V/277V		
	IC Rated	30	(3000K)			-EL1	(1) Whisper with EldoLED Dim Driver: 0.1%-100% 0-10V, 120V/277V		
	New Construction	35	(3500K)				Integral drivers must be accessable from above the ceiling to validate warranty.		
	or Remodel	40	(4000K)			REMOTE DE	RIVER 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		
						-LRT1	(1) Whisper + (1) Lutron Dim Driver: 1%-100%, TRIAC 120V		
						-LRT2	(2) Whispers + (1) Lutron Dim Driver: 1%-100%, TRIAC 120V		
						-LRT3	(3) Whispers + (1) Lutron Dim Driver: 1%-100%, TRIAC 120V		
						-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 indice and must be installed in the configuration as ordered: (1) Whisper + (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 determined by your licensed electrical contractor. DC wiring will run between the provided CSL Whisper junction and the remote mounted driver. Generally, #12AWG, #14AWG, and #18AWG stranded or solid UL certified pow wiring can accommodate run lengths of up to 50ft between the installed CSL Whisper.			

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



Rough-in Pan





WHISPER ½" TRIMLESS LED DOWNLIGHT

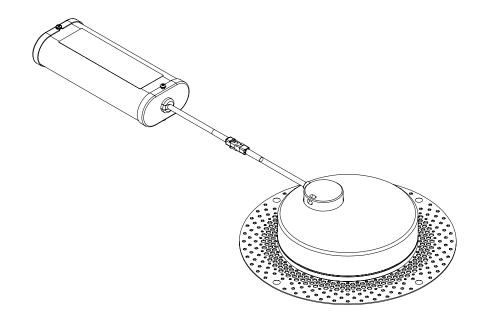
WS-IC

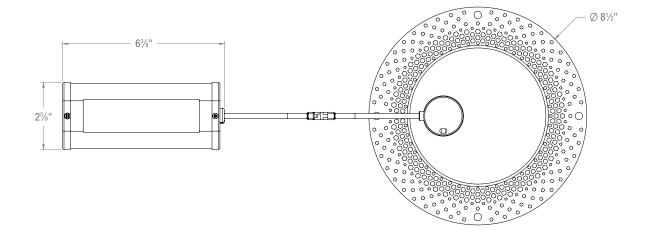
PROJECT:		

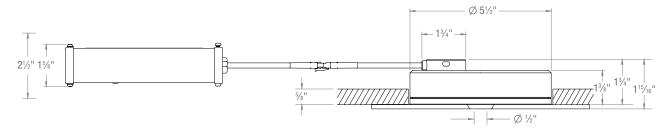
TYPE:

CONTACT:

INTEGRAL UNIVERSAL DIMMING DRIVER







Note: $2\frac{1}{2}$ " Minimum plenum height to accommodate driver installation into the plenum





$SPEC\text{-}00270 \quad \text{WHISPER}, \ 0.5\text{"}, \ \text{V-3}, \ \ \text{UPDATED} \ 01/31/22$

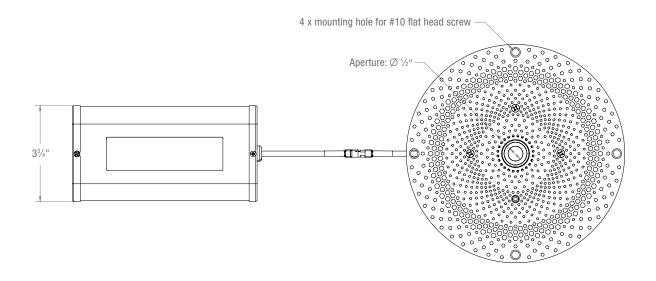
WHISPER ½" TRIMLESS LED DOWNLIGHT

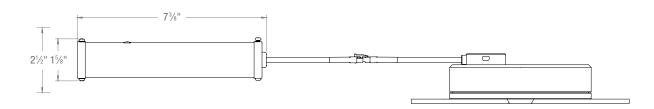
PROJECT:	
TYPE:	

WS-IC

CONTACT:

INTEGRAL PERFORMANCE DIMMING DRIVER





Note: 2½" Minimum plenum height to accommodate driver installation into the plenum





WHISPER 1/2" TRIMLESS **LED DOWNLIGHT**

TYPE:		

PROJECT: _

WS-IC

LIGHT DISTRIBUTION - GONIOPHOTOMETER

Light Distribution Test Conditions Results Using 30° Optics, 2700 CCT, 90 CRI

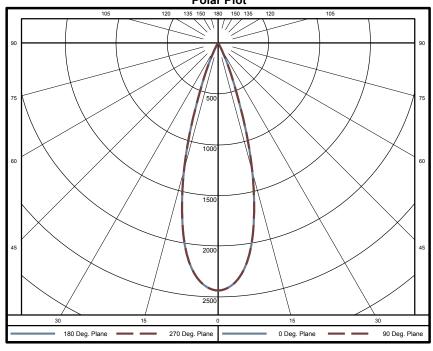
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.2 VAC	0.1345 A	15.97 W	0.988	60 Hz	12.5%

Summary of Results

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

Total Lumen Output: Luminaire Efficacy: Maximum Candela: 650.5 Lumens 40.7 lm/w 2439 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	57.1	8.8%	60-65	0.6	0.1%	120-125	0	0.0%
5-10	153.4	23.6%	65-70	0.6	0.1%	125-130	0	0.0%
10-15	190.7	29.3%	70-75	0.6	0.1%	130-135	0	0.0%
15-20	142.8	22.0%	75-80	0.6	0.1%	135-140	0	0.0%
20-25	61.4	9.4%	80-85	0.3	0.0%	140-145	0	0.0%
25-30	19.0	2.9%	85-90	0.1	0.0%	145-150	0	0.0%
30-35	10.0	1.5%	90-95	0	0.0%	150-155	0	0.0%
35-40	6.7	1.0%	95-100	0	0.0%	155-160	0	0.0%
40-45	3.7	0.6%	100-105	0	0.0%	160-165	0	0.0%
45-50	1.6	0.2%	105-110	0	0.0%	165-170	0	0.0%
50-55	0.8	0.1%	110-115	0	0.0%	170-175	0	0.0%
55-60	0.6	0.1%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	641	98.6%
0-60	648	99.6%
0-90	651	100.0%
90-180	0	0.0%





WHISPER 1/2" TRIMLESS **LED DOWNLIGHT**

TYPE:		

WS-IC

CONTACT:		

PROJECT: _

LIGHT DISTRIBUTION - GONIOPHOTOMETER

Light Distribution Test Conditions Results Using 50° Optics, 2700 CCT, 90 CRI

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.1 VAC	0.1347 A	15.97 W	0.988	60 Hz	12.6%

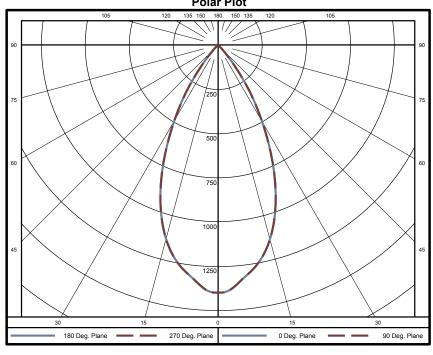
Summary of Results

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

Total Lumen Output: Luminaire Efficacy: Maximum Candela:

977.4 Lumens 61.2 lm/w 1398 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	32.9	3.4%	60-65	0.6	0.1%	120-125	0	0.0%
5-10	92.8	9.5%	65-70	0.5	0.1%	125-130	0	0.0%
10-15	141.6	14.5%	70-75	0.4	0.0%	130-135	0	0.0%
15-20	171.1	17.5%	75-80	0.4	0.0%	135-140	0	0.0%
20-25	175.1	17.9%	80-85	0.3	0.0%	140-145	0	0.0%
25-30	150.3	15.4%	85-90	0.1	0.0%	145-150	0	0.0%
30-35	108.9	11.1%	90-95	0	0.0%	150-155	0	0.0%
35-40	62.3	6.4%	95-100	0	0.0%	155-160	0	0.0%
40-45	27.5	2.8%	100-105	0	0.0%	160-165	0	0.0%
45-50	9.4	1.0%	105-110	0	0.0%	165-170	0	0.0%
50-55	2.4	0.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	0.7	0.1%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	935	95.7%
0-60	975	99.8%
0-90	977	100.0%
90-180	0	0.0%





WHISPER ½" TRIMLESS LED DOWNLIGHT

WS-IC

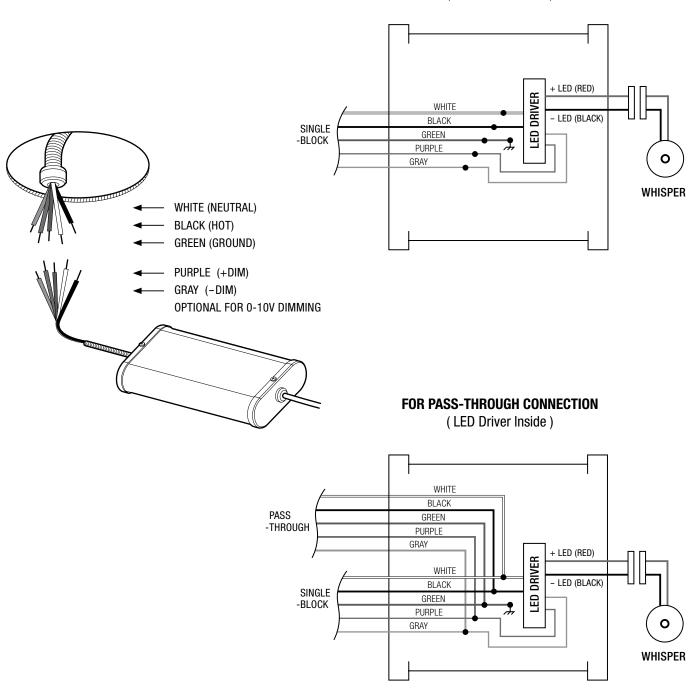
PROJECT:	
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WIRING DIAGRAM - INTEGRAL DRIVER OPTIONS

FOR SINGLE-BLOCK CONNECTION

CONTACT:

(LED Driver Inside)



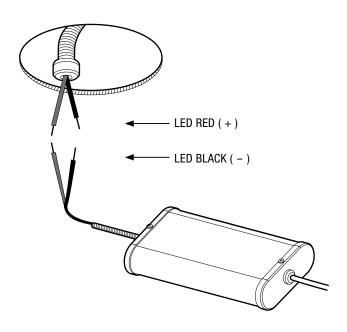


WHISPER ½" TRIMLESS LED DOWNLIGHT

WS-IC

PROJECT:	
TYPE:	
CONTACT:	

WIRING DIAGRAM - REMOTE DRIVER OPTIONS



↑ WARNING

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

MARNING

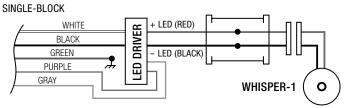
MAKE SURE THAT THERE ARE NO EXPOSED STRANDS OF WIRE THAT COULD CAUSE A DANGEROUS SHORT CIRCUIT!

MARNING

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

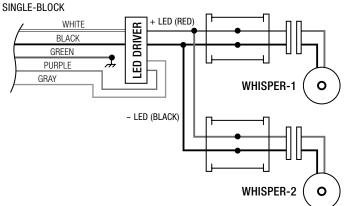
① WHISPER + ① REMOTE DRIVER

(LED Driver Outside)



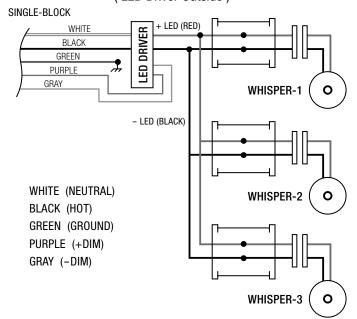
② WHISPERS + ① REMOTE DRIVER

(LED Driver Outside)



③ WHISPERS + ① REMOTE DRIVER

(LED Driver Outside)







WHISPER ½" TRIMLESS LED DOWNLIGHT

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PROJECT:	
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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	Туре	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	Туре	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-OIMFLV8. GLXP-OIMFLV8, GLPAC-DIMFLV4-*, GLPAC-DIM- FLV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-A08, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV4EX	Logarithmic
ABB	www.abb.com/KNX	SD/S 2.16.1	Logarithmic

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

