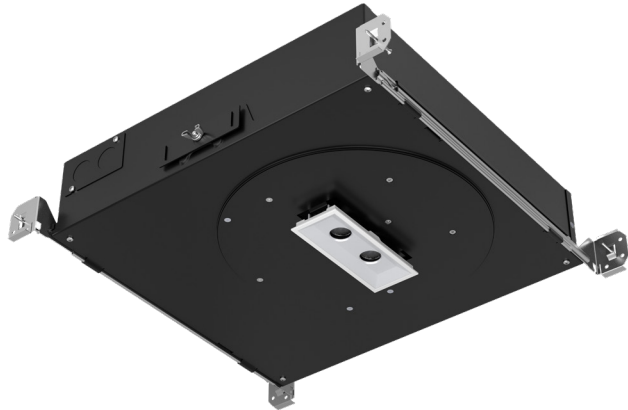


Project: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Note: \_\_\_\_\_

## WHISPER MULTIPLE LED DOWNLIGHT



LED LIGHT ENGINE	
RATED WATTAGES	Static White: 2-UP = 21W, 3-UP = 31W, 4UP = 30W Warm Dim: 2-UP = 19W, 3UP = 29W, 4UP = 28W
SYSTEM DELIVERED LUMENS	Up to 2496 lumens with 4 head @ 4000K 50 deg optic - with 3/4" round apertures @ a 1-3/4" head to head pitch
MODULE DELIVERED LUMENS	Up to 816 lm @ 4000K 50° Optic
SYSTEM EFFICACY	Up to 82.9 LPW @ 4000K - 4-UP 50° Optic
CCT @ 90CRI	2700K, 3000K, 3500K, 4000K, Warm Dim
COLOR QUALITY	90+ CRI, 2-Step SDCM
LED LIFETIME	55,000 hours @ L70
ADJUSTABLE	0° to 30° tilt, 360° pan

POWER SUPPLY	
INPUT VOLTAGE	120-277V, 50/60Hz
DIMMING	TRIAC, ELV and 0-10VDC and Lutron Homeworks/Ecosystem options available
SERVICABILITY	All options: Below ceiling access

SILENT VU™ OPTICS TECHNOLOGY	
OPTICS	50° Installed and 30° included

SYSTEM DELIVERED LUMENS MATRIX - REFLECTOR						
CCT & CRI	2 UP 30° OPTIC	2 UP 50° OPTIC	3 UP 30° OPTIC	3 UP 50° OPTIC	4 UP 30° OPTIC	4 UP 50° OPTIC
2700K (90CRI)	982	1419	1453	2015	1505	2169
3000K (90CRI)	1040	1503	1540	2135	1594	2298
3500K (90CRI)	1099	1588	1626	2255	1684	2427
4000K (90CRI)	1130	1633	1673	2319	1732	2496
Warm Dim (98CRI)	614	829	843	1183	1025	1309

### FEATURES

- 3/4" aperture downlight minimizes fixture and light noise at the ceiling
- Delivers up to 2495 lumens of general or accent light using SilentVu™ optical control at 50° or 30°
- 55,000 hr LED lifetime and available integral or remote driver options
- Housing available in 2, 3, and 4 light module options
- Modules pan 90° together as a set
- Integral driver is removeable from below ceiling

### TRIM OPTIONS

- Adjustable
- Wet Location
- Round Apertures
- Standard, Trimless, and Wood Ceiling

### TRIM COLORS

- White
- Black
- Champagne

### REFLECTOR COLORS

- White
- Black
- Champagne
- Satin Aluminum

### HOUSING

- Includes (2) galvanized steel adjustable hanger bars and butterfly brackets.
- Ceiling Material: Drywall, T-bar grid, Wood and Millwork
- Steel junction box with four 1/2" knockouts
- All options are Air Tight and CCEA (Chicago Plenum)
- 3 1/2" minimum plenum height above the ceiling required

### LISTING/WARRANTY

- cULus Listed
- UL Listed for Damp Location (All Styles) & Wet Location with AL reflector options.
- ASTM E283 Certified Airtight
- IC Rated
- CA Title 24-JA8 Compliant with Static White
- Five (5) years limited warranty
- CCEA (Chicago Plenum) Approved



Project: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Note: \_\_\_\_\_

## WHISPER MULTIPLE LED DOWNLIGHT

### ORDER MATRIX

**WHISPER MULTIPLE HOUSING IC** (Example: WSM-AIC-2-10S1-SHB = Whisper Multiple IC, 2-head 10W, Standard Integral Driver, Standard Hanger Bars)

PRODUCT FAMILY	HEADS	POWER PER HEAD	INTEGRAL DRIVER OPTIONS	HANGER BAR
<b>WSM-AIC-</b> Whisper Multiple IC	<input type="checkbox"/> <b>2</b> 2 Head	<b>-10</b> 10W	<b>S1</b> (1) Whisper with Universal Dim Driver: 1%-100% 0-10V, *TRIAC, ELV, 120V/277V *TRIAC/ELV dimming only @ 120V	<b>-SHB</b> Standard <b>-C24</b> 24" C-Channel <b>-C48</b> 48" C-Channel
	<input type="checkbox"/> <b>3</b> 3 Head			
	<input type="checkbox"/> <b>4</b> 4 Head	<b>-7</b> 7W	<b>REMOTE DRIVER OPTIONS</b>	
			<b>SR1</b> (1) Whisper + (1) Universal Dim Driver: 1%-100% 0-10V, TRIAC, or ELV, 120V/277V *TRIAC/ELV dimming only @ 120V	
			<b>ER1</b> (1) Whisper + (1) EldoLED Dim Driver: 0.1%-100% 0-10V, 120V/277V	
			<b>LRE1</b> (1) Whisper + (1) Lutron Dim Driver: 1%-100% EcoSystem, 120V/277V	

- 2 & 3 Head selection only for 10W.
- 7W selection only for 4 Head option.
- 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.

Emergency Options only applicable for integral driver options.

EMERGENCY OPTIONS		
<b>EM-1000</b> (25W Remote Inverter)	<b>EM-1003-CA</b> (35W Remote Inverter) Title 20	<b>EM-1006</b> (25W Remote Inverter) Title 20
<b>EM-1002</b> (10W Remote Emergency Driver) Title 20	<b>EM-1004</b> (50W Remote Inverter)	

Project: \_\_\_\_\_

Type: \_\_\_\_\_

Note: \_\_\_\_\_

## WHISPER MULTIPLE LED DOWNLIGHT

### ORDER MATRIX

#### WHISPER MULTIPLE STANDARD TRIM

(Example: WSM-AIC-2-2790-RSTWT-STWT = Whisper Multiple AIC Trim, 2 head, 2700K 90CRI, Round Standard, White Trim, Standard Reflector White)

PRODUCT FAMILY	HEADS	CCT & CRI	APERTURE SHAPE	TRIM STYLE	TRIM COLOR
<b>WSM-AIC</b> Whisper Multiple AIC	<b>2</b> Head	<b>-2790</b> 2700K 90CRI	<b>-R</b> Round	<b>-ST</b> Standard	<b>TL</b> Trimless/Wood Ceiling
	<b>3</b> Head	<b>-3090</b> 3000K 90CRI		<b>-TL</b> Trimless	<b>WT</b> White
	<b>4</b> Head	<b>-3590</b> 3500K 90CRI		<b>-WD</b> Wood Ceiling	<b>BK</b> Black
		<b>-4090</b> 4000K 90CRI			
		<b>-WD98</b> Warm Dim 98CRI 1800K - 3000K			

REFLECTOR TYPE	REFLECTOR COLOR
<b>ST</b> Standard (Adjustable)	<b>WT</b> White
<b>AL</b> Adjustable Lens (Wet Location)	<b>BK</b> Black
	<b>CN</b> Champagne
	<b>SA</b> Satin Aluminum

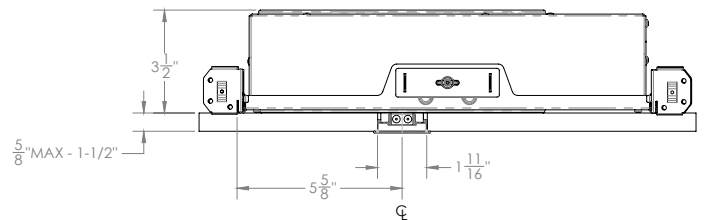
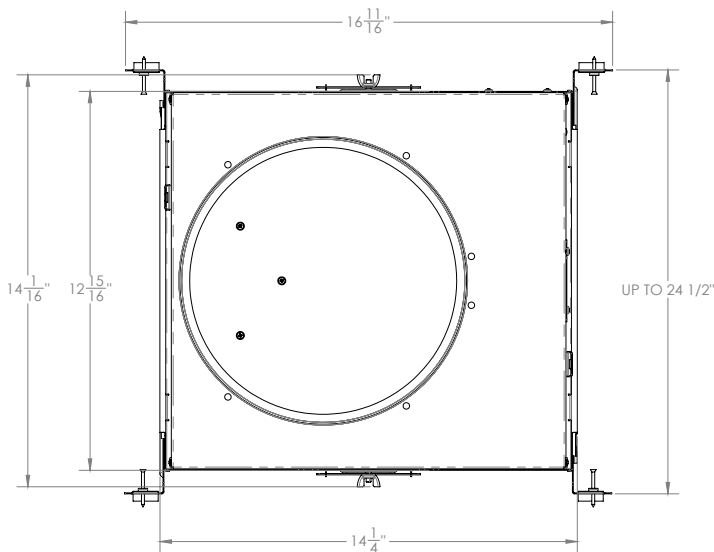
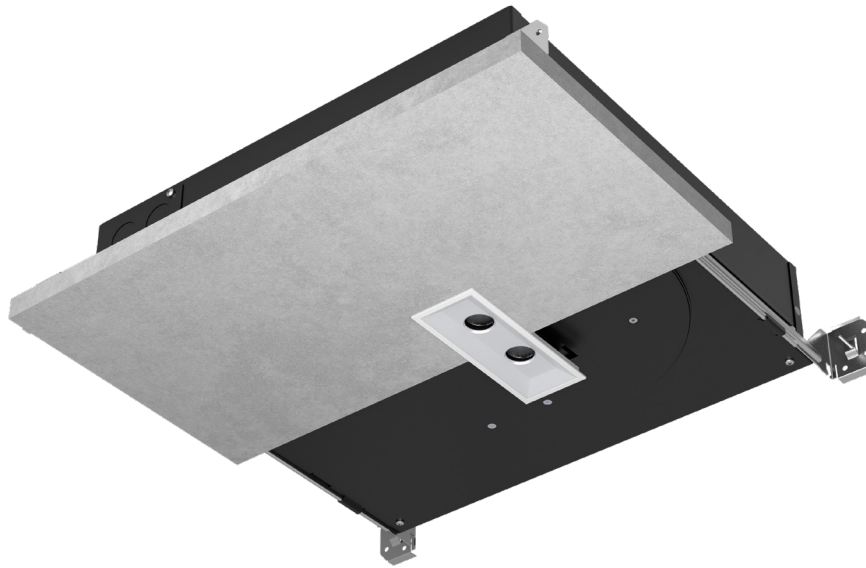
- All Modules have a 50° optic installed but has a 30° in the box.
- WD98 not Title 24 JA8 Compliant.
- For 2,3, and 4-head select R as their Apertures are round but with a Rectangular Trim Shape.
- ST is with a Flanged Trim

## WHISPER MULTIPLE LED DOWNLIGHT

### HOUSING AND LIGHT ENGINE LINE DRAWINGS

#### WSM-AIC-2

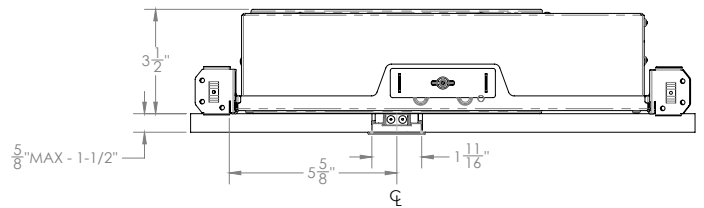
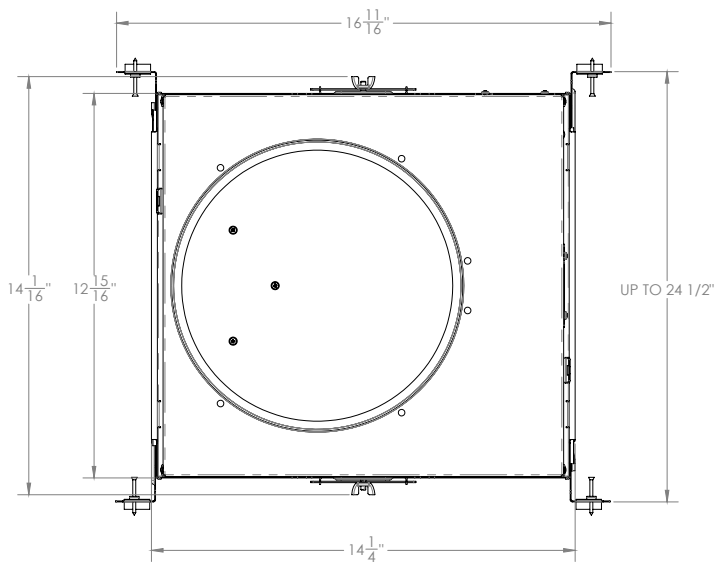
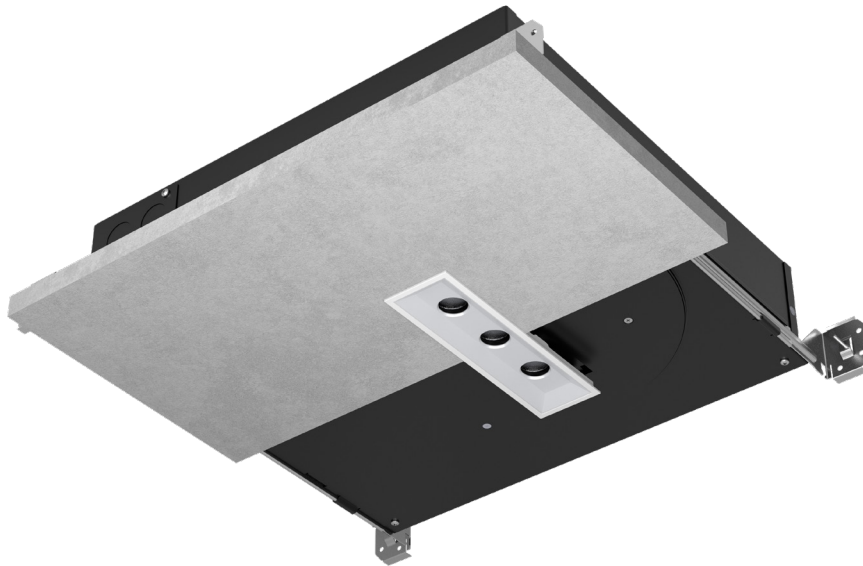
#### New Construction IC Housing (2 Head)



# WHISPER MULTIPLE LED DOWNLIGHT

## HOUSING AND LIGHT ENGINE LINE DRAWINGS

WSM-AIC-3  
New Construction IC Housing (3 Head)

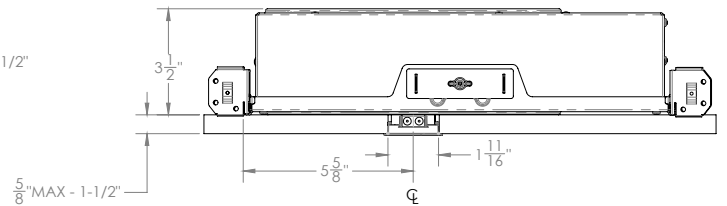
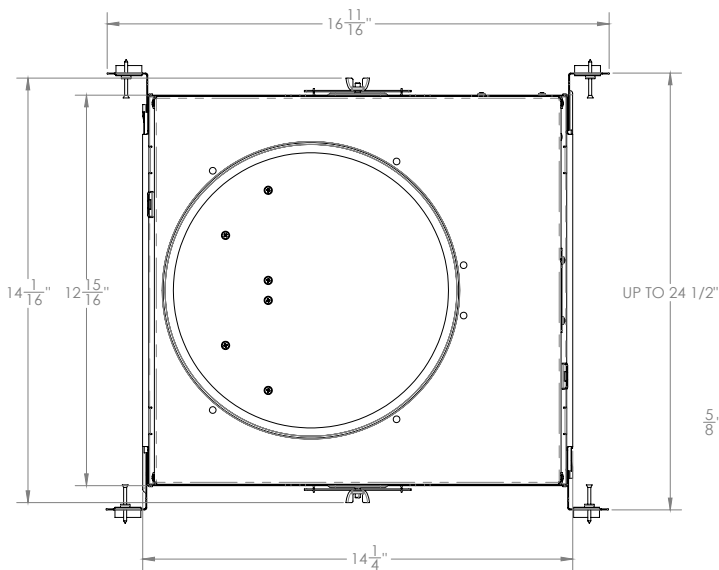
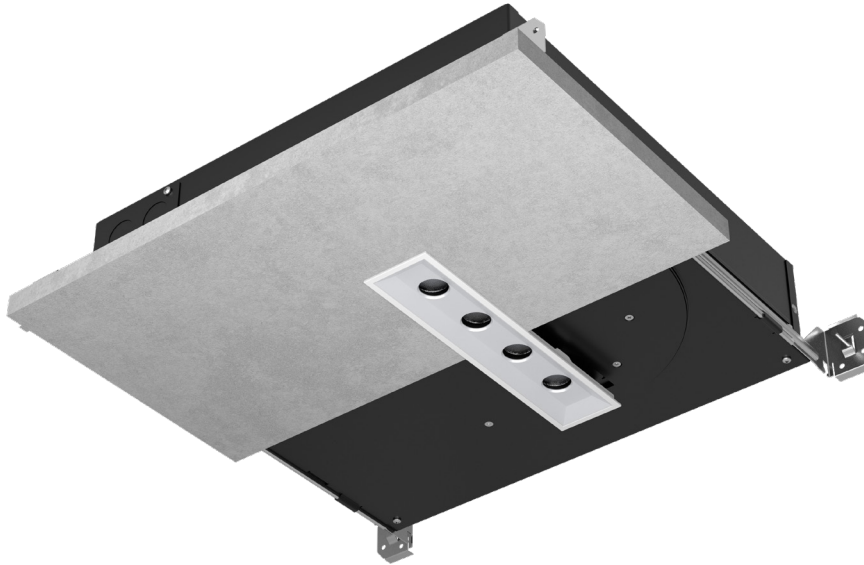


# WHISPER MULTIPLE LED DOWNLIGHT

## HOUSING AND LIGHT ENGINE LINE DRAWINGS

WSM-AIC-4

New Construction IC Housing (4 Head)



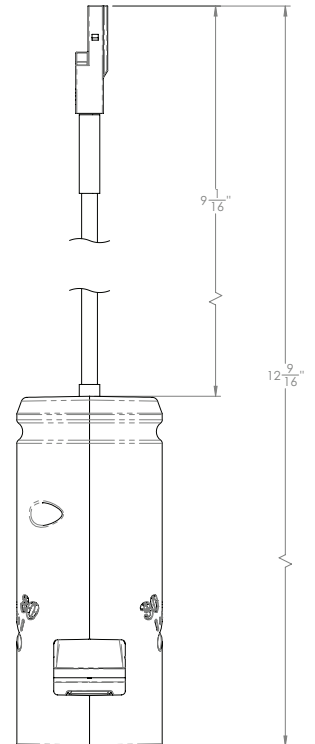
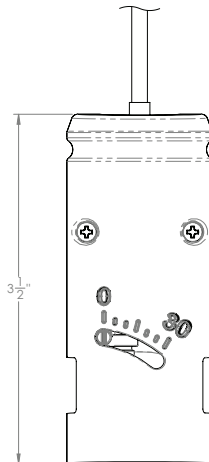
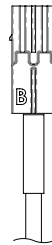
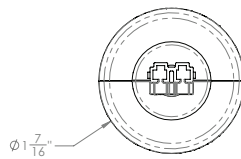
Project: \_\_\_\_\_

Type: \_\_\_\_\_

Note: \_\_\_\_\_

# WHISPER MULTIPLE LED DOWNLIGHT

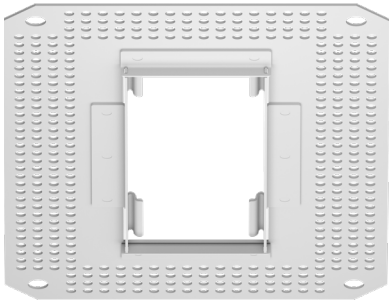
## WSM-AIC (LIGHT MODULE)



## WHISPER MULTIPLE LED DOWNLIGHT

### TRIM STYLES

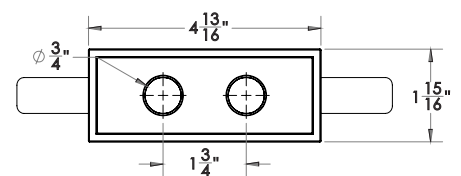
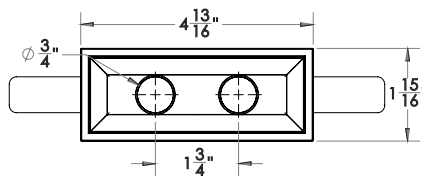
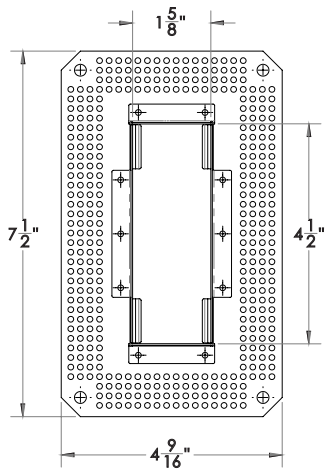
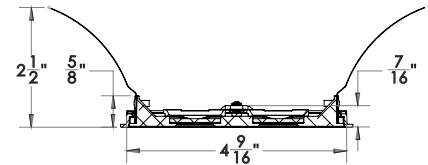
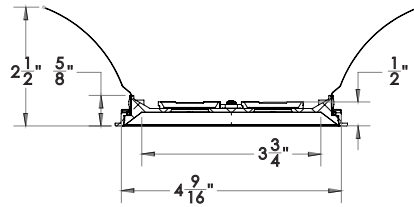
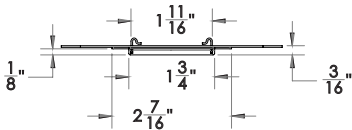
**2 TL**  
2 HEAD TRIMLESS



**2 ST**  
2 HEAD STANDARD



**2 AL**  
2 HEAD ADJUSTABLE

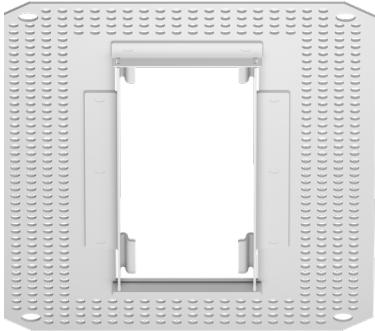


Project: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Note: \_\_\_\_\_

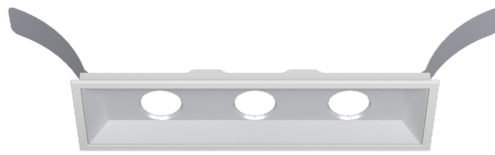
## WHISPER MULTIPLE LED DOWNLIGHT

### TRIM STYLES

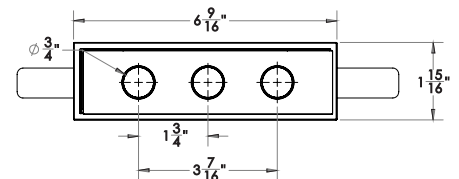
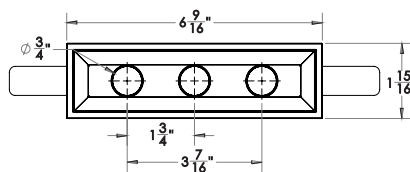
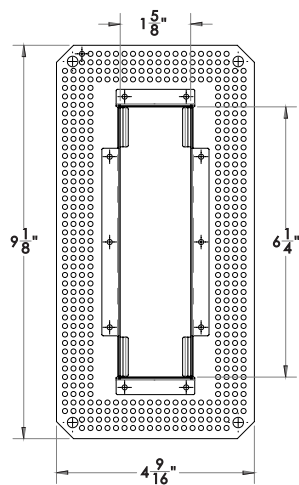
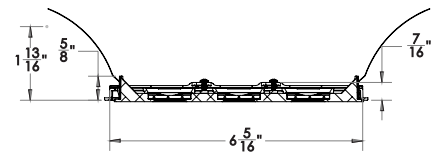
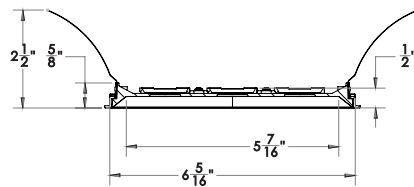
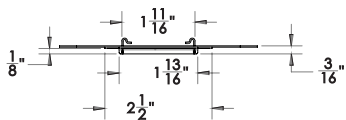
**3 TL**  
3 HEAD TRIMLESS



**3 ST**  
3 HEAD STANDARD



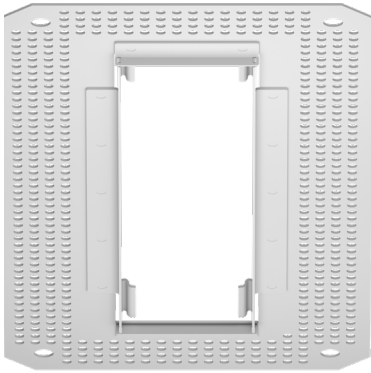
**3 AL**  
3 HEAD ADJUSTABLE



## WHISPER MULTIPLE LED DOWNLIGHT

### TRIM STYLES

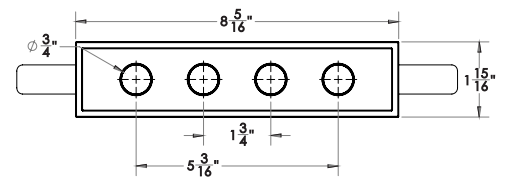
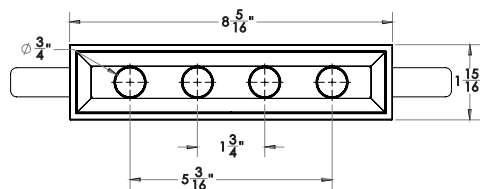
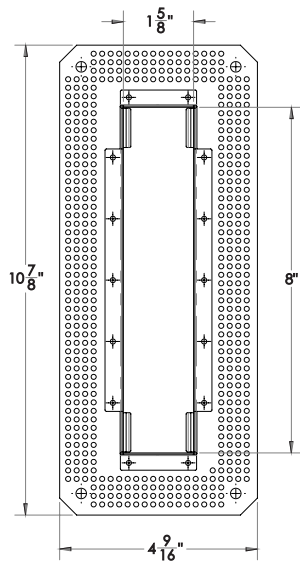
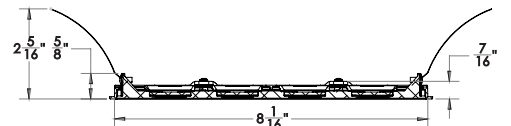
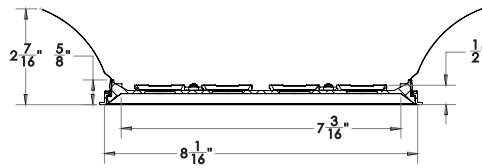
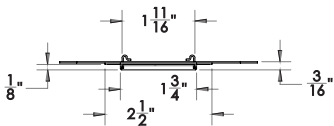
4 TL  
4 HEAD TRIMLESS



4 ST  
4 HEAD STANDARD



4 AL  
4 HEAD ADJUSTABLE



Project: \_\_\_\_\_

Type: \_\_\_\_\_

Note: \_\_\_\_\_

## WHISPER MULTIPLE LED DOWNLIGHT

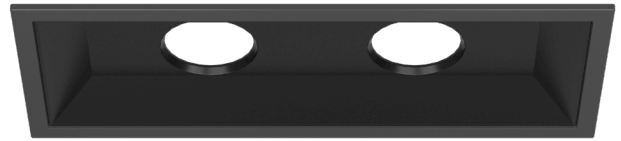
### TRIM FINISHES



**2-RA-STWT-STWT**

WT White Trim

WT White Reflector



**2-RA-STBK-STBK**

BK Black Trim

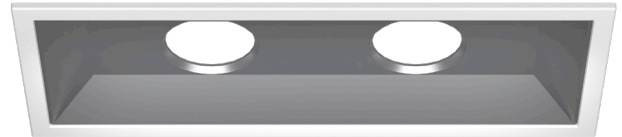
BK Black Reflector



**2-RA-STCN-STCN**

CN Champagne Trim

CN Champagne Reflector



**2-RA-STWT-STSA**

WT White Trim

SA Satin Aluminum



**2-RA-STWT-STBK**

WT White Trim

BK Black Reflector



**2-RA-STWT-STCN**

WT White Trim

CN Champagne Reflector

## WHISPER MULTIPLE LED DOWNLIGHT

### TRIM FINISHES



**3-RA-STWT-STWT**

WT White Trim

WT White Reflector



**3-RA-STBK-STBK**

BK Black Trim

BK Black Reflector



**3-RA-STCN-STCN**

CN Champagne Trim

CN Champagne Reflector



**3-RA-STWT-STSA**

WT White Trim

SA Satin Aluminum



**3-RA-STWT-STBK**

WT White Trim

BK Black Reflector



**3-RA-STWT-STCN**

WT White Trim

CN Champagne Reflector

Project: \_\_\_\_\_

Type: \_\_\_\_\_

Note: \_\_\_\_\_

## WHISPER MULTIPLE LED DOWNLIGHT

### TRIM FINISHES



**3-RA-STWT-STWT**

WT White Trim

WT White Reflector



**3-RA-STBK-STBK**

BK Black Trim

BK Black Reflector



**3-RA-STCN-STCN**

CN Champagne Trim

CN Champagne Reflector



**3-RA-STWT-STSA**

WT White Trim

SA Satin Aluminum



**3-RA-STWT-STBK**

WT White Trim

BK Black Reflector



**3-RA-STWT-STCN**

WT White Trim

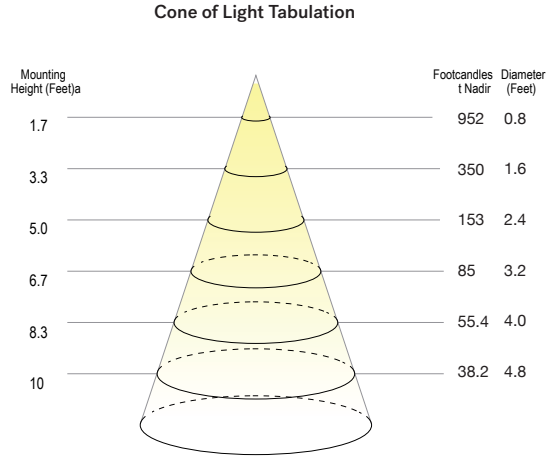
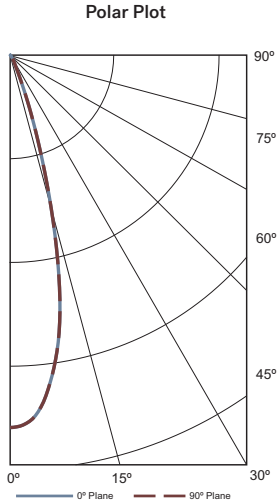
CN Champagne Reflector

Project: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Note: \_\_\_\_\_

## WHISPER MULTIPLE LED DOWNLIGHT

### PHOTOMETRICS

#### Whisper Downlight 2 Head (2700K, 90CRI, 30° Optic, 20W) ST Trim - ST Reflector



VOLTAGE	CURRENT	POWER
120 VAC	0.18A	21.02W

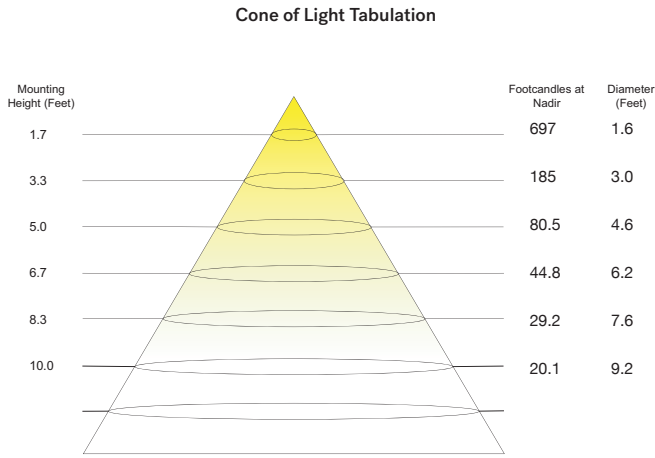
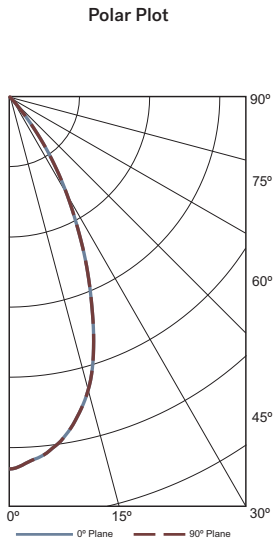
POWER FACTOR	FREQUENCY	CURRENT THD
0.97	60 Hz	16.41%

**Summary of Results**

<b>Spacing Criteria</b>	<b>Total Lumen Output:</b>	982.03 lm
	<b>Luminaire Efficacy:</b>	46.7 lpw
	<b>Maximum Candela:</b>	3816 cd

ZONE	LUMENS	% OF LUMINAIRE
0-40	971	98.9%
0-60	980.54	99.8%
0-90	982.03	100%

#### Whisper Downlight 2 Head (2700K, 90CRI, 50° Optic, 20W) ST Trim - ST Reflector



VOLTAGE	CURRENT	POWER
120 VAC	0.18A	21.11W

POWER FACTOR	FREQUENCY	CURRENT THD
0.97	60 Hz	16.22%

**Summary of Results**

<b>Spacing Criteria</b>	<b>Total Lumen Output:</b>	1419 lm
	<b>Luminaire Efficacy:</b>	67 lpw
	<b>Maximum Candela:</b>	2013 cd

ZONE	LUMENS	% OF LUMINAIRE
0-40	1332.92	93.9%
0-60	1413.73	99.6%
0-90	1419.01	100%

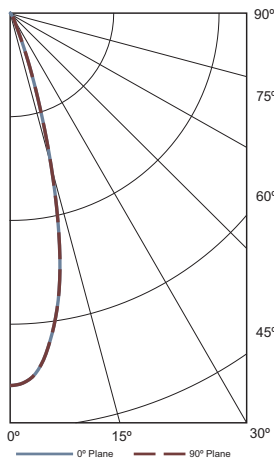
Project: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Note: \_\_\_\_\_

## WHISPER MULTIPLE LED DOWNLIGHT

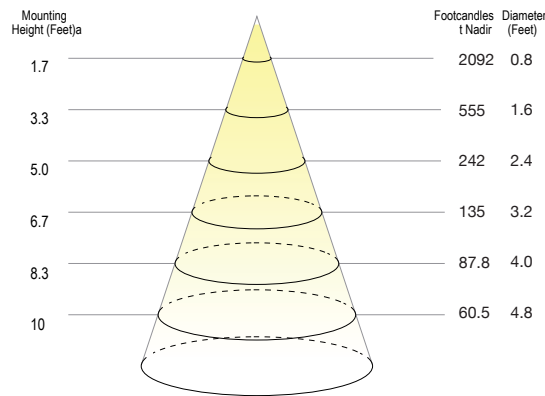
### PHOTOMETRICS

#### Whisper Downlight 3 Head (2700K, 90CRI, 30° Optic, 30W) ST Trim - ST Reflector

Polar Plot



Cone of Light Tabulation



VOLTAGE	CURRENT	POWER
120 VAC	0.27A	30.96W

POWER FACTOR	FREQUENCY	CURRENT THD
0.9559	60 Hz	15.95%

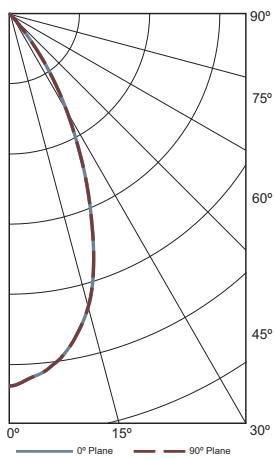
#### Summary of Results

Spacing Criteria	Total Lumen Output:	1453.39 lm
0-180: 0.46	Luminaire Efficacy:	47.0 lpw
90-270: 0.48	Maximum Candela:	6046 cd

ZONE	LUMENS	% OF LUMINAIRE
0-40	1437.37	98.9%
0-60	1450.15	99.8%
0-90	1453.39	100%

#### Whisper Downlight 3 Head (2700K, 90CRI, 50° Optic, 30W) ST Trim - ST Reflector

Polar Plot



Cone of Light Tabulation



VOLTAGE	CURRENT	POWER
120 VAC	0.27A	31.05W

POWER FACTOR	FREQUENCY	CURRENT THD
0.9578	60 Hz	16.0%

#### Summary of Results

Spacing Criteria	Total Lumen Output:	2015.32 lm
0-180: 0.82	Luminaire Efficacy:	65.0 lpw
90-270: 0.82	Maximum Candela:	2893 cd

ZONE	LUMENS	% OF LUMINAIRE
0-40	1933.18	95.9%
0-60	2008.63	99.7%
0-90	2015.32	100%

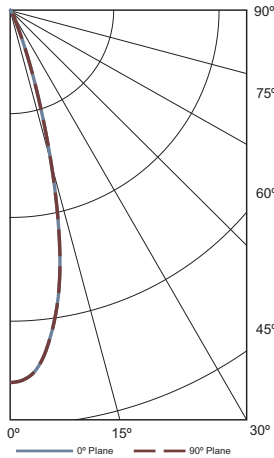
Project: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Note: \_\_\_\_\_

## WHISPER MULTIPLE LED DOWNLIGHT

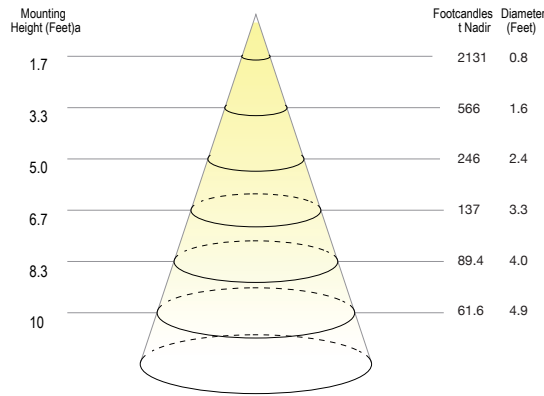
### PHOTOMETRICS

#### Whisper Downlight 4 Head (2700K, 90CRI, 30° Optic, 30W) ST Trim - ST Reflector

Polar Plot



Cone of Light Tabulation



VOLTAGE	CURRENT	POWER
120 VAC	0.26A	30.06W

POWER FACTOR	FREQUENCY	CURRENT THD
0.9525	60 Hz	16.76%

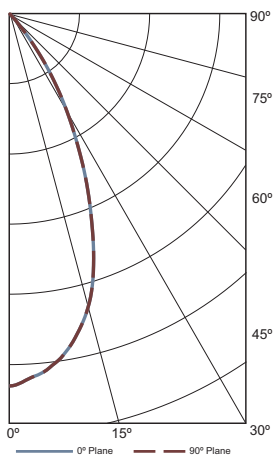
#### Summary of Results

Spacing Criteria	Total Lumen Output:	1504.83 lm
0-180: 0.46	Luminaire Efficacy:	50.0 lpw
90-270: 0.48	Maximum Candela:	6160 cd

ZONE	LUMENS	% OF LUMINAIRE
0-40	1484.08	98.6%
0-60	1499.41	99.6%
0-90	1504.83	100%

#### Whisper Downlight 4 Head (2700K, 90CRI, 50° Optic, 30W) ST Trim - ST Reflector

Polar Plot



Cone of Light Tabulation



VOLTAGE	CURRENT	POWER
120 VAC	0.26A	30.06W

POWER FACTOR	FREQUENCY	CURRENT THD
0.9529	60 Hz	16.58%

#### Summary of Results

Spacing Criteria	Total Lumen Output:	2168.69 lm
0-180: 0.82	Luminaire Efficacy:	72 lpw
90-270: 0.82	Maximum Candela:	3040 cd

ZONE	LUMENS	% OF LUMINAIRE
0-40	2060.88	95%
0-60	2158.59	99.5%
0-90	2168.69	100%

Project: \_\_\_\_\_

Type: \_\_\_\_\_

Note: \_\_\_\_\_

## WHISPER MULTIPLE LED DOWNLIGHT

### DIMMING GUIDE

#### S1

- 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

- 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 trailing-edge) 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		

### ER1 (ELDO LED)

- 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 - NTFV 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-OIMFLV8, GLXP-OIMFLV8, GLPAC-DIMFLV4-*, GLPAC-DIM- FLV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-AO8, 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.

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