

 EUREKA

**Quadrant**



# Toned down

With Quadrant's multiple sizes, colors and patterns, and the choice between lit or unlit, designers can fix and match to create arrangements.



Flowspace, Greensboro, GA, USA.

◀ Quadrant helps reduce ambient noise and absorb background chatter in rooms where the surface material of the floor, walls, and ceiling reflect sound.

Small clusters produce soft ambient light while creating an obstacle for the sound waves trapped within.



Alphawave, Ottawa, ON, Canada, Photo credit: JVL Photography Inc.





Quadrant's rounded, interlocking felted fins absorb sound while providing a vibrant look. Mix colors, sizes and patterns and suspend luminaires at varying heights to fill large spaces.



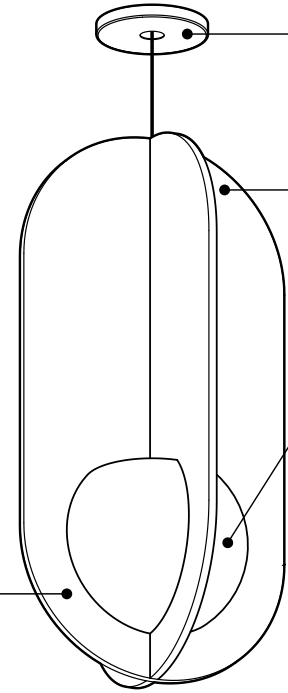
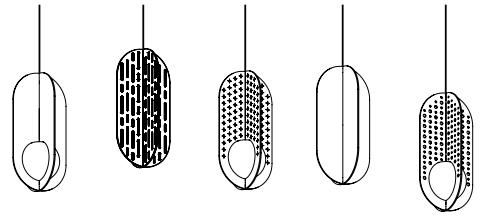


Quadrant uses the same light source as the Mika family of products. The spherical diffuser is in the same 3 sizes and light outputs. Together, they create a cohesive look throughout a space.





# QUADRANT - 4232 & 4232U



**SEAMLESS INSTALLATION**  
 Quadrant lit is suspended on a clear power cable and is available with a standard 1,35in or a slim 0,5in white magnetic canopy. Quadrant Unlit is hung on an aircraft cable without canopy.

**SOUND ABSORBING SHADE**  
 The shade is composed of two interlocked sound absorbing panels that increases acoustic comfort.

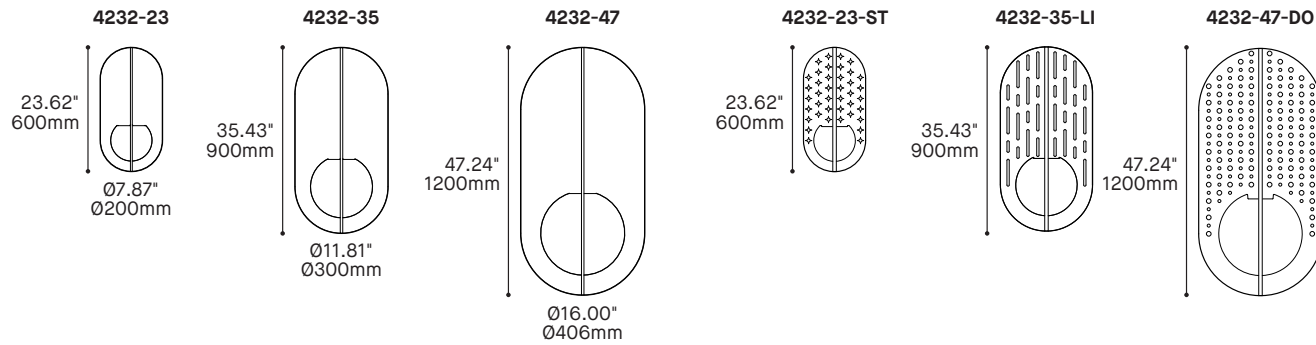
**BIG FAMILY**  
 Quadrant is available in 3 sizes, allowing a lot of configurations. Also available as an unlighted pendant (Quadrant Unlit 4232U) to reinforce the acoustic performance of a room.

**CLEANING**  
 A proper and regular cleaning will help extend the lifespan of acoustic products. Remove dust with a vacuum cleaner and light stains with a damp cloth. For greasy and deep stains, a professional dry clean is recommended. Do not use any abrasive, soap, or chemical cleaner.

**NOISE REDUCTION FIXTURES**  
 Lighted versions (Quadrant 4232) or the versions without light source (Quadrant Unlit 4232U) can be used alone or combined to create impressive layouts, while multiplying the sound absorption.

**ECOLOGICAL**  
 Custom CNC cut polyester felt panels made from recycled bottles (PET). Panels are also recyclable.

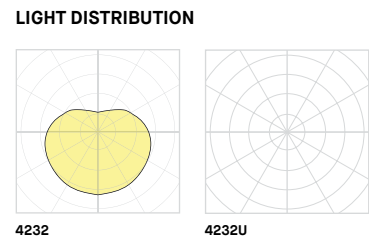
**COLORS**  
 Available in 14 standard colors, 16 premium colors, 3 choice of pattern cutout or plain. For all options, refer to the Specification Sheet.



PRODUCT SPECIFICATION	4232-23	4232-35	4232-47	4232U-23	4232U-35	4232U-47
<b>PERFORMANCE</b>						
SYSTEM WATTAGE	9.8 W	9.8 W	14.1 W	N/A	N/A	N/A
DELIVERED LUMENS (4000K)*	916 LM	970 LM	1366 LM			
<small>*EXPECT A 5% DECREASE IN PERFORMANCE FOR CHARCOAL GRAY VERSION.</small>						
<b>OTHER INFORMATIONS</b>						
WEIGHT	3.5LBS / 1.6KG	5.1LBS / 2.3KG	8.6LBS / 3.9KG	1.3LBS / 0.6KG	2.8LBS / 1.3KG	5.1LBS / 2.3KG
L70 (LUMEN MAINTENANCE)	> 55 000 HRS	> 55 000 HRS	> 55 000 HRS	N/A	N/A	N/A
FELT	HIGH DENSITY 9MM POLYESTER FELT					
ACOUSTIC	ACOUSTIC MATERIAL RATED AT 0.75 N					
FIRE RATING	ASTM E84-13 (FELT MATERIAL ONLY)					
<b>WELL &amp; LEED STANDARD REQUIREMENTS</b>						
MAX. LUMINANCE 45°-90° OF NADIR	548 CD/M <sup>2</sup>	235 CD/M <sup>2</sup>	191 CD/M <sup>2</sup>	N/A	N/A	N/A
LIGHT QUALITY	R9 > 50 (90 CRI OPTION)					
FLICKERING TOLERANCE	LOW FLICKER, COMPLIANT TO CALIFORNIA TITLE 24					

**EFFICACY MULTIPLIERS**

CRI	CCT	FACTOR
80+	4000K	1.00
80+	3500K	0.99
80+	3000K	0.97
80+	2700K	0.94
90+	4000K	0.89
90+	3500K	0.86
90+	3000K	0.84
90+	2700K	0.80



Visit our website for warranty terms and conditions.



Quadrant is offered with three captivating, perforated motifs.



## TECHNICAL DATA



# Acoustic Material Color Options for Quadrant

## Standard colors



## Premium colors



— Premium colors carry extended lead times. Additional fees may apply for expedited lead times. Please consult factory.  
 — Due to the dye process, colors may vary slightly from batch to batch.







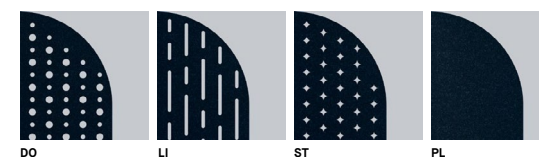
St-Denis Thompson, Montreal, QC, Canada Photo credit: Yanick Lesperance

## QUADRANT 4232

PROJECT	PROJET
SPEC TYPE	
NOTES	



### CUTOUT PATTERN MOTIF DÉCOUPÉ

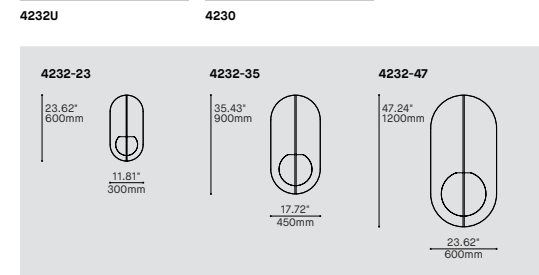


### FELT FINISH FINI FEUTRE



ADDITIONAL PREMIUM COLORS AVAILABLE – SEE ACOUSTIC MATERIAL COLOR OPTIONS PAGE

### FAMILY FAMILLE



[QUICKSHIP, CLICK HERE / CLIQUEZ ICI](#)

ORDERING SPECIFICATION	SPÉCIFICATION DE COMMANDE	CODE			
<b>MODEL</b> MODÈLE					
4232-23	SMALL QUADRANT				
4232-35	MEDIUM QUADRANT				
4232-47	LARGE QUADRANT				
<b>LIGHT SOURCE</b> SOURCE LUMINEUSE		<b>LED</b>			
LED	REGULAR OUTPUT				
<b>COLOR TEMPERATURE</b> TEMPÉRATURE DE COULEUR (M)					
27*	2700K				
30	3000K				
35	3500K				
40	4000K				
*LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE					
<b>COLOR RENDERING INDEX (CRI)</b> INDICE DE RENDU DE COULEUR (IRC)					
80	80+ CRI				
90*	90+ CRI				
*LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE					
<b>VOLTAGE</b> VOLTAJE					
120V	120 VOLT				
277V	277 VOLT				
<b>CONTROL OPTION</b> OPTION DE CONTRÔLE					
DV	0-10V DIMMING (120V-277V)				
DP	PHASE DIMMING (120V ONLY)				
NLTAIR2*	NLIGHT AIR CONTROL GEN 2				
NLIGHT*	NLIGHT WIRED CONTROL				
*REQUIRES R03 CANOPY, REFER TO NLIGHT GUIDE AND INSTALLATION SHEET FOR ALL REQUIREMENTS.					
<b>EMERGENCY BATTERY</b> BATTERIE D'URGENCE					
EM DRIVER BOX INCLUDED, INSTALLED REMOTELY, SEE EM GUIDE FOR DETAILS.					
EMB <sup>10</sup>	EMERGENCY BATTERY FOR REMOTE BOX				
<sup>10</sup> 3981E ACCESSORY IS REQUIRED FOR THIS OPTION					
<b>CABLE</b> CÂBLE		<b>C</b>			
C	CLEAR CABLE, FIELD ADJUSTABLE				
<b>CABLE LENGTH</b> LONGUEUR DE CÂBLE					
60	60" CABLE (STD LENGTH)				
**	CUSTOM CABLE LENGTH (PLEASE SPECIFY)				
FOR OVERALL LENGTH, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE					
<b>MOUNTING</b> MONTAGE					
ROUND CANOPY / PAVILLON ROND					
RC1	FOR DIMMING LED: 1.75" CANOPY (2471H)				
RC2*	FOR DIMMING LED: 0.5" CANOPY (2471C)				
RC3	NLIGHT SCREWLESS 1.75" CANOPY (2474H)				
*3983 ACCESSORY PROVIDED					
<b>CANOPY FINISH</b> FINI PAVILLON		<b>WHE</b>			
WHE	WHITE FINE TEXTURE				
<b>FELT FINISH</b> FINI FEUTRE					
ABF	AZURE BLUE FELT	BYF	BANANA YELLOW FELT	REF	RED FELT
AWF	ARCTIC WHITE FELT	CHF	CHARCOAL FELT	SGF	SILVER GRAY FELT
BBF	BASIC BLACK FELT	NBF	NAVY BLUE FELT	TGF	TITANIUM GRAY FELT
BOF	BLOOD ORANGE FELT	OBF	OCEAN BLUE FELT	ZFF	ZINFANDEL FELT
BTF	BATTLESHIP GRAY FELT	PGF	PEAR GREEN FELT		
PREMIUM* PLEASE SPECIFY PREMIUM COLOR CODE – SEE ACOUSTIC MATERIAL COLOR OPTIONS PAGE					
*LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE					
<b>CUTOUT PATTERN</b> MOTIF DÉCOUPÉ					
DO	DOTS				
LI	LINES				
ST	STARS				
PL	PLAIN				
<b>DIFFUSER FINISH</b> FINI DIFFUSEUR					<b>WH</b>
WH	WHITE				
<b>ACCESSORY</b> ACCESSOIRE					
3983*	DEEP JUNCTION BOX (PROVIDED FOR SCREWLESS 0.5" CANOPY 2471C)				
*JUNCTION BOX IS AVAILABLE FOR ADVANCE SHIPPING					
<b>EMERGENCY BATTERY ACCESSORY</b> ACCESSOIRE BATTERIE D'URGENCE					
3981EA	ELECTRICAL BOX FOR EMB EMERGENCY BATTERY				
<b>PRODUCT CHARACTERISTICS</b> CARACTÉRISTIQUES DU PRODUIT					



SPECIFICATION



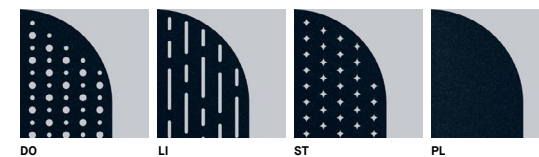


## QUADRANT – UNLIT 4232U

PROJECT	PROJET
SPEC TYPE	
NOTES	



### CUTOUT PATTERN MOTIF DÉCOUPÉ

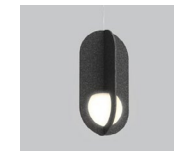


### FELT FINISH FINI FEUTRE

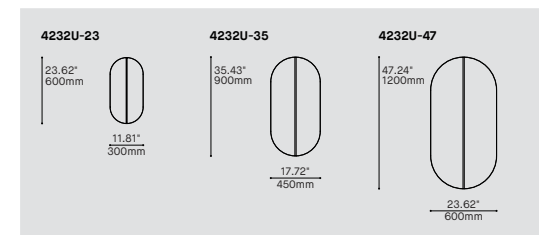


ADDITIONAL PREMIUM COLORS AVAILABLE – SEE ACOUSTIC MATERIAL COLOR OPTIONS PAGE

### FAMILY FAMILLE



4232



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### ORDERING SPECIFICATION SPÉCIFICATION DE COMMANDE

MODEL	MODÈLE	CODE
4232U-23	SMALL QUADRANT UNLIT	
4232U-35	MEDIUM QUADRANT UNLIT	
4232U-47	LARGE QUADRANT UNLIT	
FELT FINISH	FINI FEUTRE	
ABF	AZURE BLUE FELT	BYF BANANA YELLOW FELT
AWF	ARCTIC WHITE FELT	CHF CHARCOAL FELT
BBF	BASIC BLACK FELT	NBF NAVY BLUE FELT
BOF	BLOOD ORANGE FELT	OBF OCEAN BLUE FELT
BTF	BATTLESHIP GRAY FELT	PGF PEAR GREEN FELT
REF	RED FELT	TGF TITANIUM GRAY FELT
SGF	SILVER GRAY FELT	ZFF ZINFANDEL FELT
PREMIUM* PLEASE SPECIFY PREMIUM COLOR CODE – SEE ACOUSTIC MATERIAL COLOR OPTIONS PAGE		
*LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE		
CUTOUT PATTERN	MOTIF DÉCOUPÉ	
DO	DOTS	
LI	LINES	
ST	STARS	
PL	PLAIN	
CABLE	CÂBLE	AC
AC	AIRCRAFT MOUNTING, FIELD ADJUSTABLE	
CABLE LENGTH	LONGUEUR DE CÂBLE	
60	60" AIRCRAFT CABLE (STD LENGTH)	
**	CUSTOM AIRCRAFT CABLE LENGTH (PLEASE SPECIFY)	
FOR OVERALL LENGTH, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE		

### PRODUCT CHARACTERISTICS CARACTÉRISTIQUES DU PRODUIT



- DESIGN:** Quadrant pendant highlights our discreet Mika 4230 diffuser by redefining its volume and scale. Lighted versions (4232) or the versions without light source (4232U) can be used alone or combined to create impressive layouts, while multiplying the sound absorption. Available in 3 sizes and with a variety of decorative cutout pattern made by a high precision cnc cutter.
- INSTALLATION:** Installs without tool onto our pendant Mika luminaires with an ingenious crisscross assembly system. Quadrant is suspended on a clear power cable with standard or slim magnetic canopy available in white fine textured finish, with no visible fastener. Quadrant unlit is suspended on an aircraft cable without canopy.
- SHADE:** The shade is composed of two rigid interlocked sound absorbing panels that increases acoustic comfort. They are made from synthetic felt composed of recycled and recyclable polyethylene (PET) fibers with low VOC, formaldehyde-free, non-irritant and odorless. c-CSA-us
- CERTIFIED:**
- CONCEPTION:** La suspension Quadrant met en valeur le discret diffuseur du Mika 4230 en redéfinissant son volume et son échelle. Les versions éclairées (4232) ou sans source lumineuse (4232U) peuvent s'utiliser seules ou être disposées de façon à créer d'impressionnant agencement, multipliant ainsi l'absorption du bruit ambiant. Disponible en 3 grandeurs et avec une variété de motifs décoratifs découpé par une machine CNC de haute précision.
- INSTALLATION:** S'installe sans outil sur les luminaires Mika grâce à un ingénieux système d'assemblage entrecroisé. Quadrant est suspendu sur câble d'alimentation clair, sans quincaillerie visible, monté sur un pavillon magnétique standard ou mince. Le Quadrant non-éclairé est suspendu par câble d'acier sans pavillon.
- ABAT-JOUR:** L'abat-jour du luminaire est composé de deux rigide panneaux insonorisant entrecroisés qui augmentent le confort acoustique. Ils sont fabriqués de feutre synthétique à base de fibres de polyéthylène (PET) recyclées et recyclables avec bas COV, sans formaldéhyde, non irritant et inodore. c-CSA-us
- CERTIFIÉ:**



### SPECIFICATION

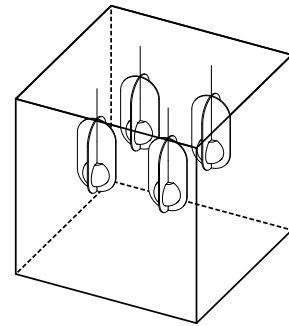


## Acoustic test results

The acoustic testing of our fixtures enables us to get data such as the average Sabins per object and the sound absorbing coefficient (Sabins/ft<sup>2</sup>). One Sabins is the equivalent of 1ft<sup>2</sup> of perfect sound absorption. For the QUADRANT, we tested two size of the fixture; the 35" and the 47". These were tested on a square spacing grid of 45" and placed 36" from the test surface (ceiling).

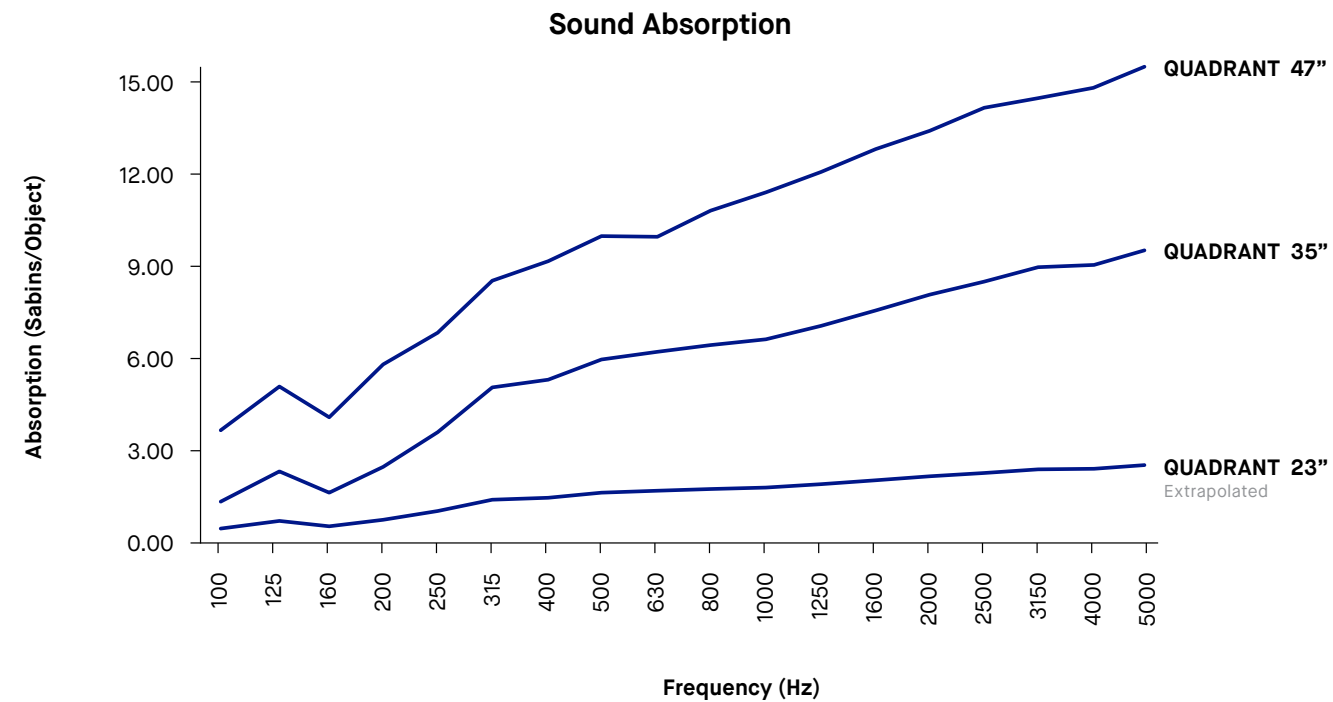
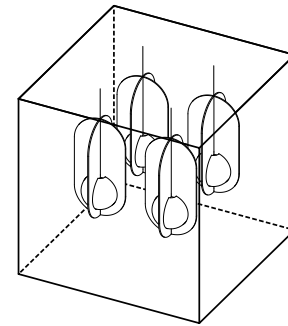
### QUADRANT 35" test

250Hz - 3.83 Sabins  
 500Hz - 6.08 Sabins  
 1000Hz - 6.68 Sabins  
 2000Hz - 8.20 Sabins  
 Average per fixture:  
**6.20 Sabins**



### QUADRANT 47" test

250Hz - 7.03 Sabins  
 500Hz - 10.05 Sabins  
 1000Hz - 11.40 Sabins  
 2000Hz - 13.41 Sabins  
 Average per fixture:  
**10.47 Sabins**



## Reverberation time

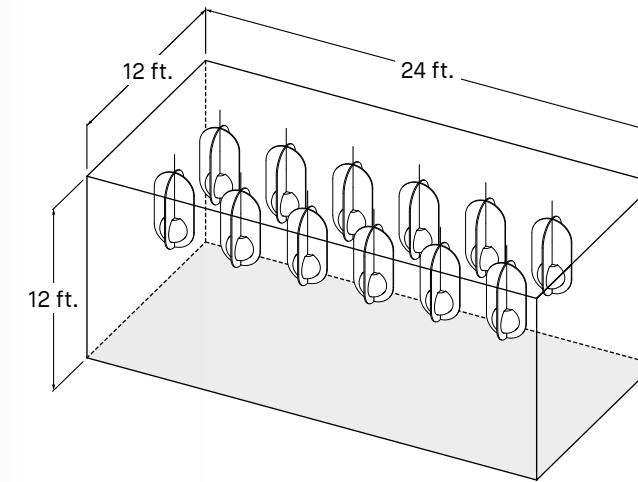
Based on the test data, we are able to calculate the reverberation time of fixture layouts in a closed room and determine the extra amount (ft<sup>2</sup>) of sound absorbing material that would be required for a comfortable level. Reverberation time is the calculation of the time it takes for sound to fade by 60 dB in a closed space in seconds. As a reference, the WELL standard recommends a reverberation time of 0.5 seconds for an open office applications and 0.6 seconds for a conference room. Here are two acoustic scenarios using the QUADRANT fixtures.

### Scenario 1

12x pendant QUADRANT 35" spaced on a 2 by 6 grid hanging 12" from the ceiling.

**Reverberation time**  
 Without QUADRANT : 1.20 seconds  
 With QUADRANT : **0.78 seconds**

Additional 1.00 NRC material needed to reach 0.50s : **203ft<sup>2</sup>**

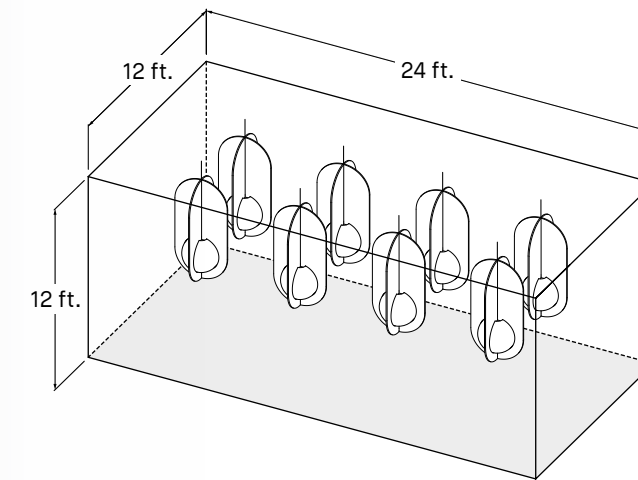


### Scenario 2

8x pendant QUADRANT 47" spaced on a 2 by 3 grid hanging 12" from the ceiling.

**Reverberation time**  
 Without QUADRANT : 1.20 seconds  
 With QUADRANT : **0.75 seconds**

Additional 1.00 NRC material needed to reach 0.50s : **191ft<sup>2</sup>**



■ Carpet on concrete floor   
 □ 1/2" sheetrock walls and ceiling





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AcuityBrands.