

ACOUSTIC

SERIES



DATE

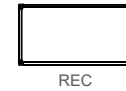
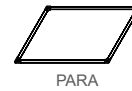
PROJECT

COMMENTS

CERTIFICATIONS



AVAILABLE GEO SHAPES



PARA

REC

HEX

TRI

SQR

FEATURES

GEO PLANE SUSPENDED

INDIRECT / DIRECT WITH ACOUSTIC

AN EXTENSION OF OUR ACOUSTIC & GEO SERIES

The GEO Plane series is an architectural fusion of light and sound. Combined with GEO, PLANE provides specifiers with a creative lighting option to add depth and shape to a space while incorporating high acoustical performance and top-line aesthetics. Pair with unlit PLANE to provide substantial sound dampening for a wide variety of commercial, civic, and educational spaces.

SOUND DAMPENING RATING

Sound Absorption: Average NRC 1.4 (Subject to mounting conditions)

PERFORMANCE

Up to 152 LPW at 90 CRI.

VERSATILITY

Lumen intensities range from 250-1000 lm/ft in 3000K, 3500K & 4000K CCT provides specifiers with accurate and powerful levels of illumination and color within each space. Supplied with remote power unit with easy to access wiring compartments.

OPTICS

A seamless and elegant roll in lens for the direct illumination provides uniform light distribution, controls glare, and eliminates light leaks.

SAMPLE PART NUMBER: GEOP-ID-PARA13-HU-HD-30-UNV-T1-WH-03-C90

ORDERING

SERIES	PATTERN			UPPER OUTPUT		DIRECT OUTPUT		CCT	VOLTAGE	MOUNTING
GEOP-ID										
PARA13	1' x 3' PARALLELOGRAM	REC14	1' x 4' RECTANGLE	TRI-2	2' TRIANGLE	HU	1000 LM/FT	HD	1000 LM/FT	30 3000K UNV 120-277V T1 1" Grid
PARA14	1' x 4' PARALLELOGRAM	REC16	1' x 6' RECTANGLE	TRI-3	3' TRIANGLE	MU	750 LM/FT	MD	750 LM/FT	35 3500K 347 ² 347V T9 9/16" Grid
PARA16	1' x 6' PARALLELOGRAM	REC23	2' x 3' RECTANGLE	TRI4	4' TRIANGLE	LU	500 LM/FT	LD	500 LM/FT	40 4000K SC Screw Slot
PARA23	2' x 3' PARALLELOGRAM	REC24	2' x 4' RECTANGLE	SQR2	2' x 2' SQUARE	VLU ¹	250 LM/FT	VLD ¹	250 LM/FT	HC Hard Ceiling
PARA24	2' x 4' PARALLELOGRAM	REC26	2' x 6' RECTANGLE	SQR3	3' x 3' SQUARE	CU	Custom	CD	Custom	JB Junction Box
PARA26	2' x 6' PARALLELOGRAM	HEX2	2' Diameter HEXAGON							
REC13	1' x 3' RECTANGLE	HEX4	4' Diameter HEXAGON							

FIXTURE COLOR

ACOUSTIC BAFFLE COLOR

Colors							Textures			
WH White	03 Marble	12 Avocado	18 Granite	33 Slate	92 Denim	192 Ocean	50 Dark Walnut	61 FRESH Plywood	65 Vista Walnut	
BLK Black	04 Graphite	13 Wine	21 Cream	39 Earth	93 Sage		52 Ash	62 ITALIAN Walnut	66 WEATHERED Plywood	
S Silver	07 Sand	14 Biscuit	22 Khaki	40 Coffee	157 Midnight		53 Honey	63 MAIN STREET Elm		
GR Charcoal Gray	09 Onyx	15 Evergreen	24 Snow	43 Ivory	191 Stone		54 Plywood	64 Planche Oak		

OPTIONS

CRI	SUSPENSION ³		EMERGENCY ⁴
C90			
C90 90 CRI	BLANK = 48" CABLE	CB144 144" Cables	EM Emergency Battery CEC LISTED
	CB96 96" Cables	BC Black Canopy & Cord	EC Emergency Circuit

ORDERING & OPTION NOTES

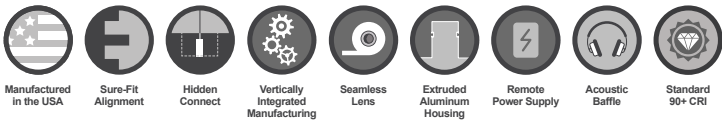
1 VLU and VLD not available on 2' length

2 EM not available with 347V

3 For cable lengths longer than 144". Consult factory.

4 Contact factory for Emergency Battery (EM) and Circuit (EC) options with patterns. Factory drawings approval required.

GEO PLANE SUSPENDED
INDIRECT / DIRECT WITH ACOUSTIC



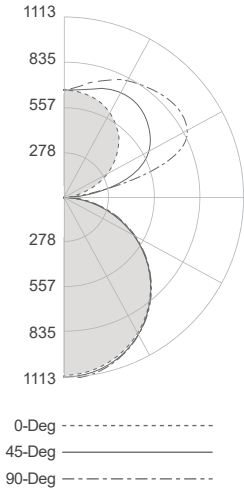
PHOTOMETRICS & ENERGY CHARTS

GEO-ID-XX-MU-MD-35-UNV-XX-C90

Distribution: Indirect/Direct
Total Lumens: 5877
Ratio: 50% Up & 50% Down
Wattage: 44.1
Efficacy: 133 LM/W
Fixture Length: Four Feet
UGR: 28.9
4H X 8H Cross wise, Reflectance - Ceiling: 0.7, Wall: 0.5, Floor: 0.2

Zonal Lumen Summary

Table with 3 columns: Zone, Lumens, % Fixt. Rows show lumen distribution across various zones from 0-30 to 0-180 degrees.



Indirect (Batwing) / Direct (Lambertian) Light at 90 CRI

Table for HU-HD, HU-MD, HU-LD, HU-VLD, HU-SLD showing Watts/ft, Lumens/ft, and LPW.

Table for MU-HD, MU-MD, MU-LD, MU-VLD, MU-SLD showing Watts/ft, Lumens/ft, and LPW.

Table for LU-HD, LU-MD, LU-LD, LU-VLD, LU-SLD showing Watts/ft, Lumens/ft, and LPW.

Table for VLU-HD, VLU-MD, VLU-LD, VLU-VLD, VLU-SLD showing Watts/ft, Lumens/ft, and LPW.

Table for SLU-HD, SLU-MD, SLU-LD, SLU-VLD, SLU-SLD showing Watts/ft, Lumens/ft, and LPW.

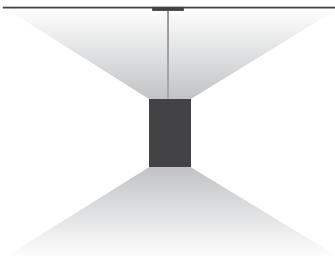
Lumen Adjustment Calculations

Table with 2 columns: LUMEN MULTIPLIERS, showing values for 3000K, 3500K, and 4000K.

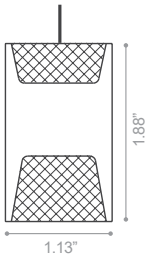
Example: HU-MD Output, 3000K at 90CRI
Total Light Output: 6900 x 0.995 = 6866 lm
Total Light Output Per Foot: 1725 x 0.995 = 1716 lm/ft
Efficacy = 1716 / 12.6 = 136.2 lm/W

DISTRIBUTION & CROSS SECTIONS

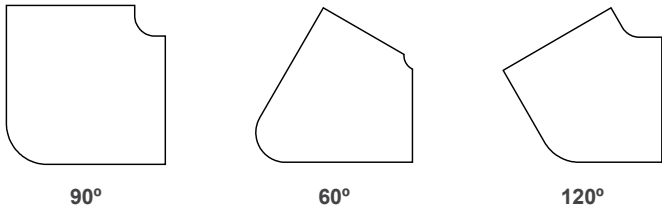
DISTRIBUTION: INDIRECT/DIRECT



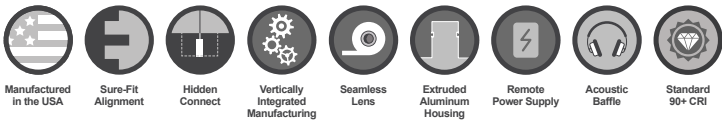
CROSS-SECTION



CORNER JOINT

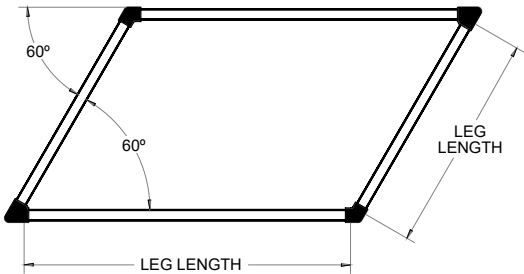


GEO PLANE SUSPENDED
INDIRECT / DIRECT WITH ACOUSTIC



STANDARD PRODUCT INFORMATION

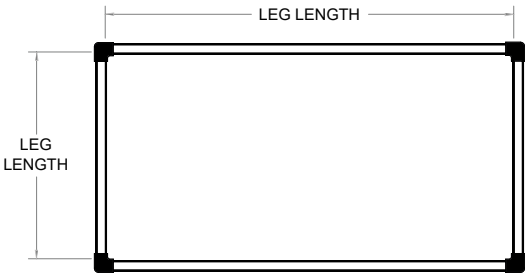
PARA
(2) 60° and (2) 120° Corners



Product Dimensions

ORDERING	LEG LENGTH
PARA-13	1' & 3'
PARA-14	1' & 4'
PARA-16	1' & 6'
PARA-23	2' & 3'
PARA-24	2' & 4'
PARA-26	2' & 6'

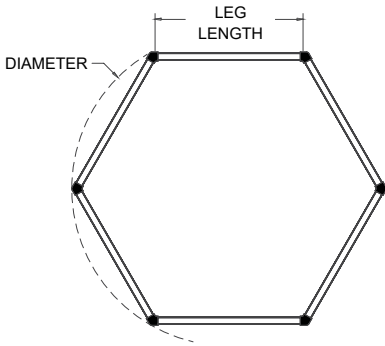
REC
(4) 90° Corners



Product Dimensions

ORDERING	LEG LENGTH
REC-13	1' & 3'
REC-14	1' & 4'
REC-16	1' & 6'
REC-23	2' & 3'
REC-24	2' & 4'
REC-26	2' & 6'

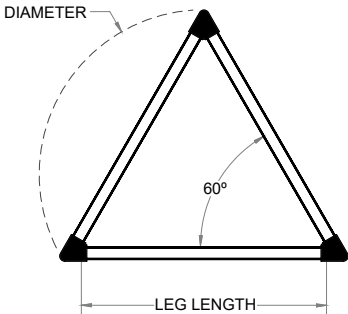
HEX
(6) 120° Corners



Product Dimensions

ORDERING	DIAMETER	LEG LENGTH
HEX-2	2'	1'
HEX-4	4'	2'

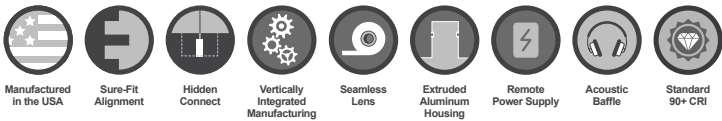
TRI
(3) 60° Corners



Product Dimensions

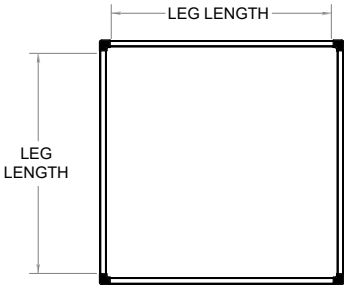
ORDERING	DIAMETER	LEG LENGTH
TRI-2	2' 9"	2'
TRI-3	4'	3'
TRI-4	5' 1"	4'

GEO PLANE SUSPENDED
INDIRECT / DIRECT WITH ACOUSTIC



STANDARD PRODUCT INFORMATION

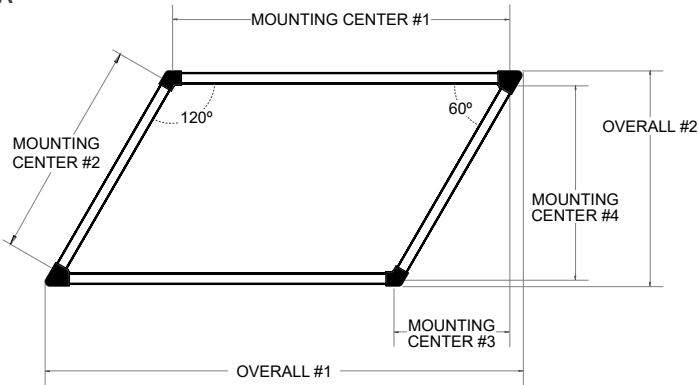
SQR
(4) 90° Corners



Product Dimensions

ORDERING	LEG LENGTH
SQR-2	2'
SQR-3	3'

PARA

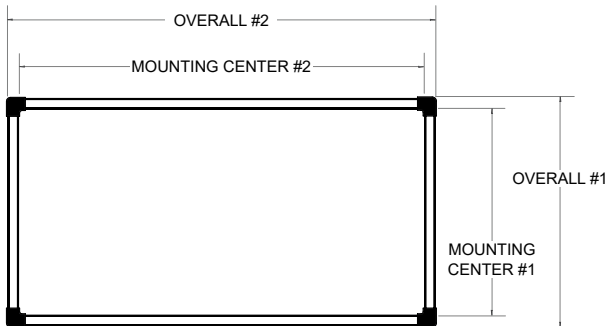


DIMENSIONS

SIZE/DISTRIBUTION		PARA-13 DIRECT & INDIRECT / DIRECT	PARA-14 DIRECT & INDIRECT / DIRECT	PARA-16 DIRECT & INDIRECT / DIRECT	PARA-23 DIRECT & INDIRECT / DIRECT
MOUNTING CENTER	#1	36.9	48.9	72.9	36.9
	#2	14.0	14.0	14.0	26.2
	#3	7.0	7.0	7.0	13.0
	#4	12.2	12.2	12.2	22.7
OVERALL	#1	47.3	59.4	83.3	53.4
	#2	14.5	14.5	14.5	25.0

SIZE/DISTRIBUTION		PARA-24 DIRECT & INDIRECT / DIRECT	PARA-26 DIRECT & INDIRECT / DIRECT
MOUNTING CENTER	#1	48.9	72.9
	#2	26.2	26.2
	#3	13.0	13.0
	#4	22.7	22.7
OVERALL	#1	65.4	89.4
	#2	25.0	25.0

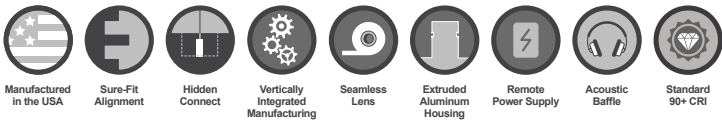
REC



SIZE/DISTRIBUTION		REC-13 DIRECT & INDIRECT / DIRECT	REC-14 DIRECT & INDIRECT / DIRECT	REC-16 DIRECT & INDIRECT / DIRECT	REC-23 DIRECT & INDIRECT / DIRECT
MOUNTING CENTER	#1	14.3	14.3	14.3	26.5
	#2	37.2	49.2	19.2	37.2
OVERALL	#1	16.4	16.4	16.4	28.5
	#2	39.3	51.3	75.3	39.3

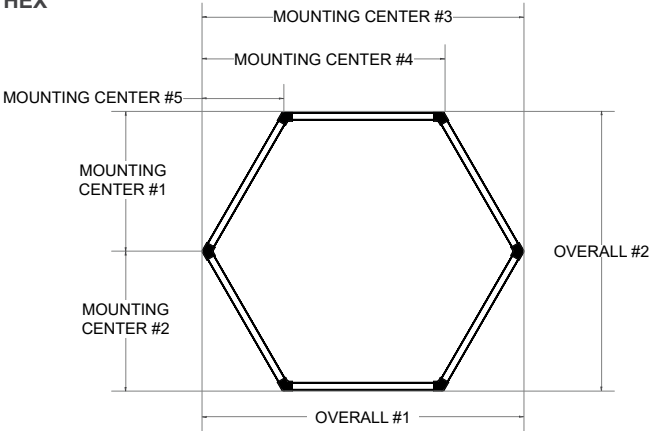
SIZE/DISTRIBUTION		REC-24 DIRECT & INDIRECT / DIRECT	REC-26 DIRECT & INDIRECT / DIRECT
MOUNTING CENTER	#1	26.5	26.5
	#2	49.2	19.2
OVERALL	#1	28.5	28.5
	#2	51.3	75.3

GEO PLANE SUSPENDED
INDIRECT / DIRECT WITH ACOUSTIC



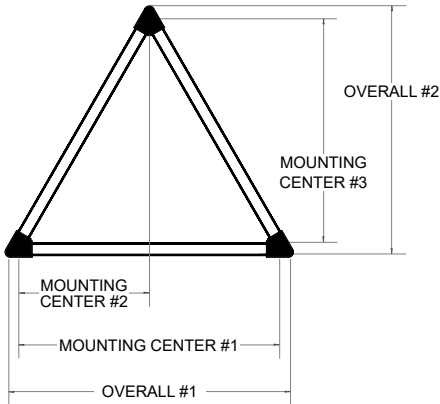
DIMENSIONS

HEX



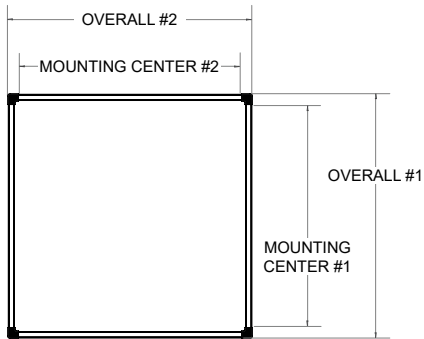
SIZE/DISTRIBUTION		HEX-2	HEX-4
		DIRECT & INDIRECT / DIRECT	DIRECT & INDIRECT / DIRECT
MOUNTING CENTER	#1	12.1	22.6
	#2	12.1	22.6
	#3	28.2	52.3
	#4	21.2	39.2
	#5	7.0	13.1
OVERALL	#1	30.6	54.7
	#2	26.3	47.2

TRI



SIZE/DISTRIBUTION		TRI-2	TRI-3	TRI-4
		DIRECT & INDIRECT / DIRECT	DIRECT & INDIRECT / DIRECT	DIRECT & INDIRECT / DIRECT
MOUNTING CENTER	#1	26.1	36.9	48.9
	#2	13.1	18.4	24.4
	#3	22.6	31.9	42.3
OVERALL	#1	29.5	40.3	52.3
	#2	25.7	35.0	45.4

SQR



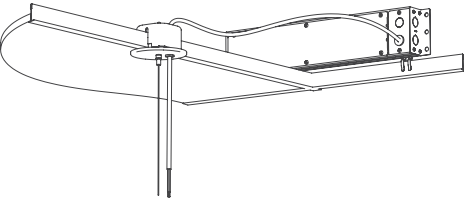
SIZE/DISTRIBUTION		SQR-2	SQR-3
		DIRECT & INDIRECT / DIRECT	DIRECT & INDIRECT / DIRECT
MOUNTING CENTER	#1	26.5	37.2
	#2	26.5	37.2
OVERALL	#1	28.5	36.3
	#2	28.5	36.3

GEO PLANE SUSPENDED
INDIRECT / DIRECT WITH ACOUSTIC

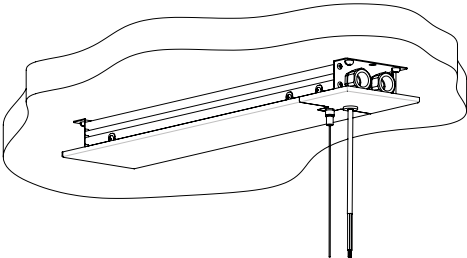


REMOTE DRIVER MOUNTING OPTIONS: DETERMINED BY MOUNTING TYPE

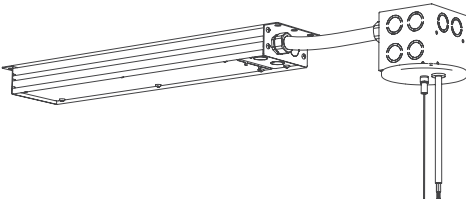
ABOVE GRID: T1 - T9 - SC



HARD CEILING: HC

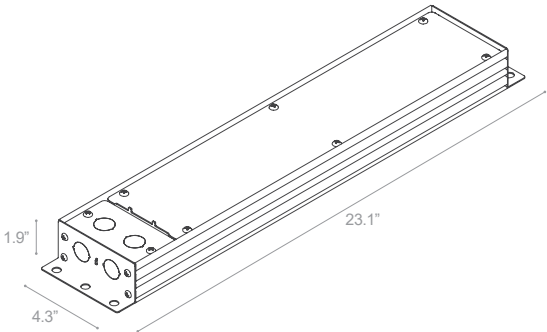


J-BOX: JB



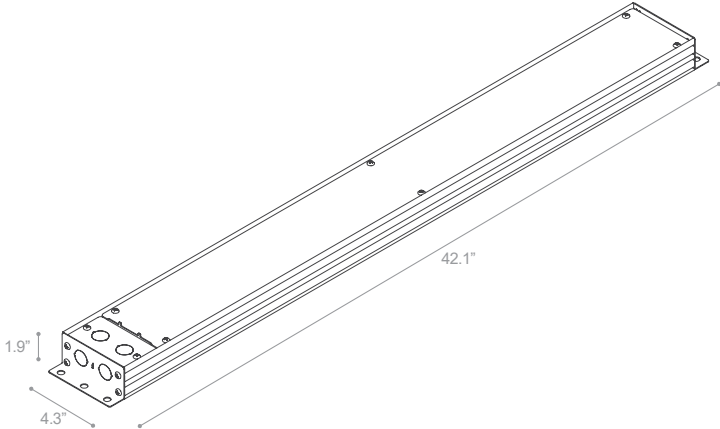
REMOTE DRIVER DETAILS

SHORT REMOTE POWER UNIT

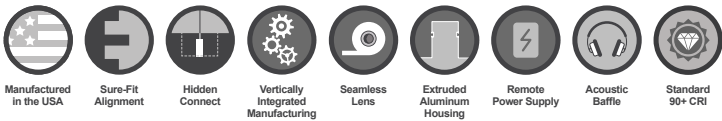


	SHORT REMOTE POWER UNIT	LONG REMOTE POWER UNIT
DISTRIBUTION		
Indirect/Direct (GEOP-ID-X)	X	X
Direct (GEOP-D)	X	X
MOUNTING		
Hard Ceiling	X	X
Grid (T1 - T9 - SC)	X	X
J-Box	X	X
ADD-ON OPTIONS		
Emergency Battery Pack (EM)		X
Emergency Circuit (EC)	X	X
IC RATED		
Approved		X

LONG REMOTE POWER UNIT



GEO PLANE SUSPENDED
INDIRECT / DIRECT WITH ACOUSTIC



ACOUSTIC BAFFLE OPTIONS

COLORS

03 Marble	04 Graphite	07 Sand	09 Onyx	12 Avocado
13 Wine	14 Biscuit	15 Evergreen	18 Granite	21 Cream
22 Khaki	24 Snow	33 Slate	39 Earth	40 Coffee
43 Ivory	92 Denim	93 Sage	157 Midnight	191 Stone
192 Ocean				

TEXTURES

50 Dark Walnut	52 Ash
53 Honey	54 Plywood
61 Fresh Plywood	62 Italian Walnut
63 Main Street Elm	64 Planche Oak
65 Vista Walnut	66 Weathered Plywood

PLANE SERIES WITH GEO SERIES

Suspended GEO Hexagon
Shown with Khaki (22) PLANE Acoustic

Suspended GEO Parallelogram
Shown with Honey (53) PLANE Acoustic

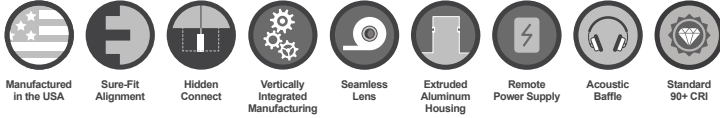
Suspended GEO Rectangle
Shown with Graphite (04) PLANE Acoustic

Suspended GEO Square
Shown with Sage (93) PLANE Acoustic

Suspended GEO Triangle
Shown with Coffee (40) PLANE Acoustic

GEO PLANE SUSPENDED

INDIRECT / DIRECT WITH ACOUSTIC



COMPLETE SERIES COLLECTION



SLEK ACOUSTIC (Distribution: Direct)
 Dimensions: 7.00" or 12.00"H x 2.13"W
 Mounting: Suspended
 Sound Absorption: Average NRC 1.4
 (Subject to mounting conditions)

[VIEW SPEC SHEET](#)

Learn more at: [Lumato.com/project/slek-acoustic-suspended/](https://lumato.com/project/slek-acoustic-suspended/)



2SA ACOUSTIC (Distribution: Direct, Indirect/Direct)
 Dimensions: 7.00" or 12.00"H x 2.88"W
 Mounting: Suspended
 Sound Absorption: Average NRC 1.4
 (Subject to mounting conditions)

[VIEW S2A-D SPEC SHEET](#)

[VIEW S2A-ID SPEC SHEET](#)

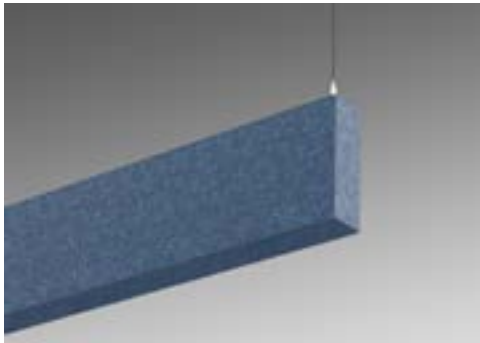
Learn more at:
[Lumato.com/project/2sa-d-suspended/](https://lumato.com/project/2sa-d-suspended/)
[Lumato.com/project/2sa-id-suspended/](https://lumato.com/project/2sa-id-suspended/)



PLANE UNLIT
 Circle, Para, Rectangle, Hex, Triangle, Square
 Mounting: Suspended
 Sound Absorption: Average NRC 0.85
 (Subject to mounting conditions)

[VIEW SPEC SHEET](#)

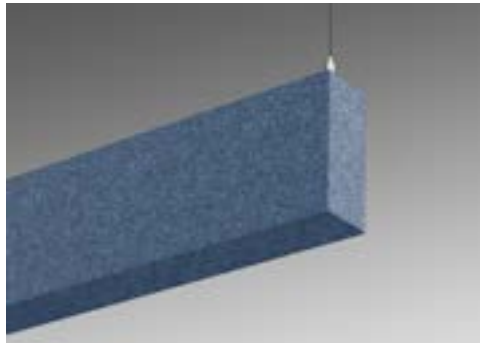
Learn more at: [Lumato.com/project/plane-suspended/](https://lumato.com/project/plane-suspended/)



ACOUSTIC UNLIT MINI BOX
 Dimensions: 7.00" or 12.00"H x 2.13"W
 Mounting: Pendant
 Sound Absorption: Average NRC 1.4
 (Subject to mounting conditions)

[VIEW SPEC SHEET](#)

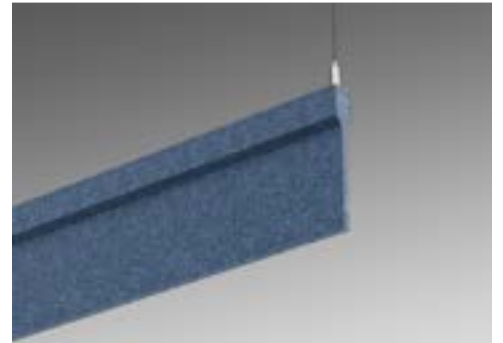
Learn more at: [Lumato.com/project/acoustic-box-mini/](https://lumato.com/project/acoustic-box-mini/)



ACOUSTIC UNLIT BOX
 Dimensions: 7.00" or 12.00"H x 2.88"W
 Mounting: Pendant
 Sound Absorption: Average NRC 1.4
 (Subject to mounting conditions)

[VIEW SPEC SHEET](#)

Learn more at: [Lumato.com/project/acoustic-box/](https://lumato.com/project/acoustic-box/)



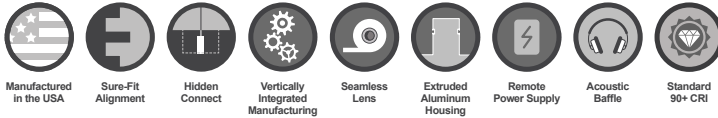
ACOUSTIC UNLIT BLADE
 Dimensions: 7.00" or 12.00"H x 1.13"W
 Mounting: Pendant
 Sound Absorption: Average NRC 0.75 - 1.15
 (Subject to mounting conditions)

[VIEW SPEC SHEET](#)

Learn more at: [Lumato.com/project/acoustic-blade/](https://lumato.com/project/acoustic-blade/)

GEO PLANE SUSPENDED

INDIRECT / DIRECT WITH ACOUSTIC



SPECIFICATIONS

MECHANICAL

Housing Construction:

Extruded Aluminum 6063-T5 alloy outer housing and our high-quality connectors are engineered to conceal all fasteners, and to retain the sealing gaskets on the inside of the fixture while completing the clean and minimalistic look of this luminaire. The Acoustic PLANE is made of 100% polyester fiber acoustic felt and is available in 5 different shapes.

Mounting Method/Hardware:

Standard hanging hardware includes 1/16" diameter, galvanized steel aircraft cable with adjustable and lockable nickel-plated cable grippers at the luminaire. White or black 18/4 cord carries low voltage to luminaire. The standard hardware includes a 57" power cord and 60" aircraft cables to accommodate a 48" mounting distance from the ceiling. All Lumato suspension hardware meets the UL1598 requirements for loading/fixture support. Ceiling Canopy hardware provided. For Geo Plane, sheet metal brackets installed on the edge of the baffles that install onto the GEO housing.

Exterior Finish:

The GEO is available in White, Black, Silver, or Charcoal Grey polyester powder coat finish to ensure durability. Luminaires are available in any RAL color as an option.

Acoustic Color:

The acoustic baffle is made of 100% polyester fiber. Available in the following Colors: Marble (03), Graphite (04), Sand (07), Onyx (09), Avocado (12), Wine (13), Biscuit (14), Evergreen (15), Granite (18), Cream (21), Khaki (22), Snow (24), Slate (33), Earth (39), Coffee (40), Ivory (43), Denim (92), Sage (93), Midnight (157), Stone (191), Ocean (192). Available Textures: Dark Walnut (50), Ash (52), Honey (53), Plywood (54), Fresh Plywood (61), Italian Walnut (62), Main Street Elm (63), Planche Oak (64), Vista Walnut (65), Weathered Plywood (66).

Corner Joints:

Fully machined aluminum corner joints with 2 mounting screws per fixture to provide strength. A sheet metal connector cover connects the multiple fixtures and hanging hardware together. This allows easy install and final wiring. Wiring is completed prior final corner joint is installed. Corner joint and sheet metal connector cover are joined with a 1/4-20 screw.

OPERATION

Remote Power Unit:

Remote Power Unit powers only one luminaire at a time. In row configurations, one power unit is required for each luminaire. Easy to access wiring compartments for fast and easy installation. Line voltage and low voltage wire compartments.

Remote Box Mounting Configurations:

- Above T-Grid with supplied clips
- Decorative surface mount on hard sheet rock construction
- Recessed in hard sheet rock construction (IC Rated)
- J-Box Mounted

Light Engine:

The GEO is available in 3000K, 3500K, and 4000K CCT all within a 3-Step MacAdam Ellipse and has a standard CRI of 90+.

Lower Optics:

Our frosted acrylic roll in lens is designed to maximize efficiency while minimizing glare and eliminating light leak at fixture joints. Fixtures come with lens installed.

Upper Optics:

The upper optics consist of an extruded acrylic lens that provides a ultra-wide batwing distribution to produce a more evenly illuminated ceiling and wider spacing of luminaires.

Electrical:

Electrical connections at fixture are preinstalled with low voltage wiring. Class 2 programmable (factory pre-set) premium power supply, 120-277VAC OR 347V input. Power factor >0.9. THD <15%. Integral Surge Protection to 2KV.

Dimming:

The GEO comes standard with 0-10V dimming to 1%.

PERFORMANCE

Acoustic Material:

All raw materials are sustainably sourced from carefully selected vendors within the USA and abroad. All acoustic felt is made from low-VOC, 60% recycled PET polyester felt material. Frames are custom ordered in standardized sizes to prevent waste in the supply chain.

All Lumato products are free of allergens, irritants, and coatings/ sprays that degrade or give off VOC's. All acoustic materials also meet ASTM E84 Class A, Flame Spread 40.

Product Maintenance:

Our acoustic baffles and panels are inherently easy to maintain. They can be wiped down with a damp cloth or vacuumed as needed.

If a stain does appear, warm water and soap can be used to gently blot the area affected.

Acoustic baffles and panels are 100% recyclable at end of life.

ASTM E84 Class A Fire Spread rating is permanently achieved by infusing 40% new material into the panel. Our manufacturing process never uses sprays or coatings that degrade or lose their rating status.

GENERAL

Warranty:

Ten (10) year limited warranty from date of shipment, covers LED's, driver, and luminaire. Optional accessories are covered by their individual manufacturers' warranties. Two (2) year limited warranty from date of shipment. Optional accessories are covered by their individual manufacturer warranties.

Lumen Maintenance:

Rated for 85% initial lumen output (L85) at 90,000 hours of operation, operated at 25°C ambient temperature; per TM-21 Guidelines published by the Illuminating Engineering Society (IES).

Certification:

All Luminaires and Remote Power Unit are UL and cUL Listed, approved for Dry/Damp locations.

Remote Driver Box may be IC rated as an option. Contact Lumato for more information.

Acoustic Baffle Fire Rating:

ASTM E84 Class A Fire Spread rating is permanently achieved by infusing 40% new material into the panel. Our manufacturing process never uses sprays or coatings that degrade or lose their rating status.

Manufactured in the USA:

All Lumato Luminaires and Components (with the exception of our LED boards and drivers) are proudly manufactured and assembled in the USA. All luminaires are UL/cUL Listed to UL 1598 Standards and approved for Indoor use in Dry/Damp Locations.

Shipping:

6-8 Week lead-time for orders up to 1000 linear feet. Lead-time for orders greater than 1000 linear feet will be determined at time of order.