

LEAN

Lean is a 2'x2' acoustic lay-in that delivers highly efficient Lambertian light for any grid-ceiling application. The dynamic design brings visual excitement, spacial depth, improved acoustics and configurability to the grid ceilings. Using on-site ceiling tiles, light-weight collapsible and recyclable elements, Lean delivers great embodied carbon savings.

5Y
Warranty

C^{UL}US
Certified

Acoustic

Controls

SFI-01112

Red list free

Collapsing

PAT.
Pending

Buy American

LIT.
LIGHTING
DESIGN
AWARDS

LED MAGAZINE
BRIGHTSTAR
AWARDS
HONOREE

2023
PROGRESS
REPORT

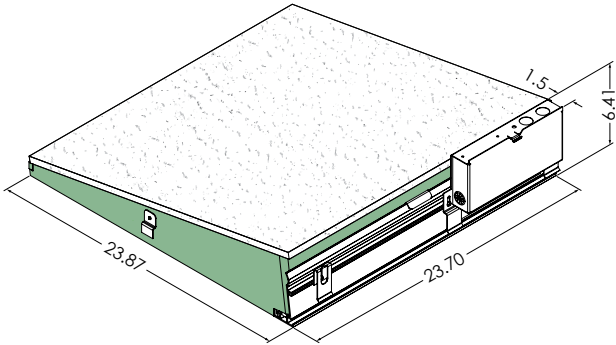
GOOD
DESIGN

Performance

OUTPUT	DISTRIBUTION	DELIVERED			
		STANDARD TILE ¹			HE TILE ²
		LUMEN OUTPUT	INPUT WATTS	EFFICACY	EFFICACY
LVH (Very high)	LAMBERTIAN	4717 lm	53 W	89 lm/W	98 lm/W

Based on static white 3500K, Arctic White felt (AWF). For the complete photometric data of this fixture go to page 3.
¹Standard tile : 90% reflective surface.
²High Efficiency reflector tile : 98% reflective surface.

Dimensions



Acoustic color options

Standard colors

Azure Blue

Arctic White

Basic Black

Blood Orange

Battleship Gray

Banana Yellow

Charcoal

Navy Blue

Ocean Blue

Pear Green

Red

Silver Gray

Titanium Gray

Zinfandel

Signature colors

Bubble Gum

Bark Brown

Denim Blue

Deep Teal

Daisy Yellow

Grass Green

Light Beige

Lime Green

Moss Green

Oak Brown

Peanut Brown

Pinot Noir

Plum Purple

Sky Blue

Tulip Purple

Tangerine Orange

Sustainability

- Reduced number of components and designed for disassembly aids recycling and re-use
- 4.1lbs total weight & collapsible for easy installation by a single person
- Easy jobsite manipulation and disposal



Need help?
Don't see what you need?
We know that having so many options can be overwhelming. Please reach out to our factory for any specific request or questions you have.

Our Design Assist team
(designassist@alights.com)
is here to make the process move smoothly.

A CEILING TILE IS NOT PROVIDED WITH THIS FIXTURE

Lean has been designed to use a ceiling tile that is already on site. If a high quality 90%+ reflective tile is not available for installation, please order a HE tile in the ordering code below.

LEAN											
SERIES	POWER SUPPLY		OUTPUT		LED CCT		CRI		VOLTAGE		
LEAN	I	Individual driver	LS	Standard output	27	2700K	C	80+ CRI	U	120-277V	
			LH	High output	30	3000K		90+ CRI	3	347V ¹	
			LVH	Very high output ²	35	3500K					
			C_	Custom output ¹	40	4000K					
¹ Contact Design Assist for custom tuning or non-standard light outputs. ² LVH only available with integral driver and 120-277V. Not available with 347V.											¹ Not available with LVH.

ACOUSTIC COLOR OPTIONS		DIMMING		EMERGENCY		OPTIONS	
Standard Colors ABF AWF BBF BOF BTF BYF CHF NBF OBF PGF REF SGF TGF ZFF Signature Colors BGF BKF DBF DTF DYF GGF LBF LGF MGF OAF PBF PNF PPF SBF TOF TPF		D Standard 0-10V dimming¹ D4 DALI dim-to-off² NAIR nLight @AIR (dim-to-off)^{3/4} NWIR nLight @Wired (dim-to-off)⁵		E_ Emergency - battery¹		HE High Efficiency reflector tile¹ SM Seismic application	
* Felt color will influence output, please consult LLF table for more details		¹ % Dimming standard unless otherwise specified. ² DALI not available in 347V. ³ nLight AIR completely integrated into fixture in 120-277V. ⁴ nLight in 347V is only offered with external power packs (provided by others). ⁵ nLight Wired is only offered with external power packs (provided by others).		¹ Not available with nLight Air. Entire fixture on same circuit, separate circuits not available.		¹ Lean is designed to use the existing standard acoustic tile. If needed, an 98% reflective surface can be ordered instead of standard ceiling tile for maximum efficiency.	

The ceiling tile is not provided with this fixture. Please ensure high quality ceiling tiles are available for installation of the Lean.

Light distribution

OUTPUT (DC)

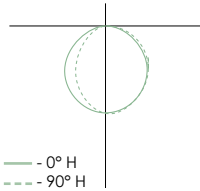
LVH: Very high output - 53W
LH: High output - 40W
LS: Standard output - 28 W
C: Custom tuned output - Contact Design Assist

Photometric data

INDIRECT LAMBERTIAN

LVH - 3500K - Lambertian

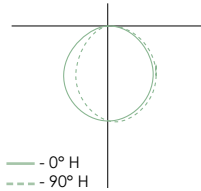
Lumens: 4717 lm
Input watts: 53 W
Efficacy: 89 lm/W



INDIRECT LAMBERTIAN - HIGH EFFICIENCY TILE

LVHHE - 3500K - Lambertian

Lumens: 5194 lm
Input watts: 53 W
Efficacy: 98 lm/W



Light loss factor (LLF)

OUTPUT	CCT	LLF RATIO		INDIRECT EFFICACY			
				STANDARD TILE (LAMBERTIAN)		HE TILE	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.03	0.85	92 lm/W	76 lm/W	101 lm/W	83 lm/W
	3500K	1	0.82	89 lm/W	73 lm/W	98 lm/W	80 lm/W
	3000K	0.98	0.79	87 lm/W	70 lm/W	96 lm/W	77 lm/W
	2700K	0.96	0.74	85 lm/W	66 lm/W	94 lm/W	73 lm/W
LH (high)	4000K	1.03	0.85	95 lm/W	78 lm/W	104 lm/W	86 lm/W
	3500K	1	0.82	92 lm/W	75 lm/W	101 lm/W	83 lm/W
	3000K	0.98	0.79	90 lm/W	73 lm/W	99 lm/W	80 lm/W
	2700K	0.96	0.74	88 lm/W	68 lm/W	97 lm/W	75 lm/W
LS (standard)	4000K	1.03	0.85	96 lm/W	79 lm/W	106 lm/W	88 lm/W
	3500K	1	0.82	93 lm/W	76 lm/W	103 lm/W	84 lm/W
	3000K	0.98	0.79	91 lm/W	73 lm/W	101 lm/W	81 lm/W
	2700K	0.96	0.74	89 lm/W	69 lm/W	99 lm/W	76 lm/W

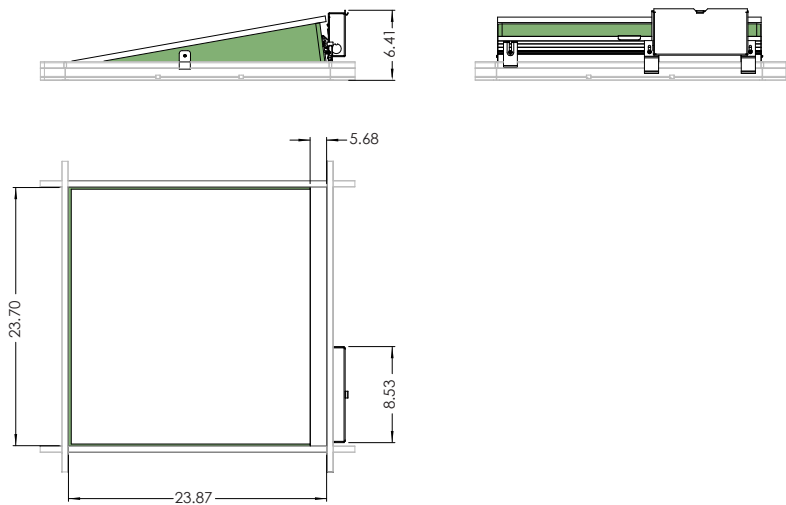
OUTPUT	CCT	LLF RATIO		INDIRECT LUMEN OUTPUT			
				STANDARD TILE (LAMBERTIAN)		HE TILE	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.03	0.85	4859 lm/ft	4009 lm/ft	5350 lm/ft	4415 lm/ft
	3500K	1	0.82	4717 lm/ft	3868 lm/ft	5194 lm/ft	4259 lm/ft
	3000K	0.98	0.79	4623 lm/ft	3726 lm/ft	5090 lm/ft	4103 lm/ft
	2700K	0.96	0.74	4528 lm/ft	3491 lm/ft	4986 lm/ft	3844 lm/ft
LH (high)	4000K	1.03	0.85	3790 lm/ft	3128 lm/ft	4161 lm/ft	3434 lm/ft
	3500K	1	0.82	3680 lm/ft	3018 lm/ft	4040 lm/ft	3313 lm/ft
	3000K	0.98	0.79	3606 lm/ft	2907 lm/ft	3959 lm/ft	3192 lm/ft
	2700K	0.96	0.74	3533 lm/ft	2723 lm/ft	3878 lm/ft	2990 lm/ft
LS (standard)	4000K	1.03	0.85	2682 lm/ft	2213 lm/ft	2971 lm/ft	2451 lm/ft
	3500K	1	0.82	2604 lm/ft	2135 lm/ft	2884 lm/ft	2365 lm/ft
	3000K	0.98	0.79	2552 lm/ft	2057 lm/ft	2826 lm/ft	2278 lm/ft
	2700K	0.96	0.74	2500 lm/ft	1927 lm/ft	2769 lm/ft	2134 lm/ft

Light loss factors felt color (LLF)

FELT COLOR			LLF RATIO	LS (STANDARD)	LH (HIGH)	LVH ² (VERY HIGH)	LSHE (STANDARD HE ¹)	LHHE (HIGH HE ¹)	LVHHE ² (VERY HIGH HE ¹)
	ARCTIC WHITE	AWF	100%	2611 lm	3704 lm	4734 lm	2872 lm	4074 lm	5207 lm
	SILVER GRAY	SGF	85%	2219 lm	3148 lm	4024 lm	2441 lm	3463 lm	4426 lm
	DAISY YELLOW	DYF	96%	2507 lm	3556 lm	4545 lm	2757 lm	3911 lm	4999 lm
	SKY BLUE	SBF	74%	1932 lm	2741 lm	3503 lm	2125 lm	3015 lm	3853 lm
	AZURE BLUE	ABF	72%	1890 lm	2667 lm	3408 lm	2068 lm	2934 lm	3749 lm
	PEAR GREEN	PGF	77%	2010 lm	2852 lm	3645 lm	2212 lm	3137 lm	4010 lm
	LIME GREEN	LGF	76%	1984 lm	2815 lm	3598 lm	2183 lm	3097 lm	3957 lm
	RED	REF	69%	1802 lm	2556 lm	3266 lm	1982 lm	2811 lm	3593 lm
	TITANIUM GRAY	TGF	70%	1828 lm	2593 lm	3314 lm	2010 lm	2852 lm	3645 lm
	LIGHT BEIGE	LBF	83%	2167 lm	3074 lm	3929 lm	2384 lm	3382 lm	4322 lm
	BATTLESHIP GRAY	BTF	68%	1775 lm	2519 lm	3219 lm	1953 lm	2771 lm	3541 lm
	CHARCOAL	CHF	67%	1749 lm	2482 lm	3172 lm	1924 lm	2730 lm	3489 lm
	BASIC BLACK	BBF	66%	1723 lm	2445 lm	3124 lm	1896 lm	2689 lm	3437 lm
	OAK BROWN	OAF	67%	1749 lm	2482 lm	3172 lm	1924 lm	2730 lm	3489 lm
	PEANUT BROWN	PBF	74%	1932 lm	2741 lm	3503 lm	2125 lm	3015 lm	3853 lm
	BARK BROWN	BKF	70%	1828 lm	2593 lm	3314 lm	2010 lm	2852 lm	3645 lm
	BANANA YELLOW	BYF	89%	2324 lm	3297 lm	4213 lm	2556 lm	3626 lm	4635 lm
	MOSS GREEN	MGF	76%	1984 lm	2815 lm	3598 lm	2183 lm	3097 lm	3958 lm
	GRASS GREEN	GGF	69%	1802 lm	2556 lm	3266 lm	1982 lm	2811 lm	3593 lm
	DENIM BLUE	DBF	68%	1775 lm	2519 lm	3219 lm	1953 lm	2771 lm	3541 lm
	NAVY BLUE	NBF	67%	1749 lm	2482 lm	3172 lm	1924 lm	2730 lm	3489 lm
	OCEAN BLUE	OBF	66%	1723 lm	2445 lm	3124 lm	1896 lm	2689 lm	3437 lm
	PLUM PURPLE	PPF	67%	1749 lm	2482 lm	3172 lm	1924 lm	2730 lm	3489 lm
	TULIP PURPLE	TPF	68%	1775 lm	2519 lm	3219 lm	1953 lm	2771 lm	3541 lm
	ZINFANDEL	ZFF	67%	1749 lm	2482 lm	3172 lm	1924 lm	2730 lm	3489 lm
	PINOT NOIR	PNF	68%	1775 lm	2519 lm	3219 lm	1953 lm	2771 lm	3541 lm
	BUBBLE GUM	BGF	78%	2037 lm	2889 lm	3693 lm	2240 lm	3178 lm	4062 lm
	TANGERINE ORANGE	TOF	82%	2141 lm	3037 lm	3882 lm	2355 lm	3341 lm	4270 lm
	BLOOD ORANGE	BOF	75%	1958 lm	2778 lm	3551 lm	2154 lm	3056 lm	3906 lm
	DARK TEAL GREEN	DTF	66%	1723 lm	2445 lm	3124 lm	1896 lm	2689 lm	3437 lm

Factors above for 80CRI.
¹HE : high efficiency reflector tile
²LVH and LVHHE : only available with integral driver

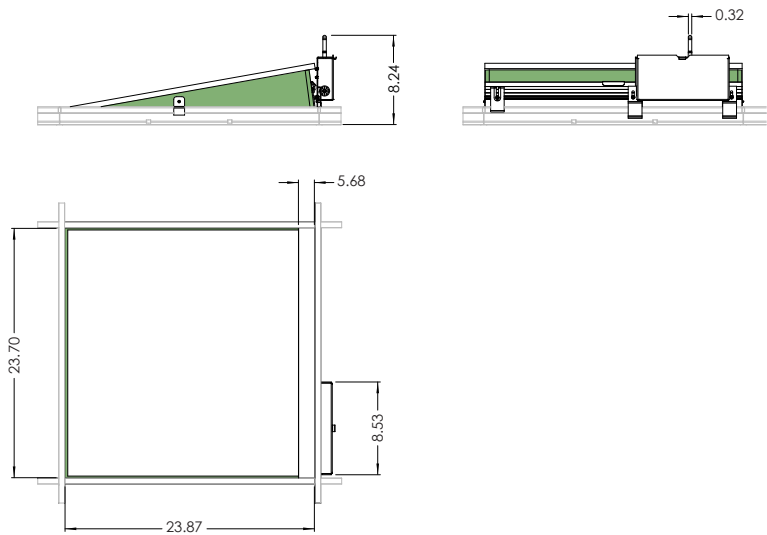
Lean dimensions



Ceiling grid provided by others.
For back to back configuration, the driverbox needs to be moved to another t-bar.

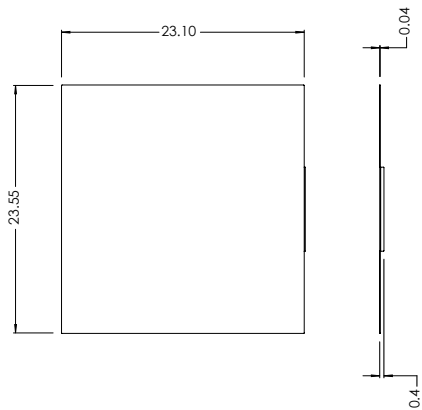
NLight dimensions

AIR : r10



Ceiling grid provided by others.

High efficiency reflector tile dimensions



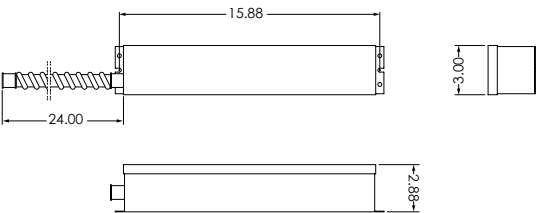
Project name

Type

Date

Quantities

Emergency battery box dimensions



LAY-IN DIMENSIONS

2' nominal length/width for individual fixtures that can be laid into the ceiling together to create various rows and patterns.

OPTICS

The internal lens combined with the reflection of the acoustic tile offers a soft, Lambertian distribution. All photometric data has been generated using USG's Mars ClimaPlus acoustic tile (Reflectance 90.0%) and Silver Grey felt (Reflectance 57.8%).

LED LIGHT SOURCE

Custom manufactured linear board array uses high performance Nichia® LED in combination with a performance driven heat sink technology. Tested in accordance with LM79 and LM-80; L70>60,000hr; operated at reduced output for high efficacy and lumen maintenance. 2700K, 3000K, 3500K, 4000K with 80+ CRI standard; other color temperatures and 90+ CRI available upon request, contact Design Assist. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). LEDs are available in Standard, High and Very High outputs. Refer to photometry for delivered lumens.

LED DIMMING DRIVER

Factory tuned constant current electronic 0-10V control dimming driver is standard. Specification grade dimming down to 1%. Driver life of 50,000 hrs with ambient operating temperature range of -30°C to 50°C, maximum case temperature of 75°C. Electrical specifications at maximum driver load: PF >0.9, THD <20%, >85% Efficiency.

EMERGENCY

This luminaire can be provided with a LED emergency lighting battery pack for both normal and emergency operation, 120-277v only. This emergency pack contains long-life Ni-Cad recyclable battery, 24 hour charger, and converter circuit. Test switch and charge indicator provided. Test button to be remote located within 3 feet of the luminaire, by others in accordance with local code. Emergency mode provides constant power to a nominal 12W LED load for a period of 90 minutes. Please consult the factory for emergency configuration assistance. Our talented Design Assist team is always available for collaboration and specification support.

Emergency circuiting provided as a single circuit for the entire fixture. Separate circuits not available.

NLIGHT® AIR WIRELESS

The API smart sensor is connected to each luminaire in the nLight® AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application. Optionally you can order nLight® AIR less sensors for compatibility with an nLight Air wireless system. The rIO and rCMS models are available for integration.

CONTROLS AND SYSTEM NETWORKING OPTIONS

For Both nLight Air and nLight Wired applications, low-profile remotely ceiling mounted occupancy and daylight sensors are available to deliver high performance control in an architecturally pleasing package.

Integrated nLight® for system networking wired and wireless:

For wired networking via Cat5e, choose an nLight® wired module. The nIO EZ PH and nCM are available for integration as external power packs (provided by others).

nLight enabled, remote mounted controls provided by others. Please contact an Acuity controls representative for more information.

MOUNTING

T-Bar/Grid Ceiling. 9/16" or 15/16" standard T-Bar or 9/16" slot ceiling. Raw aluminum flange sits on T-Bar and is concealed from view. Seismic accessory kit available. T-Bar grid and ceiling tile by others.

ACOUSTICS

Fire tested according to ASTM E-84 Class A. The carefully studied hollow core design and the large surface area contribute to lowering the reverberation time in a set environment by absorbing sound frequencies (ideal for human voice range 250Hz to 2000Hz). Material has inherent NRC of 0.75. As results may vary, it is recommended to consult sound professionals for optimal spacing, positioning and quantity of acoustic material for your environment. Due to the dye process, colors may vary from batch to batch. Signature colors require longer lead time.

STRUCTURE

Robust, high quality aluminum extruded support structure for driver and LED-board. 0.040" aluminum internal gear trays. Reflector made out of felt panels which can be folded down to a small pack size. 3.75 lbs approximate fixture weight.

FINISH

Felt panels come in 30 standard swatches. Other colors and custom finish options available, contact Design Assist regarding custom finish requirement.

LISTING

UL Listed under E471278.

The LEAN is assembled in the U.S.A. and complies with the Buy America(n) Act(BAA) government procurement requirements under FAR, DFARS, and DOTS.

WARRANTY

Limited defect-free manufactured equipment warranty provided under normal use and proper storage for five (5) years. LED products (LED boards and drivers) will be covered for five (5) years. Please refer to the full terms and conditions on our website: www.alights.com/downloads/warranty/