

# ABV

With surface and suspended mounting options, multiple distribution types, various product dimensions and 30 vibrant colors, Absorb V offers additional acoustic design choices for optimizing a space's aesthetic.

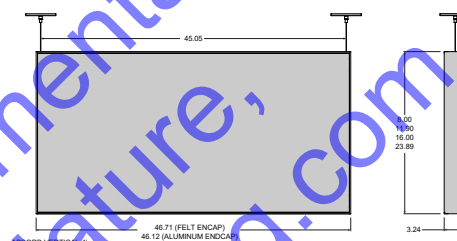


## Performance

|          | OUTPUT    | DISTRIBUTION   | DELIVERED    |             |          |
|----------|-----------|----------------|--------------|-------------|----------|
|          |           |                | LUMEN OUTPUT | INPUT WATTS | EFFICACY |
| INDIRECT | LH (high) | Symmetric Wide | 675 lm/ft    | 9 W/ft      | 75 lm/W  |
|          |           | Symmetric      | 912 lm/ft    | 9.6 W/ft    | 95 lm/W  |
|          |           | Asymmetric     | 672 lm/ft    | 9.6 W/ft    | 70 lm/W  |
| DIRECT   | LH (high) | HE Tech™       | 922 lm/ft    | 9.7 W/ft    | 95 lm/W  |

Based on static white 3500K. For the complete photometric data of this fixture go to page 3.

## Dimensions

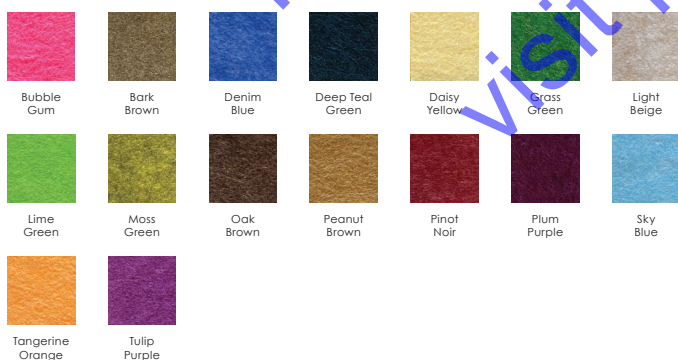


## Felt options

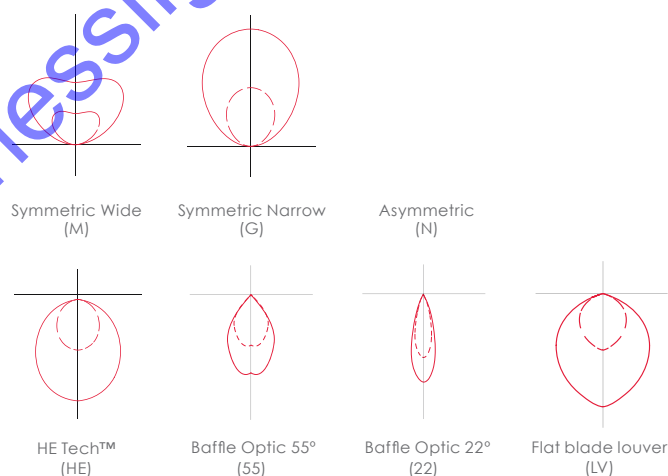
### Standard Colors



### Signature Colors



## Lens options



Project name

Type

Date

Quantities



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](mailto:designassist@alights.com))  
is here to make the process move smoothly.

| ABV    |                                                           |                                                                                                                                                                                                                      |                                                                                                                                                                                       |                                                                                                                                                                                                                                                                    |                                                                         |                                                |                                                        |
|--------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------|
| SERIES | FIXTURE TYPE                                              | LENGTH                                                                                                                                                                                                               | OUTPUT                                                                                                                                                                                | LED CCT                                                                                                                                                                                                                                                            | CRI                                                                     | VOLTAGE                                        | INDIRECT DISTRIBUTION                                  |
| ABV    | 1 Indirect<br>2 Direct/Indirect<br>3 Direct<br>N No light | Nominal Length <sup>1</sup>                                                                                                                                                                                          | ILS Indirect LED Standard<br>ILH Indirect LED High<br>IC Indirect LED Custom <sup>1</sup><br>+<br>DLS Direct LED Standard<br>DLH Direct LED High<br>DC Direct LED Custom <sup>1</sup> | 27 Direct 2700k<br>30 Direct 3000k<br>35 Direct 3500k<br>40 Direct 4000k<br>TW Tunable White <sup>1,2</sup><br>RW RGBW (full color + 3000k White) <sup>2,3</sup>                                                                                                   | 80+ CRI<br>90+ CRI <sup>1</sup>                                         | U 120-277V<br>3 347V <sup>1</sup>              | M Symmetric wide<br>G Symmetric narrow<br>N Asymmetric |
|        |                                                           | <sup>1</sup> Smallest length is 2'. Specify total run in increments of 1'. Maximum section length is 8'. Rows longer than 8' will be comprised of multiple sections. Contact Design Assist for exact length options. | <sup>1</sup> Contact Design Assist for custom tuning or non-standard outputs.                                                                                                         | <sup>1</sup> Standard CCT range is 27-50K. Contact design assist for custom range.<br><sup>2</sup> Photometric data pending for Tunable White and RGBW.<br><sup>3</sup> RGBW only available in DMX dimming. Contact Design Assist for white CCTs other than 3000K. | <sup>1</sup> Not available with (TW) Tunable White or (DW) Dim-to-Warm. | <sup>1</sup> Not available with LEDcode or EM. |                                                        |

| INDIRECT OPTICS                                                             | DIRECT OPTICS                                                                                                              | HEIGHT                                                                                                                                                                                                                                         | MOUNTING                      | ENDCAP                                     | FINISH                                           | ACOUSTIC FINISH <sup>1</sup>                                                                                                                                                                                       |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D Dust Cover                                                                | HE HE Tech™<br>LV Flat Blade Louver <sup>1</sup><br>22 22° baffled optic <sup>2</sup><br>55 55° baffled optic <sup>2</sup> | 8 8 in.<br>12 12 in.<br>16 16 in.<br>24 24 in.                                                                                                                                                                                                 | S Aircraft Cable <sup>1</sup> | EF Acoustic Felt <sup>1</sup>              | T Titanium<br>W White<br>B Black<br>O Other      | <p><b>Standard Colors</b></p> <p>ABF AWF BBF BOF BTF BYF<br/>CHF NBF OBF PGF REF SGF<br/>TGF ZFF</p> <p><b>Signature Colors</b></p> <p>BGF BKF DBF DTF DYF GGF<br/>LBF LGF MGF OAF PBF PNF<br/>PPF SBF TOF TPF</p> |
| <sup>1</sup> Aluminum standard.<br><sup>2</sup> Not available with TW & RW. |                                                                                                                            | Black power cord provided for black and titanium finish. White power cord provided for all other fixture finishes, unless otherwise specified.<br><sup>1</sup> Standard 48" into adjustable cable; specify length to nearest inch if over 48". |                               | <sup>1</sup> Same color as Acoustic Panels | <sup>1</sup> Specify RAL# or other custom color. | <sup>1</sup> See Acoustic color chart for reference. Signature colors require longer lead time.                                                                                                                    |

| CIRCUITING                                                                                                                                                            | DIMMING                                                                                                                                                                                                                 | EMERGENCY                                                                                                                                                                                             | SENSORS                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Single circuit<br>2 Multi-circuit <sup>1</sup><br>M Other <sup>2</sup>                                                                                              | D Standard 0-10V dimming <sup>1</sup><br>D3 DMX 0.1% dim-to-dark<br>D4 DALI dim-to-off (EidoLED)<br>NAIR nLight @AIR (dim-to-off) <sup>2</sup><br>NWIR nLight @Wired (dim-to-off)                                       | EC Circuited<br>E Battery <sup>1</sup>                                                                                                                                                                | OF Occupancy Sensor - Fixture<br>PF Photocell / Daylight Sensor - Fixture<br>OPF Occupancy & daylight Sensor - Fixture                                                |
| <sup>1</sup> Separate uplight/downlight circuits. Only available with option<br><sup>2</sup> under fixture type<br><sup>3</sup> Submit multi circuiting requirements. | <sup>1</sup> 0.1% dim-to-dark standard unless otherwise specified.<br><sup>2</sup> nLight AIR components completely integrated into fixture. Not available with 347V + LEDcode or EM. If 347V, only available in 0-10V. | <sup>1</sup> Factory-installed emergency battery pack. Specify desired quantity of batteries. Not available on fixtures < 4' length. Not available for 347V. See technical data for more information. | Specify quantity of sensors per fixture. Sensor will be matched to dimming input. All sensors to be integral to fixture. Remote sensors are to be provided by others. |

## Light distribution

## DISTRIBUTION

Indirect Symmetric Wide  
 Indirect Symmetric  
 Indirect Asymmetric  
 Direct (HE Tech™)  
 Direct (Flat Blade Louver - Aluminum)  
 Direct (55° baffle)  
 Direct (22° baffle)

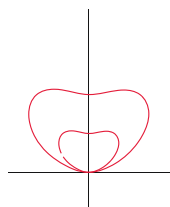
## OUTPUT

LH: High output ~ 9.5 W/ft  
 LS: Standard output ~ 5 W/ft  
 C: Custom tuned output - Specify Wattage

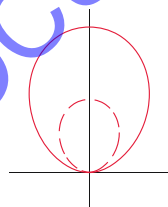
## Photometric data

INDIRECT SYMMETRIC WIDE  
ILH - 3500K - DUST COVER

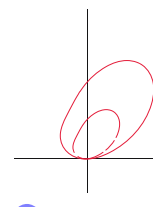
Lumens: 675 lm/ft  
 Input watts: 9 W/ft  
 Efficacy: 75 lm/W

INDIRECT SYMMETRIC  
ILH - 3500K - DUST COVER

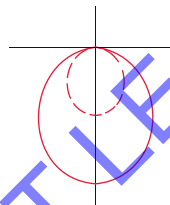
Lumens: 912 lm/ft  
 Input watts: 9.6 W/ft  
 Efficacy: 95 lm/W

INDIRECT ASYMMETRIC  
ILH - 3500K - DUST COVER

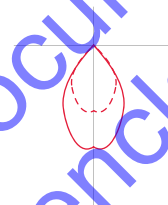
Lumens: 672 lm/ft  
 Input watts: 9.6 W/ft  
 Efficacy: 70 lm/W

DIRECT SYMMETRIC  
DLH - 3500K - HE TECH™

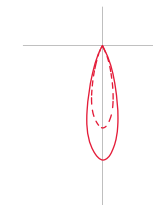
Lumens: 922 lm/ft  
 Input watts: 9.7 W/ft  
 Efficacy: 95 lm/W

DIRECT SYMMETRIC  
LH - 4FT - 3500K - 55°

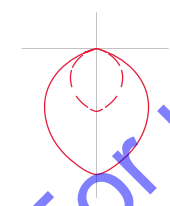
Lumens: 973 lm/ft  
 Input watts: 14.1 W/ft  
 Efficacy: 70 lm/W

DIRECT SYMMETRIC  
LH - 4FT - 3500K - 22°

Lumens: 1245 lm/ft  
 Input watts: 14.1 W/ft  
 Efficacy: 89 lm/W

DIRECT SYMMETRIC  
LH - 4FT - 3500K - BLADE LOUVERS

Lumens: 982 lm/ft  
 Input watts: 9.8 W/ft  
 Efficacy: 100 lm/W



Light loss factors (LLF) - Direct data

| OUTPUT           | CCT   | LLF RATIO |        | DIRECT EFFICACY |         |
|------------------|-------|-----------|--------|-----------------|---------|
|                  |       |           |        | HE TECH         |         |
|                  |       | CRI 80    | CRI 90 | CRI 80          | CRI 90  |
| LH<br>(high)     | 4000K | 1.02      | 0.84   | 97 lm/W         | 80 lm/W |
|                  | 3500K | 1         | 0.83   | 95 lm/W         | 79 lm/W |
|                  | 3000K | 0.97      | 0.81   | 92 lm/W         | 77 lm/W |
|                  | 2700K | 0.94      | 0.79   | 89 lm/W         | 75 lm/W |
| LS<br>(standard) | 4000K | 1.02      | 0.84   | 97 lm/W         | 80 lm/W |
|                  | 3500K | 1         | 0.83   | 95 lm/W         | 79 lm/W |
|                  | 3000K | 0.97      | 0.81   | 92 lm/W         | 77 lm/W |
|                  | 2700K | 0.94      | 0.79   | 89 lm/W         | 75 lm/W |

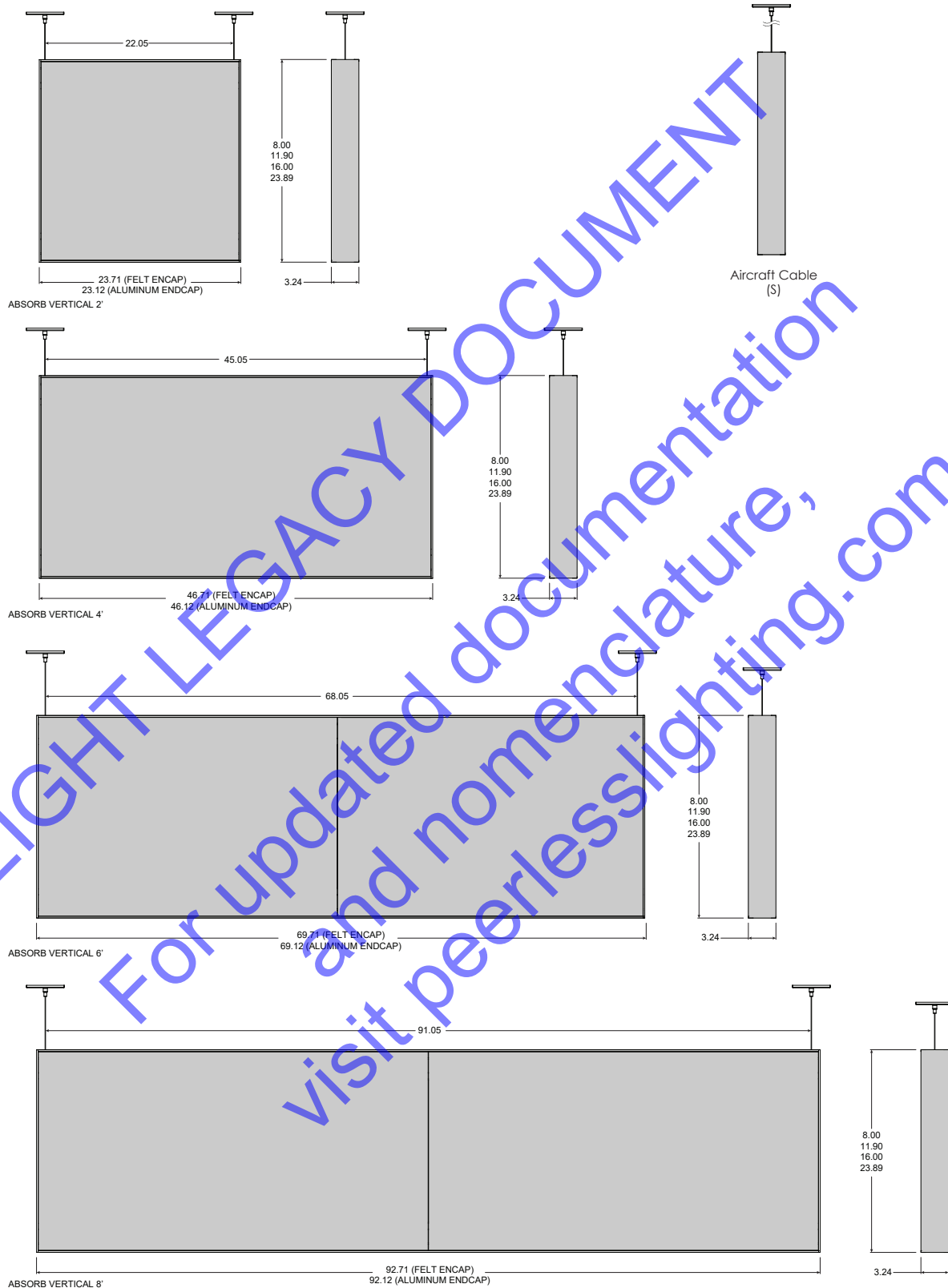
| OUTPUT           | CCT   | LLF RATIO |        | DIRECT LUMEN OUTPUT |           |
|------------------|-------|-----------|--------|---------------------|-----------|
|                  |       |           |        | HE TECH             |           |
|                  |       | CRI 80    | CRI 90 | CRI 80              | CRI 90    |
| LH<br>(high)     | 4000K | 1.02      | 0.84   | 940 lm/ft           | 774 lm/ft |
|                  | 3500K | 1         | 0.83   | 922 lm/ft           | 765 lm/ft |
|                  | 3000K | 0.97      | 0.81   | 894 lm/ft           | 746 lm/ft |
|                  | 2700K | 0.94      | 0.79   | 866 lm/ft           | 728 lm/ft |
| LS<br>(standard) | 4000K | 1.02      | 0.84   | 485 lm/ft           | 399 lm/ft |
|                  | 3500K | 1         | 0.83   | 475 lm/ft           | 394 lm/ft |
|                  | 3000K | 0.97      | 0.81   | 461 lm/ft           | 385 lm/ft |
|                  | 2700K | 0.94      | 0.79   | 447 lm/ft           | 375 lm/ft |

Light loss factors (LLF) - Indirect data

| OUTPUT           | CCT   | LLF RATIO |        | INDIRECT EFFICACY |         |           |         |            |         |
|------------------|-------|-----------|--------|-------------------|---------|-----------|---------|------------|---------|
|                  |       |           |        | SYMMETRIC WIDE    |         | SYMMETRIC |         | ASYMMETRIC |         |
|                  |       | CRI 80    | CRI 90 | CRI 80            | CRI 90  | CRI 80    | CRI 90  | CRI 80     | CRI 90  |
| LH<br>(high)     | 4000K | 1.02      | 0.84   | 77 lm/W           | 63 lm/W | 97 lm/W   | 80 lm/W | 71 lm/W    | 59 lm/W |
|                  | 3500K | 1         | 0.83   | 75 lm/W           | 62 lm/W | 95 lm/W   | 79 lm/W | 70 lm/W    | 58 lm/W |
|                  | 3000K | 0.97      | 0.81   | 73 lm/W           | 61 lm/W | 92 lm/W   | 77 lm/W | 68 lm/W    | 57 lm/W |
|                  | 2700K | 0.94      | 0.79   | 71 lm/W           | 59 lm/W | 89 lm/W   | 75 lm/W | 66 lm/W    | 55 lm/W |
| LS<br>(standard) | 4000K | 1.02      | 0.84   | 75 lm/W           | 62 lm/W | 97 lm/W   | 80 lm/W | 71 lm/W    | 59 lm/W |
|                  | 3500K | 1         | 0.83   | 74 lm/W           | 61 lm/W | 95 lm/W   | 79 lm/W | 70 lm/W    | 58 lm/W |
|                  | 3000K | 0.97      | 0.81   | 72 lm/W           | 60 lm/W | 92 lm/W   | 77 lm/W | 68 lm/W    | 57 lm/W |
|                  | 2700K | 0.94      | 0.79   | 70 lm/W           | 58 lm/W | 89 lm/W   | 75 lm/W | 66 lm/W    | 55 lm/W |

| OUTPUT           | CCT   | LLF RATIO |        | INDIRECT LUMEN OUTPUT |           |           |           |            |           |
|------------------|-------|-----------|--------|-----------------------|-----------|-----------|-----------|------------|-----------|
|                  |       |           |        | SYMMETRIC WIDE        |           | SYMMETRIC |           | ASYMMETRIC |           |
|                  |       | CRI 80    | CRI 90 | CRI 80                | CRI 90    | CRI 80    | CRI 90    | CRI 80     | CRI 90    |
| LH<br>(high)     | 4000K | 1.02      | 0.84   | 689 lm/ft             | 567 lm/ft | 930 lm/ft | 766 lm/ft | 685 lm/ft  | 564 lm/ft |
|                  | 3500K | 1         | 0.83   | 675 lm/ft             | 560 lm/ft | 912 lm/ft | 757 lm/ft | 672 lm/ft  | 558 lm/ft |
|                  | 3000K | 0.97      | 0.81   | 655 lm/ft             | 547 lm/ft | 885 lm/ft | 739 lm/ft | 652 lm/ft  | 544 lm/ft |
|                  | 2700K | 0.94      | 0.79   | 635 lm/ft             | 533 lm/ft | 857 lm/ft | 720 lm/ft | 632 lm/ft  | 531 lm/ft |
| LS<br>(standard) | 4000K | 1.02      | 0.84   | 377 lm/ft             | 311 lm/ft | 485 lm/ft | 399 lm/ft | 357 lm/ft  | 294 lm/ft |
|                  | 3500K | 1         | 0.83   | 370 lm/ft             | 307 lm/ft | 475 lm/ft | 394 lm/ft | 350 lm/ft  | 291 lm/ft |
|                  | 3000K | 0.97      | 0.81   | 359 lm/ft             | 300 lm/ft | 461 lm/ft | 385 lm/ft | 340 lm/ft  | 284 lm/ft |
|                  | 2700K | 0.94      | 0.79   | 348 lm/ft             | 292 lm/ft | 447 lm/ft | 375 lm/ft | 329 lm/ft  | 277 lm/ft |

## Mounting lengths



Project name

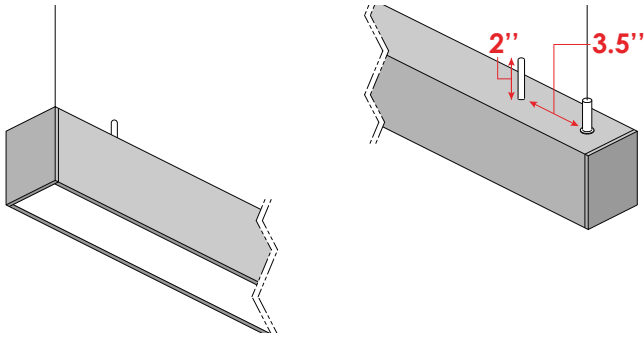
Type

Date

Quantities

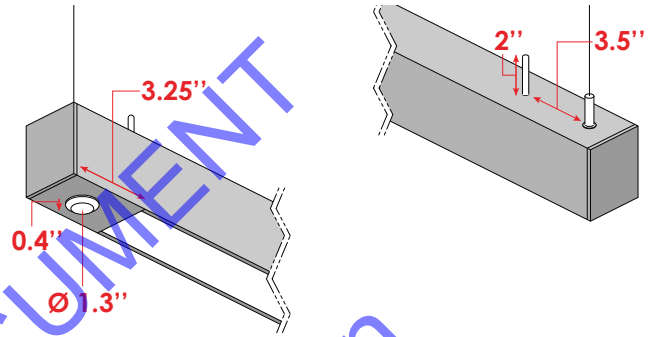
## NLight dimensions

AIR : r10



\*Fixture mounted sensors and filler panel for nLight AIR only.

AIR : res7



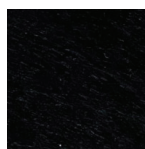
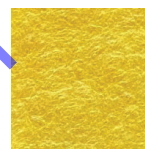
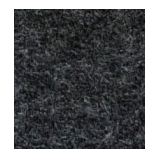
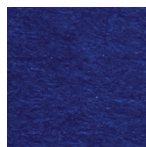
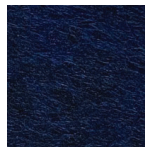
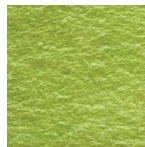
\*Fixture mounted sensors and filler panel for nLight AIR only.

A-LIGHT LEGACY DOCUMENT

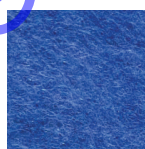
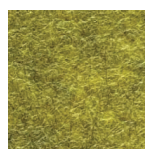
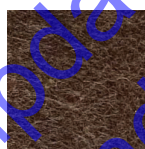
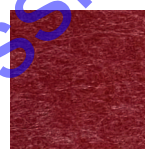
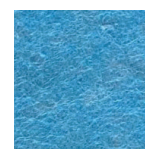
For updated documentation,  
and nomenclature,  
visit [peerlesslighting.com](http://peerlesslighting.com)

## Acoustic color chart

## Standard colors

**ABF**  
Azure Blue**AWF**  
Arctic White**BBF**  
Basic Black**BOF**  
Blood Orange**BTF**  
Battleship Grey**BYF**  
Banana Yellow**CHF**  
Charcoal**NSF**  
Navy Blue**OBF**  
Ocean blue**PGF**  
Pear Green**REF**  
Red**SGF**  
Silver Grey**TGF**  
Titanium Gray**ZFF**  
Zinfandel

## Signature colors

**BGF**  
Bubble Gum**BKF**  
Bark Brown**DBF**  
Denim Blue**DTF**  
Deep Teal Green**DYF**  
Daisy Yellow**GGF**  
Grass Green**LBF**  
Light Beige**LGF**  
Lime Green**MGF**  
Moss Green**OAF**  
Oak Brown**PBF**  
Peanut Brown**PNF**  
Pinot Noir**PPF**  
Plum Purple**SBF**  
Sky Blue**TOF**  
Tangerine**TPF**  
Tulip Purple

Color chart for reference only. Due to the dye process, colors may vary from batch to batch, please consult Design Assist for details.

Project name

Type

Date

Quantities

## LINEAR DIMENSIONS

Smallest fixture is 2'. Nominal dimension of each fixture can be order in increments of 1'. 8' is the longest section. Rows longer than 8' are comprised of multiple sections joined together in the field.

Custom - Contact [Design Assist](#) for modifications to product not detailed within this specification sheet.

## OPTICS

Baffled optic is a custom-designed and manufactured optical system comprised of a Total Internal Reflecting (TIR) optic used in conjunction with a primary light-absorbing baffle. System optics provide high efficiency with a 55° sharp cut-off (half-angle from Nadir), 22° angle and a 55° FWHM (Full Width Half Maximum) angle.

He Tech™ patented high efficacy extruded diffuse acrylic lens technology with integrated opaque white reflector delivers superior lumen output with optimal uniform lens surface luminance for direct distribution.

Rigid dust cover is a partially diffuse extruded dust cover lens optimized for indirect LED performance delivers 92% transmittance.

Flat Blade Louvers are used to cut down on glare and better control the light source on the downlight. This option includes a linear film diffuser (inserted between the louvers and the LEDs), that enhances glare control and blends light sources. The standard finish is aluminum. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

## 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, and 4000K with 80+ CRI standard; other color temperatures and 90+ CRI available upon request, contact factory. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). LEDs are available in Standard and 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 is provided with a factory installed LED emergency lighting battery pack for both normal and emergency operation, 120-277v only. This fixture integrated unit 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, delivering 1200 lumens of unwavering illumination throughout the full 90 minute emergency duration. Unless otherwise specified, the emergency battery pack will illuminate one 4 foot end in the direct portion of the fixture.

Emergency circuiting provided as a separate circuit from normal power circuit according to NEC requirements, specify circuit length and location.

## CONTROLS

Low-profile integral occupancy and daylight sensors are available to deliver high performance control in an architecturally pleasing package.

Integrated nLight® for system networking wired and wireless:

### nLIGHT® AIR WIRELESS

The integrated API smart sensor is part of 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, rES7, rMSOD, and rCMS models are available for integration.

### CONTROLS AND SYSTEM NETWORKING OPTIONS

For wired networking via Cat-5e, choose an nLight® wired module. The nIO EZ PH, nIO EZDL CCT, nES7 and nCM are available for integration.

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

## MOUNTING

Suspension with aircraft cables. Aircraft cable set includes 48" standard length 1/16" stainless steel adjustable aircraft cables with secure micro grippers to field set suspension length, comes factory installed in fixture. 4-1/2" x 4-1/2" square white canopies. Cord strain also included. Power cord options available for aircraft cable. Black power cord provided for black and titanium finish, white power cord provided for all other fixture finishes unless otherwise specified.

Specify if other suspension length is required. White Canopies provided as required for quantity of power feed and non power feed locations, unless otherwise noted. Cross/stud bar included for power canopies only. Caddy Clip, Stud Bar, or Threaded Rod for mounting by others on non-power canopies. Specify if other shape, size is required.

## ACOUSTICS

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 (lab tests pending). 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.

## FINISH

Electrostatically applied powder coat finish. Standard finish options include titanium, white, and black. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

## LISTING

Tested in accordance with UL/CSA 1598, NEC, ANSI/NFPA 70. For USA and Canada. Dry locations only.

The Absorb V is assembled in the U.S.A. and complies with the Buy America(n) Act (BAA), Build America, Buy America (BABA) government procurement requirements under FAR, DFARS, and DOT.

## WARRANTY

Please refer to the full terms and conditions on our website:

[www.alights.com/downloads/warranty/](http://www.alights.com/downloads/warranty/)