

# G1

Architrave1 indirect suspended provides wide, narrow, or asymmetric distribution in a 5" x 5" square linear housing. Optional dual board configuration provides maximum lumen output and performance.

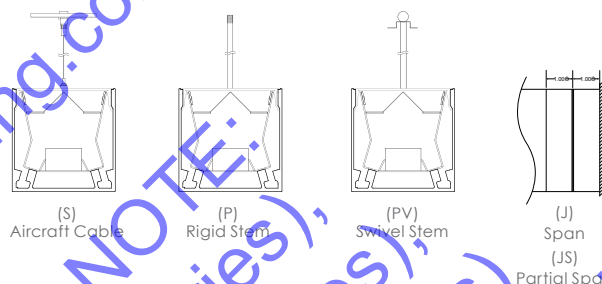


## Performance

## Mounting options

| OUTPUT             | DISTRIBUTION   | DELIVERED    |             |          |
|--------------------|----------------|--------------|-------------|----------|
|                    |                | LUMEN OUTPUT | INPUT WATTS | EFFICACY |
| LVH<br>(Very high) | Symmetric Wide | 1714 lm/ft   | 28.5 W/ft   | 96 lm/W  |
|                    | Asymmetric     | 1428 lm/ft   | 17.5 W/ft   | 80 lm/W  |

Based on static white 35K fixtures. For the complete photometric data of this fixture refer to pages 2 and 3.



| G1                                                                                                                                                                                                                                                                                                                                | LENGTH OR PATTERN TYPE |                                                                                                                                                | INTERSECTION TYPE   | OUTPUT                                                                                                                                                                                                                                                                    | LED CCT                                           | CRI                                                                                                                                                                 | VOLTAGE             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| G1                                                                                                                                                                                                                                                                                                                                | M_                     | Nominal Length <sup>1</sup>                                                                                                                    | IT "I" Intersection | LS Standard Output                                                                                                                                                                                                                                                        | 27 2700k                                          | 80+ CRI                                                                                                                                                             | U 120-277V          |
|                                                                                                                                                                                                                                                                                                                                   | PL_                    | Exact Length <sup>2</sup>                                                                                                                      | IX "X" Intersection | LH High Output                                                                                                                                                                                                                                                            | 30 3000k                                          | 90+ CRI <sup>1</sup>                                                                                                                                                | 3 347V <sup>1</sup> |
|                                                                                                                                                                                                                                                                                                                                   | PU_                    | "L" Shape <sup>3</sup>                                                                                                                         | IY "Y" Intersection | LVH Very High Output <sup>1</sup>                                                                                                                                                                                                                                         | 35 3500k                                          |                                                                                                                                                                     |                     |
|                                                                                                                                                                                                                                                                                                                                   | PR_                    | "U" Shape <sup>3</sup>                                                                                                                         |                     | C Custom Output <sup>2</sup>                                                                                                                                                                                                                                              | 40 4000k                                          |                                                                                                                                                                     |                     |
|                                                                                                                                                                                                                                                                                                                                   | CP                     | Rectangle/Square <sup>3</sup>                                                                                                                  |                     |                                                                                                                                                                                                                                                                           | DW Dim-to-warm <sup>1</sup>                       |                                                                                                                                                                     |                     |
|                                                                                                                                                                                                                                                                                                                                   |                        | Custom Pattern <sup>4</sup>                                                                                                                    |                     |                                                                                                                                                                                                                                                                           | TW Tunable White <sup>1,2</sup>                   |                                                                                                                                                                     |                     |
|                                                                                                                                                                                                                                                                                                                                   |                        |                                                                                                                                                |                     |                                                                                                                                                                                                                                                                           | RW RGBW (full color + 3000k White) <sup>2,3</sup> |                                                                                                                                                                     |                     |
| Indicate length of each section of pattern either nominal or exact.<br><sup>1</sup> Specify in feet to the nearest foot (i.e. 12)<br><sup>2</sup> Specify in inches to the nearest 1/8 (i.e. M180.125)<br><sup>3</sup> Specify in inches to the nearest 1/8 (See Pattern Guide for details)<br><sup>4</sup> Contact Design Assist |                        | <sup>1</sup> Available on LVH asymmetric wide distribution only<br><sup>2</sup> Contact Design Assist for available custom tuned output ranges |                     | <sup>1</sup> Standard CCT range is 27-35K. Contact Design Assist for custom range.<br><sup>2</sup> Photometric data pending for Tunable White and RGBW.<br><sup>3</sup> RGBW is UL pending and only available in DMX dimming. Contact Design Assist for more information. |                                                   | <sup>1</sup> Not offered with RW. Tunable white or LEDW. Dim-to-warm. Contact Design Assist for more information.<br><sup>2</sup> Not available with LEDCode or EM. |                     |

| INDIRECT DISTRIBUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MOUNTING                                                                                                                    | INDIRECT OPTICS                                                                                                                                                                                                                                                                                          | FINISH                                                                                                   | DIMMING                                                                                                                                                                                                                                                                               | EMERGENCY                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| M Symmetric Wide<br>N Asymmetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | S Aircraft Cable <sup>1</sup><br>P Rigid Stem <sup>2</sup><br>PV Swivel Stem <sup>2</sup><br>JS Partial Span<br>J Full Span | D Rigid Diffuse<br>Dust Cover <sup>1</sup>                                                                                                                                                                                                                                                               | W White<br>B Black<br>T Titanium<br>O Other <sup>1</sup><br>CBD CBDF<br>SPN SPNF<br>SCN SCNF<br>SMN SMNF | D Standard 0-10V dimming <sup>1</sup><br>D2 Phase dimming <sup>2</sup><br>D3 DMX 0.1% dim-to-dark<br>D4 DALI dim-to-off (EldoLED)<br>NAIR nLight @AIR (dim-to-off) <sup>3</sup><br>NWIR nLight @wired (dim-to-off)                                                                    | EC Circuited <sup>1</sup><br>E Battery <sup>2</sup> |
| Black power cord provided for black and titanium finish and white power cord provided for all other fixture finishes, unless otherwise specified.<br><sup>1</sup> Standard 48" field adjustable cable, specify length to nearest inch if over 48".<br><sup>2</sup> Indicate stem length to nearest inch, 6.00" minimum - 98" maximum. Coupler and multiple stems will be provided to requests longer than 98". Longer stems with coupler not recommended if fixture is exposed to winds/swivel pendant stem. |                                                                                                                             | <sup>1</sup> Specify RAL # or other custom color.                                                                                                                                                                                                                                                        |                                                                                                          | <sup>1</sup> 1% dimming standard unless otherwise specified.<br><sup>2</sup> Reference ERP-PH8 driver for compatible dimmers.<br><sup>3</sup> nLight AIR components completely integrated into fixture. Not available with 347V + LEDCode or EM. If 347V, only available with 10-10V. |                                                     |
| Not available for 347V. See technical data for more information. Not available on fixtures < 4' length.                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                             | <sup>1</sup> Indicate length of separate EM circuit. If unknown, a 4' circuit will be provided by default. For full-length EM fixtures, no need to indicate EC. 4' fixtures will have a separate 2' EM circuit section. Factory-installed emergency battery pack. Specify desired quantity of batteries. |                                                                                                          |                                                                                                                                                                                                                                                                                       |                                                     |

| SENSORS                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | OPTIONS                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| OF_ Occupancy Sensor - Fixture<br>PF_ Photocell / Daylight Sensor - Fixture<br>OPF_ Occupancy / daylight Sensor - Fixture                                                                                                                                                                                                                                                                                                                                                            | M Multi-Circuit <sup>1</sup><br>K Natatorium application <sup>2</sup><br>Q Wet location <sup>3</sup> |
| 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.                                                                                                                                                                                                                                                                                                                |                                                                                                      |
| <sup>1</sup> Submit multi-circuiting requirements<br><sup>2</sup> Not available with aircraft cable. See guide and contact Design Assist. Special hardware is utilized for this rating.<br><sup>3</sup> Not available with aircraft cable. Wet location suitable in full coverage and/or mullion mounted applications (direct to sky not recommended); not suitable for extreme weather applications. Refer to Wet Location brochure and contact Design Assist for more information. |                                                                                                      |



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.

Project name

Type

Date

Quantities

## Light distribution

## DISTRIBUTION

Indirect Symmetric Wide  
Indirect Asymmetric

## OUTPUT (DC)

LVH: Very high output - 23 W/ft  
LH: High output - 13.5 W/ft  
LS: Standard output - 6.5 W/ft  
C: Custom tuned output - Contact Design Assist

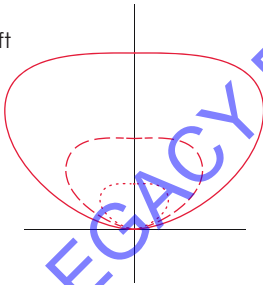
## Photometric data

## INDIRECT SYMMETRIC WIDE

LVH - 4000K - DUST COVER

Lumens: 1714 lm/ft  
Input watts: 28.5 W/ft  
Efficacy: 96 lm/W

LH ———  
LS - - - - -

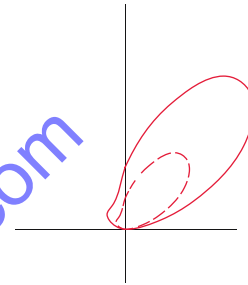


## INDIRECT ASYMMETRIC

LVH - 4000K - DUST COVER

Lumens: 1428 lm/ft  
Input watts: 17.5 W/ft  
Efficacy: 80 lm/W

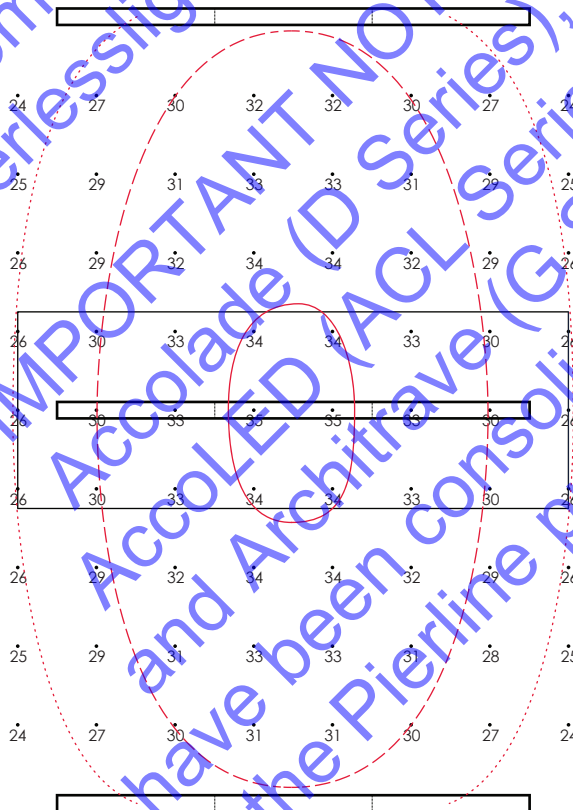
LH ———  
LS - - - - -



## Sample Installation - Workspace

SYM. WIDE - LH UP / 4000K

Room height: 12 ft  
Reflectance: 80% / 50% / 20%  
Mounting height: 9 ft A.F.F.  
Fixture length: 12 ft  
Calculation grid: 2 ft x 2 ft  
Calculation plane (horizontal): 2.5 ft A.F.F.  
Average Illuminance: 30 fc  
Fixture spacing: 10 ft O.C.  
Uniformity: 1.2:1 (avg/min)



## FRONT VIEW

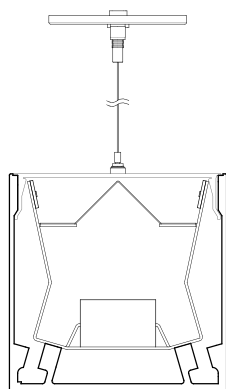
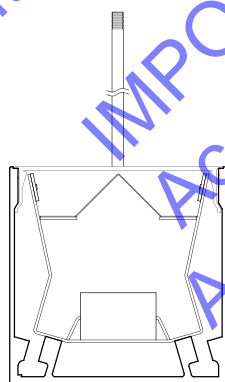
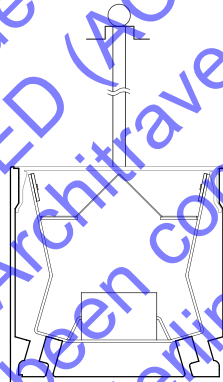
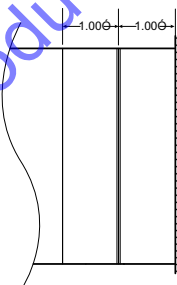
34 fc: ———  
30 fc: - - - - -  
25 fc: - - - - -

## Light loss factors (LLF)

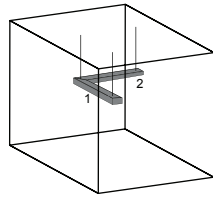
| OUTPUT             | CCT   | LLF RATIO |        | INDIRECT EFFICACY |         |            |         |
|--------------------|-------|-----------|--------|-------------------|---------|------------|---------|
|                    |       |           |        | SYMMETRIC WIDE    |         | ASYMMETRIC |         |
|                    |       | CRI 80    | CRI 90 | CRI 80            | CRI 90  | CRI 80     | CRI 90  |
| LVH<br>(very high) | 4000K | 1.02      | 0.84   | 98 lm/W           | 81 lm/W | 82 lm/W    | 67 lm/W |
|                    | 3500K | 1         | 0.83   | 96 lm/W           | 80 lm/W | 80 lm/W    | 66 lm/W |
|                    | 3000K | 0.97      | 0.81   | 93 lm/W           | 78 lm/W | 78 lm/W    | 65 lm/W |
|                    | 2700K | 0.94      | 0.79   | 90 lm/W           | 76 lm/W | 75 lm/W    | 63 lm/W |
| LH<br>(high)       | 4000K | 1.02      | 0.84   | 107 lm/W          | 88 lm/W | 86 lm/W    | 71 lm/W |
|                    | 3500K | 1         | 0.83   | 105 lm/W          | 87 lm/W | 84 lm/W    | 70 lm/W |
|                    | 3000K | 0.97      | 0.81   | 102 lm/W          | 85 lm/W | 81 lm/W    | 68 lm/W |
|                    | 2700K | 0.94      | 0.79   | 99 lm/W           | 83 lm/W | 79 lm/W    | 66 lm/W |
| LS<br>(standard)   | 4000K | 1.02      | 0.84   | 112 lm/W          | 92 lm/W | 92 lm/W    | 76 lm/W |
|                    | 3500K | 1         | 0.83   | 110 lm/W          | 91 lm/W | 90 lm/W    | 75 lm/W |
|                    | 3000K | 0.97      | 0.81   | 107 lm/W          | 89 lm/W | 87 lm/W    | 73 lm/W |
|                    | 2700K | 0.94      | 0.79   | 103 lm/W          | 87 lm/W | 85 lm/W    | 71 lm/W |

| OUTPUT             | CCT   | LLF RATIO |        | INDIRECT LUMEN OUTPUT |            |            |            |
|--------------------|-------|-----------|--------|-----------------------|------------|------------|------------|
|                    |       |           |        | SYMMETRIC WIDE        |            | ASYMMETRIC |            |
|                    |       | CRI 80    | CRI 90 | CRI 80                | CRI 90     | CRI 80     | CRI 90     |
| LVH<br>(very high) | 4000K | 1.02      | 0.84   | 1714 lm/ft            | 1411 lm/ft | 1428 lm/ft | 1176 lm/ft |
|                    | 3500K | 1         | 0.83   | 1680 lm/ft            | 1394 lm/ft | 1400 lm/ft | 1162 lm/ft |
|                    | 3000K | 0.97      | 0.81   | 1630 lm/ft            | 1361 lm/ft | 1358 lm/ft | 1134 lm/ft |
|                    | 2700K | 0.94      | 0.79   | 1579 lm/ft            | 1327 lm/ft | 1316 lm/ft | 1106 lm/ft |
| LH<br>(high)       | 4000K | 1.02      | 0.84   | 1446 lm/ft            | 1191 lm/ft | 1157 lm/ft | 953 lm/ft  |
|                    | 3500K | 1         | 0.83   | 1418 lm/ft            | 1177 lm/ft | 1134 lm/ft | 941 lm/ft  |
|                    | 3000K | 0.97      | 0.81   | 1375 lm/ft            | 1148 lm/ft | 1100 lm/ft | 919 lm/ft  |
|                    | 2700K | 0.94      | 0.79   | 1332 lm/ft            | 1120 lm/ft | 1066 lm/ft | 896 lm/ft  |
| LS<br>(standard)   | 4000K | 1.02      | 0.84   | 729 lm/ft             | 601 lm/ft  | 597 lm/ft  | 491 lm/ft  |
|                    | 3500K | 1         | 0.83   | 715 lm/ft             | 593 lm/ft  | 585 lm/ft  | 486 lm/ft  |
|                    | 3000K | 0.97      | 0.81   | 694 lm/ft             | 579 lm/ft  | 567 lm/ft  | 474 lm/ft  |
|                    | 2700K | 0.94      | 0.79   | 672 lm/ft             | 565 lm/ft  | 550 lm/ft  | 462 lm/ft  |

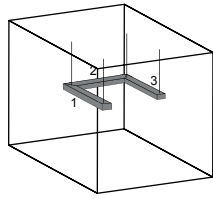
## Mounting

(S)  
Aircraft Cable(P)  
Rigid Stem(PV)  
Swivel Stem(J)  
Span(JS)  
Partial Span

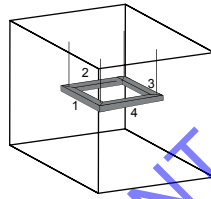
## Standard patterns



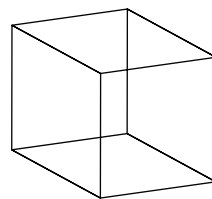
(PL)



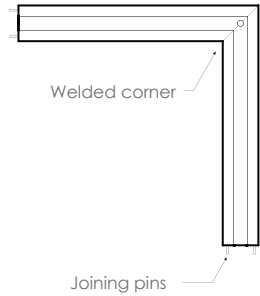
(PU)



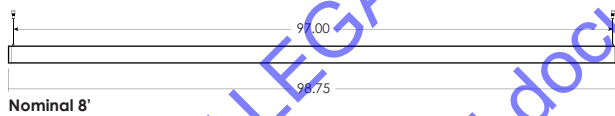
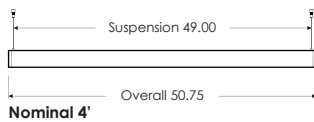
(PR)



(CP)



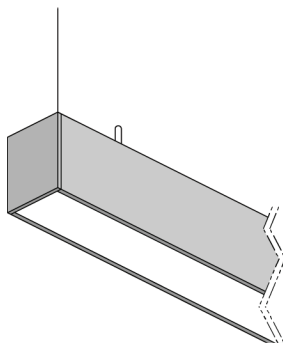
## Mounting lengths



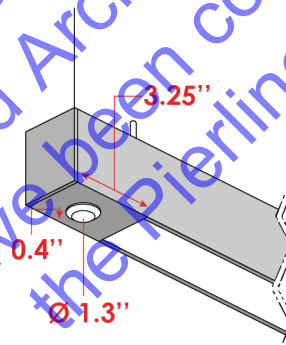
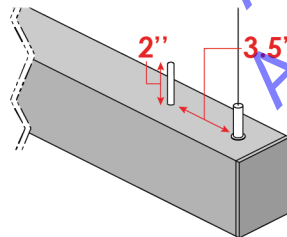
## NLight dimensions

AIR : r10

AIR : res7



\*Fixture mounted module for nLight AIR only.



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

Project name

Type

Date

Quantities

## LINEAR DIMENSIONS

Nominal or exact lengths to the nearest 1/8th of an inch available as individual fixtures or joined to create continuous row lengths. Patterns comprised of 90 degree precisely welded fully illuminated corners provide a multitude of geometric options and architectural transitions.

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

## OPTICS

A rigid partially diffuse extruded dust cover lens optimized for indirect LED performance delivers 92% transmittance.

## 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, High, and Very High outputs. Refer to photometry for delivered lumens. Custom tuning available between LS and LVH for symmetric wide.

## 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 2 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 rLO, 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 nLO EZ PH, nLO 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 or pendant stems, and full or partial span mounting available.

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.

Rigid pendant stem set includes 1/4" hollow white threaded rod for suspension and power feed, standard specification length, 6" minimum and up to 98" maximum. Anything longer will be made up of multiple stems with couplers, provided by factory. 5" square mono point white canopies.

Swivel stem set includes 1/4" hollow white threaded rod for suspension and power feed, standard specification length, 6" minimum and up to 98" maximum. Anything longer will be made up of multiple stems with couplers, provided by factory; longer stems that require couplers are not recommended to be installed in direct contact with wind that will create a swivel. 5" square mono point white 45 degree angle swivel stem.

Specify if other suspension length is required. Canopies provided as required for quantity of power feed and non power feed locations (crossbar included with powerfeed canopy only). Specify if other shape, size, or color is required.

Partial /Full span mounting conditions utilize special expansion joint end caps to mount fixture to wall (blocking required) and feed power through the end cap, specify end feed location. Additional attachment hardware provided as required depending on partial span condition. Provide architectural details at time of ordering for inclusion in factory shop drawings; field verified dimensions required for full span mounting.

#### 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

UL/CUL rated for Damp Locations. Tested in accordance with UL 1598 and certified to CEC/CSA C22.1, NEC, ANSI/NFPA 70, and NOM-001-SEDE.

The G1 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

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

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