D5 Series
Specification Guide

Project:

Type:

accolade[5]
Direct Recessed Luminaire

LENGTH:

- ☐ **2 = 2' Individual Fixture**
- ☐ **3 = 3' Individual Fixture**
- ☐ **4 = 4' Individual Fixture**
- ☐ **6 = 6' Individual Fixture**
- ☐ **8 = 8' Individual Fixture**
- ☐ **9 = 9' Individual Fixture**
- ☐ **12 = 12' Individual Fixture**

60% Recycled, Extruded Aluminum Housing.

All fixture lengths vary by ceiling type.

***Our flanges and cut lengths are specific to each ceiling type and cannot be interchanged.

T-Bar ceiling fixtures will be sized to the specific type of T-Bar (1", ½" or slot).

T-Bar ceiling fixtures will remain 4', 8' or 12' on center no matter which T-Bar type - we adjust size to fit. Due to these minute size differences, do not expect to be able to change any ceiling types mid-order.

Gyp board and trim flanged fixtures vary in length depending on end-to-end lamping or staggered lamping. See single fixture chart below for cut-out lengths/widths.

☐ **R _____ = Row + Length**

Indicate if row length is: Nominal or Exact

Please enter a ***row*** length. Fixtures longer than 12ft require a row, which consists of seamlessly linked housings. Indicate if your length is nominal and may be altered for optimal lamp spacing/distribution or if length must be exact and cannot be altered. If a *luminous* length is of primary importance, indicate this length in addendum. Rows longer than 36' require at least 2 powerfeed entry points. ***WET LOCATION NOT AVAILABLE FOR ROWS. CHOOSE RUN BELOW*** When specifying MR16's in a row, include entire row length here, including the MR16 modules. Detail MR16 placement in special MR16 addendum. Detail row configuration in addendum and contact factory to work out row requirements. Non-standard rows will require submittal drawings. Request from factory standard row lengths available for your particular ceiling type if faster delivery is preferred.

☐ **G _____ = Run + Length**

Indicate if run length is: Nominal or Exact. Add spacing into run length and indicate spacing requirements in addendum.

Please select a ***run*** length. A run is 2 or more individual fixtures (up to 12ft each), each with endcaps, strung together via external wire connections. Excluding the first and last endcap in the run, each endcap contains a threaded hole. Installer is to wire fixtures together and provide waterproof connections if the run is for wet location. MR16's not available if run is to be wet location rated. Detail run configuration in addendum and contact factory to work out run requirements. Include spacing requirements between individual fixtures in the total length and detail in addendum. Runs will require submittal drawings.

☐ **L = "L" Shape**

Standard "L" shape. Fixture spans vertically from wall into the ceiling. See special "D5L" cut sheet to specify. Consult factory.

☐ **P = Pattern**

Select Pattern when creating any design formed with angles or corners besides the standard "L". See special "D5P" cut sheet to specify. Consult factory.

CUT-OUT LENGTHS: Staggered VS. End-to-End

accolade[5] *Single Fixture* Cut-Out Lengths

For rows, consult factory for separate installation documents with specific cut-out lengths & configurations per row.

Using recommended lamping

Mounting Description	Cut-Out Width	2ft Singles	3ft Singles	4ft Singles	6ft Singles	8ft End-to-End (2) 4ft lamps	8ft Staggered (3) 3ft lamps	12ft End-to-End (3) 4ft lamps	12ft Staggered (5) 3ft lamps
Cut-Out Lengths and Widths for Gyp and Trim Flanges									
Gyp Board "G"	Min = 3.8" Max = 4"	Min = 22.562" Max = 22.812"	Min = 34.375" Max = 34.625"	Min = 46.25" Max = 46.5"	Min = 68.562" Max = 68.812"	Min = 92.281" Max = 92.531"	Min = 95.063" Max = 95.313"	Min = 138.353" Max = 138.603"	Min = 143.063" Max = 143.313"
Trim Flange "XP"	Min = 3.8" Max = 4"	Min = 22.562" Max = 22.812"	Min = 34.375" Max = 34.625"	Min = 46.25" Max = 46.5"	Min = 68.562" Max = 68.812"	Min = 92.281" Max = 92.531"	Min = 95.063" Max = 95.313"	Min = 138.353" Max = 138.603"	Min = 143.063" Max = 143.313"
Spacing Lengths and Widths for T-Bar Flanges Our TBar fixtures are cut relative to each standard T-Bar mounting system & based on the T-Bar placed exactly 4, 8 or 12ft on center. Be advised that the WIDTH of any T-Bar opening is based on the distance between T-Bar EDGE to EDGE, NOT center to center, & must be exact.									
1/2" TBar "T"	3.57" edge-to-edge	2' on center	3' on center	4' on center	6' on center	8' on center	8' on center	12' on center	12' on center
1" TBar "X"	3.57" edge-to-edge	2' on center	3' on center	4' on center	6' on center	8' on center	8' on center	12' on center	12' on center
9/16" Slot Tbar "N"	3.57" edge-to-edge	2' on center	3' on center	4' on center	6' on center	8' on center	8' on center	12' on center	12' on center

LAMPING:

- ☐ **S = 1 lamp in cross section, end-to-end** - standard T5 linear fluorescent
- ☐ **H = 1 lamp in cross section, end-to-end** - high output T5 linear fluorescent
- ☐ **D = 2 lamps in cross section, side-by-side** - standard T5
- ☐ **O = 2 lamps in cross section, side-by-side** - high output T5
- ☐ **2 = *Staggered* - 1 lamp in cross section** - standard T5
- ☐ **4 = *Staggered* - 1 lamp in cross section** - high output T5
- ☐ **3 = MR16 module – use 35w aluminized back or 37w IR lamping. Nominal length 6", but will vary according to row length requirements. Fill out MR16 addendum.**

Read & fill out MR16 addendum in addition to the cut sheet.

- Specify overall row length when using MR16's.
- Include total of all MR16 modules in a row.
- Each module contains 1 lamp.
- Must use 35w aluminized backed lamp or 37w IR lamp.
- Usage of glass enclosed MR16 lamps w/ aluminized backing is industry standard for enclosed fixtures.
- We recommend glass enclosed 37w IR lamps.
- Use a 37w IR as an alternate to a 50w normal MR16.

T5	Watts	Input Power/ANSI Watts @120v		Initial Lumens
2ft	14W	1 Lamp = 18	2 Lamps = 34	1350
3ft	21W	1 Lamp = 25	2 Lamps = 49	2100
4ft	28W	1 Lamp = 33	2 Lamps = 66	2900
5ft	35W	1 Lamp = 40	2 Lamps = 81	3650

N/A

T5HO	Watts	Input Power/ANSI Watts @120v		Initial Lumens
2ft	24W	1 Lamp = 28	2 Lamps = 53	2000
3ft	39W	1 Lamp = 47	2 Lamps = 89	3500
4ft	54W	1 Lamp = 63	2 Lamps = 120	5000
5ft	80W	1 Lamp = 91	2 Lamp = n/a	7000

Lamps are not included. Please order separately.

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VOLTAGE

☐ **U = UNIVERSAL (STANDARD)** 120-227V universal, low profile electronic, high power factor, sound rating A, < 10% THD, inherent thermal protection, UL listed Class P. Meets FCC CFR for standard radio frequency and electro-magnetic interference. Further filtering may be available.

☐ **1 = 120 VOLT** Always specify voltage when dimming ballast is required.

☐ **2 = 277 VOLT** Always specify voltage when dimming ballast is required.

☐ **3 = 347 VOLT**

DOWN LIGHT SHIELDING:

☐ **P = a·p a r a b o l a ™ Parabolic Louver** Offers unprecedented performance from a small 3" aperture. Engineered for precise parabolic distribution from specially treated 1510 G2 aluminum creating a low, even brightness for visual comfort. Use in 1 lamp in cross section only. 2ft length louver *is* available.

☐ **W = Wall Wash a·p a r a b o l a ™ Parabolic Louver** Wall wash version of the a·parabola™. Mount luminaire approximately 18" to 24" from wall to achieve most effective wall washing to floor. Use in 1 lamp in cross section only. 2ft length louver *is* available.

☐ **T = Two Lamp Parabolic Louver** Use with 1 or 2 lamps in cross section only, not staggered. Engineered for precise parabolic distribution from specially treated 1510 G2 aluminum creating a low, even brightness for visual comfort. 2ft length louver *is not* available.

☐ **A = a·c i r r u s ™** Opal acrylic diffuser panel, inserted into a clear acrylic , captive extruded lens flush to housing bottom. Shields lamp from view creating soft illumination from below. The a·cirrus™ lens is a unique presentation of a diffusing medium trimmed in light. 65% transmissive. Use any lens for Natatorium (damp location) or Wet Location Options.

☐ **L = Lex-Efx™** Circular, perforated screen print pattern on diffuse acrylic panel, inserted into a clear acrylic, captive extruded lens flush to housing bottom. Shields lamp from view and reflects light up for increased up light. 50% transmissive. Use any lens for Natatorium (damp location) or Wet Location Options.

☐ **H = H T L O ™** High transmission lamp obfuscating lens panel, inserted into a clear acrylic, captive extruded lens flush to housing bottom, produces a crystalline silken appearance. Consists of a 93% transmissive material that spreads light across the entire surface, maintaining high light output while creating an even glow. Use any lens for Natatorium (damp location) or Wet Location Options. *Not recommended for use with staggered lamping.*

☐ **S = W I S P ™** Whiter shade of pale, captive extruded lens is flush to housing bottom and reveals a sheer, frosted pattern on opal acrylic, appearing as a light, even snowfall on ice. 75% transmissive. Use any lens for Natatorium (damp location) or Wet Location Options.

☐ **R_____ = ½" Regressed Lens + choose your lens insert** Choose any of the above 3 lenses, a·cirrus, **Lex-Efx** or **H T L O** inserted into a clear acrylic, captive extruded lens that is *regressed into the standard housing ½"*. Resulting nomenclature should be "RA", "RL", or "RH". Use any lens for Natatorium (damp location) or Wet Location Options.

☐ **K_____ = a·w a s h ™ + choose your lens insert** Internal wall-wash kicker with lens. For spaces where a lens is preferred but wall-wash distribution or focused distribution on an object or area is required. Choose any of the above 4 lenses, a·cirrus, **Lex-Efx,** H T L O, or **W I S P.** Resulting nomenclature should be "KA", "KL", "KH" or "KS".

☐ **ZW = Parabolic *White* Louver** The FIT™ flat top parabolic louver, painted satin white, for use with 1 or 2 lamps in cross section. Engineered for precise parabolic distribution from specially treated 1510 G2 aluminum, painted satin white, creating a low, even brightness for visual comfort. 2ft length louver *is not* available.

☐ **ZA = Parabolic *Aluminum* Louver** The FIT™ flat top parabolic louver, aluminum matte specular material, for use with 1 or 2 lamps in cross section. Engineered for precise parabolic distribution from specially treated 1510 G2 aluminum creating a low, even brightness for visual comfort. 2ft length louver *is not* available.

☐ **ZW____ = a·l e n s z i l l a ™** *white* louver/baffle **+ choose your lens insert** *White* louver/baffle designed specifically to hold a thin lens overlay above baffle, for obfuscation of the lamp image from below while still retaining louver benefits. Choose either the a·cirrus lens at 65% transmissiveness or the **H T L O** at 93% transmissive level. Resulting nomenclature should be "ZWA" or "ZWH". Louver combination with the HTLO lens is recommended as it has a high transmission value. Louver/lens combos are not rated for wet location. 2ft length louver *is not* available.

☐ **ZA____ = a·l e n s z i l l a ™** *aluminum* louver/baffle **+ choose your lens insert** *Aluminum* louver/baffle designed specifically to hold a thin lens overlay above baffle, for obfuscation of the lamp image from below while still retaining louver benefits. Choose either the a·cirrus lens at 65% transmissiveness or the **H T L O** at 93% transmissive level. Resulting nomenclature should be "ZAA" or "ZAH". Louver combination with the HTLO lens is recommended as it has a high transmission value. Louver/lens combos are not rated for wet location. 2ft length louver *is not* available.

☐ **MA _____ = *Adjustable* MR16 Module** Indicate quantity of modules *per row* after the "M" nomenclature. i.e. M1, M2, M3, etc. Each 35w or 37w lamp module is typically approx. **6"** long, but length will vary according to row length up to 18". The heavy-duty, milled steel plate module is powder coated to match fixture with one milled, recessed cutout for flush, gimbaled mounting. Lamps are not included. ** Industry standard dictates the usage of glass enclosed MR16 lamps with ***aluminized backing*** in any enclosed luminaire. Must use either the 35w aluminized backed lamp or the 37w IR. We recommend the 37w IR lamp for decreased energy consumption. Read the lamp manufacturers technical data prior to installing any lamp to be certain it may be applied in enclosed luminaires. Read **MR16 Addendum** for assistance with specific lamp manufacturer model recommendations. Specifier must fill out **MR16 Addendum** to address module placement within row and other specific related items. MR16 modules are not rated for wet location.

☐ **C = Custom Distribution** Consult factory with your requirements/specification.

MOUNTING:

☐ **G = Gyp Board/Hard Ceiling** No visible flange. Fixture flange is attached to blocking for support. Contractor is to mud and paint direcly over flange so as to ensure a smooth finish right up over housing edge. Housing & flange are not painted as they are not visible.

☐ **T = 1/2" Standard T-Bar Ceiling** No visible flange. 0.3" flange sits on T-Bar. Housing lengths and flange are designed specifically for the ½" Standard T-Bar and cannot be interchanged with another T-Bar system. Housing & flange are not painted as they are not visible.

☐ **X = 1" Standard T-Bar Ceiling** No visible flange. 0.5" flange sits on T-Bar. Housing lengths and flange are designed specifically for the 1" Standard T-Bar and cannot be interchanged with another T-Bar system. Housing & flange are not painted as they are not visible.

☐ **XP = Trim Flange** Visible, powder coated flange extending 0.5" from outside housing. Choose flange color below, housing & flange are painted. Apply in wood or metal ceilings, slot ceilings, or a gyp ceiling where visible trim is required. May be mounted via threaded rod to structure, via tie-off cables or our own a·c l a m p ™ system which holds down tiles, gyp or slats in place where blocking is not possible. Please request the a·c l a m p ™ system on your RFQ and PO as tie-off cables/threaded rod mounting will be assumed otherwise.

☐ **N = Slot 9/16" T-Bar** No visible flange. Regressed 0.3" flange sits on T-Bar top, while housing continues below to meet T-Bar flush at bottom. Housing lengths and flange are designed specifically for the 9/16" *Slot* T-Bar and cannot be interchanged with another T-Bar system. Housing & flange are not painted as they are not visible.

☐ **Z = Shadow Molding/Gyp Board** Lines & washes wall. Dual sided: Satin black shadow-molding flange + gyp flange (no visible trim-see "G").

☐ **Y = Shadow Molding/1/2" T-Bar** Lines & washes wall. Dual sided: Satin black shadow-molding flange + 1/2" T-Bar flange (no visible trim-see "T").

☐ **U = Shadow Molding/1" T-Bar** Lines & washes wall. Dual-sided: Satin black shadow-molding flange + 1" T-Bar flange (no visible trim-see "X").

☐ **E = Hidden Grid Ceiling** Consult Factory.

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☐ **RG = Regressed Gyp Board Housing** Housing height increases by 1". New height of housing is now 4-1/2". Baffle is regressed into housing approximately 1". Choose flange color below, housing & flange are painted.

☐ **D = Decoustic Ceilencio™ Concealed Grid** Made by Decoustics, the Ceilencio™ custom hidden grid ceiling allows panels to be snapped in via a spring mechanism, allowing an unlimited number of panel heights and types. In order to calculate where our flange should be affixed to create a flush appearance, we require the following information: Panel name and panel height:_____. Please submit a spec file on the specific panel. Engineering drawings are required for confirmation as once the flanges are affixed, they cannot be interchanged with other panel types or heights.

☐ **C = Custom Mounting** Custom mounting and patterns may be specified, please consult factory.

Consult page 1 of this document as well as installation documents for further cut-out lengths and specifics.

Mounting must be coordinated with ceiling contractor. All housings are made specifically to ceiling type.

FINISH:

Finish is electrostatically applied TGIC powdercoat paint, which involves an environmentally friendly paint process.

☐ **T =** a·light anium™ powder coat paint is standard. Color is a rich, warm, matte, metallic color; the color of titanium metal. See the painted round plate located in a·catalog™.

☐ **W = Satin White** Color is T002-WH08 in Cardinal Color Product Guide (20% gloss) Standard for T-Bar ceiling mounting.

☐ **L = Gloss White** Color is T009-WH11 in Cardinal Color Product Guide (90% gloss)

☐ **B = Satin Black** Color is T002-BK08 in Cardinal Color Product Guide (20% gloss)

☐ **E = Textured Eggshell Satin White** Color is T032-WH15 in Cardinal Color Product Guide (15% gloss)

☐ **A = Anodized** Consult factory and specify color _____.

☐ **O = Other existing powder color** Choose another existing powder color from the Cardinal catalog or other powder manufacturer RAL# _____. Call for pricing and availability.

☐ **C = Custom Finish** Custom manufactured color. Call for pricing. Custom finishes require several weeks of lead time for color matching and approval processes. Customer is required to send factory two non-returnable samples of the painted product that is to be matched. IE: Piece of painted window mullion; or sample painted with actual wall paint desired to match. Manufacturer color swatches are not acceptable as they are not as accurate as the actual paint. Color matching is not guaranteed. A set-up fee will be charged regardless of whether the customer approves the custom finish.

Finish applies only to XP Trim Flange or RG Regressed Gyp. Shadow molding flange is always satin black. All others unpainted as flange doesn't show.

OPTIONS:

☐ **D = DIMMING – Specify manufacturer here. Add required voltage.**

☐ Advance Mark VII 0-10v	T5HO lamping only (F54watt) or F80watt: only1lamp 277volt available)	☐ 120V	☐ 277V
☐ Advance Mark X Powerline	T5HO lamping only (F54watt)	☐ 120V	☐ 277V
☐ Lutron ECO 10	T5 standard (F28watt) or T5HO lamping (F54watt)	☐ 120V	☐ 277V
☐ Lutron Hi Lume	T5HO lamping only (F54watt)	☐ 120V	☐ 277V

☐ **E = EMERGENCY – Illumination Time 90 minutes. Specify ballast or lumens desired, otherwise ISL-28 or ISL-54 will be chosen.**
***Emergency ballast is not available on 3-foot or less housing lengths due to space restrictions.**

☐ Iota ISL-28	T5 standard only	☐ 500 lumens	
☐ Iota ISL-54	T5 standard or T5HO	☐ 825 lumens	
☐ Iota ISL-540	T5 standard or T5HO	☐ 1300 lumens	☐ NightLight
☐ Bodine LP500	T5 standard only	☐ 520 lumens	☐ Switched
☐ Bodine LP550	T5 standard or T5HO	☐ 700 lumens	
☐ Bodine LP600	T5 standard or T5HO	☐ 1325/1250 lumens	

☐ **F = External Fusing** For those that require external fusing in addition to the internal fusing already inherent in the ballasts.

☐ **M = Multi-Circuit** Specify location of A/B circuiting _____. Multi-circuiting is standard on all MR16's in a row.

☐ **N = New York City Code** Specify if fixtures will be installed in New York City. This will inform us ahead of time to build with proper gauge steel and schedule required union drivers for delivery.

☐ **C = Chicago Plenum Code** Specify if fixtures will be installed in city of Chicago. Recessed housing is rated for Chicago Plenum code.

☐ **O = Occupancy/Daylight Sensor** Consult factory with part number of sensor desired.

☐ **K = Natatorium** Rated for Damp Location. Must use Flush Lens: **"A", "L" , "H" or "S";** or Regressed Lens: **"RA", "RL" , "RH" or "RS"** in Downlight Shielding nomenclature.

☐ **W = Wet Label** Rated for Wet Location. Must use Flush Lens: **"A", "L" , "H" or "S";** or Regressed Lens: **"RA", "RL" or "RH"** in *Downlight* Shielding nomenclature. Lens will be gasketed for wet location specification. *Wet location rating is only available for single fixtures up to 12ft in length* - ***not available for seamless rows or MR16 applications***. Specify RUN as noted in LENGTH specification on page 1 if wet location is required and connected single fixtures via external wiring is acceptable. On RUNS, installer is required to provide waterproof connectors between each individual fixture.

a·note:

a·light strives to offer our customers the best possible products and the most relevant and helpful information about said products. Thus, we reserve the right to change, without notice, specifications or materials, as well as to update our technical sheets with more specific information to aid in specification. Specification guides such as this document, installation guides and cut sheets that appear on www.alights.com are the most recent version and supersede all other versions that exist in any other printed or electronic form.

SPECIFIER ADDENDUM NOTATIONS: