

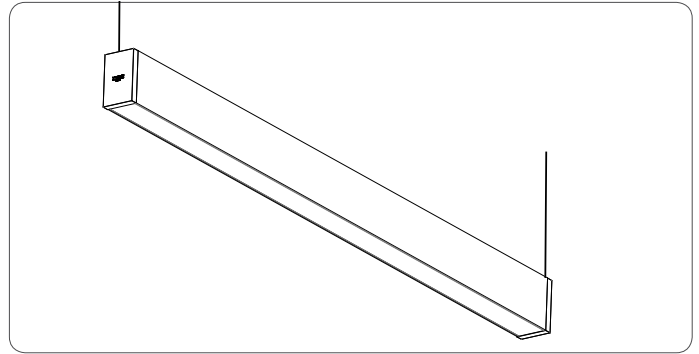
● PROJECT INFORMATION

Project:

Type:

Notes:

REVIT files are available for download at www.axislighting.com



● PRODUCT ORDERING CODE

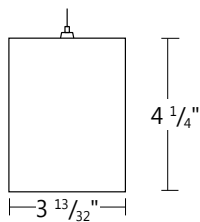
| product id | optics direct | optics indirect | length/ft | lamp | lamp config. | MR16 | finish | voltage | ballast | circuits | suspension/ mounting | other | controls | custom |
|--------------------|--|---------------------|---|-----------------------|-----------------------|---|---|--|---------|---|--|---|----------|----------------------------------|
| BDI | | | | T5 | | | | | | | | | | |
| | S satin lens F frosted lens | | 2 3 4 5 6 8 12 S# system | I +S | one lamp staggered | | W white AP alu. paint C custom | ERS rapid start D dimming T step dimming *See Ballast Guide for further details. | | | CA# cable (36" std) CT# cable/t-bar (36" std) SA# stem (18" std) +SM seismic option *See Ceiling Mounting Guide for further details. | DS daylight OS occ DS+OS daylight+occ. DOS daylight&occ *See Integrated Controls Guide for further details. | | |
| BDI pendant | | C clear lens | | T5 | | MR16# MR16 halogen MR16LED# MR16 LED (add 9" per lamp) *For more details see page 2 | | UNV 120 277 347* *Please consult factory | | 1 one circuit 2 two circuits +E em. circuit +M +MR16 | | B# batt. pack (specify details) F fuse | | C custom (describe below) |

Dimming Ballast, Battery Pack and Integrated Control Details:

Custom Description:

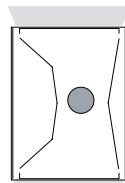
i Specification sheets for other lamping are available for download at www.axislighting.com

● DIMENSIONS

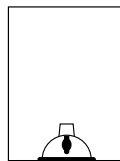


● LAMPING CONFIGURATIONS

MR16 DIRECT



I T5



MR16

CONSTRUCTION

| | |
|--------------------------|--|
| Housing | Extruded Aluminum (0.09" nominal) 70% Recycled Content |
| End Cap | Die Cast Zinc (0.060" nominal) |
| Interior Brackets | Die Formed Sheet Steel (18 gauge) |
| Reflectors | White Powder Coated Sheet Steel (22 ga) |
| Louvers | Die Formed Semi-Specular Aluminum (22 ga) |
| White Louver | Die Formed Aluminum Painted White (22 ga) |
| Blank | Extruded Aluminum (0.075" nominal) |
| Lenses | Extruded Acrylic (0.070" nominal) Satin: 68% trans. Frosted: 85% trans. |
| Hanger | Die Formed Sheet Steel (16 gauge) |
| Suspension | Aircraft Cable or Ø 1/2" Stem |
| Cable Grips | Quick Connecting / Release |

WEIGHT

| | |
|--------------|--------------------|
| 4 ft | 11.1 lbs / 5.0 kg |
| 8 ft | 22.2 lbs / 10.1 Kg |
| 12 ft | 33.3 lbs / 15.1 kg |

SYSTEM (S#)

BEAM DI linear systems, with the use of a strong profile, allow for a nearly hair thin connection system of continuous runs. Lengths of 4', 8', 12' as well as custom lengths are available. Runs of BEAM DI that are greater than 12ft in length are designated as systems (S#). This means that the run is comprised of a combination of 4ft, 8ft and/or 12ft sections to be assembled on site using our joining system. For more information on systems and joining, please refer to the BEAM installation sheets available for download at www.axislighting.com.

ELECTRICAL

| | |
|--------------------------|--|
| Ballast | Electronic rapid start, Dimming (0-10V, Line, Step, EcoSystem, DALI) With preinstalled ballast quick disconnect as per NEC & CEC |
| Emergency Voltage | Emergency battery pack or emergency circuit 120V, 277V, 347V, UNV. |

i Incorporating these components may have limitations or effect the length of the luminaire, please contact factory for more details.

FINISH

Aluminium paint, Powder Coated and custom finishes are also available.

APPROVALS

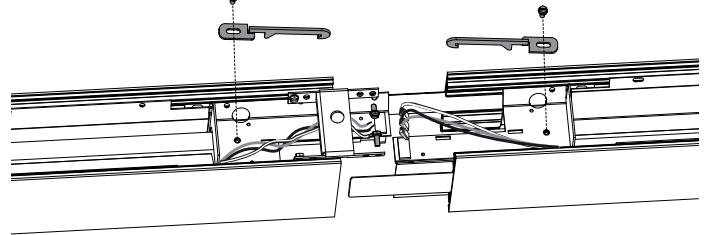
Certified to UL and CUL standards 
Meets NYC requirements

OPTICS

SATIN & FROSTED LENS
(acrylic snap-in lens)
satin: 68% transmissive
frosted: 85% transmissive

JOINERS

In order to allow very long runs of BEAM DI luminaires, Axis has developed an effective joining system. Special care has been taken to maximize the performance of the joiner for each BEAM option.



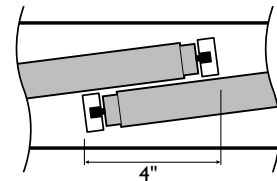
NOTE: Hang each system segment individually. Do not assemble system prior to hanging.

STAGGERED LAMPING

When the BEAM DI is used in continuous runs longer than 4', staggered lamping can be used to eliminate the appearance of socket shadows at the ends of the lamps. The BEAM DI uses a overlap of 4" and 4' lamps, allowing us to match almost any row length requirements with optimal results.

| LAMP TYPE | T5 | T5HO |
|-----------|----|------|
| I lamp | • | • |

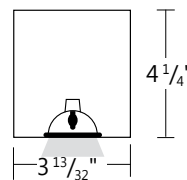
Staggered 1 Lamp



MR16

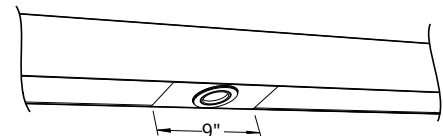
Blank
MR16 Halogens
MR16 LED
Spacing

Extruded Aluminum (0.075" nominal)
2.0" diameter (35W / 50W)
2.0" diameter
Each MR16 is placed centered on a blank section 9" in length.

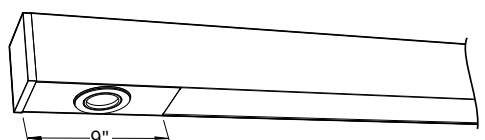


For a series of MR16's within a given section length, they will be spaced evenly on a longer blank section. The directed light of MR16 Halogen lamps are fixed downward. Custom spacing may be available on special request. *Please consult factory

**Between
fluorescent
lamps sections**

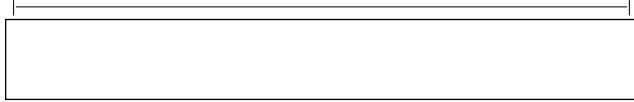


**At luminaire
ends**

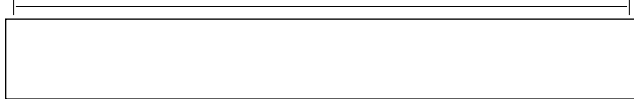


● MOUNTING SPACING END TO END

| | | |
|---------------------|-----|--|
| T5/T5HO LAMP | 4' | (46 ⁵ / ₁₆ " C.C.) |
| | 8' | (92 ⁵ / ₈ " C.C.) |
| | 12' | (138 ¹⁵ / ₁₆ " C.C.) |

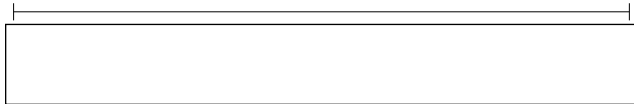


| | | |
|----------------|-----|-------------|
| T8 LAMP | 4' | (48" C.C.) |
| | 8' | (96" C.C.) |
| | 12' | (144" C.C.) |



● MOUNTING SPACING STAGGERED

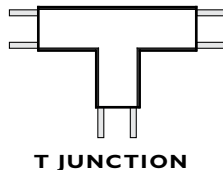
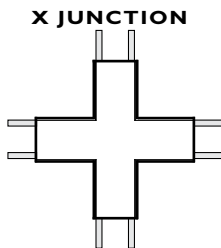
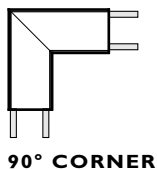
| | |
|---|--|
| T5/T5HO 1 LAMP | |
| 8' 3X3' (95 ¹ / ₂ " C.C.) | |
| 12' 3X4' (130 ¹⁵ / ₁₆ " C.C.) | |



i Row configuration and mounting spacing file is available for download at: www.axislighting.com

● CORNERS

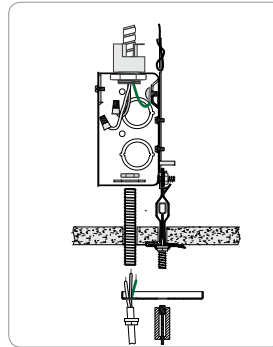
UNLIT CORNERS - BEAM DI features a multitude of layout patterns with the use of a number of corners. Custom corners include:



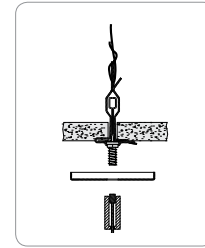
i Specifications sheets for all corners are available at: www.axislighting.com

● MOUNTING OPTIONS

CT TILE CEILING - ON GRID

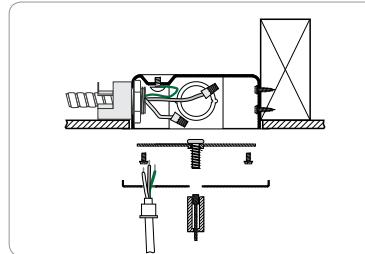


Power feed

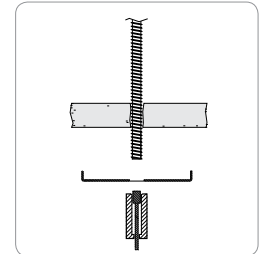


Non power feed

CA DRYWALL CEILING

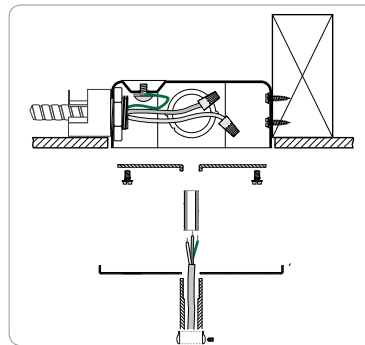


Power feed

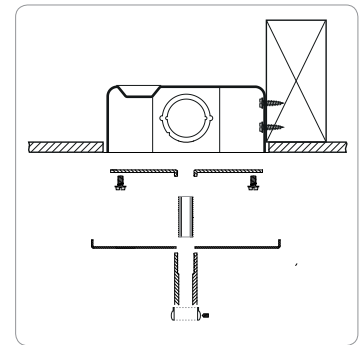


Non power feed

SA STEM MOUNT IN DRYWALL CEILING



Power feed



Non power feed

● OTHER MOUNTING OPTIONS

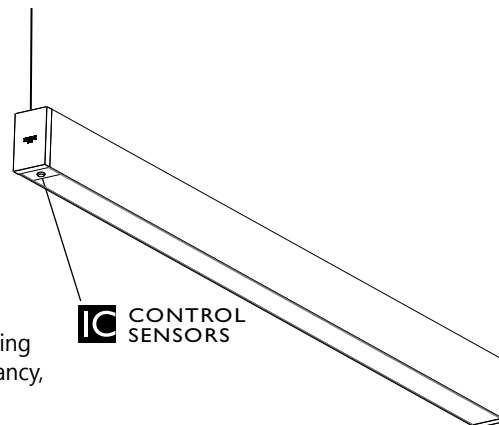
BEAM DI is also available with wall mounted option.

i Specification sheets and Installation sheets for all mounting for BEAM luminaires are available for download at www.axislighting.com

● INTEGRATED CONTROL OPTIONS

BEAM DI luminaires allow the use of integrated controls such as daylight sensors (DS), occupancy sensors (OS), individual daylight sensors and occupancy sensors (DS+OS), and combination daylight/occupancy sensors (DOS). These options can be seamlessly integrated into our luminaires. The control system could be used to optimize the lighting of the space by reducing energy consumption through daylight harvesting and occupancy, thereby improving the overall interior environment and allowing for LEED credits.

- Consult factory for other options.
- Refer to IC brochure for more information.

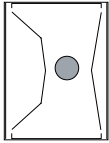


IC CONTROL SENSORS

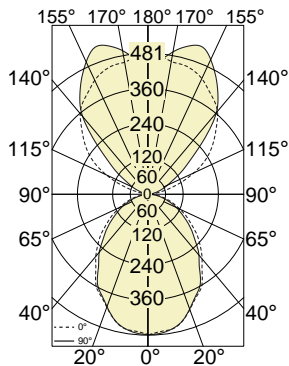
| SENSORS | BRAND | Model | TYPE | CODE | COMPATIBLE DIMMING BALLAST |
|------------------------------------|-------------|-----------|--------------------------|------|----------------------------|
| Daylight Sensor (DS) | Lutron | EC-DIR-WH | Daylight | LD | EcoSystem |
| | Wattstopper | FD-301 | Daylight | WD | 0-10V |
| | Philips | Luxsense | Daylight | PL | 0-10V |
| Occupancy Sensor (OS) | Wattstopper | FS-205 | PIR Occupancy | WP1 | Programmed Rapid Start |
| | | FS-355 | PIR Occupancy | WP2 | Programmed Rapid Start |
| | | FS-155 | PIR Occupancy | WP3 | Programmed Rapid Start |
| | | FS-505 | Ultrasonic Occupancy | WU1 | Programmed Rapid Start |
| | | FS-505C | Ultrasonic Occupancy | WU2 | Programmed Rapid Start |
| | | FM-105 | High Frequency Occupancy | WH | Programmed Rapid Start |
| Daylight & Occupancy Sensors (DOS) | Philips | Actilume | Daylight & PIR Occupancy | PA | DALI or 0-10V |

● PHOTOMETRIC DATA

I T5



PHOTOMETRIC CURVE



Test Lamp: 1xT5

IES FILE: BDI-F-C-4-T5-1

Efficiency: 81.0%

CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angles | | | | | Zonal Lumens |
|----------------|-------------------|------|-----|------|-----|--------------|
| | 0 | 22.5 | 45 | 67.5 | 90 | |
| 0 | 484 | 484 | 484 | 484 | 484 | |
| 5 | 474 | 475 | 474 | 478 | 481 | 26 |
| 15 | 451 | 450 | 445 | 440 | 450 | 108 |
| 25 | 389 | 394 | 390 | 390 | 384 | 169 |
| 35 | 319 | 322 | 320 | 310 | 303 | 197 |
| 45 | 250 | 249 | 239 | 229 | 225 | 190 |
| 55 | 178 | 174 | 167 | 162 | 158 | 160 |
| 65 | 115 | 115 | 109 | 103 | 101 | 119 |
| 75 | 64 | 62 | 58 | 54 | 52 | 73 |
| 85 | 19 | 20 | 16 | 15 | 14 | 29 |
| 90 | 2 | 1 | 1 | 0 | 0 | |
| 95 | 5 | 4 | 3 | 2 | 2 | 2 |
| 105 | 65 | 46 | 30 | 26 | 23 | 27 |
| 115 | 165 | 153 | 92 | 68 | 65 | 88 |
| 125 | 258 | 280 | 210 | 152 | 138 | 168 |
| 135 | 329 | 380 | 350 | 297 | 270 | 241 |
| 145 | 393 | 440 | 454 | 429 | 415 | 273 |
| 155 | 437 | 473 | 512 | 510 | 508 | 242 |
| 165 | 462 | 479 | 502 | 520 | 530 | 166 |
| 175 | 476 | 475 | 478 | 481 | 469 | 69 |
| 180 | 472 | 472 | 472 | 472 | 472 | |

COEFFICIENTS OF UTILIZATION (%)

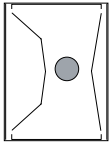
| Ceiling | 80 | | | | 70 | | | | 50 | | | |
|---------|----|----|----|----|----|----|----|----|----|----|----|--|
| Wall | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | |
| 0 | 86 | 86 | 86 | 86 | 79 | 79 | 79 | 79 | 66 | 66 | 66 | |
| 1 | 79 | 75 | 72 | 69 | 72 | 69 | 67 | 64 | 58 | 56 | 54 | |
| 2 | 72 | 66 | 61 | 57 | 66 | 61 | 57 | 53 | 51 | 48 | 45 | |
| 3 | 66 | 58 | 52 | 48 | 60 | 54 | 49 | 45 | 45 | 41 | 38 | |
| 4 | 60 | 52 | 45 | 41 | 55 | 48 | 42 | 38 | 40 | 36 | 33 | |
| 5 | 55 | 46 | 40 | 35 | 51 | 43 | 37 | 33 | 36 | 32 | 28 | |
| 6 | 51 | 41 | 35 | 30 | 47 | 38 | 33 | 28 | 33 | 28 | 25 | |
| 7 | 47 | 37 | 31 | 27 | 43 | 35 | 29 | 25 | 30 | 25 | 22 | |
| 8 | 44 | 34 | 28 | 24 | 40 | 32 | 26 | 22 | 27 | 23 | 20 | |
| 9 | 41 | 31 | 25 | 21 | 37 | 29 | 24 | 20 | 25 | 21 | 18 | |
| 10 | 38 | 28 | 23 | 19 | 35 | 27 | 21 | 18 | 23 | 19 | 16 | |

Based on floor reflectance of 20

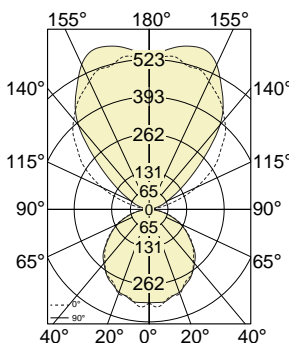
LUMINANCE DATA (CD/M²)

| Vertical Angle | Horizontal Angles | | |
|----------------|-------------------|------|------|
| | 0 | 45 | 90 |
| 45 | 4855 | 2276 | 1808 |
| 55 | 4129 | 1594 | 1233 |
| 65 | 3442 | 1068 | 797 |
| 75 | 2854 | 608 | 421 |
| 85 | 1735 | 188 | 123 |

I T5



PHOTOMETRIC CURVE



Test Lamp: 1xT5

IES FILE: BDI-S-C-4-T5-1

Efficiency: 81.3%

CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angles | | | | | Zonal Lumens |
|----------------|-------------------|------|-----|------|-----|--------------|
| | 0 | 22.5 | 45 | 67.5 | 90 | |
| 0 | 326 | 326 | 326 | 326 | 326 | |
| 5 | 342 | 322 | 322 | 333 | 326 | 18 |
| 15 | 312 | 315 | 313 | 310 | 313 | 75 |
| 25 | 288 | 293 | 289 | 291 | 294 | 125 |
| 35 | 265 | 261 | 262 | 260 | 265 | 159 |
| 45 | 220 | 221 | 221 | 218 | 227 | 171 |
| 55 | 176 | 177 | 176 | 171 | 170 | 161 |
| 65 | 125 | 122 | 122 | 120 | 120 | 131 |
| 75 | 69 | 69 | 67 | 66 | 66 | 84 |
| 85 | 22 | 20 | 17 | 17 | 16 | 33 |
| 90 | 2 | 1 | 1 | 1 | 1 | |
| 95 | 5 | 4 | 3 | 3 | 3 | 2 |
| 105 | 71 | 49 | 34 | 30 | 27 | 31 |
| 115 | 183 | 168 | 102 | 77 | 70 | 97 |
| 125 | 288 | 300 | 228 | 167 | 149 | 184 |
| 135 | 376 | 414 | 378 | 323 | 293 | 263 |
| 145 | 442 | 482 | 486 | 462 | 450 | 297 |
| 155 | 493 | 521 | 561 | 553 | 557 | 265 |
| 165 | 518 | 526 | 565 | 572 | 589 | 183 |
| 175 | 535 | 528 | 528 | 539 | 555 | 78 |
| 180 | 534 | 534 | 534 | 534 | 534 | |

COEFFICIENTS OF UTILIZATION (%)

| Ceiling | 80 | | | | 70 | | | | 50 | | | |
|---------|----|----|----|----|----|----|----|----|----|----|----|--|
| Wall | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | |
| 0 | 85 | 85 | 85 | 85 | 78 | 78 | 78 | 78 | 64 | 64 | 64 | |
| 1 | 78 | 74 | 71 | 68 | 71 | 68 | 65 | 63 | 55 | 54 | 52 | |
| 2 | 71 | 65 | 60 | 55 | 64 | 59 | 55 | 51 | 48 | 45 | 43 | |
| 3 | 64 | 57 | 51 | 46 | 58 | 52 | 47 | 42 | 43 | 39 | 36 | |
| 4 | 59 | 50 | 44 | 39 | 53 | 46 | 40 | 36 | 38 | 33 | 30 | |
| 5 | 54 | 44 | 38 | 33 | 49 | 41 | 35 | 31 | 34 | 29 | 26 | |
| 6 | 49 | 40 | 33 | 28 | 45 | 36 | 31 | 26 | 30 | 26 | 22 | |
| 7 | 46 | 36 | 29 | 25 | 41 | 33 | 27 | 23 | 27 | 23 | 20 | |
| 8 | 42 | 32 | 26 | 22 | 38 | 30 | 24 | 20 | 25 | 20 | 17 | |
| 9 | 39 | 29 | 23 | 19 | 36 | 27 | 22 | 18 | 23 | 18 | 15 | |
| 10 | 37 | 27 | 21 | 17 | 33 | 25 | 20 | 16 | 21 | 17 | 14 | |

Based on floor reflectance of 20

LUMINANCE DATA (CD/M²)

| Vertical Angle | Horizontal Angles | | |
|----------------|-------------------|------|------|
| | 0 | 45 | 90 |
| 45 | 4272 | 2106 | 1824 |
| 55 | 4089 | 1675 | 1332 |
| 65 | 3768 | 1200 | 943 |
| 75 | 3052 | 701 | 537 |
| 85 | 1931 | 196 | 141 |

i All IES files for other lamping are available for download at: www.axislighting.com