

Project _____

Type _____

Notes _____

PERFORMANCE PER LINEAR FOOT AT 4000K

| NOMINAL LUMEN OUTPUT | INPUT WATTS* | EFFICACY |
|----------------------|--------------|----------|
| 500 lm/ft | 5.15 W/ft | 97 lm/W |
| 750 lm/ft | 7.1 W/ft | 96 lm/W |
| 1000 lm/ft | 10.85 W/ft | 93 lm/W |

* Based on a 4 foot luminaire using one driver
Please consult factory for custom lumen output and wattage.



Ordering Guide

| BBRLED | | | | | | ASO | | | | | |
|------------|--------------|----------------|------------|-----|--------|-------------|--------|-------------------------------|-------------------------|----|------------|
| PRODUCT ID | | NOM. LUMENS/FT | | CRI | | COLOR TEMP. | | SHIELDING | LENGTH | | |
| BBRLED | Recessed LED | 400 | 400 lm/ft | 80 | 80 CRI | 27 | 2700 K | ASO | asymmetric with SO lens | 2 | 2' |
| | | 500 | 500 lm/ft | 90 | 90 CRI | 30 | 3000 K | | | 3 | 3' |
| | | 750 | 750 lm/ft | | | 35 | 3500 K | | | 4 | 4' |
| | | 1000 | 1000 lm/ft | | | 40 | 4000 K | | | 5 | 5' |
| | | | | | | | | | | 6 | 6' |
| | | | | | | | | | | 8 | 8' |
| | | | | | | | | | | 12 | 12' |
| | | | | | | | | | | S# | system run |
| | | | | | | | | See page 2-3 for more details | | | |

| LED DOWNLIGHT INSERT | | FINISH | VOLTAGE | DRIVER | CIRCUITS |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| CB21225# | Fixed LED 1-3/4" dia 1250lm 25deg ⁽¹⁾ | AP aluminum paint | 120 120 V | DP dimming (0-10V) 1% | 1 1 circuit |
| CB21234# | Fixed LED 1-3/4" dia 1250lm 34deg ⁽¹⁾ | W white | 277 277 V | D dimming (0-10V) 5% 347V standard ⁽⁴⁾ | 2 2 circuits |
| CB21246# | Fixed LED 1-3/4" dia 1250lm 46deg ⁽¹⁾ | BLK black | 347 347 V ⁽³⁾ | LT Lutron ⁽⁵⁾ | +E(#) emergency circuit ⁽⁷⁾ |
| CB20925# | Fixed LED 1-3/4" dia 900lm 25deg ⁽¹⁾ | C custom | UNV universal | BI bi-level dimming | +NL(#) night light circuit ⁽⁷⁾ |
| CB20934# | Fixed LED 1-3/4" dia 900lm 34deg ⁽¹⁾ | | | O other ⁽⁶⁾ | +GTD(#) generator transfer device ⁽⁷⁾ |
| CB20946# | Fixed LED 1-3/4" dia 900lm 46deg ⁽¹⁾ | | | | +M MR |
| M16# | Adj. MR 16 halogen lamp (by others) ⁽²⁾ | | | | |
| M16LED# | Adj. MR 16 LED lamp (provided) ⁽²⁾ * | | | | |
| ⁽¹⁾ Available in 3000K. Consult factory for other CCT's; comes with 5" deep extrusion - see pg.3 | | | ⁽³⁾ D dimming (0-10V) 5% standard | ⁽⁴⁾ For 347V only ⁽⁵⁾ Specify system ⁽⁶⁾ Please consult factory; see page 2 | ⁽⁷⁾ Specify quantity |
| ⁽²⁾ See page 5 for more details; 25° adjustability Requires 120V or 277V | | | | | |
| * Available in 2700K or 3000K. | | | | | |

| MOUNTING | BATTERY (OPTIONAL) | OTHER (OPTIONAL) | IC CONTROLS (OPTIONAL) | CUSTOM (OPTIONAL) |
|---------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| TB9 t-bar 9/16" | B# battery pack 4' sections | F fuse ⁽⁸⁾ | DS# daylight sensor | C custom |
| TB15 t-bar 15/16" | | EF end feed | OS# occupancy sensor | |
| ST screw slot t-bar | | FW(#) flex whip (6' std) | DOS# daylight & occupancy sensor | |
| TG9 tegular 9/16" | | CP Chicago plenum | EN# Enlighted integral ⁽¹⁰⁾ | |
| TG15 tegular 15/16" | | HD hold down clip ⁽⁹⁾ | ENR# Enlighted remote ⁽¹¹⁾ | |
| DF drywall flange | | | | |
| D drywall flangeless | | | | |
| DB slip-through bracket | | | | |
| DS drywall spackle flange | | | | |
| | Requires 120V or 277V Please consult factory | ⁽⁸⁾ Requires 120V or 277V ⁽⁹⁾ Only available for t-bar mounting | ⁽¹⁰⁾ For flush option only; Please consult factory ⁽¹¹⁾ Please consult factory. Specify quantity. Requires 8" blank. See pages 6-7 for more details. | Please specify |

CONSTRUCTION

| | |
|---------------------------------|----------------------------------------------------------------|
| Housing | Extruded aluminum (0.075" nominal) up to 70% recycled content |
| End Cap | Sheet steel (18 gauge) |
| Interior Brackets | Die formed sheet steel (18 gauge) |
| Reflectors | White powder coated sheet steel (22 gauge) |
| Blank | Extruded aluminum (0.075" nominal) |
| Lens | Spotless acrylic lens |
| T-Bar Bracket | Die formed sheet steel (16 gauge) |
| Screw Slot T-Bar Bracket | Die formed sheet steel (16 gauge) |
| Slip-Through Bracket | Die formed sheet steel (18 gauge) |
| Spackle Flange | Die formed perforated sheet steel (20 gauge) |
| Flange | Extruded aluminum (0.075" nominal) visible flange width: 9/16" |

ELECTRICAL


| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lutron driver | L3D - Hi-Lume A-Series EcoSystem 3-Wire Control (1%) LDE1 - EcoSystem H-Series (1%) LDE5 - EcoSystem 5-Series (5%) LTE - Hi-Lume® A-series 2Wires Forward Phase (1%) |
| Other drivers | DALI - Digital Addressable Lighting Interface DMX - Digital Multiplex LV - line voltage - Advance Mark 10 Xitanium SR - For wireless sensor |
| Emergency | Integral emergency battery pack or emergency circuit optional. |
| Input Voltage | 120V, 277V, 347V, UNV. |

i Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

SYSTEM (S#)

BEAM4 LED 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 BEAM4 LED that are greater than 12' in length are designated as systems (S#). This means that the run is comprised of a combination 4', 8' and/or 12' 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.

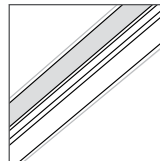
APPROVALS

Certified to UL and CUL standards 
Meets NYC requirements
Meets CCEC requirements (Chicago plenum)
Suitable for damp locations
IC Rated (Insulated ceiling)

WARRANTY

Axis Lighting will warrant defective LEDs, boards, and drivers for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specifications. If defective, Axis will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Axis.

OPTICS

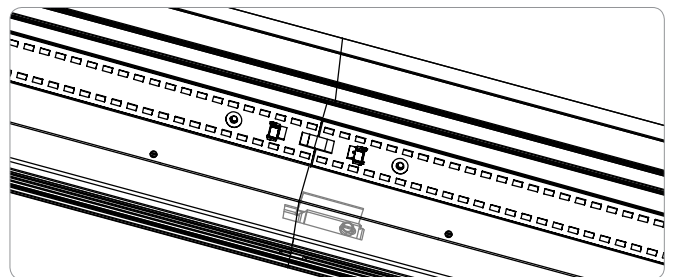
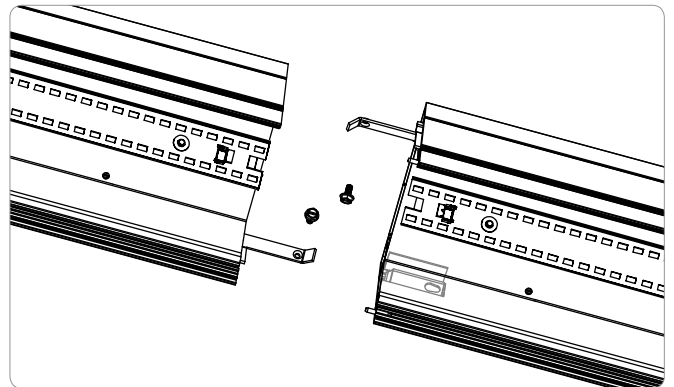


ASO asymmetric with SO lens

ASYMMETRIC WITH SPOTLESS LENS
(acrylic snap-in lens) spotless: 85% trans.

JOINERS

In order to allow very long runs of BEAM4 LED luminaires, Axis has developed a number of different joining systems. Special care has been taken to maximize the performance of the joiner for each BEAM4 LED option.



JOINER SYSTEM

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

FINISHES

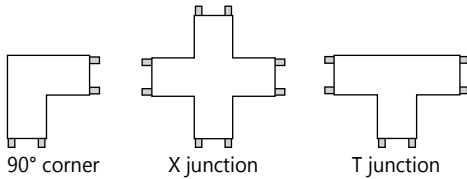
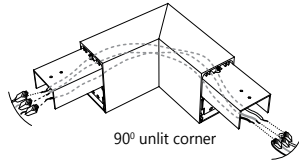
Powder coated and custom finishes are also available.

WEIGHT

| | |
|---------------------------------|--------------------|
| Recessed Asymmetric 4ft | 14.5 lbs / 6.6 kg |
| Recessed Asymmetric 8ft | 29.0 lbs / 13.2 kg |
| Recessed Asymmetric 12ft | 43.5 lbs / 19.7 kg |

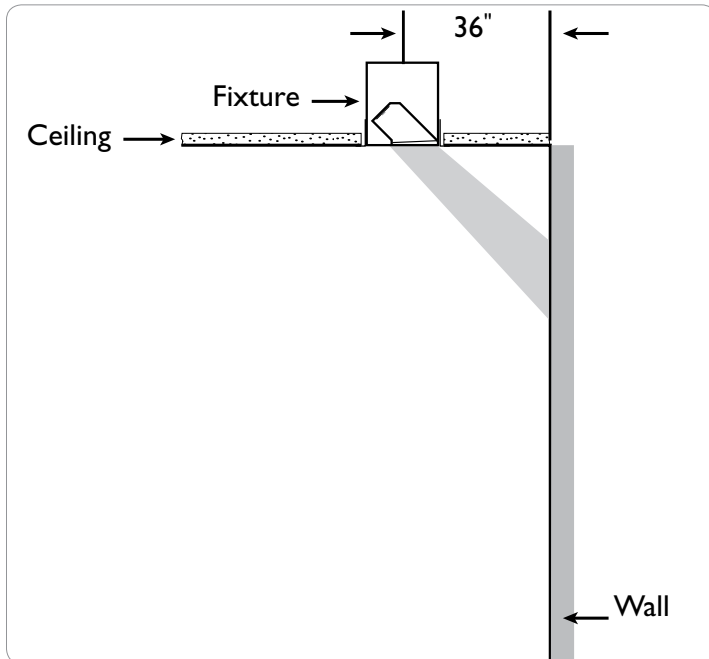
CORNERS

Unlit Corners - BEAM4 LED features a multitude of layout patterns with the use of a number of corners, 90° corner, T or X junctions.



i For custom corner angles, please consult factory. Specifications sheets for all corners are available at: www.axislighting.com

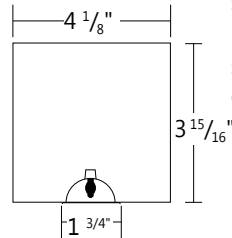
LIGHT WASH



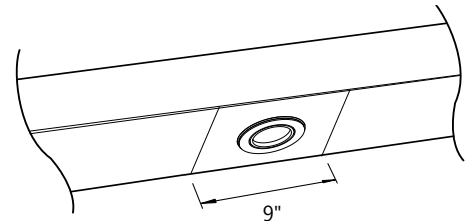
NOTE: Recommended distance from the wall - 3 to 4ft.

MR16 LED LAMPS

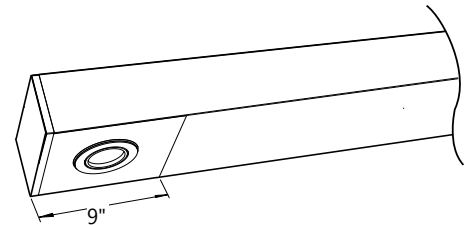
| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Blank | Extruded aluminum (0.075" nominal) |
| MR16 Halogens | Adjustable halogen lamp 35W / 50W (by others) |
| MR16 LED | Adjustable LED lamp (provided) |
| Quantity | For every 4' section, there may be up to a maximum of 4 x MR16 LED lamps. |
| Spacing | Each MR16 is placed centered on a blank section 9" in length. Within a given section length, a series of downlights will be spaced evenly on a longer blank section. Custom spacing available on special request. |



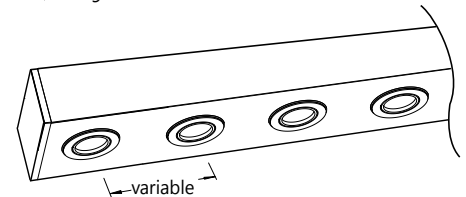
Between sections



At luminaire ends



Several in a long blank section

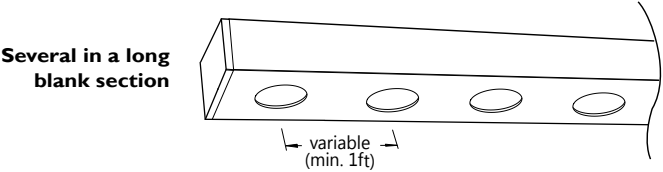
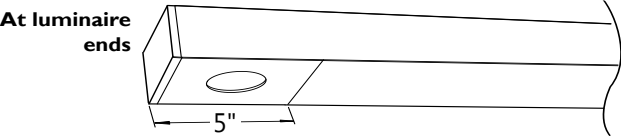
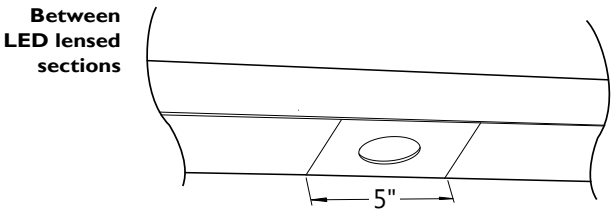
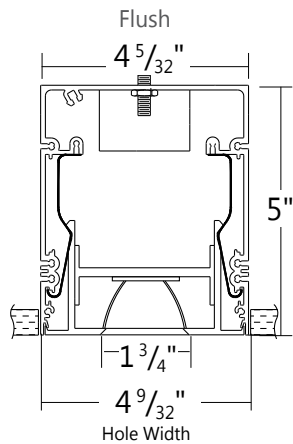


| | |
|-------------------------------------------|---------------------------------|
| Base Type | GU 5.3 |
| Beam Angle | 40 nominal degrees |
| Input Watts | 6W |
| Nominal Lumens | 300 lumens |
| Efficacy | 50 lumens per watt |
| Color Rendering Index (CRI) | 85 |
| Center Beam Candle Power (CBCP) | 584 candelas |
| Life | 25,000 hours at L ₇₀ |
| Correlated color temperature (CCT) | 2700K, 3000K |
| Adjustability | 25° tilt |

i More options are available upon request. Please consult factory.

● LED DOWNLIGHT INSERT

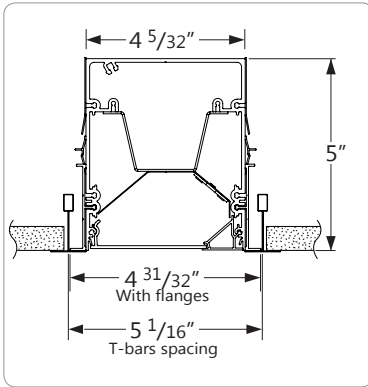
Blank Extruded Aluminum (0.075" nominal)
CB2 1-3/4" diameter fixed, 900 or 1250 lumen, 25°, 34°, 46°; 3000K, R9=70, CRI=90, 3 Macadam Ellipse
Quantity Allow minimum 1ft distance between multiple units.



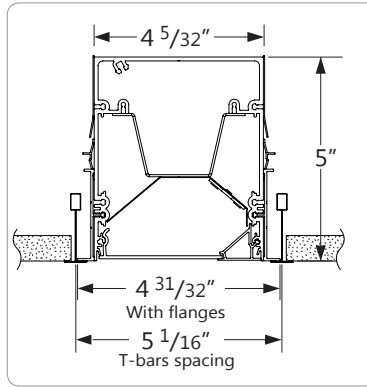
PERFORMANCE

| | LUMENS | WATTS | EFFICACY |
|-------|--------|-----------|----------|
| CB209 | 950 | 12.9 W/ft | 73 lm/W |
| CB212 | 1270 | 17.8 W/ft | 71 lm/W |

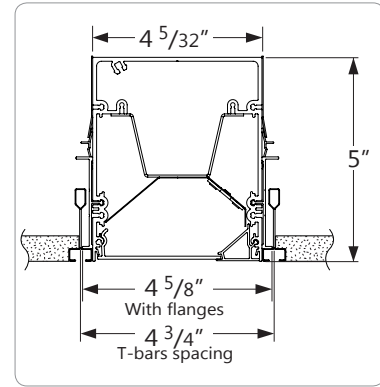
● TB CEILING MOUNTING OPTIONS



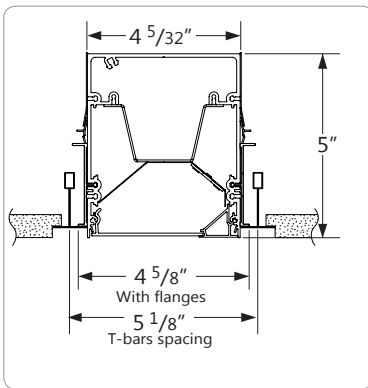
TB15 15/16" T-BAR



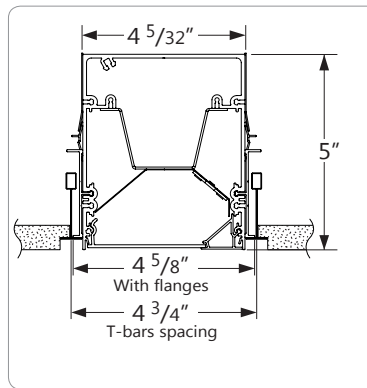
TB9 9/16" T-BAR



ST SCREW SLOT T-BAR

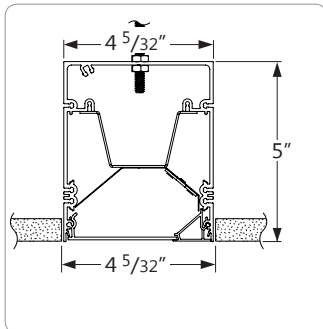


TG15 15/16" TEGULAR

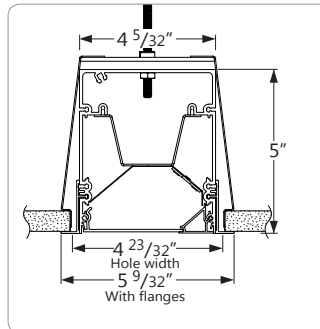


TG9 9/16" T-TEGULAR

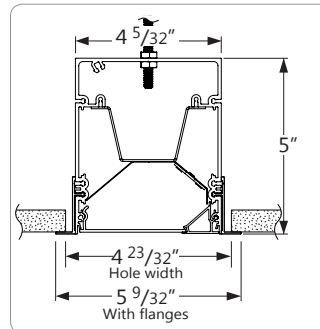
● DRYWALL CEILING MOUNTING OPTIONS



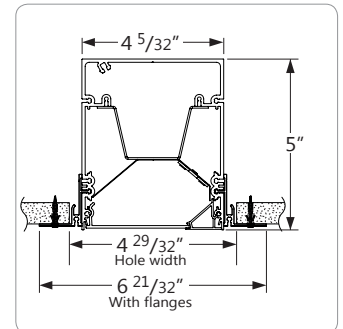
D FLANGELESS WITH 1/4-20 STUD MOUNTING



DB VISIBLE FLANGES WITH SLIP-THROUGH BRACKET



DF VISIBLE FLANGES WITH 1/4-20 STUD MOUNTING



DS SPACKLE FLANGES

● OTHER MOUNTING OPTIONS

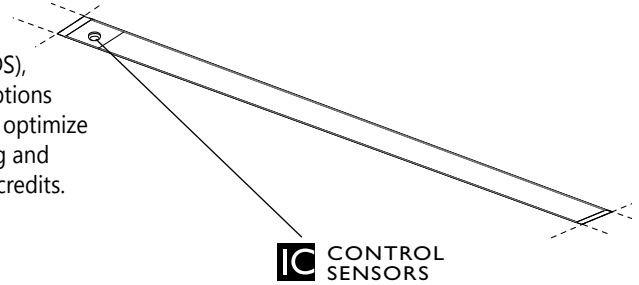
BEAM 4 LED is also available with pendant, surface, wall and recessed wall mounted options.

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

● INTEGRATED CONTROLS

BEAM4 LED luminaires allow the use of integrated controls such as daylight sensors (DS), occupancy sensors (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.

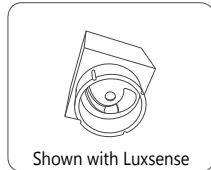
- Consult factory for other options.



The integrated control systems offered are:

● DAYLIGHT HARVESTING (DS):

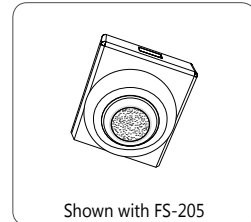
With Daylight sensors, maximum lamp output is reduced according to the available amount of natural light. By reducing maximum lamp output, energy consumption is reduced by up to 20 percent in a process known as "Daylight Harvesting".



EC-DIR-WH, FD-301
Luxsense, Micro Luxsense

● OCCUPANCY (OS):

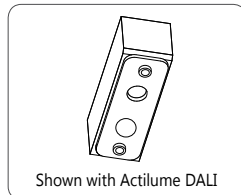
When a room is vacated, occupancy sensors ensure the light will be turned off after a programmed delay as well as ensuring that light remains on while the room is occupied.



FS-205, FS-355,
FS-155 - Line Voltage
FS-505, FS-505C

● DAYLIGHT HARVESTING AND OCCUPANCY (DOS):

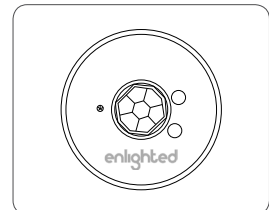
ACTILUME, a combination of Daylight & Occupancy sensor from Philips, along with a 0-10V or DALI driver can be used in one form factor.



Actilume 1-10V
Actilume DALI

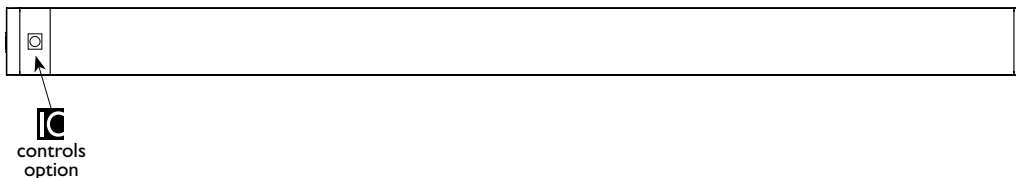
● ENLIGHTED INTEGRAL (EN) / ENLIGHTED REMOTE (ENR):

A combination of Daylight, Occupancy & Temperature autonomously control illumination levels, monitor occupancy and environmental conditions. Data is transmitted wirelessly to the Enlighted networked management system.



● INSTALLATION EXAMPLE

Sensor location option



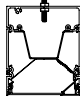
* Incorporating IC controls may affect the length of the luminaire. Please contact factory for more details.

● INTEGRATED CONTROL OPTIONS

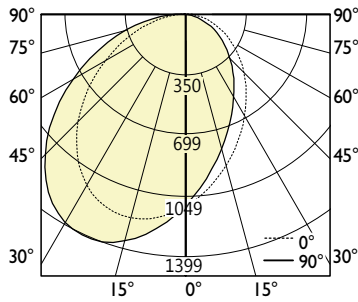
| SENSORS | BRAND | Model | TYPE |
|------------------------------------|-----------------------------|----------------------|-------------------------------------|
| Daylight Sensor (DS) | Lutron | EC-DIR-WH | Daylight, IR |
| | Wattstopper | FD-301 | Daylight |
| | Philips | Luxsense, LR1220/00 | Daylight |
| | Philips | Micro Luxsense | Daylight |
| | Wattstopper | LS-102 | Light Saver (Ambient light level) |
| Occupancy Sensor (OS) | Wattstopper | FS-205v2 | PIR Occupancy & Ambient light level |
| | Wattstopper | FS-355 (need lenses) | PIR Occupancy & Ambient light level |
| | Wattstopper | FS-155 | PIR Occupancy & Ambient light level |
| | Wattstopper | FS-505 | Ultrasonic Occupancy (Staircase) |
| | Wattstopper | FS-505C | Ultrasonic Occupancy (Open Area) |
| | Wattstopper | FM-105 | High Frequency Occupancy (Wet) |
| | Lutron TriPak Wireless | LRF2-OCR2B-P-WH | PIR Occupancy |
| | Lutron | LOS-CDT | Ultrasonic Occupancy + PIR |
| | Lutron | LOS-CIR | PIR Occupancy |
| Daylight & Occupancy Sensors (DOS) | Philips | Actilume, LR11655 | Daylight & PIR Occupancy |
| | Wattstopper | FS-305 (need Lenses) | PIR Occupancy |
| | Wattstopper | FS-305 RC | PIR Occupancy & Ambient light level |
| | Creston | GLS Series | Daylight and/or PIR Occupancy |
| | Echoflex | MOS Series | Daylight and/or PIR Occupancy |
| Enlighted sensor (EN, ENR) | Enlighted integral / remote | SU-3E-00 | Daylight, Occupancy & Temperature |

● PHOTOMETRIC DATA

500 lm/ft
With ASO lens



PHOTOMETRIC CURVE



Luminaire Lumens: 500 lm/ft
Input Watts: 20.6 W
Efficacy: 97 lm/W

IES FILE: BBRLED-500-80-35-ASO-4.IES

TESTED ACCORDING TO IES LM-63-2002

CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angles | | | | |
|----------------|-------------------|------|-----|------|-----|
| | 0 | 22.5 | 45 | 67.5 | 90 |
| 0 | 744 | 744 | 744 | 744 | 744 |
| 5 | 678 | 683 | 697 | 718 | 743 |
| 15 | 546 | 558 | 593 | 649 | 719 |
| 25 | 429 | 444 | 489 | 563 | 664 |
| 35 | 333 | 347 | 391 | 469 | 579 |
| 45 | 254 | 266 | 303 | 372 | 474 |
| 55 | 185 | 194 | 223 | 277 | 358 |
| 65 | 123 | 129 | 149 | 185 | 243 |
| 75 | 67 | 71 | 82 | 102 | 135 |
| 85 | 19 | 20 | 24 | 33 | 47 |
| 90 | 0 | 0 | 0 | 4 | 12 |

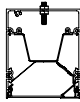
ZONAL LUMENS

| Zone | Lumens |
|-------|--------|
| 0 | |
| 0-10 | 70 |
| 10-20 | 201 |
| 20-30 | 303 |
| 30-40 | 359 |
| 40-50 | 359 |
| 50-60 | 310 |
| 60-70 | 227 |
| 70-80 | 130 |
| 80-90 | 40 |
| 90 | |

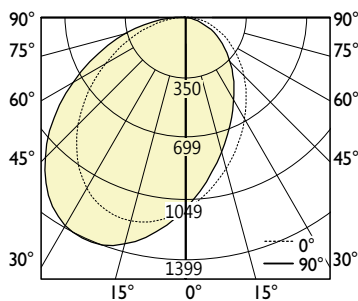
LUMINANCE DATA (cd/m²)

| Vertical Angle | Horizontal Angles | | |
|----------------|-------------------|------|------|
| | 0 | 45 | 90 |
| 45 | 4274 | 5099 | 7976 |
| 55 | 3838 | 4626 | 7427 |
| 65 | 3463 | 4195 | 6842 |
| 75 | 3080 | 3770 | 6206 |
| 85 | 2594 | 3276 | 6417 |

750 lm/ft
With ASO lens



PHOTOMETRIC CURVE



Luminaire Lumens: 750 lm/ft
Input Watts: 28.4 W
Efficacy: 96 lm/W

IES FILE: BBRLED-750-80-35-ASO-4.IES

TESTED ACCORDING TO IES LM-63-2002

CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angles | | | | |
|----------------|-------------------|------|------|------|------|
| | 0 | 22.5 | 45 | 67.5 | 90 |
| 0 | 1016 | 1016 | 1016 | 1016 | 1016 |
| 5 | 926 | 934 | 951 | 981 | 1016 |
| 15 | 747 | 764 | 811 | 885 | 981 |
| 25 | 587 | 609 | 668 | 768 | 905 |
| 35 | 457 | 476 | 535 | 640 | 791 |
| 45 | 348 | 365 | 415 | 507 | 647 |
| 55 | 254 | 267 | 305 | 377 | 489 |
| 65 | 170 | 178 | 204 | 253 | 331 |
| 75 | 94 | 97 | 112 | 140 | 185 |
| 85 | 26 | 28 | 34 | 45 | 64 |
| 90 | 1 | 1 | 1 | 6 | 17 |

ZONAL LUMENS

| Zone | Lumens |
|-------|--------|
| 0 | |
| 0-10 | 96 |
| 10-20 | 275 |
| 20-30 | 414 |
| 30-40 | 490 |
| 40-50 | 491 |
| 50-60 | 425 |
| 60-70 | 311 |
| 70-80 | 178 |
| 80-90 | 56 |
| 90 | |

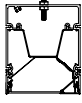
LUMINANCE DATA (cd/m²)

| Vertical Angle | Horizontal Angles | | |
|----------------|-------------------|------|-------|
| | 0 | 45 | 90 |
| 45 | 5856 | 6983 | 10888 |
| 55 | 5269 | 6327 | 10145 |
| 65 | 4786 | 5744 | 9320 |
| 75 | 4321 | 5149 | 8505 |
| 85 | 3549 | 4642 | 8738 |

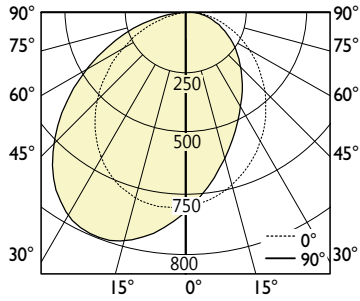
i All IES files for other lamping are available for download at: www.axislighting.com

● PHOTOMETRIC DATA

1000 lm/ft
With ASO lens



PHOTOMETRIC CURVE



Luminaire Lumens: 1000 lm/ft
Input Watts: 43.4 W
Efficacy: 93 lm/W

IES FILE: BBRLED-1000-80-35-ASO-4.IES

TESTED ACCORDING TO IES LM-63-2002

CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angles | | | | |
|----------------|-------------------|------|------|------|------|
| | 0 | 22.5 | 45 | 67.5 | 90 |
| 0 | 1502 | 1502 | 1502 | 1502 | 1502 |
| 5 | 1373 | 1377 | 1407 | 1449 | 1502 |
| 15 | 1106 | 1128 | 1200 | 1310 | 1453 |
| 25 | 869 | 897 | 988 | 1139 | 1342 |
| 35 | 675 | 702 | 792 | 947 | 1173 |
| 45 | 514 | 537 | 613 | 752 | 960 |
| 55 | 375 | 392 | 451 | 559 | 725 |
| 65 | 250 | 261 | 301 | 375 | 492 |
| 75 | 137 | 143 | 165 | 207 | 274 |
| 85 | 38 | 41 | 50 | 67 | 97 |
| 90 | 1 | 1 | 1 | 9 | 25 |

ZONAL LUMENS

| Zone | Lumens |
|-------|--------|
| 0 | |
| 0-10 | 142 |
| 10-20 | 406 |
| 20-30 | 612 |
| 30-40 | 723 |
| 40-50 | 725 |
| 50-60 | 626 |
| 60-70 | 459 |
| 70-80 | 263 |
| 80-90 | 82 |
| 90 | |

LUMINANCE DATA (cd/m²)

| Vertical Angle | Horizontal Angles | | |
|----------------|-------------------|-------|-------|
| | 0 | 45 | 90 |
| 45 | 8649 | 10316 | 16155 |
| 55 | 7779 | 9356 | 15041 |
| 65 | 7039 | 8475 | 13853 |
| 75 | 6298 | 7586 | 12597 |
| 85 | 5188 | 6826 | 13243 |