

LINEARlight FLEX DIFFUSE Side White

– LED modules for professional and industrial applications



Areas of application

- Individual and customized luminaires
- Organic shaped luminaires
- Architectural Integration – e.g. coves, walls
- Object integration – e.g. handrails
- Signage and illuminated advertising

Product benefits

- IP67 protection with high performance silicone
- Outdoor use possible: UV and salt mist resistant (UV acc. to ISO 4892-2 - Method A, salt mist acc. to IEC 60068-2-52 severity 1)

Product features

- Diffused light lines without visible spots
- Flexible and cuttable module to support design freedom
- Long operational length per single power feed possible (up to 6m)
- Ideal for luminaire designs
- Extra strong self-adhesive backside for easy mounting
- 24V technology for easy dimensioning
- Recommended in system use with OPTOTRONIC
- Increased reliability due to single piece reel-to-reel technology
- Dimmable with PWM technology



Technical data

Electrical data

| Product description | Nominal voltage | Nominal wattage per meter | Rated wattage | Reverse Voltage | Input voltage range |
|----------------------------------|-----------------|---------------------------|---------------|-----------------|---------------------|
| LFD400S -G1-827-06 ¹⁾ | 24.0 V | 7.2 W | 43.20 W | 25 V | 23...25 V |
| LFD400S -G1-830-06 ¹⁾ | 24.0 V | 7.2 W | 43.20 W | 25 V | 23...25 V |
| LFD400S -G1-840-06 ¹⁾ | 24.0 V | 7.2 W | 43.20 W | 25 V | 23...25 V |
| LFD400S -G1-865-06 ¹⁾ | 24.0 V | 7.2 W | 43.20 W | 25 V | 23...25 V |
| LFD600S -G1-827-06 ¹⁾ | 24.0 V | 11.5 W | 69.20 W | 25 V | 23...25 V |
| LFD600S -G1-830-06 ¹⁾ | 24.0 V | 11.5 W | 69.20 W | 25 V | 23...25 V |
| LFD600S -G1-840-06 ¹⁾ | 24.0 V | 11.5 W | 69.20 W | 25 V | 23...25 V |
| LFD600S -G1-865-06 ¹⁾ | 24.0 V | 11.5 W | 69.20 W | 25 V | 23...25 V |

¹⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see www.osram.com/led-systems/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

Photometrical data

| Product description | Color temperature | Light color (designation) | Light color LED | Luminous flux per meter | Luminous efficacy | Luminous flux |
|----------------------------------|-------------------|---------------------------|-----------------|-------------------------|-------------------|---------------|
| LFD400S -G1-827-06 ¹⁾ | 2700 K | Warm White | White | 410 lm | 57 lm/W | 2460 lm |
| LFD400S -G1-830-06 ¹⁾ | 3000 K | White | White | 410 lm | 57 lm/W | 2460 lm |
| LFD400S -G1-840-06 ¹⁾ | 4000 K | Cool White | White | 410 lm | 57 lm/W | 2460 lm |
| LFD400S -G1-865-06 ¹⁾ | 6500 K | Cool Daylight | White | 350 lm | 52 lm/W | 2100 lm |
| LFD600S -G1-827-06 ¹⁾ | 2700 K | Warm White | White | 600 lm | 52.1 lm/W | 3600 lm |
| LFD600S -G1-830-06 ¹⁾ | 3000 K | Warm White | White | 600 lm | 52.1 lm/W | 3600 lm |
| LFD600S -G1-840-06 ¹⁾ | 4000 K | Cool White | White | 600 lm | 52.1 lm/W | 3600 lm |
| LFD600S -G1-865-06 ¹⁾ | 6500 K | Cool Daylight | White | 530 lm | 46 lm/W | 3180 lm |

¹⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see www.osram.com/led-systems/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

Product family datasheet

Light technical data

| Product description | Beam angle |
|----------------------------------|------------|
| LFD400S -G1-827-06 ¹⁾ | 120 ° |
| LFD400S -G1-830-06 ¹⁾ | 120 ° |
| LFD400S -G1-840-06 ¹⁾ | 120 ° |
| LFD400S -G1-865-06 ¹⁾ | 120 ° |
| LFD600S -G1-827-06 ¹⁾ | 120 ° |
| LFD600S -G1-830-06 ¹⁾ | 120 ° |
| LFD600S -G1-840-06 ¹⁾ | 120 ° |
| LFD600S -G1-865-06 ¹⁾ | 120 ° |

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LED module information

| Product description | Number of LEDs per module | Number of LEDs per meter |
|----------------------------------|---------------------------|--------------------------|
| LFD400S -G1-827-06 ¹⁾ | 840 | 140 |
| LFD400S -G1-830-06 ¹⁾ | 840 | 140 |
| LFD400S -G1-840-06 ¹⁾ | 840 | 140 |
| LFD400S -G1-865-06 ¹⁾ | 840 | 140 |
| LFD600S -G1-827-06 ¹⁾ | 840 | 140 |
| LFD600S -G1-830-06 ¹⁾ | 840 | 140 |
| LFD600S -G1-840-06 ¹⁾ | 840 | 140 |
| LFD600S -G1-865-06 ¹⁾ | 840 | 140 |

¹⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see www.osram.com/led-systems/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

Product family datasheet

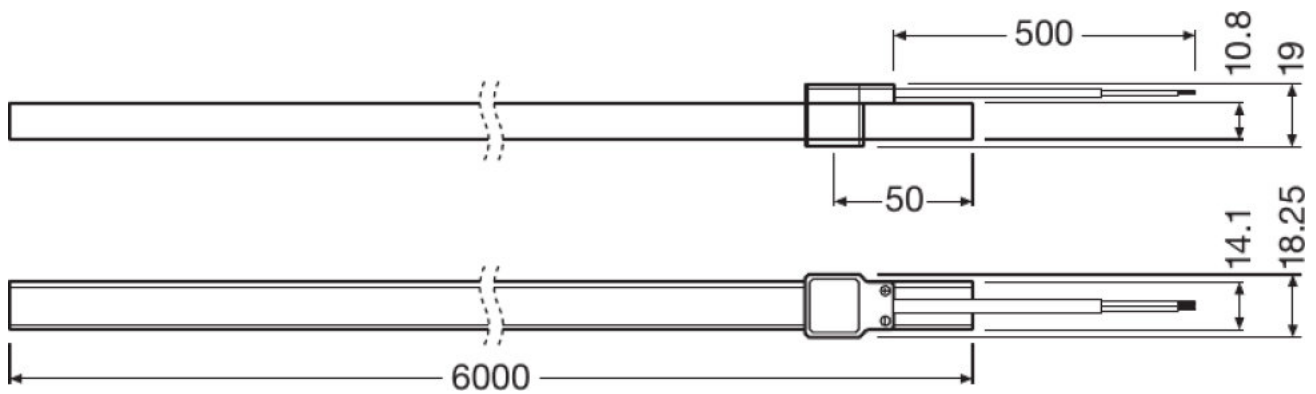
Dimensions & weight

| Product description | Length | Width | Height | Product weight | Length – smallest unit |
|----------------------------------|---------|---------|-----------------------|----------------|------------------------|
| LFD400S -G1-827-06 ¹⁾ | 6000 mm | 14.1 mm | 10.8 mm ²⁾ | 1040.00 g | 50.0 mm |
| LFD400S -G1-830-06 ¹⁾ | 6000 mm | 14.1 mm | 10.8 mm ²⁾ | 1040.00 g | 50.0 mm |
| LFD400S -G1-840-06 ¹⁾ | 6000 mm | 14.1 mm | 10.8 mm ²⁾ | 1040.00 g | 50.0 mm |
| LFD400S -G1-865-06 ¹⁾ | 6000 mm | 14.1 mm | 10.8 mm ²⁾ | 1040.00 g | 50.0 mm |
| LFD600S -G1-827-06 ¹⁾ | 6000 mm | 14.1 mm | 10.8 mm ²⁾ | 1040.00 g | 50.0 mm |
| LFD600S -G1-830-06 ¹⁾ | 6000 mm | 14.1 mm | 10.8 mm ²⁾ | 1040.00 g | 50.0 mm |
| LFD600S -G1-840-06 ¹⁾ | 6000 mm | 14.1 mm | 10.8 mm ²⁾ | 1040.00 g | 50.0 mm |
| LFD600S -G1-865-06 ¹⁾ | 6000 mm | 14.1 mm | 10.8 mm ²⁾ | 1040.00 g | 50.0 mm |

¹⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see www.osram.com/led-systems/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

²⁾ +/- 0.5mm

Product line drawing



LFD400S -G1-827-06, LFD400S -G1-830-06, LFD400S -G1-840-06, LFD400S -G1-865-06, LFD600S -G1-827-06, LFD600S -G1-830-06, LFD600S -G1-840-06, LFD600S -G1-865-06

Product family datasheet

Temperatures & operating conditions

| Product description | Temperature range in operation |
|----------------------------------|--------------------------------|
| LFD400S -G1-827-06 ¹⁾ | -20...65 °C |
| LFD400S -G1-830-06 ¹⁾ | -20...65 °C |
| LFD400S -G1-840-06 ¹⁾ | -20...65 °C |
| LFD400S -G1-865-06 ¹⁾ | -20...65 °C |
| LFD600S -G1-827-06 ¹⁾ | -20...65 °C |
| LFD600S -G1-830-06 ¹⁾ | -20...65 °C |
| LFD600S -G1-840-06 ¹⁾ | -20...65 °C |
| LFD600S -G1-865-06 ¹⁾ | -20...65 °C |

¹⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see www.osram.com/led-systems/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

Lifespan

| Product description | Lifespan |
|----------------------------------|-----------------------|
| LFD400S -G1-827-06 ¹⁾ | 50000 h ²⁾ |
| LFD400S -G1-830-06 ¹⁾ | 50000 h ²⁾ |
| LFD400S -G1-840-06 ¹⁾ | 50000 h ²⁾ |
| LFD400S -G1-865-06 ¹⁾ | 50000 h ²⁾ |
| LFD600S -G1-827-06 ¹⁾ | 50000 h ²⁾ |
| LFD600S -G1-830-06 ¹⁾ | 50000 h ²⁾ |
| LFD600S -G1-840-06 ¹⁾ | 50000 h ²⁾ |
| LFD600S -G1-865-06 ¹⁾ | 50000 h ²⁾ |

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²⁾ L70/B50

Capabilities

| Product description | Dimmable |
|----------------------------------|-------------------|
| LFD400S -G1-827-06 ¹⁾ | Yes ²⁾ |
| LFD400S -G1-830-06 ¹⁾ | Yes ²⁾ |
| LFD400S -G1-840-06 ¹⁾ | Yes ²⁾ |
| LFD400S -G1-865-06 ¹⁾ | Yes ²⁾ |
| LFD600S -G1-827-06 ¹⁾ | Yes ²⁾ |
| LFD600S -G1-830-06 ¹⁾ | Yes ²⁾ |
| LFD600S -G1-840-06 ¹⁾ | Yes ²⁾ |
| LFD600S -G1-865-06 ¹⁾ | Yes ²⁾ |

¹⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see

Product family datasheet

www.osram.com/led-systems/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

²⁾ PWM

Certificates & standards

| Product description | Standards |
|----------------------------------|---|
| LFD400S -G1-827-06 ¹⁾ | CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750 |
| LFD400S -G1-830-06 ¹⁾ | CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750 |
| LFD400S -G1-840-06 ¹⁾ | CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750 |
| LFD400S -G1-865-06 ¹⁾ | CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750 |
| LFD600S -G1-827-06 ¹⁾ | CE/UL Recognized component according UL 8750/VDE/ENEC/EAC |
| LFD600S -G1-830-06 ¹⁾ | CE/UL Recognized component according UL 8750/VDE/ENEC/EAC |
| LFD600S -G1-840-06 ¹⁾ | CE/UL Recognized component according UL 8750/VDE/ENEC/EAC |
| LFD600S -G1-865-06 ¹⁾ | CE/UL Recognized component according UL 8750/VDE/ENEC/EAC |

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Logistical data

| Product description | Temperature range at storage |
|----------------------------------|------------------------------|
| LFD400S -G1-827-06 ¹⁾ | -20...85 °C |
| LFD400S -G1-830-06 ¹⁾ | -20...85 °C |
| LFD400S -G1-840-06 ¹⁾ | -20...85 °C |
| LFD400S -G1-865-06 ¹⁾ | -20...85 °C |
| LFD600S -G1-827-06 ¹⁾ | -20...85 °C |
| LFD600S -G1-830-06 ¹⁾ | -20...85 °C |
| LFD600S -G1-840-06 ¹⁾ | -20...85 °C |
| LFD600S -G1-865-06 ¹⁾ | -20...85 °C |

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Application advice

For more detailed application information and graphics please see product datasheet.

Sales and Technical Support

Sales and Technical Support www.osram.com

Product family datasheet

Download Data

| File | |
|---|---|
|  | User instruction 728734_UI LINEARlight FLEX DIFFUSE |
|  | Brochures Light is freedom of design (EN) |
|  | Certificates VDE-ENEC Certificate |
|  | Certificates EAC Certificate |
|  | Declarations of conformity 726047_Declaration of Conformity_LINEARlight Flex Diffuse |
|  | Declarations of conformity 726048_Manufacturer Declaration_LINEARlight Flex Diffuse |
|  | Eulumdat 727608_Eulumdat_LFD400S-G1-827-06.ltd |
|  | IES data 727623_IES data_LFD400S-G1-827-06.ies |
|  | Eulumdat 727609_Eulumdat_LFD400S-G1-830-06.ltd |
|  | IES data 727624_IES data_LFD400S-G1-830-06.ies |
|  | Eulumdat 727610_Eulumdat_LFD400S-G1-840-06.ltd |
|  | IES data 727625_IES data_LFD400S-G1-840-06.ies |
|  | Eulumdat 727611_Eulumdat_LFD400S-G1-865-06.ltd |
|  | IES data 727626_IES data_LFD400S-G1-865-06.ies |
|  | Certificates UL Certificate, |
|  | Certificates UL Certificate |
|  | Declarations of conformity Declaration of conformity LFD600S and LFD800T |
|  | Declarations of conformity Manufacturer declaration LFD600S and LFD800T |

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|---------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4052899953611 | LFD400S -G1-827-06 | Shipping carton box 6 | 519 mm x 246 mm x 525 mm | 67.03 dm ³ | 8330.00 g |

Product family datasheet

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|---------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4052899953628 | LFD400S -G1-830-06 | Shipping carton box 6 | 519 mm x 246 mm x 525 mm | 67.03 dm ³ | 8330.00 g |
| 4052899953635 | LFD400S -G1-840-06 | Shipping carton box 6 | 519 mm x 246 mm x 525 mm | 67.03 dm ³ | 8330.00 g |
| 4052899953642 | LFD400S -G1-865-06 | Shipping carton box 6 | 519 mm x 246 mm x 525 mm | 67.03 dm ³ | 8330.00 g |
| 4052899499928 | LFD600S -G1-827-06 | Shipping carton box 6 | 519 mm x 246 mm x 525 mm | 67.03 dm ³ | 9194.00 g |
| 4052899499966 | LFD600S -G1-830-06 | Shipping carton box 6 | 519 mm x 246 mm x 525 mm | 67.03 dm ³ | 9194.00 g |
| 4052899500006 | LFD600S -G1-840-06 | Shipping carton box 6 | 519 mm x 246 mm x 525 mm | 67.03 dm ³ | 9194.00 g |
| 4052899500044 | LFD600S -G1-865-06 | Shipping carton box 6 | 519 mm x 246 mm x 525 mm | 67.03 dm ³ | 9194.00 g |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Accessories Mandatory

| Product description | Accessory name | Accessory code |
|---------------------|---|-----------------|
| LFD400S -G1-827-06 | LINEARlight FLEX DIFFUSE, -G1-CM2PF-IP67-500-X5 | ▶ 4052899451988 |
| LFD400S -G1-830-06 | LINEARlight FLEX DIFFUSE, -G1-CM2PF-IP67-500-X5 | ▶ 4052899451988 |
| LFD400S -G1-840-06 | LINEARlight FLEX DIFFUSE, -G1-CM2PF-IP67-500-X5 | ▶ 4052899451988 |
| LFD400S -G1-865-06 | LINEARlight FLEX DIFFUSE, -G1-CM2PF-IP67-500-X5 | ▶ 4052899451988 |

Accessories Optional

| Product description | Accessory name | Accessory code |
|---------------------|---|-----------------|
| LFD400S -G1-827-06 | LINEARlight FLEX DIFFUSE, -G1-BS-12H13 | ▶ 4052899452565 |
| LFD400S -G1-827-06 | LINEARlight FLEX DIFFUSE, -G1-BSL-12H13E9 | ▶ 4052899452596 |
| LFD400S -G1-827-06 | LINEARlight FLEX DIFFUSE, -G1-CM2PF-IP67-SIDEKIT5 | ▶ 4052899452022 |
| LFD400S -G1-827-06 | LINEARlight FLEX DIFFUSE, -G1-CM2PJ-IP67-0190-X5 | ▶ 4052899452046 |
| LFD400S -G1-827-06 | LINEARlight FLEX DIFFUSE, -G1-CM2PJ-IP67-SIDEKIT5 | ▶ 4052899452084 |
| LFD400S -G1-827-06 | LINEARlight FLEX DIFFUSE, -G1-ECS-KIT20 | ▶ 4052899452138 |
| LFD400S -G1-827-06 | LINEARlight FLEX DIFFUSE, -G1-EHS-KIT20 | ▶ 4052899452213 |
| LFD400S -G1-827-06 | LINEARlight FLEX DIFFUSE, -G1-GL-25 | ▶ 4052899452251 |
| LFD400S -G1-830-06 | LINEARlight FLEX DIFFUSE, -G1-BS-12H13 | ▶ 4052899452565 |
| LFD400S -G1-830-06 | LINEARlight FLEX DIFFUSE, -G1-BSL-12H13E9 | ▶ 4052899452596 |
| | | ▶ 4052899452022 |

Product family datasheet

| | | |
|--------------------|---|-----------------|
| LFD400S -G1-830-06 | LINEARlight FLEX DIFFUSE, -G1-CM2PF-IP67-SIDEKIT5 | |
| LFD400S -G1-830-06 | LINEARlight FLEX DIFFUSE, -G1-CM2PJ-IP67-0190-X5 | ▶ 4052899452046 |
| LFD400S -G1-830-06 | LINEARlight FLEX DIFFUSE, -G1-CM2PJ-IP67-SIDEKIT5 | ▶ 4052899452084 |
| LFD400S -G1-830-06 | LINEARlight FLEX DIFFUSE, -G1-ECS-KIT20 | ▶ 4052899452138 |
| LFD400S -G1-830-06 | LINEARlight FLEX DIFFUSE, -G1-EHS-KIT20 | ▶ 4052899452213 |
| LFD400S -G1-830-06 | LINEARlight FLEX DIFFUSE, -G1-GL-25 | ▶ 4052899452251 |
| LFD400S -G1-840-06 | LINEARlight FLEX DIFFUSE, -G1-BS-12H13 | ▶ 4052899452565 |
| LFD400S -G1-840-06 | LINEARlight FLEX DIFFUSE, -G1-BSL-12H13E9 | ▶ 4052899452596 |
| LFD400S -G1-840-06 | LINEARlight FLEX DIFFUSE, -G1-CM2PF-IP67-SIDEKIT5 | ▶ 4052899452022 |
| LFD400S -G1-840-06 | LINEARlight FLEX DIFFUSE, -G1-CM2PJ-IP67-0190-X5 | ▶ 4052899452046 |
| LFD400S -G1-840-06 | LINEARlight FLEX DIFFUSE, -G1-CM2PJ-IP67-SIDEKIT5 | ▶ 4052899452084 |
| LFD400S -G1-840-06 | LINEARlight FLEX DIFFUSE, -G1-ECS-KIT20 | ▶ 4052899452138 |
| LFD400S -G1-840-06 | LINEARlight FLEX DIFFUSE, -G1-EHS-KIT20 | ▶ 4052899452213 |
| LFD400S -G1-840-06 | LINEARlight FLEX DIFFUSE, -G1-GL-25 | ▶ 4052899452251 |
| LFD400S -G1-865-06 | LINEARlight FLEX DIFFUSE, -G1-BS-12H13 | ▶ 4052899452565 |
| LFD400S -G1-865-06 | LINEARlight FLEX DIFFUSE, -G1-BSL-12H13E9 | ▶ 4052899452596 |
| LFD400S -G1-865-06 | LINEARlight FLEX DIFFUSE, -G1-CM2PF-IP67-SIDEKIT5 | ▶ 4052899452022 |
| LFD400S -G1-865-06 | LINEARlight FLEX DIFFUSE, -G1-CM2PJ-IP67-0190-X5 | ▶ 4052899452046 |
| LFD400S -G1-865-06 | LINEARlight FLEX DIFFUSE, -G1-CM2PJ-IP67-SIDEKIT5 | ▶ 4052899452084 |
| LFD400S -G1-865-06 | LINEARlight FLEX DIFFUSE, -G1-ECS-KIT20 | ▶ 4052899452138 |
| LFD400S -G1-865-06 | LINEARlight FLEX DIFFUSE, -G1-EHS-KIT20 | ▶ 4052899452213 |
| LFD400S -G1-865-06 | LINEARlight FLEX DIFFUSE, -G1-GL-25 | ▶ 4052899452251 |

References / Links

System configurator tool is available online at <https://flex.osram.info/en/flex-configurator>

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.