



This ULTRA EDGE HO module features an edge lighting beam pattern that enables large light coverage per module and significantly reduces the number of modules per sign. These technologies allow for the lowest energy consumption and the lowest LED system cost in the market, reducing installation cost to sign makers and end-users.

**Applications:**

- Box signs (2-6 inches) in small to medium sizes, double face and single face
- Exterior linear fixtures for wall washing and billboard uplight



12V DC



5 YEAR LIMITED WARRANTY



CONSTANT CURRENT



50,000 HRS  
L70 LIFETIME

**ORDERING GUIDE**

| Part Number          | White Color Temp. | Module Spacing (mm) | Number of Modules |           | Nominal Light Output (lm)* |          |           |
|----------------------|-------------------|---------------------|-------------------|-----------|----------------------------|----------|-----------|
|                      |                   |                     | Per Foot          | Per Meter | Per Module                 | Per Foot | Per Meter |
| LS-U770-65K-E150-A   | 6500K             | 150                 | 2                 | 6.7       | 250                        | 500      | 1675      |
| LS-U770-57K-E150-A** | 5700K             | 150                 | 2                 | 6.7       | 250                        | 500      | 1675      |
| LS-U770-50K-E150-A   | 5000K             | 150                 | 2                 | 6.7       | 250                        | 500      | 1675      |
| LS-U770-40K-E150-A** | 4000K             | 150                 | 2                 | 6.7       | 250                        | 500      | 1675      |
| LS-U770-30K-E150-A** | 3000K             | 150                 | 2                 | 6.7       | 250                        | 500      | 1675      |
| LS-U770-27K-E150-A** | 2700K             | 150                 | 2                 | 6.7       | 240                        | 480      | 1608      |

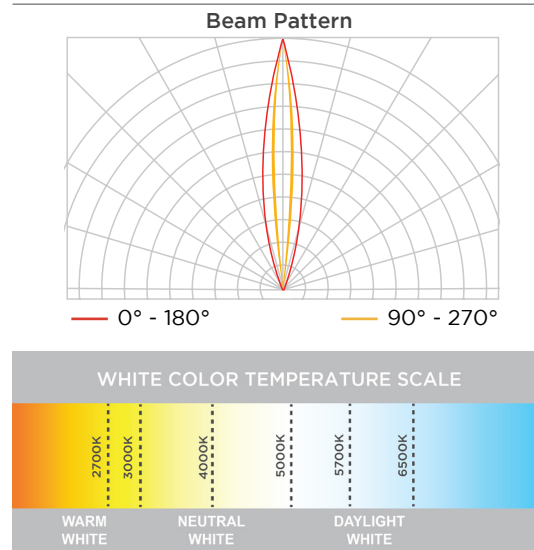
\*\* Limited stock

\* ± 10%

**PRODUCT RATINGS**

|                         |                                  |
|-------------------------|----------------------------------|
| Luminous Efficacy       | 91 lm/W @ 6500K                  |
| Wattage per Module      | 2.76 W Nominal<br>2.90 W Maximum |
| Input Voltage           | 12 VDC                           |
| Input Current           | 0.23 A/ module                   |
| Power Supply Loading    | 20 modules per 60 W              |
| Ingress Protection      | IP68                             |
| Operating Temperature   | -40 — 140 °F (-40 — 60 °C)       |
| Lifetime (L70 reported) | 50,000 hours @ 60 °C             |
| Warranty                | 5-year limited warranty          |

**LUMINOUS INTENSITY DISTRIBUTION**



**MODULE DIMENSIONS**

| Part Number        | Length (in./mm) | Width (in./mm) | Height (in./mm) |
|--------------------|-----------------|----------------|-----------------|
| LS-U770-xxK-E150-A | 4.13/105        | 0.69/17.6      | 0.57/14.5       |



## POWER SUPPLY LOADING

| LS-U770-XXK-E150-A |                    |                                         |                                                  |                 |                   |
|--------------------|--------------------|-----------------------------------------|--------------------------------------------------|-----------------|-------------------|
|                    | Power Supply       | Max. # of Modules Per Continuous String | Total # of Modules Per Power Supply <sup>1</sup> | Total # of Feet | Total # of Meters |
| UL CLASS 2         | 12 W               | 4                                       | 4                                                | 2.0             | 0.6               |
|                    | 15 W               | 5                                       | 5                                                | 2.5             | 0.8               |
|                    | 36 W               | 12                                      | 12                                               | 5.9             | 1.8               |
|                    | 60 W               | 19                                      | 20                                               | 9.8             | 3.0               |
|                    | 180 W <sup>2</sup> | 19                                      | 60                                               | 29.5            | 9.0               |
| UL CLASS 1         | 100 W              | 19                                      | 33                                               | 16.2            | 5.0               |
|                    | 150 W              | 19                                      | 49                                               | 24.1            | 7.4               |
|                    | 180 W              | 19                                      | 59                                               | 29.0            | 8.9               |
|                    | 220 W              | 19                                      | 72                                               | 35.4            | 10.8              |

Note 1. The number of modules in each of the parallel strings should not exceed the specified maximum.

2. 3 – 60 Watt Channels

## LAYOUT GUIDE (ENGLISH)

| Sign Type                                     | Mounting Configuration | Depth (in) | Reachout Length (ft) | Module Spacing (ft) | Lit Area/Module (ft <sup>2</sup> ) | Optical Requirements on Housing Materials |
|-----------------------------------------------|------------------------|------------|----------------------|---------------------|------------------------------------|-------------------------------------------|
| Single-Face (using 7328 white acrylic, 0.18") | On 1 edge              | 2          | 2.5                  | 0.38                | 0.95                               | Reflective white surface inside           |
|                                               |                        | 3          | 3.0                  | 0.38                | 1.14                               |                                           |
|                                               |                        | 4          | 3.5                  | 0.38                | 1.33                               |                                           |
|                                               |                        | 5          | 4.0                  | 0.38                | 1.52                               |                                           |
|                                               |                        | 6          | 4.0                  | 0.38                | 1.52                               |                                           |
|                                               | On 2 opposite edges    | 2          | 2 x 1.75             | 0.38                | 0.67                               | Reflective white surface inside           |
|                                               |                        | 3          | 2 x 2.5              | 0.38                | 0.95                               |                                           |
|                                               |                        | 4          | 2 x 2.5              | 0.38                | 0.95                               |                                           |
|                                               |                        | 5          | 2 x 2.5              | 0.38                | 0.95                               |                                           |
|                                               |                        | 6          | 2 x 2.5              | 0.38                | 0.95                               |                                           |
| Double-Face (using 7328 white acrylic, 0.18") | On 1 edge              | 2          | 2.0                  | 0.38                | 0.76                               | Reflective white surface inside           |
|                                               |                        | 3          | 2.5                  | 0.38                | 0.95                               |                                           |
|                                               |                        | 4          | 2.5                  | 0.38                | 0.95                               |                                           |
|                                               |                        | 5          | 2.5                  | 0.38                | 0.95                               |                                           |
|                                               |                        | 6          | 2.5                  | 0.38                | 0.95                               |                                           |
|                                               | On 2 opposite edges    | 2          | 2 x 1.5              | 0.38                | 0.57                               | Reflective white surface inside           |
|                                               |                        | 3          | 2 x 1.75             | 0.38                | 0.67                               |                                           |
|                                               |                        | 4          | 2 x 2.0              | 0.38                | 0.76                               |                                           |
|                                               |                        | 5          | 2 x 2.0              | 0.38                | 0.76                               |                                           |
|                                               |                        | 6          | 2 x 2.0              | 0.38                | 0.76                               |                                           |



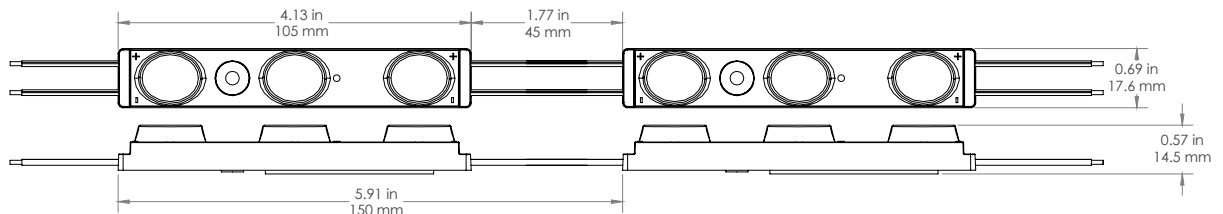
**LAYOUT GUIDE (METRIC)**

| Sign Type                                         | Mounting Configuration | Depth (mm) | Reachout Length (mm) | Module Spacing (mm) | Lit Area/Module (mm <sup>2</sup> ) | Optical Requirements on Housing Materials |
|---------------------------------------------------|------------------------|------------|----------------------|---------------------|------------------------------------|-------------------------------------------|
| Single-Face<br>(using 7328 white acrylic, 4.5 mm) | On 1 edge              | 50         | 760                  | 115                 | 87400                              | Reflective white surface inside           |
|                                                   |                        | 75         | 915                  | 115                 | 105225                             |                                           |
|                                                   |                        | 100        | 1065                 | 115                 | 122475                             |                                           |
|                                                   |                        | 125        | 1220                 | 115                 | 140300                             |                                           |
|                                                   |                        | 150        | 1220                 | 115                 | 140300                             |                                           |
|                                                   | On 2 opposite edges    | 50         | 2 x 535              | 115                 | 61525                              | Reflective white surface inside           |
|                                                   |                        | 75         | 2 x 760              | 115                 | 87400                              |                                           |
|                                                   |                        | 100        | 2 x 760              | 115                 | 87400                              |                                           |
|                                                   |                        | 125        | 2 x 760              | 115                 | 87400                              |                                           |
|                                                   |                        | 150        | 2 x 760              | 115                 | 87400                              |                                           |
| Double-Face<br>(using 7328 white acrylic, 4.5 mm) | On 1 edge              | 50         | 610                  | 115                 | 70150                              | Reflective white surface inside           |
|                                                   |                        | 75         | 760                  | 115                 | 87400                              |                                           |
|                                                   |                        | 100        | 760                  | 115                 | 87400                              |                                           |
|                                                   |                        | 125        | 760                  | 115                 | 87400                              |                                           |
|                                                   |                        | 150        | 760                  | 115                 | 87400                              |                                           |
|                                                   | On 2 opposite edges    | 50         | 2 x 455              | 115                 | 52325                              | Reflective white surface inside           |
|                                                   |                        | 75         | 2 x 535              | 115                 | 61525                              |                                           |
|                                                   |                        | 100        | 2 x 610              | 115                 | 70150                              |                                           |
|                                                   |                        | 125        | 2 x 610              | 115                 | 70150                              |                                           |
|                                                   |                        | 150        | 2 x 610              | 115                 | 70150                              |                                           |

**SHIPPING INFORMATION**

| Module Type        | Specs   | Packaging Quantity |         |            | Carton Weight     | Box Dimensions |      |     | Carton Dimensions |      |      |
|--------------------|---------|--------------------|---------|------------|-------------------|----------------|------|-----|-------------------|------|------|
|                    |         | Per Bag            | Per Box | Per Carton |                   | W              | D    | H   | W                 | D    | H    |
| LS-U770-xxK-E150-A | Modules | 30                 | 30      | 150        | 11.0 lb<br>5.0 kg | 15.5           | 11.5 | 2.0 | 16.1              | 12.0 | 11.2 |
|                    | Feet    | 15                 | 15      | 75         |                   | 395            | 295  | 50  | 410               | 305  | 285  |
|                    | Meters  | 4.6                | 4.6     | 23         |                   |                |      |     |                   |      |      |

**DIMENSION DRAWING**



1. UL ONLY - These products are only suitable for connection to a UL rated Class 2 power source rated 12 Volt or less.
2. UL ONLY - These products are intended for use only when connected to a power source that complies with UL rated Class 2 voltage and energy limited circuit.
3. UL ONLY -When these units are connected to a UL rated Class 2 circuit, they are not to draw a total wattage of greater than the secondary or output rating of the UL rated Class 2 power supply.
4. These products may be secured in place in the end product by any means available.
5. These products are suitable for use in dry, damp, and wet locations. Not suitable for submersed applications.

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