



**Day-Brite / CFI FluxSpace LED Linear** is a product that is perfect for a wide range of applications. Featuring a small form factor with a wide range of lumen packages and optical distributions, there is an abundance of both value and performance. FluxSpace contains features, options, and accessories, including scalable Interact controls, that allow it to fit into areas from education to warehousing.

Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lumens: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

### Ordering guide

example: **FLP440L840-R-UNV-DIM**

| Family         | Length            | Lumens <sup>1</sup> (nom.) | Efficacy | CRI/CCT                                         | Lens/Optics                                                                                                                                                                               | Voltage                                                                                                                                                                    | Driver                                                                                      | Options                                                                                         |                          |                                                                                                                                                          |
|----------------|-------------------|----------------------------|----------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>FLP</div> |                   |                            |          | —                                               | —                                                                                                                                                                                         | —                                                                                                                                                                          | —                                                                                           |                                                                                                 |                          |                                                                                                                                                          |
| FLP FluxSpace  | 2 2ft             | 20L                        | 2,000lm  | Blank Standard<br>HE <sup>3</sup> High Efficacy | 830 80CRI, 3000K<br>835 80CRI, 3500K<br>840 80CRI, 4000K<br>850 80CRI, 5000K<br>930 90CRI, 3000K<br>935 90CRI, 3500K<br>940 90CRI, 4000K<br>9TW <sup>4,5</sup> Tunable 90CRI, 2700K-6500K | R Round Frosted Lens<br>Q Square Frosted Lens<br>U Wide Uplight Frosted Lens<br>L No Lens<br>N Narrow Optic (No Lens)<br>W Wide Optic (No Lens)<br>A Aisle Optic (No Lens) | UNV Universal Voltage, 120-277V<br>120 120V<br>208 208V<br>240 240V<br>277 277V<br>347 347V | DIM Dimming (0-10V)<br>DALI <sup>5</sup> DALI<br>DTW <sup>5</sup> DALI controlled tunable white | SWZCS/E <sup>6,7</sup>   | Interact Pro scalable sensor w/integral daylight & occupancy sensing, advanced grouping w/dwell time (mounted on fixture end cap)                        |
|                |                   | 30L                        | 3,000lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 | SWZCS/S <sup>6,8</sup>   | Interact Pro scalable sensor w/integral daylight & occupancy sensing, advanced grouping w/dwell time (side mounted on fixture housing side)              |
|                |                   | 40L                        | 4,000lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 | SWZCSH <sup>6,9</sup>    | Interact Pro scalable high bay sensor w/integral daylight & occupancy sensing, advanced grouping w/dwell time                                            |
|                |                   | 45L                        | 4,500lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 | IAOSB/E <sup>6,7</sup>   | Interact Pro RF sensor, enables wireless connected lighting control (mounted on fixture end cap)                                                         |
|                |                   | 50L                        | 5,000lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 | IAOSB/S <sup>6,8</sup>   | Interact Pro RF sensor, enables wireless connected lighting control (side mounted on fixture housing side)                                               |
|                |                   | 60L                        | 6,000lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 | RADIO/E <sup>6,7</sup>   | Interact Office advanced wireless sensor bundle, integral SC1500 w/loT capabilities for enterprise scale projects (mounted on fixture end cap)           |
|                | 3 3ft             | 30L                        | 3,000lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 | RADIO/S <sup>6,8</sup>   | Interact Office advanced wireless sensor bundle, integral SC1500 w/loT capabilities for enterprise scale projects (side mounted on fixture housing side) |
|                |                   | 37L                        | 3,700lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 | MD360 <sup>9,10</sup>    | 360° Motion detector (ON/OFF)                                                                                                                            |
|                |                   | 45L                        | 4,500lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 | MD360D <sup>9,10</sup>   | 360° Motion detector (ON/DIM to 10%)                                                                                                                     |
|                |                   | 50L                        | 5,000lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 | BSL6LST <sup>11</sup>    | Factory wired 6W Bodine integral emergency pack, nominal 750 to 880 lumens                                                                               |
|                |                   | 60L                        | 6,000lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 | BSL10LST <sup>11</sup>   | Factory wired 10W Philips Bodine integral emergency pack, nominal 1300 to 1500 lumens                                                                    |
|                | 4 4ft             | 30L                        | 3,000lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 | ER100 <sup>12</sup>      | UL924 listed sensor bypass relay, factory installed between driver & sensor (Interact Pro compatible)                                                    |
|                |                   | 40L                        | 4,000lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 | ER100/HVPS <sup>12</sup> | UL924 listed sensor bypass relay, factory installed between driver & sensor for 347V Power Sense (Interact Pro compatible) - not available in 2ft        |
|                |                   | 50L                        | 5,000lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 | ER100/HVPI <sup>12</sup> | UL924 listed sensor bypass relay, factory installed between driver & sensor for 347V Power Interrupt (Interact Pro compatible) - not available in 2ft    |
|                |                   | 60L                        | 6,000lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 | GTD/E <sup>13</sup>      | UL924 listed Bodine GTD factory installed on driver input (Note: ONLY available in 120V OR 277V)                                                         |
|                |                   | 70L                        | 7,000lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 | PU(xx)                   | Power Connect options for through-wire connections may be ordered factory installed. See page (5) for more information (4ft and 8ft units only)          |
|                |                   | 80L                        | 8,000lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 |                          |                                                                                                                                                          |
|                |                   | 90L                        | 9,000lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 |                          |                                                                                                                                                          |
|                |                   | 100L                       | 10,000lm |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 |                          |                                                                                                                                                          |
|                |                   | 120L <sup>2</sup>          | 12,000lm |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 |                          |                                                                                                                                                          |
|                |                   | 8 8ft                      | 60L      |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 | 6,000lm                  |                                                                                                                                                          |
|                | 80L               |                            | 8,000lm  |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 |                          |                                                                                                                                                          |
|                | 100L              |                            | 10,000lm |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 |                          |                                                                                                                                                          |
|                | 120L              |                            | 12,000lm |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 |                          |                                                                                                                                                          |
|                | 140L              |                            | 14,000lm |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 |                          |                                                                                                                                                          |
|                | 160L              |                            | 16,000lm |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 |                          |                                                                                                                                                          |
|                | 180L              |                            | 18,000lm |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 |                          |                                                                                                                                                          |
|                | 200L              |                            | 20,000lm |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 |                          |                                                                                                                                                          |
|                | 240L <sup>2</sup> |                            | 24,000lm |                                                 |                                                                                                                                                                                           |                                                                                                                                                                            |                                                                                             |                                                                                                 |                          |                                                                                                                                                          |

- Nominal delivered lumens at 25°C ambient. Other lumen packages may be ordered in increments of 500lm up to maximum listed lumens for 2', 3', or 4' units and increments of 1000lm up to maximum listed lumens for 8' unit.
- Not available with Interact options (SWZCS/E, SWZCS/S, SWZCSH, IAOSB, or RADIO).
- Not available in 2ft 6000lm, 4ft 12000lm, or 8ft 24000lm.
- Not available with Narrow, Wide, or Aisle Optic options (6000lm maximum configurations only).
- ETO ready (consult factory for lead times).
- Must order **IRT9015** Interact commissioning remote with each system order, and available with **DIM** driver option only.
- Sensor mounted on fixture end cap (see page 6 for details).

- Sensor mounted on fixture housing side (see page 6 for details). Not available in any 2' unit with any emergency option.
- High bay motion detector, motion sensing zone is extremely limited if used below 15' mounting height.
- Not for use with SWZCS or SWZCSH option.
- Not available in 2ft unit with 347V.
- Must be installed in conjunction with a **UL1008** device (only used with **SWZCS** or **SWZCSH** integral sensing option).
- Must be installed in conjunction with a **UL1008** device (must specify voltage). Using Power Connect with the GTD/E option is ETO ready. Consult factory for lead times.

### General notes

Many luminaire components, such as reflectors, refactors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

# FLP FluxSpace Linear

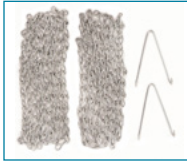
2', 3', 4' & 8'

## Accessories

Remote



Chain hanger set



Cable hanger set



Row joiner



Wire guard



Cable hanger kit



Cable hanger kit w/cord



No Lens end cap



Round end cap



Square end cap



Uplight end cap



Round lens



Square lens



Uplight lens



## Accessories (order separately)

| Catalog Numbers | Descriptions                                                                                                   | Notes                                                                                                                                         |
|-----------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| HCH5-VHOOK      | 5' Cable hanger set (pair) - Includes two 5' hanging cables with "V" hooks                                     |                                                                                                                                               |
| HCH10-VHOOK     | 10' Cable hanger set (pair) - Includes two 10' hanging cables with "V" hooks                                   |                                                                                                                                               |
| HCH15-VHOOK     | 15' Cable hanger set (pair) - Includes two 15' hanging cables with "V" hooks                                   |                                                                                                                                               |
| HCH20-VHOOK     | 20' Cable hanger set (pair) - Includes two 20' hanging cables with "V" hooks                                   |                                                                                                                                               |
| HNH5-VHOOK      | 54" Chain hanger set (pair) - Includes two 54" heavy duty link chains with "V" hooks                           |                                                                                                                                               |
| DACHxx          | Adjustable cable hanger kit with canopy (single)                                                               |                                                                                                                                               |
| DACHxx-1-SC     | Adjustable cable hanger kit with canopy and white straight 18/3 cord (single)**                                | Works with 1/4" hole on base of housing or TH hanger bracket.<br><br>xx = cable length in inches, enter 48" to 180" lengths in 12" increments |
| DACHxx-2-SC     | Adjustable cable hanger kit with canopy and white straight 18/4 cord (single)**                                |                                                                                                                                               |
| DACHxx-1D-SC    | Adjustable cable hanger kit with canopy and white straight 18/5 cord (single)**                                |                                                                                                                                               |
| DACHxx-1D-SC-EM | Adjustable cable hanger kit with canopy and white straight 18/6 cord (single)**                                |                                                                                                                                               |
| FLP-J           | Heavy duty internal row joiner                                                                                 |                                                                                                                                               |
| FLP-CMR         | Round plastic center lens mullion to use when row mounting                                                     |                                                                                                                                               |
| FLP-CMQ         | Square plastic center lens mullion to use when row mounting                                                    |                                                                                                                                               |
| FLP-CMU         | Uplight plastic center lens mullion to use when row mounting                                                   |                                                                                                                                               |
| FLP-WG2         | 2' Wire guard                                                                                                  | Cannot be used with housing side mounted Interact sensors.                                                                                    |
| FLP-WG3         | 3' Wire guard                                                                                                  |                                                                                                                                               |
| FLP-WG4         | 4' Wire guard (order two for 8' models)                                                                        |                                                                                                                                               |
| FLP-ECL         | No Lens plastic end cap - used for no lens and optic versions (set of two)                                     |                                                                                                                                               |
| FLP-ECR         | Round plastic end cap (set of two)                                                                             |                                                                                                                                               |
| FLP-ECQ         | Square plastic end cap (set of two)                                                                            |                                                                                                                                               |
| FLP-ECU         | Uplight plastic end cap (set of two)                                                                           |                                                                                                                                               |
| FLP-R2L         | 2' Round lens                                                                                                  |                                                                                                                                               |
| FLP-R3L         | 3' Round lens                                                                                                  |                                                                                                                                               |
| FLP-R4L         | 4' Round lens - order two for 8' models                                                                        |                                                                                                                                               |
| FLP-Q2L         | 2' Square lens                                                                                                 |                                                                                                                                               |
| FLP-Q3L         | 3' Square lens                                                                                                 |                                                                                                                                               |
| FLP-Q4L         | 4' Square lens - order two for 8' models                                                                       |                                                                                                                                               |
| FLP-U2L         | 2' Uplight lens                                                                                                |                                                                                                                                               |
| FLP-U3L         | 3' Uplight lens                                                                                                |                                                                                                                                               |
| FLP-U4L         | 4' Uplight lens - order two for 8' models                                                                      |                                                                                                                                               |
| TH-1            | Sliding hanger bracket, flush mounting (pair)                                                                  |                                                                                                                                               |
| TH-2            | Sliding hanger bracket, 1-1/2" spacing (pair)                                                                  |                                                                                                                                               |
| IRT9015         | SWZCS handheld remote for grouping and configuration (at least one remote required for any SWZCS installation) |                                                                                                                                               |

# FLP FluxSpace Linear

2', 3', 4' & 8'

## Models



No Lens or No Lens with Optic



Square with Frosted Lens



Round with Frosted Lens



Uplight with Frosted Lens

## Specifications

### Features

- Robust design for installation in new construction and renovated spaces.
- Available with CRI 80 or CRI 90 minimum color rendering.
- Easy access to LED boards and driver.
- Frosted acrylic diffuser options provide wide light distribution and superior glare control.
- Lengths of 2', 3', 4' and 8' available to accommodate many field applications.
- Up to 100,000 hour predicted L70 LED lumen maintenance provides long service life to reduce maintenance costs.
- Can be surface mounted on ceilings or walls, or suspended via chain, pendants or cables.
- Wall mountable – ADA compliant.
- Single piece plastic end caps provide finished aesthetic.
- Can handle cold applications (~20°C).
- Knock out of 7/8" provided at each end and on base of luminaire.
- Multiple driver options available with 0-10V as standard.
- Enclosed lens versions designed to minimize penetration of dust, insects, and other debris into the LED compartment.
- Tandem 8' unit is two 4' optical assemblies with a center mullion on a single full length chassis.
- FLP-J heavy duty row joiner is required for continuous row mounting. Use one FLP-J at each joint.
- Integral controls options include sensor mounted in control module extension mounted on fixture end or side.
- 5 year manufacturer's limited warranty. Visit [signify.com/warranties](https://signify.com/warranties) for complete warranty information.

### Finish

- Baked white acrylic matte high reflectance paint finish.

### Shielding

- Contoured frosted acrylic lenses.
- Option to have lensless version for highest lumen output.
- Optical distributions available for lensless version to allow for best fit beam placement.

### Electrical

- LED boards and drivers are RoHS (Restriction of Hazardous Substances) compliant. Total system life rated at 50,000 hours. Predicted L70 lifetime based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.
- Integral emergency driver with EMLED option. To estimate lumen output in emergency mode, multiply emergency pack wattage by efficacy, then by 1.10.
- The GTD/E option is used to bypass wall switches and allow luminaire operation on auxiliary power. Generator transfer requires installation in conjunction with a UL1008 listed device.

### Materials

- Heavy gauge cold rolled steel housing and LED plate. ABS plastic injection molded end caps.

### Labels

- cETLus listed to UL 1598 standards. Suitable for use in damp locations. See ambient temperature data table for standard ambient information.

### Ambient Temperature Data

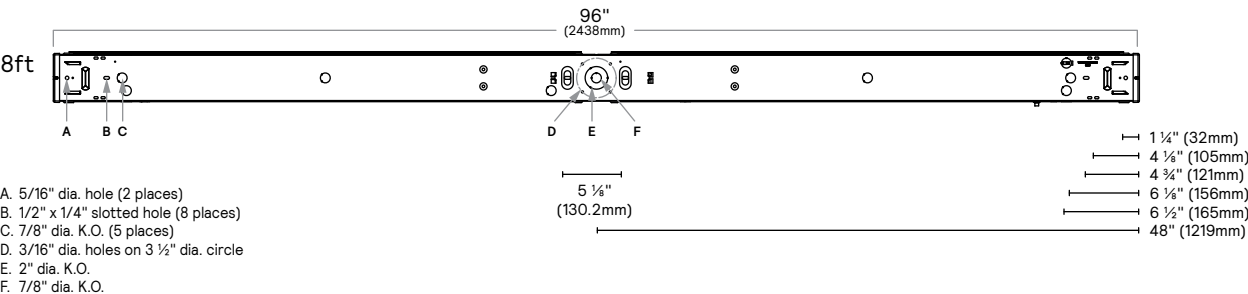
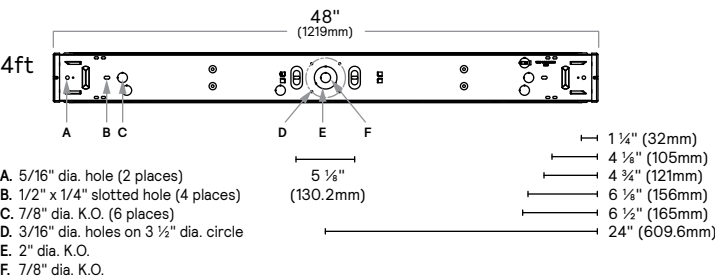
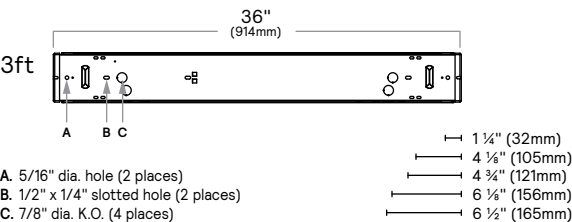
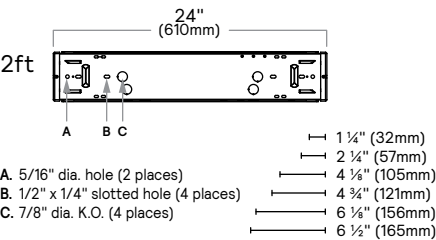
Maximum Ambient Table °C (minimum ambient -20°C)

| Configuration                                              | UNV | 347 | UNV w/<br>Interact | 347 w/<br>Interact |
|------------------------------------------------------------|-----|-----|--------------------|--------------------|
| FLP220L                                                    | 50  | 45  | 45                 | 45                 |
| FLP230L                                                    | 50  | 45  | 45                 | 45                 |
| FLP240L                                                    | 45  | 45  | 45                 | 45                 |
| FLP245L                                                    | 45  | 45  | 45                 | 40                 |
| FLP250L                                                    | 40  | 40  | 40                 | 40                 |
| FLP260L                                                    | 40  | 40  | 40                 | 40                 |
| FLP330L                                                    | 50  | 50  | 40                 | 40                 |
| FLP337L                                                    | 45  | 45  | 40                 | 40                 |
| FLP345L                                                    | 45  | 45  | 40                 | 40                 |
| FLP350L                                                    | 40  | 40  | 40                 | 40                 |
| FLP360L                                                    | 40  | 40  | 40                 | 40                 |
| FLP430L                                                    | 45  | 45  | 45                 | 45                 |
| FLP440L                                                    | 45  | 45  | 45                 | 45                 |
| FLP450L                                                    | 45  | 45  | 45                 | 45                 |
| FLP460L                                                    | 40  | 40  | 40                 | 40                 |
| FLP470L                                                    | 30  | 30  | 30                 | 30                 |
| FLP480L                                                    | 30  | 30  | 30                 | 30                 |
| FLP490L                                                    | 30  | 30  | 30                 | 30                 |
| FLP4100L                                                   | 30  | 30  | 30                 | 30                 |
| FLP4120L                                                   | 35  | 35  |                    |                    |
| FLP860L                                                    | 45  | 45  | 40                 | 40                 |
| FLP880L                                                    | 45  | 45  | 40                 | 40                 |
| FLP8100L                                                   | 40  | 40  | 40                 | 40                 |
| FLP8120L                                                   | 40  | 40  | 40                 | 40                 |
| FLP8140L                                                   | 30  | 30  | 30                 | 30                 |
| FLP8160L                                                   | 30  | 30  | 30                 | 30                 |
| FLP8180L                                                   | 30  | 30  | 30                 | 30                 |
| FLP8200L                                                   | 30  | 30  | 30                 | 30                 |
| FLP8240L                                                   | 35  | 35  |                    |                    |
| Any unit with<br>BSL6LST, BSL10LST,<br>or GTD/E (min. 0°C) | 30  | 30  | 30                 | 30                 |

# FLP FluxSpace Linear

2', 3', 4' & 8'

## Dimensions



### No Lens



### Square lens



### Round lens



### Uplight lens



# FLP FluxSpace Linear

2', 3', 4' & 8'

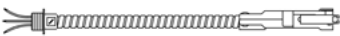
## Electro-Connect Modular Wiring System

### Features

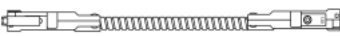
Electro-Connect is a pre-assembled modular wiring system designed to simplify the process of wiring and installing fixtures ultimately providing time and cost savings. With only three basic components, EC can be used to supply power in both high bay and low bay applications. For more information, visit us online at <https://www.signify.com/en-us/products/indoor-luminaires/modular-wiring/wiring-devices/electro-connect-ec-three> and <https://www.signify.com/en-us/products/indoor-luminaires/modular-wiring/wiring-devices/electro-connect-ec-three-plus>

### EC3 Modular Wiring System

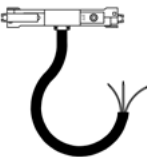
#### Distribution Cable



#### Extender Cable



#### Lighting 'T'



### EC3+ Modular Wiring System

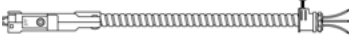
#### Double Headed Extender Cable



#### Double Headed Distribution Cable



#### Whip End Fixture Drop



## Power Connect Modular Wiring System

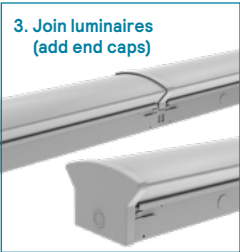
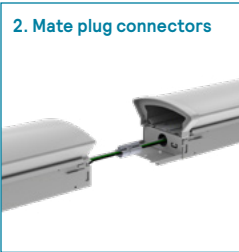
### Features

- Internal wiring harness for feed-thru row mounted applications factory installed in luminaire.
- Modular connection makes installation quick and easy.
- Round 600V rated 6-pin male connector at one end and female connector at opposite end. Simply plug together.
- Thru conductors are 12ga stranded, 90°C THHN, 600V rated.
- Internal component conductors are 18ga solid, 90°C TFN, 600V rated.

- Luminaire comes assembled with joiner bracket at one end and lens mullion connector (if lensed version) installed.
- End caps for the rows must be ordered as separate accessory items. See detailed accessory list on page 1.
- For luminaires with emergency devices installed, the black lead will be factory connected to the driver, and the red lead will factory connected as unswitched hot to the emergency device.

### Attention

- Always make initial power feed at the male connector end of the first luminaire. It is best to have the female connector at the end of the luminaire run.
- Using Power Connect with the GTD/E option is ETO ready. Consult factory for lead times.



### Option code suffix to luminaire catalog number

| Family          | Voltage                      | Circuits/Wiring                                                                              | Luminaire Length                                                                                                                                                 |
|-----------------|------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>P</div>    | <div>U</div>                 |                                                                                              |                                                                                                                                                                  |
| P Power connect | U Universal voltage 120-480V | 1 One circuit (black, white, green)<br>2 Two circuit or emergency (black, red, white, green) | 4 4' luminaire<br>4D 4' luminaire with additional dimming leads (purple, pink)<br>8 8' luminaire<br>8D 8' luminaire with additional dimming leads (purple, pink) |

Note: Option code suffix to luminaire catalog number.

# FLP FluxSpace Linear

2', 3', 4' & 8'

## Wireless Controls options

### Emergency Options (ER100)

- Power Sensing (Factory default) – Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output.
- Power Interruption Detection (Field option) – Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output.
- 347V requires step-down transformer and must be ordered indicating Power Sensing or Power Interruption Detection.

### Radio only sensor (RADIO)

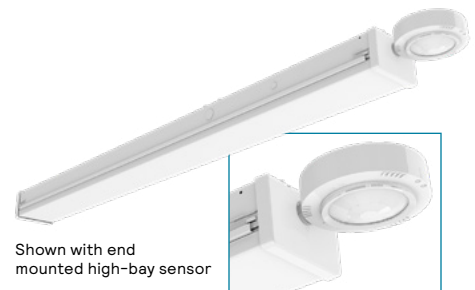
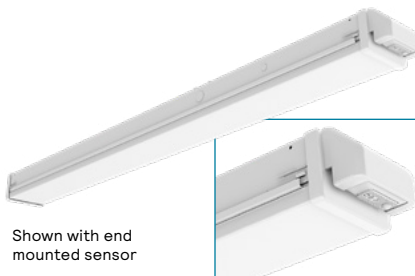
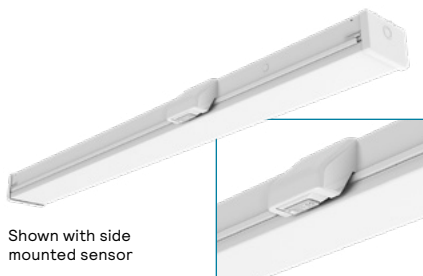
- Integral RADIO only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.
- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.

### Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (SWZCS/SWZCSH and an evolution of SpaceWise)

- SWZCS/SWZCSH is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & BlueTooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
- Compatible with:
  - UID8451/10 wireless dimmer switch
  - SWS200 wireless scene switch
  - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
  - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
  - Battery powered IP65 presence sensor OCC sensor IA CM IP65 WH
  - Battery powered IP65 presence & daylight sensor OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit:  
[www.interact-lighting.com/interactproscalablesystem](http://www.interact-lighting.com/interactproscalablesystem)

### Interact Pro scalable sensor bundles for Enterprise tier

- IAOSB option in addition to occupancy and daylight sensing supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1) and wireless Occupancy or Daylight & Occupancy sensors available.
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, visit:  
[www.interact-lighting.com/office](http://www.interact-lighting.com/office) or  
[www.usa.lighting.philips.com/systems/system-areas/offices](http://www.usa.lighting.philips.com/systems/system-areas/offices)



# FLP FluxSpace Linear

2', 3', 4' & 8'

## interact

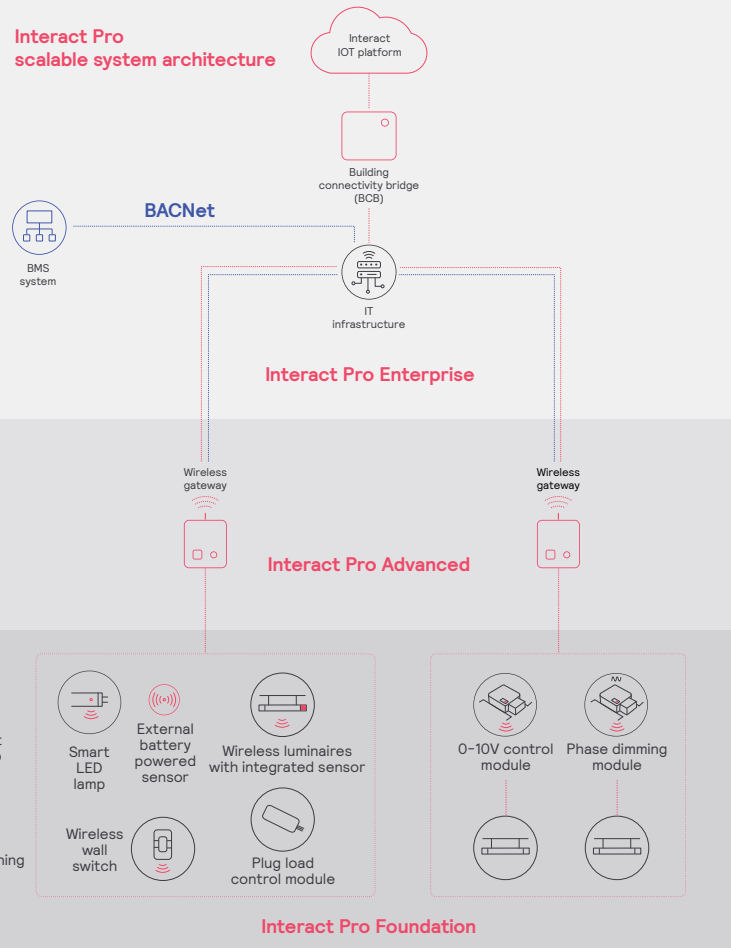
| Interact Pro scalable system                      |            |          |            |
|---------------------------------------------------|------------|----------|------------|
|                                                   | Foundation | Advanced | Enterprise |
| Dimming, grouping, and zoning                     | ✓          | ✓        | ✓          |
| Bluetooth and ZigBee enabled                      | ✓          | ✓        | ✓          |
| Motion sensing and daylight harvesting            | ✓          | ✓        | ✓          |
| Integration with 0-10V and phase dimming fixtures | ✓          | ✓        | ✓          |
| Code compliance                                   | ✓          | ✓        | ✓          |
| Granular dimming and dwell time                   | ✓          | ✓        | ✓          |
| Energy reporting and monitoring                   |            | ✓        | ✓          |
| Scheduling                                        |            | ✓        | ✓          |
| Demand response                                   |            | ✓        | ✓          |
| BMS integration (BACnet)                          |            |          | ✓          |
| Floor plan visualization                          |            |          | ✓          |
| IoT sensors for wellness                          |            |          | ✓          |
| IoT Apps for productivity                         |            |          | ✓          |

### Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

| System level                                                                         |                     |
|--------------------------------------------------------------------------------------|---------------------|
| Total number of gateways                                                             | Unlimited           |
| Total number of devices                                                              | 200 per network     |
| <ul style="list-style-type: none"> <li>luminaires with integrated sensors</li> </ul> | 150                 |
| <ul style="list-style-type: none"> <li>smart TLEDs</li> </ul>                        | 150                 |
| Total number of ZGP devices (sensors and switches)                                   | 50                  |
| <ul style="list-style-type: none"> <li>sensors</li> </ul>                            | 30                  |
| <ul style="list-style-type: none"> <li>switches</li> </ul>                           | 50                  |
| <ul style="list-style-type: none"> <li>zones and groups</li> </ul>                   | 64                  |
| Group level                                                                          |                     |
| Recommended number of lights                                                         | 40 (recommended 25) |
| Number of ZGP devices                                                                | 5                   |
| Number of scenes                                                                     | 16                  |

### Interact Pro scalable system architecture



# FLP FluxSpace Linear

2', 3', 4' & 8'

## Photometric Test List

| Adjustment Factors |                  |             |                  |
|--------------------|------------------|-------------|------------------|
| CRI/CCT            | Lumen Multiplier | CRI/CCT     | Lumen Multiplier |
| 80CRI/3000K        | 0.94             | 90CRI/3000K | 0.89             |
| 80CRI/3500K        | 0.96             | 90CRI/3500K | 0.91             |
| 80CRI/4000K        | 1.00             | 90CRI/4000K | 0.95             |
| 80CRI/5000K        | 1.00             |             |                  |

| Ordering Code | Input Watts | Round lens |          |          | Square lens |          |          | Uplight lens |          |          | No lens |          | Narrow optic |          | Wide optic |          | Aisle optic |          |
|---------------|-------------|------------|----------|----------|-------------|----------|----------|--------------|----------|----------|---------|----------|--------------|----------|------------|----------|-------------|----------|
|               |             | Lumens     | Efficacy | Uplight% | Lumens      | Efficacy | Uplight% | Lumens       | Efficacy | Uplight% | Lumens  | Efficacy | Lumens       | Efficacy | Lumens     | Efficacy | Lumens      | Efficacy |
| FLP220L840    | 13.8        | 1927       | 140      | 6.8      | 1941        | 141      | 3.9      | 1917         | 139      | 9.7      | 2113    | 153      | 1988         | 144      | 1993       | 144      | 1997        | 145      |
| FLP220LHE840  | 13.4        | 1978       | 148      | 6.8      | 1983        | 148      | 4.0      | 1957         | 146      | 9.6      | 2162    | 161      | 2052         | 153      | 2051       | 153      | 2049        | 153      |
| FLP230L840    | 22.3        | 2940       | 132      | 6.9      | 2961        | 133      | 3.9      | 2925         | 131      | 9.7      | 3224    | 145      | 3034         | 136      | 3041       | 136      | 3047        | 137      |
| FLP230LHE840  | 21.4        | 3078       | 144      | 6.9      | 3086        | 144      | 4.0      | 3046         | 142      | 9.6      | 3364    | 157      | 3193         | 149      | 3192       | 149      | 3189        | 149      |
| FLP240L840    | 28.8        | 4012       | 139      | 6.9      | 3993        | 139      | 4.1      | 3975         | 138      | 9.9      | 4332    | 150      | 4083         | 142      | 4119       | 143      | 4102        | 142      |
| FLP240LHE840  | 27.8        | 4084       | 147      | 7.1      | 4047        | 146      | 4.1      | 4052         | 146      | 9.7      | 4495    | 162      | 4203         | 151      | 4222       | 152      | 4194        | 151      |
| FLP245L840    | 33.5        | 4557       | 136      | 6.9      | 4535        | 135      | 4.1      | 4515         | 135      | 9.9      | 4920    | 147      | 4637         | 138      | 4678       | 140      | 4659        | 139      |
| FLP245LHE840  | 32.3        | 4687       | 145      | 7.1      | 4645        | 144      | 4.1      | 4650         | 144      | 9.7      | 5159    | 160      | 4824         | 149      | 4845       | 150      | 4813        | 149      |
| FLP250L840    | 37.9        | 5028       | 133      | 6.9      | 5004        | 132      | 4.1      | 4982         | 131      | 9.9      | 5430    | 143      | 5117         | 135      | 5163       | 136      | 5141        | 136      |
| FLP250LHE840  | 36.1        | 5110       | 142      | 7.1      | 5065        | 140      | 4.1      | 5071         | 140      | 9.7      | 5625    | 156      | 5260         | 146      | 5283       | 146      | 5248        | 145      |
| FLP260L840    | 43.9        | 6129       | 140      | 7.0      | 6074        | 138      | 4.1      | 6081         | 139      | 9.7      | 6746    | 153      | 6309         | 144      | 6336       | 144      | 6294        | 143      |
| FLP330L840    | 20.3        | 3084       | 152      | 6.6      | 3064        | 152      | 3.6      | 3061         | 152      | 9.2      | 3285    | 162      | 3085         | 152      | 3127       | 155      | 3098        | 153      |
| FLP330LHE840  | 19.8        | 3082       | 156      | 6.7      | 3062        | 155      | 3.9      | 3075         | 155      | 9.3      | 3319    | 168      | 3083         | 155      | 3121       | 158      | 3107        | 157      |
| FLP337L840    | 25.3        | 3791       | 150      | 6.6      | 3767        | 149      | 3.6      | 3763         | 149      | 9.2      | 4038    | 160      | 3792         | 150      | 3844       | 152      | 3808        | 151      |
| FLP337LHE840  | 24.6        | 3810       | 155      | 6.7      | 3784        | 154      | 3.9      | 3801         | 155      | 9.3      | 4103    | 167      | 3811         | 155      | 3858       | 157      | 3841        | 156      |
| FLP345L840    | 31.1        | 4572       | 147      | 6.6      | 4533        | 146      | 3.6      | 4564         | 147      | 9.4      | 4896    | 157      | 4573         | 147      | 4599       | 148      | 4575        | 147      |
| FLP345LHE840  | 30.2        | 4637       | 154      | 6.8      | 4575        | 151      | 3.8      | 4625         | 153      | 9.5      | 4989    | 165      | 4621         | 153      | 4672       | 155      | 4656        | 154      |
| FLP350L840    | 35.3        | 5055       | 143      | 6.6      | 5012        | 142      | 3.6      | 5047         | 143      | 9.4      | 5414    | 153      | 5057         | 143      | 5085       | 144      | 5059        | 143      |
| FLP350LHE840  | 34.2        | 5146       | 150      | 6.8      | 5078        | 148      | 3.8      | 5133         | 150      | 9.5      | 5537    | 162      | 5129         | 150      | 5185       | 152      | 5167        | 151      |
| FLP360L840    | 42.6        | 5960       | 140      | 6.6      | 5909        | 139      | 3.6      | 5950         | 140      | 9.4      | 6382    | 150      | 5961         | 140      | 5995       | 141      | 5964        | 140      |
| FLP360LHE840  | 41.4        | 6161       | 149      | 6.8      | 6079        | 147      | 3.8      | 6145         | 149      | 9.5      | 6629    | 160      | 6140         | 149      | 6208       | 150      | 6186        | 150      |
| FLP430L840    | 20.0        | 3039       | 152      | 6.6      | 2999        | 150      | 5.3      | 3065         | 153      | 10.9     | 3239    | 161      | 3047         | 152      | 3084       | 153      | 3079        | 154      |
| FLP430LHE840  | 19.6        | 3106       | 158      | 6.6      | 3070        | 157      | 4.9      | 3111         | 159      | 10.4     | 3290    | 168      | 3105         | 158      | 3134       | 160      | 3125        | 159      |
| FLP440L840    | 27.0        | 3973       | 147      | 6.6      | 3920        | 145      | 5.3      | 4006         | 148      | 10.9     | 4234    | 157      | 3983         | 148      | 4031       | 149      | 4025        | 149      |
| FLP440LHE840  | 26.2        | 4096       | 156      | 6.6      | 4048        | 154      | 4.9      | 4101         | 157      | 10.4     | 4338    | 166      | 4094         | 156      | 4132       | 158      | 4120        | 157      |
| FLP450L840    | 34.1        | 4862       | 143      | 6.6      | 4797        | 141      | 5.3      | 4903         | 144      | 10.9     | 5181    | 152      | 4874         | 143      | 4933       | 145      | 4926        | 144      |
| FLP450LHE840  | 32.9        | 5055       | 154      | 6.6      | 4996        | 152      | 4.9      | 5062         | 154      | 10.4     | 5354    | 163      | 5053         | 154      | 5100       | 155      | 5085        | 155      |
| FLP460L840    | 40.8        | 6076       | 149      | 6.6      | 5929        | 145      | 4.3      | 6003         | 147      | 9.8      | 6401    | 157      | 6050         | 148      | 6058       | 148      | 6057        | 148      |
| FLP460LHE840  | 39.6        | 6164       | 156      | 6.6      | 5964        | 151      | 4.7      | 6061         | 153      | 10.1     | 6523    | 165      | 6088         | 154      | 6145       | 155      | 6122        | 155      |
| FLP470L840    | 48.2        | 7031       | 146      | 6.6      | 6860        | 142      | 4.3      | 6946         | 144      | 9.8      | 7407    | 154      | 7001         | 145      | 7010       | 146      | 7009        | 146      |
| FLP470LHE840  | 46.6        | 7200       | 155      | 6.7      | 6966        | 149      | 4.7      | 7080         | 152      | 10.1     | 7620    | 163      | 7112         | 153      | 7178       | 154      | 7151        | 153      |
| FLP480L840    | 56.5        | 8042       | 143      | 6.6      | 7847        | 139      | 4.3      | 7945         | 141      | 9.8      | 8472    | 150      | 8008         | 142      | 8019       | 142      | 8017        | 142      |
| FLP480LHE840  | 54.5        | 8318       | 153      | 6.7      | 8048        | 148      | 4.7      | 8179         | 150      | 10.1     | 8803    | 162      | 8216         | 151      | 8293       | 152      | 8261        | 152      |
| FLP490L840    | 65.7        | 9015       | 137      | 6.6      | 8839        | 135      | 4.3      | 8955         | 136      | 9.8      | 9556    | 145      | 9026         | 137      | 9061       | 138      | 9082        | 138      |
| FLP490LHE840  | 63.2        | 9389       | 149      | 6.7      | 9152        | 145      | 4.7      | 9318         | 147      | 10.1     | 10056   | 159      | 9353         | 148      | 9436       | 149      | 9405        | 149      |
| FLP4100L840   | 74.4        | 10033      | 135      | 6.6      | 9837        | 132      | 4.3      | 9966         | 134      | 9.8      | 10635   | 143      | 10045        | 135      | 10084      | 135      | 10107       | 135      |
| FLP4100LHE840 | 71.7        | 10531      | 148      | 6.7      | 10265       | 143      | 4.7      | 10451        | 146      | 10.1     | 11279   | 157      | 10491        | 146      | 10584      | 148      | 10549       | 147      |
| FLP4120L840   | 83.1        | 12002      | 146      | 6.7      | 11629       | 140      | 4.6      | 11831        | 142      | 10.3     | 12823   | 154      | 12010        | 144      | 12110      | 145      | 12108       | 145      |
| FLP860L840    | 40.0        | 6121       | 154      | 6.6      | 6039        | 152      | 5.3      | 6173         | 154      | 10.9     | 6523    | 163      | 6137         | 153      | 6211       | 155      | 6202        | 155      |
| FLP860LHE840  | 39.0        | 6256       | 160      | 6.6      | 6184        | 159      | 4.9      | 6265         | 161      | 10.4     | 6627    | 170      | 6254         | 160      | 6313       | 162      | 6294        | 161      |
| FLP880L840    | 53.7        | 8002       | 149      | 6.6      | 7895        | 147      | 5.3      | 8069         | 150      | 10.9     | 8527    | 159      | 8022         | 149      | 8119       | 151      | 8107        | 151      |
| FLP880LHE840  | 52.1        | 8249       | 158      | 6.6      | 8153        | 156      | 4.9      | 8260         | 159      | 10.4     | 8737    | 168      | 8246         | 158      | 8323       | 160      | 8298        | 159      |
| FLP8100L840   | 67.9        | 9792       | 144      | 6.6      | 9661        | 142      | 5.3      | 9874         | 145      | 10.9     | 10435   | 154      | 9817         | 145      | 9936       | 146      | 9920        | 146      |
| FLP8100LHE840 | 65.5        | 10181      | 155      | 6.6      | 10062       | 154      | 4.9      | 10195        | 156      | 10.4     | 10784   | 165      | 10177        | 155      | 10272      | 157      | 10242       | 156      |
| FLP8120L840   | 81.2        | 12237      | 151      | 6.6      | 11940       | 147      | 4.3      | 12090        | 149      | 9.8      | 12892   | 159      | 12186        | 150      | 12201      | 150      | 12200       | 150      |
| FLP8120LHE840 | 78.8        | 12415      | 158      | 6.6      | 12011       | 152      | 4.7      | 12208        | 155      | 10.1     | 13138   | 167      | 12262        | 156      | 12377      | 157      | 12330       | 156      |
| FLP8140L840   | 95.9        | 14160      | 148      | 6.6      | 13817       | 144      | 4.3      | 13990        | 146      | 9.8      | 14918   | 156      | 14101        | 147      | 14119      | 148      | 14117       | 148      |
| FLP8140LHE840 | 92.7        | 14502      | 157      | 6.7      | 14031       | 151      | 4.7      | 14260        | 154      | 10.1     | 15347   | 165      | 14324        | 155      | 14458      | 156      | 14403       | 155      |
| FLP8160L840   | 112.4       | 16197      | 144      | 6.6      | 15804       | 141      | 4.3      | 16003        | 142      | 9.8      | 17064   | 152      | 16129        | 143      | 16150      | 144      | 16148       | 144      |
| FLP8160LHE840 | 108.5       | 16753      | 154      | 6.7      | 16209       | 149      | 4.7      | 16474        | 152      | 10.1     | 17730   | 163      | 16548        | 153      | 16702      | 154      | 16639       | 153      |
| FLP8180L840   | 130.7       | 18156      | 139      | 6.6      | 17803       | 136      | 4.3      | 18036        | 138      | 9.8      | 19247   | 147      | 18179        | 139      | 18250      | 140      | 18292       | 140      |
| FLP8180LHE840 | 125.8       | 18910      | 150      | 6.7      | 18432       | 147      | 4.7      | 18766        | 149      | 10.1     | 20253   | 161      | 18838        | 150      | 19005      | 151      | 18942       | 151      |
| FLP8200L840   | 148.1       | 20206      | 136      | 6.6      | 19813       | 134      | 4.3      | 20073        | 136      | 9.8      | 21420   | 144      | 20232        | 136      | 20310      | 137      | 20358       | 137      |
| FLP8200LHE840 | 142.7       | 21211      | 149      | 6.7      | 20675       | 145      | 4.7      | 21050        | 148      | 10.1     | 22718   | 159      | 21130        | 148      | 21317      | 149      | 21247       | 149      |
| FLP8240L840   | 165.6       | 24173      | 147      | 6.7      | 23421       | 142      | 4.6      | 23828        | 144      | 10.3     | 25827   | 156      | 24189        | 146      | 24390      | 147      | 24386       | 147      |

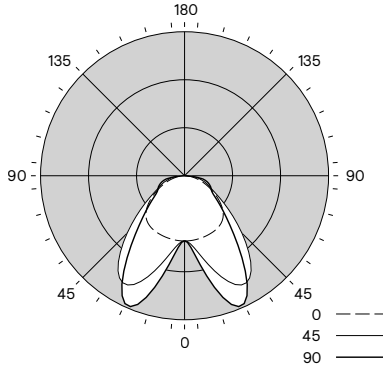
# FLP FluxSpace Linear

2', 3', 4' & 8'

## Photometry

### FLP430L840-A-UNV-DIM

Luminaire Lumens 3079  
Luminaire Efficacy Rating (LER) 154  
Total Luminaire Watts 20.0  
Spacing Criterion (0-180) 1.44  
Spacing Criterion (90-270) 1.72



| Candela Distribution |     |      |      |      |      | Flux   |
|----------------------|-----|------|------|------|------|--------|
|                      | 0   | 22.5 | 45   | 67.5 | 90   | Lumens |
| 0                    | 678 | 678  | 678  | 678  | 678  |        |
| 5                    | 679 | 691  | 713  | 736  | 748  | 71     |
| 15                   | 671 | 764  | 958  | 1131 | 1204 | 273    |
| 25                   | 659 | 872  | 1251 | 1434 | 1470 | 527    |
| 35                   | 635 | 927  | 1209 | 1109 | 1043 | 634    |
| 45                   | 571 | 798  | 846  | 665  | 617  | 561    |
| 55                   | 433 | 552  | 504  | 404  | 389  | 422    |
| 65                   | 277 | 326  | 301  | 292  | 304  | 302    |
| 75                   | 146 | 181  | 195  | 222  | 244  | 210    |
| 85                   | 41  | 68   | 82   | 80   | 83   | 80     |
| 90                   | 5   | 4    | 4    | 2    | 2    |        |

| Zonal Lumen Summary |        |          |        |
|---------------------|--------|----------|--------|
| Zone                | Lumens | %Fixture | %Lamp  |
| 0-30                | 870    | 28.3%    | 28.3%  |
| 0-40                | 1504   | 48.9%    | 48.9%  |
| 0-60                | 2487   | 80.8%    | 80.8%  |
| 0-90                | 3079   | 100.0%   | 100.0% |

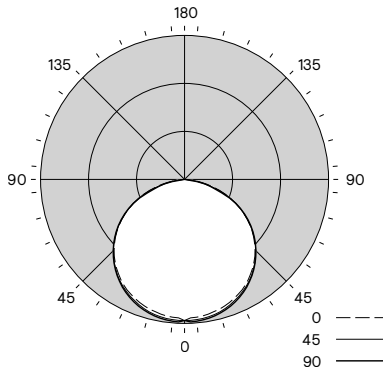
| Avg. Luminance (cd/m²) |      |      |      |
|------------------------|------|------|------|
|                        | 0    | 45   | 90   |
| 45                     | 6707 | 9941 | 7255 |
| 55                     | 6281 | 7306 | 5639 |
| 65                     | 5447 | 5911 | 5974 |
| 75                     | 4680 | 6273 | 7831 |
| 85                     | 3911 | 7859 | 7888 |

| Coefficients of Utilization % (Based on a floor reflectance of 0.2) |     |     |     |     |     |     |     |     |     |     |     |
|---------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pc---                                                               | 80  |     |     |     | 70  |     |     | 50  |     |     | 0   |
| Pw---                                                               | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 50  | 30  | 10  | 0   |
| RCR                                                                 |     |     |     |     |     |     |     |     |     |     |     |
| 0                                                                   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 100 |
| 1                                                                   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 97  | 94  | 91  | 84  |
| 2                                                                   | 99  | 91  | 84  | 78  | 96  | 89  | 83  | 85  | 80  | 76  | 70  |
| 3                                                                   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 76  | 69  | 64  | 60  |
| 4                                                                   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 67  | 60  | 55  | 51  |
| 5                                                                   | 76  | 64  | 55  | 48  | 74  | 63  | 54  | 61  | 53  | 47  | 44  |
| 6                                                                   | 71  | 57  | 49  | 42  | 69  | 56  | 48  | 55  | 47  | 42  | 39  |
| 7                                                                   | 65  | 52  | 43  | 37  | 64  | 51  | 43  | 50  | 42  | 37  | 34  |
| 8                                                                   | 61  | 47  | 39  | 33  | 59  | 47  | 39  | 45  | 38  | 33  | 31  |
| 9                                                                   | 57  | 43  | 35  | 30  | 55  | 43  | 35  | 42  | 35  | 29  | 27  |
| 10                                                                  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 38  | 31  | 27  | 25  |

\*Based on a floor reflectance of 0.2

### FLP430L840-L-UNV-DIM

Luminaire Lumens 3239  
Luminaire Efficacy Rating (LER) 161  
Total Luminaire Watts 20.1  
Spacing Criterion (0-180) 1.30  
Spacing Criterion (90-270) 1.32



| Candela Distribution |      |      |      |      |      | Flux   |
|----------------------|------|------|------|------|------|--------|
|                      | 0    | 22.5 | 45   | 67.5 | 90   | Lumens |
| 0                    | 1078 | 1078 | 1078 | 1078 | 1078 |        |
| 5                    | 1057 | 1072 | 1075 | 1079 | 1087 | 102    |
| 15                   | 1027 | 1042 | 1047 | 1048 | 1056 | 295    |
| 25                   | 968  | 979  | 984  | 988  | 993  | 453    |
| 35                   | 880  | 889  | 894  | 891  | 897  | 557    |
| 45                   | 761  | 767  | 770  | 766  | 770  | 592    |
| 55                   | 610  | 615  | 614  | 613  | 618  | 548    |
| 65                   | 428  | 433  | 431  | 431  | 432  | 424    |
| 75                   | 229  | 230  | 212  | 197  | 202  | 229    |
| 85                   | 48   | 41   | 6    | 5    | 5    | 38     |
| 90                   | 1    | 1    | 1    | 1    | 1    |        |

| Zonal Lumen Summary |        |          |        |
|---------------------|--------|----------|--------|
| Zone                | Lumens | %Fixture | %Lamp  |
| 0-30                | 851    | 26.3%    | 26.3%  |
| 0-40                | 1408   | 43.5%    | 43.5%  |
| 0-60                | 2547   | 78.7%    | 78.7%  |
| 0-90                | 3239   | 100.0%   | 100.0% |

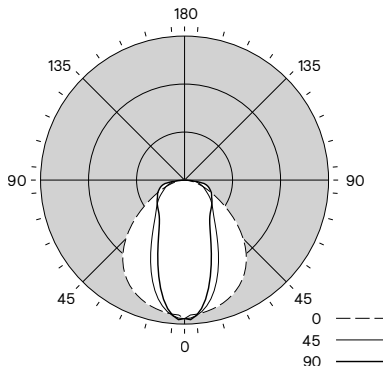
| Avg. Luminance (cd/m²) |      |      |      |
|------------------------|------|------|------|
|                        | 0    | 45   | 90   |
| 45                     | 8948 | 9055 | 9056 |
| 55                     | 8847 | 8905 | 8958 |
| 65                     | 8421 | 8470 | 8500 |
| 75                     | 7346 | 6809 | 6475 |
| 85                     | 4550 | 525  | 429  |

| Coefficients of Utilization % (Based on a floor reflectance of 0.2) |     |     |     |     |     |     |     |     |     |     |     |
|---------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pc---                                                               | 80  |     |     |     | 70  |     |     | 50  |     |     | 0   |
| Pw---                                                               | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 50  | 30  | 10  | 0   |
| RCR                                                                 |     |     |     |     |     |     |     |     |     |     |     |
| 0                                                                   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 100 |
| 1                                                                   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 98  | 94  | 91  | 84  |
| 2                                                                   | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 85  | 80  | 75  | 70  |
| 3                                                                   | 90  | 79  | 71  | 64  | 87  | 78  | 70  | 75  | 68  | 63  | 58  |
| 4                                                                   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 66  | 59  | 53  | 49  |
| 5                                                                   | 75  | 62  | 53  | 47  | 73  | 61  | 53  | 59  | 52  | 46  | 43  |
| 6                                                                   | 70  | 56  | 47  | 40  | 68  | 55  | 46  | 53  | 46  | 40  | 37  |
| 7                                                                   | 64  | 51  | 42  | 36  | 63  | 50  | 41  | 48  | 41  | 35  | 33  |
| 8                                                                   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 44  | 37  | 31  | 29  |
| 9                                                                   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 41  | 33  | 28  | 26  |
| 10                                                                  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 37  | 30  | 25  | 23  |

\*Based on a floor reflectance of 0.2

### FLP430L840-N-UNV-DIM

Luminaire Lumens 3047  
Luminaire Efficacy Rating (LER) 152  
Total Luminaire Watts 20.1  
Spacing Criterion (0-180) 1.24  
Spacing Criterion (90-270) 0.70



| Candela Distribution |      |      |      |      |      | Flux   |
|----------------------|------|------|------|------|------|--------|
|                      | 0    | 22.5 | 45   | 67.5 | 90   | Lumens |
| 0                    | 1732 | 1732 | 1732 | 1732 | 1732 |        |
| 5                    | 1683 | 1707 | 1701 | 1691 | 1699 | 159    |
| 15                   | 1630 | 1587 | 1431 | 1290 | 1246 | 401    |
| 25                   | 1521 | 1338 | 1002 | 814  | 768  | 495    |
| 35                   | 1333 | 994  | 665  | 566  | 551  | 497    |
| 45                   | 1037 | 669  | 496  | 471  | 475  | 463    |
| 55                   | 673  | 446  | 387  | 397  | 417  | 398    |
| 65                   | 367  | 285  | 284  | 336  | 369  | 316    |
| 75                   | 167  | 171  | 205  | 261  | 303  | 231    |
| 85                   | 45   | 69   | 88   | 86   | 93   | 88     |
| 90                   | 5    | 5    | 4    | 3    | 2    |        |

| Zonal Lumen Summary |        |          |        |
|---------------------|--------|----------|--------|
| Zone                | Lumens | %Fixture | %Lamp  |
| 0-30                | 1055   | 34.6%    | 34.6%  |
| 0-40                | 1552   | 50.9%    | 50.9%  |
| 0-60                | 2413   | 79.2%    | 79.2%  |
| 0-90                | 3047   | 100.0%   | 100.0% |

| Avg. Luminance (cd/m²) |       |      |      |
|------------------------|-------|------|------|
|                        | 0     | 45   | 90   |
| 45                     | 12191 | 5831 | 5587 |
| 55                     | 9750  | 5610 | 6045 |
| 65                     | 7209  | 5584 | 7266 |
| 75                     | 5364  | 6584 | 9729 |
| 85                     | 4245  | 8375 | 8880 |

| Coefficients of Utilization % (Based on a floor reflectance of 0.2) |     |     |     |     |     |     |     |     |     |     |     |
|---------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pc---                                                               | 80  |     |     |     | 70  |     |     | 50  |     |     | 0   |
| Pw---                                                               | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 50  | 30  | 10  | 0   |
| RCR                                                                 |     |     |     |     |     |     |     |     |     |     |     |
| 0                                                                   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 100 |
| 1                                                                   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 97  | 94  | 91  | 84  |
| 2                                                                   | 99  | 91  | 85  | 79  | 97  | 89  | 83  | 86  | 81  | 76  | 71  |
| 3                                                                   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 76  | 70  | 65  | 61  |
| 4                                                                   | 84  | 72  | 64  | 58  | 82  | 71  | 63  | 69  | 62  | 56  | 53  |
| 5                                                                   | 78  | 65  | 57  | 50  | 76  | 64  | 56  | 62  | 55  | 50  | 47  |
| 6                                                                   | 72  | 60  | 51  | 45  | 70  | 59  | 51  | 57  | 50  | 44  | 41  |
| 7                                                                   | 67  | 55  | 46  | 40  | 66  | 54  | 46  | 52  | 45  | 40  | 37  |
| 8                                                                   | 63  | 50  | 42  | 36  | 62  | 50  | 42  | 48  | 41  | 36  | 34  |
| 9                                                                   | 59  | 47  | 39  | 33  | 58  | 46  | 38  | 45  | 38  | 33  | 31  |
| 10                                                                  | 56  | 43  | 36  | 31  | 55  | 43  | 35  | 42  | 35  | 30  | 28  |

\*Based on a floor reflectance of 0.2

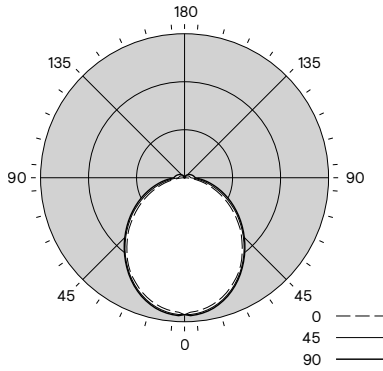
# FLP FluxSpace Linear

## 2', 3', 4' & 8'

### Photometry

#### FLP430L840-Q-UNV-DIM

Luminaire Lumens 2999  
Luminaire Efficacy Rating (LER) 150  
Total Luminaire Watts 20.0  
Spacing Criterion (0-180) 1.20  
Spacing Criterion (90-270) 1.22



| Candela Distribution |      |      |      |      |      | Flux   |
|----------------------|------|------|------|------|------|--------|
|                      | 0    | 22.5 | 45   | 67.5 | 90   | Lumens |
| 0                    | 1046 | 1046 | 1046 | 1046 | 1046 |        |
| 5                    | 1024 | 1037 | 1042 | 1045 | 1050 | 99     |
| 15                   | 976  | 989  | 995  | 998  | 1004 | 280    |
| 25                   | 884  | 896  | 902  | 906  | 911  | 415    |
| 35                   | 761  | 769  | 778  | 781  | 785  | 485    |
| 45                   | 613  | 622  | 635  | 641  | 646  | 488    |
| 55                   | 455  | 470  | 488  | 498  | 503  | 433    |
| 65                   | 302  | 319  | 339  | 358  | 365  | 334    |
| 75                   | 159  | 177  | 201  | 225  | 235  | 212    |
| 85                   | 38   | 58   | 87   | 113  | 124  | 95     |
| 90                   | 2    | 21   | 48   | 73   | 83   |        |

| Zonal Lumen Summary |        |          |        |
|---------------------|--------|----------|--------|
| Zone                | Lumens | %Fixture | %Lamp  |
| 0-30                | 793    | 26.5%    | 26.5%  |
| 0-40                | 1278   | 42.6%    | 42.6%  |
| 0-60                | 2199   | 73.3%    | 73.3%  |
| 0-90                | 2840   | 94.7%    | 94.7%  |
| 0-180               | 2999   | 100.0%   | 100.0% |
| 90-180              | 155    | 5.2%     | 5.2%   |

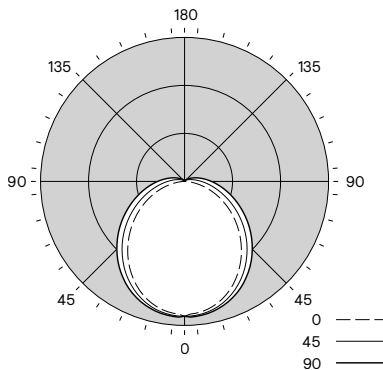
| Avg. Luminance (cd/m²) |      |      |      |
|------------------------|------|------|------|
|                        | 0    | 45   | 90   |
| 45                     | 7110 | 6684 | 6591 |
| 55                     | 6479 | 6066 | 5996 |
| 65                     | 5780 | 5340 | 5416 |
| 75                     | 4875 | 4510 | 4830 |
| 85                     | 3155 | 3545 | 4319 |

| Coefficients of Utilization % (Based on a floor reflectance of 0.2) |     |     |     |     |     |     |     |     |     |     |    |  |
|---------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|--|
| Pc---                                                               | 80  |     |     |     | 70  |     |     | 50  |     |     | 0  |  |
| Pw---                                                               | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 50  | 30  | 10  | 0  |  |
| RCR                                                                 |     |     |     |     |     |     |     |     |     |     |    |  |
| 0                                                                   | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 108 | 108 | 108 | 95 |  |
| 1                                                                   | 107 | 102 | 98  | 94  | 104 | 99  | 95  | 94  | 91  | 88  | 78 |  |
| 2                                                                   | 97  | 89  | 82  | 76  | 94  | 86  | 80  | 82  | 77  | 72  | 65 |  |
| 3                                                                   | 89  | 78  | 70  | 63  | 86  | 76  | 68  | 72  | 66  | 61  | 55 |  |
| 4                                                                   | 81  | 69  | 60  | 54  | 78  | 67  | 59  | 64  | 57  | 52  | 47 |  |
| 5                                                                   | 75  | 62  | 53  | 46  | 72  | 60  | 52  | 58  | 50  | 45  | 41 |  |
| 6                                                                   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 52  | 45  | 39  | 36 |  |
| 7                                                                   | 64  | 51  | 42  | 36  | 62  | 50  | 41  | 47  | 40  | 35  | 32 |  |
| 8                                                                   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 44  | 36  | 31  | 28 |  |
| 9                                                                   | 56  | 42  | 34  | 29  | 54  | 42  | 34  | 40  | 33  | 28  | 25 |  |
| 10                                                                  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 37  | 30  | 26  | 23 |  |

\*Based on a floor reflectance of 0.2

#### FLP430L840-R-UNV-DIM

Luminaire Lumens 3039  
Luminaire Efficacy Rating (LER) 152  
Total Luminaire Watts 20.0  
Spacing Criterion (0-180) 1.18  
Spacing Criterion (90-270) 1.30



| Candela Distribution |     |      |     |      |     | Flux   |
|----------------------|-----|------|-----|------|-----|--------|
|                      | 0   | 22.5 | 45  | 67.5 | 90  | Lumens |
| 0                    | 936 | 936  | 936 | 936  | 936 |        |
| 5                    | 919 | 929  | 933 | 937  | 941 | 89     |
| 15                   | 876 | 889  | 899 | 908  | 913 | 253    |
| 25                   | 793 | 809  | 829 | 848  | 857 | 381    |
| 35                   | 679 | 698  | 731 | 758  | 771 | 456    |
| 45                   | 547 | 569  | 612 | 650  | 665 | 470    |
| 55                   | 407 | 434  | 485 | 530  | 548 | 431    |
| 65                   | 269 | 299  | 358 | 410  | 429 | 351    |
| 75                   | 140 | 176  | 244 | 300  | 321 | 252    |
| 85                   | 33  | 80   | 153 | 207  | 227 | 157    |
| 90                   | 3   | 49   | 118 | 169  | 187 |        |

| Zonal Lumen Summary |        |          |        |
|---------------------|--------|----------|--------|
| Zone                | Lumens | %Fixture | %Lamp  |
| 0-30                | 723    | 23.8%    | 23.8%  |
| 0-40                | 1179   | 38.8%    | 38.8%  |
| 0-60                | 2080   | 68.4%    | 68.4%  |
| 0-90                | 2840   | 93.4%    | 93.4%  |
| 0-180               | 3039   | 100.0%   | 100.0% |
| 90-180              | 199    | 6.6%     | 6.6%   |

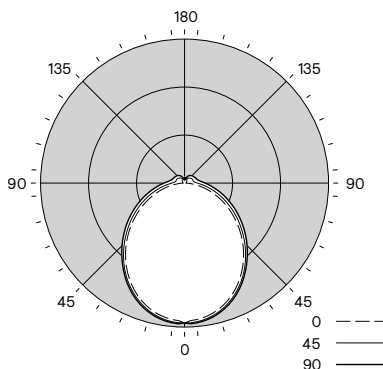
| Avg. Luminance (cd/m²) |      |      |      |
|------------------------|------|------|------|
|                        | 0    | 45   | 90   |
| 45                     | 6234 | 5629 | 5732 |
| 55                     | 5656 | 5024 | 5229 |
| 65                     | 4962 | 4402 | 4743 |
| 75                     | 4027 | 3836 | 4369 |
| 85                     | 2318 | 3488 | 4192 |

| Coefficients of Utilization % (Based on a floor reflectance of 0.2) |     |     |     |     |     |     |     |     |     |     |     |    |   |
|---------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|---|
| Pc---                                                               | 80  |     |     |     | 70  |     |     |     | 50  |     |     |    | 0 |
| Pw---                                                               | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10 | 0 |
| RCR                                                                 |     |     |     |     |     |     |     |     |     |     |     |    |   |
| 0                                                                   | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 107 | 107 | 107 | 107 | 93 |   |
| 1                                                                   | 106 | 100 | 95  | 91  | 102 | 97  | 93  | 92  | 88  | 85  | 85  | 75 |   |
| 2                                                                   | 96  | 87  | 79  | 73  | 92  | 84  | 77  | 79  | 74  | 69  | 61  | 61 |   |
| 3                                                                   | 87  | 76  | 67  | 60  | 84  | 74  | 66  | 70  | 63  | 57  | 51  | 51 |   |
| 4                                                                   | 79  | 67  | 58  | 51  | 77  | 65  | 57  | 62  | 54  | 49  | 44  | 44 |   |
| 5                                                                   | 73  | 60  | 50  | 44  | 70  | 58  | 50  | 55  | 48  | 42  | 38  | 38 |   |
| 6                                                                   | 67  | 54  | 45  | 38  | 65  | 52  | 44  | 50  | 42  | 37  | 33  | 33 |   |
| 7                                                                   | 62  | 49  | 40  | 33  | 60  | 48  | 39  | 45  | 38  | 32  | 29  | 29 |   |
| 8                                                                   | 58  | 44  | 36  | 30  | 56  | 43  | 35  | 41  | 34  | 29  | 26  | 26 |   |
| 9                                                                   | 54  | 41  | 32  | 27  | 52  | 40  | 32  | 38  | 31  | 26  | 23  | 23 |   |
| 10                                                                  | 51  | 38  | 30  | 24  | 49  | 37  | 29  | 35  | 28  | 24  | 21  | 21 |   |

\*Based on a floor reflectance of 0.2

#### FLP430L840-U-UNV-DIM

Luminaire Lumens 3065  
Luminaire Efficacy Rating (LER) 153  
Total Luminaire Watts 20  
Spacing Criterion (0-180) 1.18  
Spacing Criterion (90-270) 1.24



| Candela Distribution |     |      |     |      |     | Flux   |
|----------------------|-----|------|-----|------|-----|--------|
|                      | 0   | 22.5 | 45  | 67.5 | 90  | Lumens |
| 0                    | 971 | 971  | 971 | 971  | 971 |        |
| 5                    | 952 | 963  | 967 | 971  | 974 | 92     |
| 15                   | 908 | 919  | 925 | 929  | 933 | 260    |
| 25                   | 823 | 833  | 841 | 848  | 853 | 387    |
| 35                   | 705 | 714  | 726 | 735  | 739 | 453    |
| 45                   | 568 | 578  | 592 | 607  | 614 | 457    |
| 55                   | 424 | 434  | 456 | 479  | 488 | 409    |
| 65                   | 284 | 296  | 327 | 357  | 368 | 324    |
| 75                   | 152 | 171  | 212 | 248  | 261 | 222    |
| 85                   | 42  | 70   | 121 | 161  | 176 | 128    |
| 90                   | 9   | 41   | 89  | 129  | 143 |        |

| Zonal Lumen Summary |        |          |        |
|---------------------|--------|----------|--------|
| Zone                | Lumens | %Fixture | %Lamp  |
| 0-30                | 739    | 24.1%    | 24.1%  |
| 0-40                | 1192   | 38.9%    | 38.9%  |
| 0-60                | 2057   | 67.1%    | 67.1%  |
| 0-90                | 2731   | 89.1%    | 89.1%  |
| 0-180               | 3065   | 100.0%   | 100.0% |
| 90-180              | 334    | 10.9%    | 10.9%  |

| Avg. Luminance (cd/m²) |      |      |      |
|------------------------|------|------|------|
|                        | 0    | 45   | 90   |
| 45                     | 4454 | 3991 | 3970 |
| 55                     | 4048 | 3543 | 3585 |
| 65                     | 3607 | 3103 | 3237 |
| 75                     | 3012 | 2691 | 2979 |
| 85                     | 2021 | 2418 | 2990 |

| Coefficients of Utilization % (Based on a floor reflectance of 0.2) |     |     |     |     |     |     |     |     |     |     |    |   |
|---------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|---|
| Pc---                                                               | 80  |     |     |     | 70  |     |     | 50  |     |     |    | 0 |
| Pw---                                                               | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 50  | 30  | 10  | 0  |   |
| RCR                                                                 |     |     |     |     |     |     |     |     |     |     |    |   |
| 0                                                                   | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 105 | 105 | 105 | 89 |   |
| 1                                                                   | 105 | 100 | 95  | 91  | 101 | 97  | 93  | 90  | 87  | 84  | 72 |   |
| 2                                                                   | 95  | 87  | 80  | 74  | 92  | 84  | 78  | 79  | 73  | 69  | 60 |   |
| 3                                                                   | 87  | 76  | 68  | 61  | 84  | 74  | 66  | 69  | 63  | 58  | 50 |   |
| 4                                                                   | 80  | 67  | 59  | 52  | 76  | 65  | 57  | 62  | 55  | 49  | 43 |   |
| 5                                                                   | 73  | 60  | 51  | 45  | 70  | 59  | 50  | 55  | 48  | 42  | 37 |   |
| 6                                                                   | 68  | 54  | 45  | 39  | 65  | 53  | 44  | 50  | 43  | 37  | 33 |   |
| 7                                                                   | 63  | 49  | 40  | 34  | 60  | 48  | 40  | 45  | 38  | 33  | 29 |   |
| 8                                                                   | 58  | 45  | 36  | 31  | 56  | 44  | 36  | 42  | 34  | 29  | 26 |   |
| 9                                                                   | 54  | 41  | 33  | 28  | 53  | 40  | 32  | 38  | 31  | 26  | 23 |   |
| 10                                                                  | 51  | 38  | 30  | 25  | 49  | 37  | 30  | 35  | 29  | 24  | 21 |   |

\*Based on a floor reflectance of 0.2

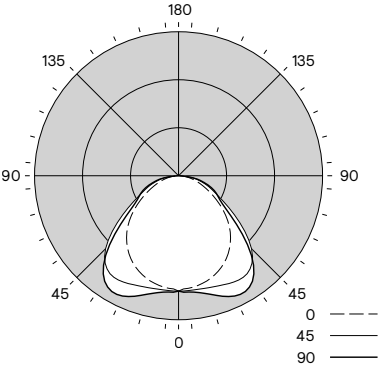
# FLP FluxSpace Linear

2', 3', 4' & 8'

## Photometry

FLP430L840-W-UNV-DIM

|                                 |      |
|---------------------------------|------|
| Luminaire Lumens                | 3084 |
| Luminaire Efficacy Rating (LER) | 153  |
| Total Luminaire Watts           | 20.1 |
| Spacing Criterion (0-180)       | 1.24 |
| Spacing Criterion (90-270)      | 1.60 |



| Candela Distribution |     |      |     |      |      | Flux   |
|----------------------|-----|------|-----|------|------|--------|
|                      | 0   | 22.5 | 45  | 67.5 | 90   | Lumens |
| 0                    | 961 | 961  | 961 | 961  | 961  |        |
| 5                    | 942 | 956  | 960 | 965  | 973  | 92     |
| 15                   | 908 | 931  | 966 | 1002 | 1023 | 274    |
| 25                   | 842 | 888  | 992 | 1074 | 1106 | 453    |
| 35                   | 740 | 834  | 997 | 1055 | 1074 | 590    |
| 45                   | 599 | 744  | 860 | 829  | 812  | 601    |
| 55                   | 420 | 559  | 569 | 502  | 483  | 469    |
| 65                   | 254 | 336  | 337 | 340  | 347  | 328    |
| 75                   | 135 | 181  | 202 | 214  | 222  | 207    |
| 85                   | 40  | 69   | 72  | 57   | 54   | 70     |
| 90                   | 4   | 4    | 3   | 3    | 2    |        |

| Zonal Lumen Summary |        |          |        |
|---------------------|--------|----------|--------|
| Zone                | Lumens | %Fixture | %Lamp  |
| 0-30                | 819    | 26.6%    | 26.6%  |
| 0-40                | 1410   | 45.7%    | 45.7%  |
| 0-60                | 2479   | 80.4%    | 80.4%  |
| 0-90                | 3084   | 100.0%   | 100.0% |

| Avg. Luminance (cd/m²) |      |       |      |
|------------------------|------|-------|------|
|                        | 0    | 45    | 90   |
| 45                     | 7036 | 10113 | 9551 |
| 55                     | 6090 | 8250  | 6993 |
| 65                     | 5002 | 6635  | 6834 |
| 75                     | 4323 | 6482  | 7131 |
| 85                     | 3825 | 6868  | 5112 |

| Coefficients of Utilization % (Based on a floor reflectance of 0.2) |     |     |     |     |     |     |     |     |     |     |     |
|---------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pc---                                                               | 80  |     |     |     | 70  |     |     | 50  |     |     | 0   |
| Pw---                                                               | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 50  | 30  | 10  | 0   |
| RCR                                                                 |     |     |     |     |     |     |     |     |     |     |     |
| 0                                                                   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 100 |
| 1                                                                   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 97  | 94  | 91  | 84  |
| 2                                                                   | 99  | 91  | 84  | 78  | 96  | 89  | 83  | 85  | 80  | 75  | 70  |
| 3                                                                   | 90  | 80  | 72  | 65  | 88  | 78  | 71  | 75  | 69  | 63  | 59  |
| 4                                                                   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 67  | 60  | 54  | 50  |
| 5                                                                   | 76  | 63  | 54  | 48  | 74  | 62  | 54  | 60  | 52  | 47  | 44  |
| 6                                                                   | 70  | 57  | 48  | 41  | 68  | 56  | 47  | 54  | 46  | 41  | 38  |
| 7                                                                   | 65  | 51  | 43  | 37  | 63  | 51  | 42  | 49  | 42  | 36  | 34  |
| 8                                                                   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 45  | 37  | 32  | 30  |
| 9                                                                   | 56  | 43  | 35  | 29  | 55  | 42  | 34  | 41  | 34  | 29  | 27  |
| 10                                                                  | 53  | 40  | 32  | 26  | 52  | 39  | 31  | 38  | 31  | 26  | 24  |

\*Based on a floor reflectance of 0.2



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