



Day-Brite/CFI FormFlex LED recessed is a fully luminous aperture luminaire offering a diffuse or opaque center channel accent for unique aesthetic flexibility. FormFlex delivers high performing even illumination and high visual comfort. Its architectural style, coupled with controls options, makes FormFlex an ideal choice for applications such as office, institutional, and healthcare, where energy savings and customized effect are desired.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Qty: _____

Notes: _____

Base configurations are indicated in blue.
Standard configurations are available
with all choices, unless otherwise noted.

Ordering guide (standard & wireless controls)

example: 2FFZG45L840-4-DS-UNV-DIM-DAYOCC-EM06

| Series | Ceiling Type | Lumens (nominal delivered) | Color (CRI/CCT) | Length | Center Diffuser | Voltage | Driver | Options |
|--------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------|------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2FFZ | G | | - | 4 - | - | - | - | |
| 2FFZ FormFlex 2x4' gen 2 | G Grid | Base configs 42B 4200 48B 4800 Standard configs 38L 3800 43L 4300 48L 4800 54L 5400 60L 6000 74L 7400 Other options may be ordered in increments of 100lm from 3800 to 7400lm | 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K | 4 4ft | DS Diffuse (smooth) DSOP Diffuse (opaque) | UNV Universal Voltage, 120-277V 347 347V | DIM¹ Dimming SDIM Step dimming to 40% input power LDE1 Lutron LDE1, 1% dimming DALI DALI dimming | F1 3/8" flex, 18ga. 6'; 3 leads include hot, neutral, ground F2 3/8" flex, 18ga. 6'; 4 leads include 2 hots, neutral, ground F2/5W⁸ 3/8" single flex, 18ga. 6' (for dimmable); 5 leads include hot, neutral, ground, Dim+ / Dim- F2/6W⁸ 3/8" single flex, 18ga. 6' (for dim & EM); 6 leads include 2 hot, neutral, ground, Dim+ / Dim- GLR Fusing, fast blow DSC Quick driver disconnect CHIC Chicago Plenum rated EM06⁴ Bodine BSL06T3 6W battery pack EM10⁴ Bodine BSL10T3 10W battery pack GTD/E^{3,5} UL924 listed Bodine GTD factory installed on driver input GTD/SNSR^{3,4,5,6} UL924 listed Bodine GTD factory installed between driver & sensor DAYOCC⁸ Basic sensor with daylighting & occupancy SWZCS^{1,7,8} Interact wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time RADIO^{1,7,8} Interact RF sensor for wireless connectivity only, no sensing IAOSB^{1,7,8} Interact Pro wireless sensor with occupancy, daylight, & environmental sensing capabilities AG Antimicrobial Finish |

Accessories (order separately)

- **FSF424** - 2'x4' surface mount field installation kit (field assembled)
- **FMA24** - 2'x4' "F" mounting frame for NEMA "F" ceiling

SWZCS accessories (order separately)

- **IRT9015** - handheld remote for grouping and configuration (at least one remote required for any SWZCS installation).

Replacement Lens

- **FFZGDS24L** - Replacement Lens
- **FFZGDS24LC** - Replacement Control Lens
- **FFZGDSOP24L** - Replacement Lens
- **FFZGDSOP24LC** - Replacement Control Lens

Footnotes

1. Integral controls option dimmable to 5% via wireless wall switch (non-controls). 0-10v dimmable to 1% for Standard configurations, and to 10% for Base configurations.
2. Specify only with -DIM driver option (Integrated sensor options).
3. Not available with 347V.(BSL6/10/14, GTD, nor GLR).
4. ER100 not available with Bodine EM battery packs. ER100 only available with sensor options.
5. Must be installed in conjunction with a UL1008 device.
6. Must be ordered with an integral sensing option.
7. Must order IRT9015 Interact commissioning remote with each system order.
8. Flex with dimming not available with sensors.
9. Third party sensors also available, please enquire about options for Lutron Athena, Vive, or others.

FFZ FormFlex recessed 2x4

2000 to 7400 lumens

Application

- Ideal for modern offices, institutional, retail, and healthcare applications.
- Modern architectural styling to complementary space.
- Full width luminous lens provides smooth brightness and high visual comfort.
- Directs a controlled amount of light to higher angles to eliminate "cave effect" without creating glare.
- 80 CRI minimum source provides a balanced spectral power distribution.
- Suitable for use with NEMA G (15/16") and NFG (9/16") suspended t-grid ceilings. NEMA F flange ceilings require the FMA24 accessory (ordered separately).

Environment

- Rated for dry or damp locations in operating ambient temperatures 0–30°C (32–86°F). Many luminaire components, such as reflectors, refractors, 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. Not suitable for natatorium environments.

Construction/Finish

- Robust and durable die-formed embossed steel housing and end caps.
- Molded one-piece acrylic diffuser may be removed without tools for easy replacement.
- T-bar grid clips are built into luminaire end caps for quick and easy installation, no extra parts.
- Sheet metal components are multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.

Validation

- cETLus listed for use in damp locations
- When ordered with -WL option code, suitable for use in wet locations with covered ceilings
- Rated for direct contact with insulation (IC)
- CCEA Chicago Plenum listed
- FormFlex luminaires are Designlights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers, www.designlights.org/QPL

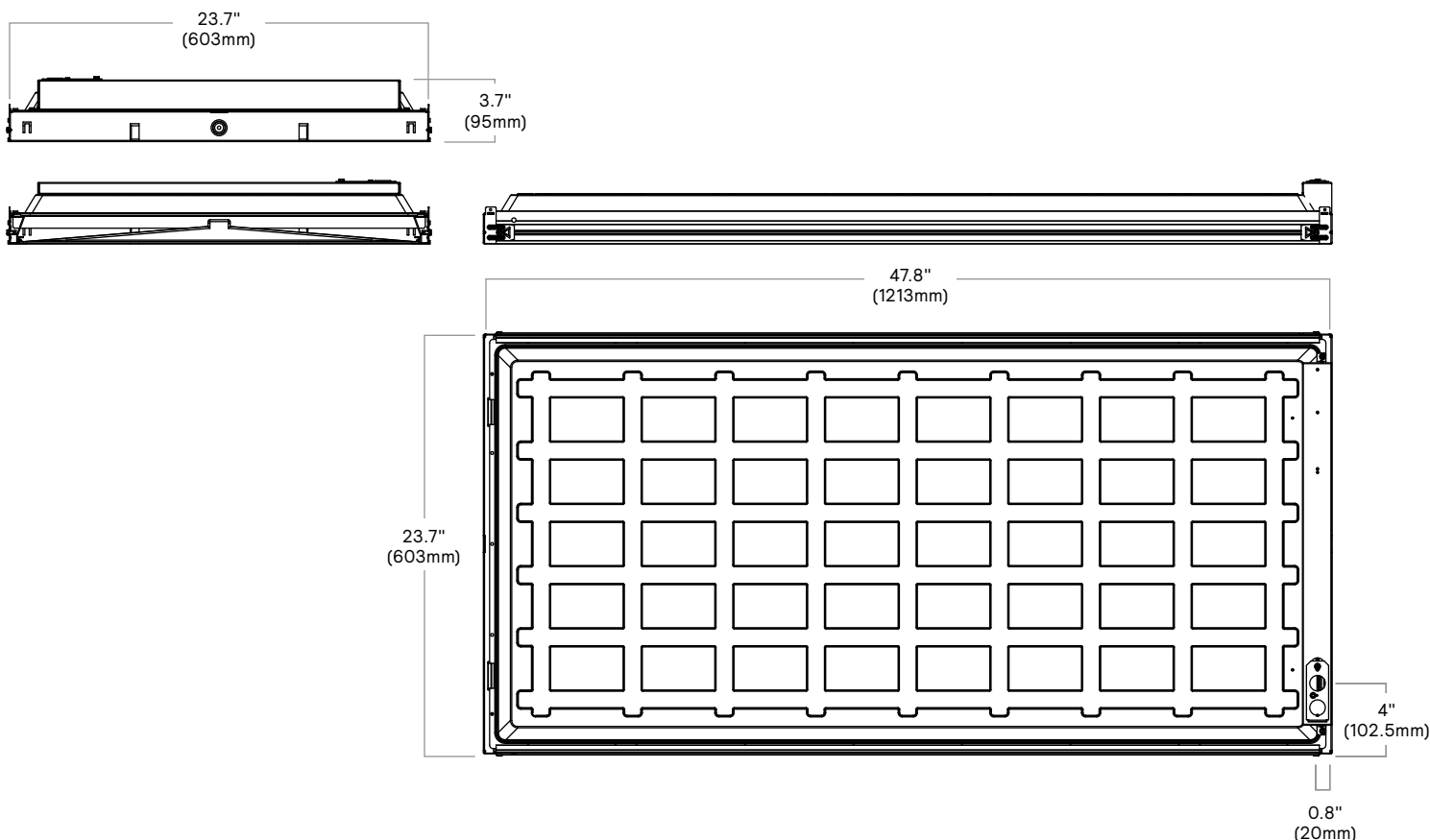
Electrical

- Non-controls Base configurations 0–10V dimmable to 5%.
- Non-controls Standard configurations 0–10V dimmable to 1%.
- Standard configurations with controls options dimmable via wireless switches (see below).
- Predicted L70 lumen maintenance up to 100,000 hours at 25°C ambient for all configurations.
- Emergency battery packs accessible from above. To estimate lumen output in emergency mode, multiply emergency pack wattage by luminaire 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.
- The GTD/SNSR option is used to bypass integrated sensor control in the event of utility power loss. Generator transfer requires installation in conjunction with a UL1008 listed device.
- Compliance to CAN ICES-005-A/ NEB-005-A and FCC Part 15-A.

Warranty

- 5 year manufacturer's limited warranty. Visit signify.com/warranties for complete warranty information.

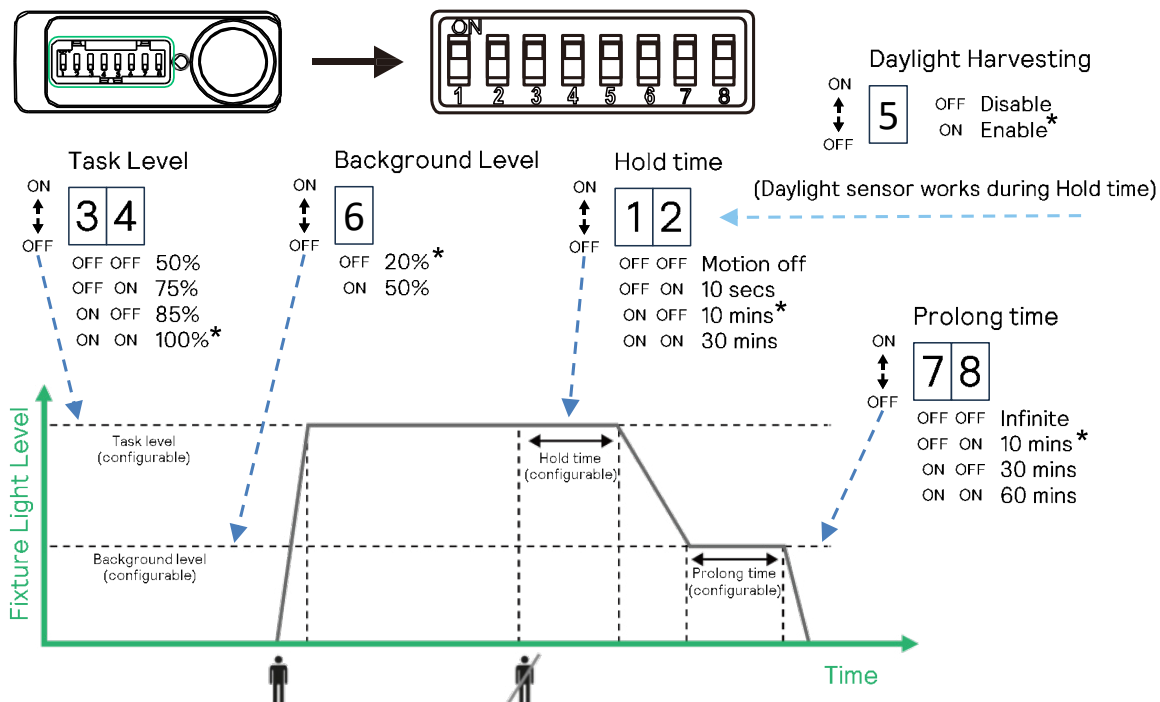
Dimensions



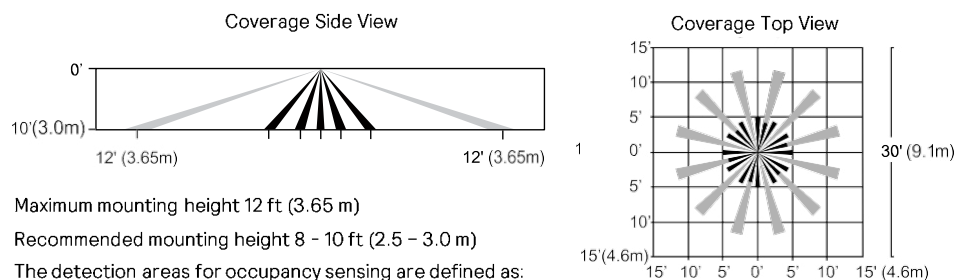
FFZ FormFlex recessed 2x4

2000 to 7400 lumens

Configurable Parameters (Dip-switches)



Occupancy Sensing Coverage (ft)



Configurable settings

- **Brightness level:** 100% ; 90% ; 80% ; 70%
 - **Daylight harvesting:** Enable; Disable
 - **Hold time:** infinite (continuous daylight harvesting)* : 10 sec; 10min; 30 mins
 - **Background level:** 20%; 50%
 - **Prolong-time:** 9 min; 30 min; 60 min; infinite (light always on)
- * Sensor working as "daylight harvesting only".
No occupancy detection

FFZ FormFlex recessed 2x4

2000 to 7400 lumens

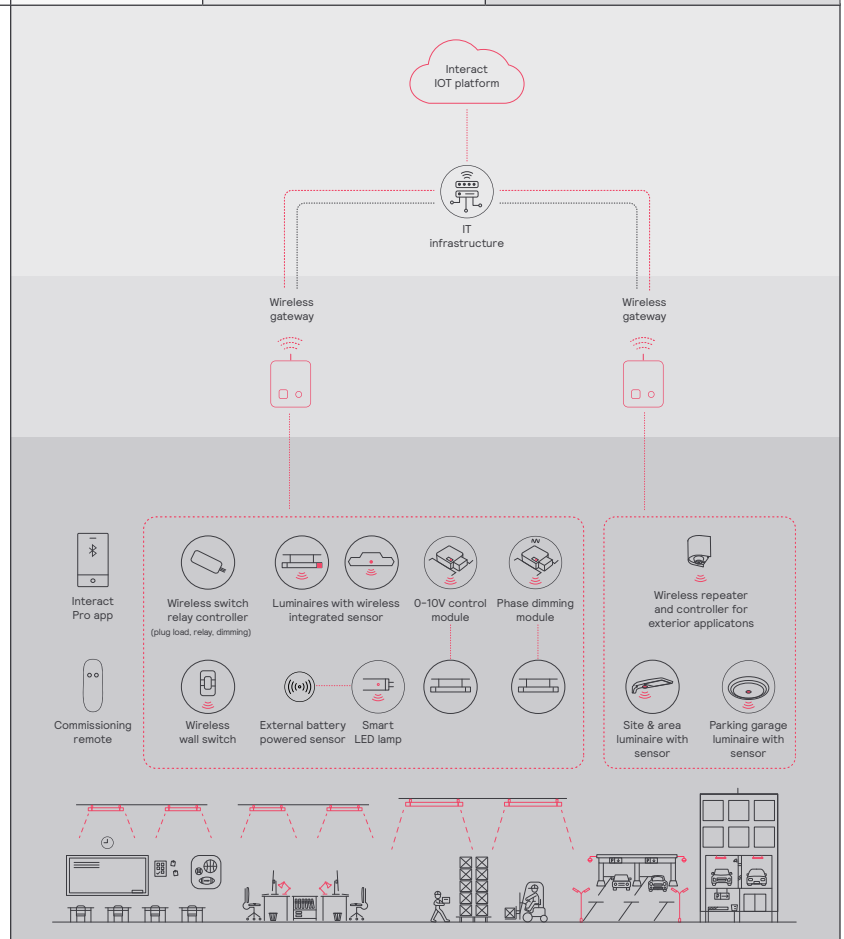
interact

| | Gateway Connected | | |
|-----------------------------------------------------|-------------------|----------|----------|
| | Standalone | Option 1 | Option 2 |
| 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 | ✓ | ✓ | ✓ |
| Correlated color temperature (CCT) tuning by switch | New | ✓ | ✓ |
| Support for sensor-based Tunable White luminaires | New | ✓ | ✓ |
| 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 |
| • Luminaires with integrated sensors | 150 |
| • Smart TLEDs | 150 |
| • Zones + groups | 64 |
| Total number of ZGP devices (sensors and switches) | 50 |
| • Sensors | 30 |
| • Switches | 50 |
| Group level | |
| Recommended number of lights | 40 (maximum 150) |
| Number of ZGP devices | 5 |
| Number of scenes | 16 |



FFZ FormFlex recessed 2x4

2000 to 7400 lumens

Wireless controls options

Interact

- SWZCS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the standalone mode (similar to SpaceWise) when configured without a gateway or in a cloud connected mode if a compatible gateway is used.
- Interact 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 on-site to identify and group devices together.

Compatible with:

- SWS200 & UID8465 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
- LCN3110: battery powered IP65 presence sensor, OCC sensor IA CM IP65W
- LCN3120: battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH
- For more information on Interact visit:
interact-lighting.com/interactproscalablesystem

Radio only sensor (RA or RADIO)

- Integral RA or 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 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, identify and group devices together onsite.
- Compatible with SWS200 and UID8465 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).
- For more information on Interact visit:
interact-lighting.com/interactproscalablesystem

SofTrace shown with integral sensor



Sensor bundle (IAOSB or SB)

- A wireless IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible with 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.
- IAOSB or SB option in addition to occupancy and daylights sensing supports advanced IoT capabilities, such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, visit:
interact-lighting.com/interactproscalablesystem

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.

Interact supported sensor option codes across Genlyte Solutions product lines

| | Evokit | Day-Brite | Ledalite | Lightolier |
|---------------------------------------------------|--------|-----------|----------|--------------------------|
| ZigBee + Bluetooth + Sensing | SWZCS | SWZCS | CS | SBA accessory (external) |
| ZigBee + Bluetooth | RADIO | RADIO | RA | RA |
| ZigBee + Bluetooth + Sensing + Environmental data | IAOSB | IAOSB | SB | SB |
| ZigBee + Highbay + Sensing | - | SWZCSH | - | - |

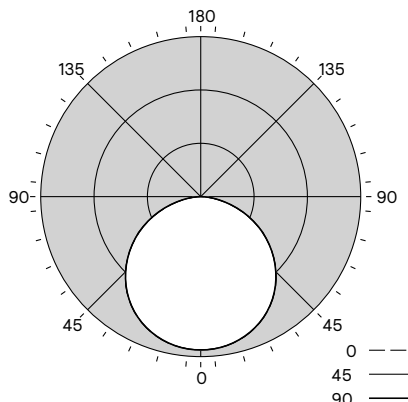
FFZ FormFlex recessed 2x4

2000 to 7400 lumens

Photometry

2FXZG48L840-4-DS-UNV-DIM

Luminaire Lumens 4832
Luminaire Efficacy Rating (LER) 130
Total Luminaire Watts 37.1
Spacing Criterion (0-180) 1.30
Spacing Criterion (90-270) 1.30



| Candela Distribution | | | | | | Flux |
|----------------------|------|------|------|------|------|--------|
| | 0 | 45 | 90 | 135 | 180 | Lumens |
| 0 | 1628 | 1628 | 1628 | 1628 | 1628 | |
| 5 | 1624 | 1621 | 1622 | 1623 | 1624 | 154 |
| 15 | 1577 | 1577 | 1577 | 1576 | 1574 | 445 |
| 25 | 1481 | 1479 | 1478 | 1477 | 1478 | 682 |
| 35 | 1332 | 1330 | 1329 | 1329 | 1329 | 832 |
| 45 | 1131 | 1131 | 1130 | 1129 | 1128 | 871 |
| 55 | 887 | 889 | 889 | 888 | 889 | 794 |
| 65 | 613 | 617 | 620 | 618 | 619 | 611 |
| 75 | 322 | 339 | 332 | 330 | 331 | 350 |
| 85 | 71 | 77 | 82 | 84 | 86 | 94 |
| 90 | 0 | 0 | 0 | 0 | 0 | |

| 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 | 99 | 95 | 106 | 101 | 97 | 97 | 94 | 91 | 83 |
| | 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 85 | 79 | 75 | 69 |
| | 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 74 | 68 | 62 | 58 |
| | 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 66 | 59 | 53 | 49 |
| | 5 | 75 | 62 | 53 | 46 | 73 | 61 | 53 | 59 | 51 | 46 | 42 |
| | 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 | 46 | 37 | 44 | 37 | 31 | 29 |
| | 9 | 56 | 42 | 34 | 28 | 55 | 42 | 34 | 41 | 33 | 28 | 26 |
| | 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 38 | 30 | 26 | 24 |

* Based on a floor reflectance of 0.2

| Zonal Lumen Summary | | | | Avg. Luminance (cd/m ²) | | | |
|---------------------|--------|----------|--------|-------------------------------------|------|------|------|
| Zone | Lumens | %Fixture | %Lamp | | 0 | 90 | 180 |
| 0-30 | 1281 | 26.5% | 26.5% | 45 | 2496 | 2494 | 2488 |
| 0-40 | 2113 | 43.7% | 43.7% | 55 | 2413 | 2419 | 2418 |
| 0-60 | 3778 | 78.2% | 78.2% | 65 | 2263 | 2287 | 2286 |
| 0-90 | 4832 | 100.0% | 100.0% | 75 | 1939 | 2002 | 1994 |
| 0-180 | 4832 | 100.0% | 100.0% | 85 | 1273 | 1461 | 1533 |

Photometry Data

| Nominal CRI & CCT | | | CRI 80, 3500K | | | CRI 80, 4000K | | |
|-------------------|----------------------------|-----------|---------------|----------------|------|---------------|----------------|------|
| | Nominal Lumen Package (lm) | Watts (W) | Flux (lm) | Efficacy (LPW) | UGR | Flux (lm) | Efficacy (LPW) | UGR |
| 2FXCG38LXXX-4-DS | 3800 | 28.7 | 3,630 | 126.3 | 18.8 | 3,776 | 131.4 | 18.8 |
| 2FXCG43BXXX-4-DS | 4300 | 32.6 | 4,115 | 126.1 | 19.2 | 4,261 | 130.6 | 19.3 |
| 2FXCG43LXXX-4-DS | 4300 | 33.4 | 4,207 | 126.0 | 19.3 | 4,353 | 130.4 | 19.3 |
| 2FXCG48BXXX-4-DS | 4800 | 37.1 | 4,662 | 125.7 | 19.8 | 4,809 | 129.7 | 19.9 |
| 2FXCG48LXXX-4-DS | 4800 | 37.1 | 4,662 | 125.7 | 19.6 | 4,809 | 129.7 | 19.7 |
| 2FXCG54LXXX-4-DS | 5400 | 41.7 | 5,224 | 125.2 | 19.9 | 5,370 | 128.7 | 19.9 |
| 2FXCG74LXXX-4-DS | 7400 | 58.4 | 7,173 | 122.8 | 21.0 | 7,319 | 125.3 | 21.1 |