

Day-Brite CFI

by  Signify



Linear

Cubelite LED surface mount

2800 or 4700 lumens



Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

The Day-Brite / CFI Cubelite LED surface mount is a high performing LED luminaire delivering smooth diffuse light ideal for corridors, stairwells and vanity applications with the unparalleled energy efficiency of Signify LEDs.

Ordering guide

Example: CSW48-4740UDZTZO-GLR

| Family | Length | Lumen Package ¹ | Color Temperature | Voltage | Driver Type | Lens Type | Options |
|---------------------------------------|-----------------------------|--|------------------------------------|---|---|--|--|
| CSW | 48 – | | | | | – | |
| CSW Cubelite surface luminaire | 48 48" lamp/ fixture | 28 2800 delivered lumens 47 4700 delivered lumens | 40 4000K 35 3500K | U Universal voltage 120-277V 120 120V 3 347V | DZT 0-10V dimming driver SZT 100/40 step dimming driver (4700 lm only) | ZO Opal acrylic DB Prismatic 50% DR | B Black painted housing 9² Tamper resistant K³ Pull chain right L³ Pull chain left CO Convenience outlet (120V) EM Integral emergency driver, 1100lm nominal GLR Fusing, fast blow |

Footnotes

- Nominal value.
- End covers with T-15 Torx screws. Bit provided.
- Pull Chain options K and L are available in 120V only.

Accessories (order separately)

- CSWCPL** White coupler for continuous row mounting
- CSBCPL** Black coupler for continuous row mounting

Replacement lenses (order separately)

- LN11665** Opal acrylic lens
- LN16784** Prismatic lens

CSW Cubelite LED surface mount

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Features

- Only 4 3/4" deep.
- Delivers up to 4700lm per 4' (nominal) length.
- Individual or continuous row mounting.
- Ideal for corridors, washrooms, storage areas, and stairwells.
- Can be used in conjunction with occupancy sensors.
- Convenience outlet optional (CO).
- Spring-loaded end cap.
- Long life LEDs provide 50,000 hours of lumen maintenance free life (L70).
- Can be wall or ceiling mounted.
- Fully enclosed wiring and LED diodes.
- Right (K) or left (L) pull chain options are available for 120V configurations only.
- White painted housing standard. Black painted (B) housing optional.

Materials

- Chassis parts are die-formed heavy gauge cold rolled steel.

Finish

- Baked white acrylic enamel, phosphate undercoating.

Lens

- Three available lenses with extruded virgin acrylic diffuser:
 - Smooth opal acrylic diffuser (ZO) with 0.060" thickness. Provides maximum comfort from pixelated glare.
 - Clear prismatic lens (DB) with 0.125" thickness, 50% DR content.

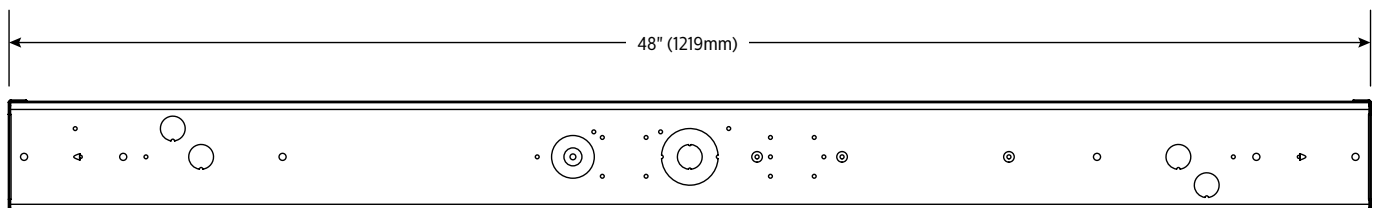
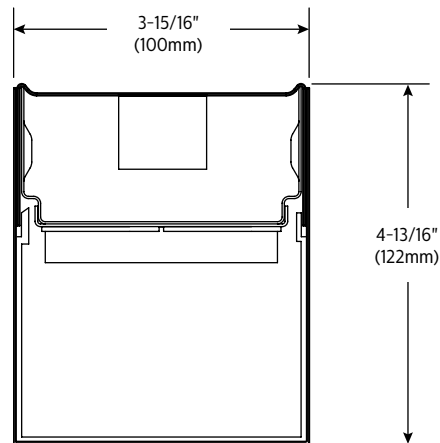
Electrical

- LED boards and drivers are RoHS (Restriction of Hazardous Substances) compliant. Predicted L70 lifetime based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.

Labels

- cETLus listed. Suitable for damp locations.

Dimensions



CSW Cubelite LED surface mount

2800 or 4700 lumens

2800 lm Performance

Catalog No. CSW48-2840UDZTZO

Lumen Package: 2800

Report Number: C12042

Delivered Lumens: 2751

Color: 4000K

Input Watts: 31.0

Efficacy: 88.7 lm/w

Lamp: LED

Luminaire: Cubelite 4' Fixture with (ZO) Opal Lens

CIE Type: Direct

Plane: 0° 90°

Spacing Criteria: 1.5 1.5

Plane: 0° 90°

Luminous Length: 4.000 48.000

Candela Distribution

| Angle | 0.0 | 45.0 | 90.0 | Zonal Lumens |
|-------|-----|------|------|--------------|
| 0 | 504 | 504 | 504 | |
| 5 | 503 | 513 | 495 | 49 |
| 15 | 485 | 519 | 511 | 144 |
| 25 | 451 | 510 | 517 | 230 |
| 35 | 401 | 488 | 505 | 296 |
| 45 | 339 | 451 | 476 | 332 |
| 55 | 264 | 396 | 431 | 334 |
| 65 | 180 | 326 | 371 | 299 |
| 75 | 91 | 246 | 301 | 236 |
| 85 | 15 | 176 | 237 | 172 |
| 90 | 2 | 161 | 223 | |
| 95 | 2 | 159 | 219 | 150 |
| 105 | 2 | 155 | 211 | 141 |
| 115 | 3 | 143 | 196 | 122 |
| 125 | 3 | 125 | 175 | 98 |
| 135 | 3 | 104 | 150 | 71 |
| 145 | 4 | 80 | 119 | 45 |
| 155 | 4 | 53 | 83 | 23 |
| 165 | 4 | 27 | 44 | 8 |
| 175 | 4 | 7 | 11 | 1 |
| 180 | 5 | 5 | 5 | |

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

2. Total efficiency.

Coefficients of Utilization

| Ceiling | 80% | | | 50% | | | 30% | | | |
|-------------------|---------------------|-----|----|-----|----|----|-----|----|----|----|
| Wall | 70 | 50 | 30 | 50 | 30 | 10 | 50 | 30 | 10 | |
| RCR | Zonal Cavity Method | | | | | | | | | |
| Room Cavity Ratio | 1 | 101 | 96 | 91 | 83 | 79 | 76 | 75 | 72 | 69 |
| | 2 | 91 | 83 | 76 | 71 | 66 | 61 | 64 | 60 | 56 |
| | 3 | 83 | 72 | 63 | 62 | 56 | 51 | 56 | 51 | 47 |
| | 4 | 76 | 64 | 55 | 55 | 48 | 43 | 50 | 44 | 40 |
| | 5 | 69 | 56 | 47 | 49 | 42 | 37 | 44 | 38 | 34 |
| | 6 | 64 | 50 | 41 | 44 | 37 | 31 | 40 | 34 | 29 |
| | 7 | 58 | 45 | 36 | 39 | 32 | 27 | 35 | 29 | 25 |
| | 8 | 54 | 40 | 32 | 35 | 28 | 23 | 32 | 26 | 22 |
| | 9 | 50 | 36 | 28 | 32 | 25 | 20 | 29 | 23 | 19 |
| | 10 | 46 | 33 | 25 | 29 | 22 | 18 | 27 | 21 | 17 |

Effective Floor Cavity Reflectance = 0.20

Luminance Data in Candela/Sq. Meter

| Average in Degrees | Average 0° | Average 45° | Average 90° |
|--------------------|------------|-------------|-------------|
| 45 | 3869. | 5165. | 5450. |
| 55 | 3721. | 5591. | 6093. |
| 65 | 3430. | 6245. | 7104. |
| 75 | 2829. | 7693. | 9408. |
| 85 | 1417. | 16386. | 22023. |

Zonal Lumen Summary²

| Zone | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30 | 423 | 15.38 |
| 0-40 | 719 | 26.13 |
| 0-60 | 1385 | 50.34 |
| 0-90 | 2092 | 76.06 |
| 40-90 | 1374 | 49.93 |
| 60-90 | 708 | 25.72 |
| 90-180 | 659 | 23.94 |
| 0-180 | 2751 | 100.00 |

4700 lm Performance

Catalog No. CSW48-4740UDZTZO

Lumen Package: 4700

Report Number: C12045

Delivered Lumens: 4700

Color: 4000K

Input Watts: 52.1

Efficacy: 90.2 lm/w

Lamp: LED

Luminaire: Cubelite 4' Fixture with (ZO) Opal Lens

CIE Type: Direct-Indirect

Plane: 0° 90°

Spacing Criteria: 1.5 1.5

Plane: 0° 90°

Luminous Length: 4.000 48.000

Candela Distribution

| Angle | 0.0 | 45.0 | 90.0 | Zonal Lumens |
|-------|-----|------|------|--------------|
| 0 | 843 | 843 | 843 | |
| 5 | 841 | 858 | 830 | 82 |
| 15 | 811 | 868 | 860 | 241 |
| 25 | 753 | 856 | 872 | 386 |
| 35 | 670 | 821 | 856 | 497 |
| 45 | 566 | 760 | 811 | 561 |
| 55 | 441 | 669 | 739 | 565 |
| 65 | 300 | 554 | 639 | 510 |
| 75 | 151 | 422 | 523 | 406 |
| 85 | 25 | 305 | 417 | 298 |
| 90 | 2 | 281 | 392 | |
| 95 | 4 | 277 | 385 | 262 |
| 105 | 4 | 269 | 371 | 246 |
| 115 | 5 | 249 | 345 | 214 |
| 125 | 6 | 217 | 310 | 171 |
| 135 | 7 | 183 | 266 | 125 |
| 145 | 8 | 140 | 212 | 80 |
| 155 | 9 | 94 | 148 | 41 |
| 165 | 9 | 49 | 79 | 14 |
| 175 | 10 | 14 | 21 | 2 |
| 180 | 10 | 10 | 10 | |

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

2. Total efficiency.

Coefficients of Utilization

| Ceiling | 80% | | | 50% | | | 30% | | | |
|-------------------|---------------------|-----|----|-----|----|----|-----|----|----|----|
| Wall | 70 | 50 | 30 | 50 | 30 | 10 | 50 | 30 | 10 | |
| RCR | Zonal Cavity Method | | | | | | | | | |
| Room Cavity Ratio | 1 | 101 | 96 | 91 | 82 | 79 | 76 | 74 | 71 | 69 |
| | 2 | 91 | 83 | 75 | 71 | 66 | 61 | 64 | 60 | 56 |
| | 3 | 83 | 72 | 63 | 62 | 56 | 50 | 56 | 51 | 46 |
| | 4 | 76 | 63 | 54 | 55 | 48 | 43 | 50 | 44 | 40 |
| | 5 | 69 | 56 | 47 | 49 | 41 | 36 | 44 | 38 | 34 |
| | 6 | 63 | 50 | 41 | 43 | 36 | 31 | 39 | 33 | 29 |
| | 7 | 58 | 44 | 36 | 39 | 31 | 26 | 35 | 29 | 24 |
| | 8 | 54 | 40 | 32 | 35 | 28 | 23 | 32 | 26 | 21 |
| | 9 | 50 | 36 | 28 | 32 | 25 | 20 | 29 | 23 | 19 |
| | 10 | 46 | 33 | 25 | 29 | 22 | 18 | 26 | 20 | 16 |

Effective Floor Cavity Reflectance = 0.20

Luminance Data in Candela/Sq. Meter

| Average in Degrees | Average 0° | Average 45° | Average 90° |
|--------------------|------------|-------------|-------------|
| 45 | 6461. | 8711. | 9290. |
| 55 | 6212. | 9456. | 10441. |
| 65 | 5721. | 10611. | 12257. |
| 75 | 4709. | 13169. | 16386. |
| 85 | 2334. | 28301. | 38736. |

Zonal Lumen Summary²

| Zone | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30 | 709 | 15.09 |
| 0-40 | 1207 | 25.67 |
| 0-60 | 2333 | 49.63 |
| 0-90 | 3546 | 75.44 |
| 40-90 | 2339 | 49.76 |
| 60-90 | 1213 | 25.81 |
| 90-180 | 1155 | 24.56 |
| 0-180 | 4700 | 100.00 |

