



PROJECT NAME

CATALOG NO.

TYPE

DATE

NOTE

LED UTILITY WRAP LUMINAIRE

LBW Series LED Utility Wrap Luminaire

DESCRIPTION

The Alphalite LBW Series Utility Wrap Luminaire provides high light levels for commercial, industrial, retail and residential applications. Fixtures can be used in storage/utility areas, display cases, shops, task and general area lighting. Low profile design offers easy handling and storage.

APPLICATION

Versatile solution for general illumination from surface-mounted fixture. Ideal for corridors, hallways, stairwells, closets, storage rooms, and spaces that demand energy demand reduction and high quality light.

SPECIFICATION FEATURES

Benefits

- Lower installation costs and reduced maintenance costs
- Attractive ROI and lower energy costs
- Ideal for use with sensors and advanced controls
- High quality light for a more productive space
- Convenient access to replaceable, standard components reduces life cycle costs

Construction

Reflector utilizes highly reflective powder coat finish. Diffuser requires no additional frame or fastener for easy installation. Tool-less removal of diffuser allows access to LED array. LED module and driver are replaceable. LED module and driver are replaceable. Housing and optics maintain damp location rating with all internal components.

Finish

Highly reflective finish. Baked white paint, applied after fabrication.



Electrical

Luminaire utilizes long life, high efficacy LEDs and a highly efficient, reliable LED driver. 120V-277V input voltage for increased versatility. 0-10V continuous dimming comes standard. Ideal when used in conjunction with controls and sensors. Comes equipped with quick disconnect for compliance with US code.

Optics

The LBW's LED light engine and integrated optics delivers enhanced light quality and distribution. Precision-formed diffuser and reflector are designed LED light consistently, reducing glare and pixelation.

Certifications / Regulatory

UL/cUL listed. All components used have UL approval. UL Class 2. Power supply: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2. DLC Premium listed.

Warranty

7-year limited warranty. See complete warranty terms for details.

Quick Ship Product

- LBW-4L(40S2)/835
- LBW-4L(40S2)/840

ORDERING INFORMATION

Sample Number: LBW-4L(40S2)/840

| LBW | 4 | L | 8 | 40 | (Blank) | (Blank) |
|----------------------------------|--------------------|--|-------------|--|----------------------|------------------------------------|
| Series | Form Factor | Lumen Package | CRI | CCT | Input Voltage | Dimming |
| LBW - LED Utility Wrap Luminaire | 2 - 2' 4 - 4' | VL - Very Low Wattage L - Low Wattage *See energy data for details | 8 - 83+ CRI | 35 - 3500K 40 - 4000K 50 - 5000K | (Blank) - 120V-277V | (Blank) - 0-10V Continuous Dimming |

Options

Controls

- MMS** - Integrated step dimming microwave motion sensor with sync function
- OS** - Integrated step dimming PIR occupancy sensor
- DL** - Integrated daylight harvesting
- SMC** - Smart Control System

Emergency Backup

- EM700 - 700lm
- EM1400 - 1400lm
- EM2000 - 2000lm

Assembly in USA

- BAA - assembly in USA

SUMMARY

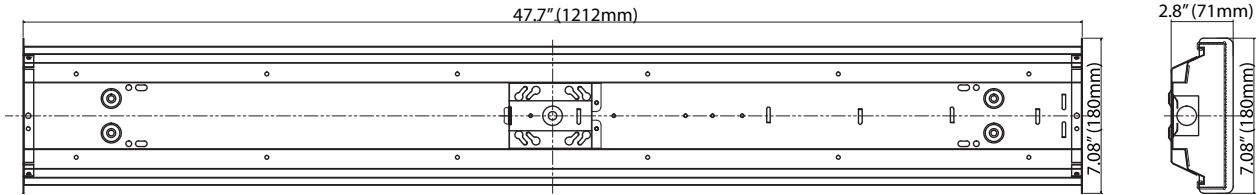
| | |
|-------------------|-----------------------------------|
| Input Voltage | 120V-277V |
| Input Power | See energy data for details |
| Power Factor | > 0.95 |
| THD (Max.) | 20% |
| Efficacy | > 127 LPW |
| Delivered Lumens | See energy data for details |
| Controls/ Dimming | Full Range 0-10V dimming standard |
| Dimming Range | 0-10V Continuous (10-100%) |
| CRI | > 83 |
| CCT | 3500K, 4000K, 5000K |
| Operating Temp. | -20 ~ +55 C |
| Rated Life | 70,000 hours |

ENERGY PERFORMANCE DATA

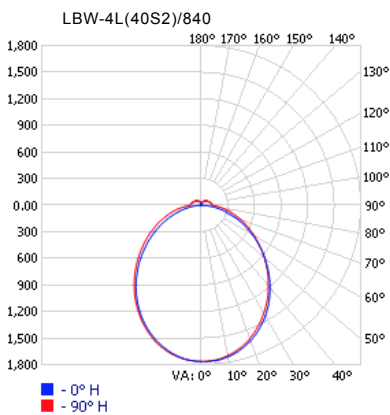
| Form Factor | Part No. | Rated Wattage (W) | Tested Wattage (W) | Delivered Lumens (lm) | Efficacy (lm/W) |
|-------------|------------------|-------------------|--------------------|-----------------------|-----------------|
| 4' | LBW-4L(40S2)/835 | 40 | 38.76 | 5200 | 130 |
| | LBW-4L(40S2)/840 | | | 5240 | 131 |
| | LBW-4L(40S2)/850 | | | 5280 | 132 |

PHYSICAL PARAMETERS

DIMENSION



PHOTOMETRICS



Zonal Lumen Summary

| ZONE | LUMENS | % LUMINAIRE |
|--------|----------|-------------|
| 0-30 | 1,334.60 | 26.50% |
| 0-40 | 2,147.80 | 42.60% |
| 0-60 | 3,671.30 | 72.90% |
| 60-90 | 1,050.90 | 20.90% |
| 70-100 | 581.7 | 11.50% |
| 90-120 | 196.9 | 3.90% |
| 0-90 | 4,722.20 | 93.70% |
| 90-180 | 317 | 6.30% |
| 0-180 | 5,039.20 | 100% |

Coefficients of Utilization - Zonal Cavity Method

| RCC | EFFECTIVE FLOOR CAVITY REFLECTANCE: 20% | | | | | | | | | | | | | | | | | |
|-----|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 80 | | | 70 | | | 50 | | | 30 | | | 10 | | | 0 | | |
| 1 | 1.07 | 1.02 | 0.97 | 0.93 | 1.03 | 0.99 | 0.95 | 0.78 | 0.94 | 0.9 | 0.87 | 0.89 | 0.86 | 0.84 | 0.84 | 0.82 | 0.8 | 0.77 |
| 2 | 0.97 | 0.89 | 0.82 | 0.76 | 0.94 | 0.86 | 0.8 | 0.66 | 0.82 | 0.77 | 0.72 | 0.78 | 0.73 | 0.69 | 0.74 | 0.7 | 0.67 | 0.64 |
| 3 | 0.89 | 0.78 | 0.7 | 0.63 | 0.86 | 0.76 | 0.68 | 0.56 | 0.72 | 0.66 | 0.6 | 0.69 | 0.63 | 0.59 | 0.65 | 0.61 | 0.57 | 0.54 |
| 4 | 0.81 | 0.69 | 0.6 | 0.54 | 0.78 | 0.67 | 0.59 | 0.48 | 0.64 | 0.57 | 0.52 | 0.61 | 0.55 | 0.5 | 0.58 | 0.53 | 0.49 | 0.47 |
| 5 | 0.75 | 0.62 | 0.53 | 0.46 | 0.72 | 0.6 | 0.52 | 0.42 | 0.58 | 0.5 | 0.45 | 0.55 | 0.49 | 0.44 | 0.53 | 0.47 | 0.43 | 0.4 |
| 6 | 0.69 | 0.56 | 0.47 | 0.41 | 0.67 | 0.55 | 0.46 | 0.37 | 0.52 | 0.45 | 0.39 | 0.5 | 0.43 | 0.38 | 0.48 | 0.42 | 0.38 | 0.35 |
| 7 | 0.64 | 0.51 | 0.42 | 0.36 | 0.62 | 0.5 | 0.41 | 0.33 | 0.47 | 0.4 | 0.35 | 0.45 | 0.39 | 0.34 | 0.44 | 0.38 | 0.34 | 0.31 |
| 8 | 0.6 | 0.46 | 0.38 | 0.32 | 0.58 | 0.45 | 0.37 | 0.3 | 0.43 | 0.36 | 0.31 | 0.42 | 0.35 | 0.31 | 0.4 | 0.34 | 0.3 | 0.28 |
| 9 | 0.56 | 0.43 | 0.34 | 0.29 | 0.54 | 0.42 | 0.34 | 0.27 | 0.4 | 0.33 | 0.28 | 0.39 | 0.32 | 0.28 | 0.37 | 0.31 | 0.27 | 0.25 |
| 10 | 0.52 | 0.39 | 0.31 | 0.26 | 0.51 | 0.38 | 0.31 | 0.25 | 0.37 | 0.3 | 0.26 | 0.36 | 0.3 | 0.25 | 0.34 | 0.29 | 0.25 | 0.23 |

-MMS control pre-commissioning

Sample Number: -MMS (10-3M-L3-S10M)

| 10 | 3M | L3 | S10M | (Blank) |
|--|---|---|--|---|
| Detection Area 10 - 100% 7 - 75% 5 - 50% 1 - 10% | Hold Time 30M - 30 min. 20M - 20 min. 3M - 3 min. 30S - 30 sec. 5S - 5 sec. | Low Mode L5 - 50% L3 - 30% L2 - 20% L1 - 10% | Stand-by Period SN - ∞ S1H - 1 hr. S30M - 30 min. S10M - 10 min. S5M - 5 min. S5S - 5 sec. (Blank) - Disable | Daylight Sensor (Blank) - Disable D100 - 100 lux D50 - 50 lux D25 - 25 lux D10 - 10 lux D5 - 5 lux D2 - 2 lux |
| <p>Detection Area: Detection area can be reduced to fit precisely each application. Hold Time: The time period the luminaire remains at 100% illumination after no motion detected. Low Mode: The selected low light level after the hold time. Stand-by Period: The time period the luminaire remains at "Low Mode" before it completely switched off in the long absence of people. When set to "∞" mode, the low light level is maintained until motion is detected. Daylight Sensor: The sensor can be set to only allow the luminaire to illuminate below a defined ambient brightness threshold. When set to "Disable" mode, the daylight sensor will switch on the luminaire when motion is detected regardless of ambient light level. **Noted that daylight sensor is active only when the luminaire switches off**</p> | | | | |

-OS control pre-commissioning

Sample Number: -OS (L2-5M-L3-S10M)

| L2 | (Blank) | 5M | L3 | S10M | (Blank) | (Blank) | (Blank) |
|---|--|---|---|--|--|--|---|
| Lens / Coverage L2 - 8'H (48' dia.) L3 - 20'H (40' dia.) L4 - 40'H (60' dia.) L7 - 40'H (100' dia.) | High Mode (Blank) - 100% H9 - 90% H8 - 80% H7 - 70% | Hold Time #M - 1-30 min. 30S - 30 sec. | Low Mode L5 - 50% L3 - 30% L2 - 20% L1 - 10% | Stand-by Period SN - ∞ S#H - 1-5 hrs. S#M - 1-59 min. (Blank) - Disable | Ramp Up (Blank) - Disable #Up - 1-60 sec. | Fade Down (Blank) - Disable #Dn - 1-60 sec. | Photocell On/Off (Blank) - Disable PS - Active |
| <p>High Mode: The selected high light level when motion detected. Hold Time: Time period the luminaire remains at "High Mode" after no motion detected. Low Mode: The selected low light level after the hold time. Stand-by Period: Time period the luminaire remains at "Low Mode" before it completely switched off in the long absence of people. When set to "∞" mode, the low light level is maintained until motion is detected. Ramp Up: Time period for light level to increase from LOW to HIGH. Fade Down: Time period for light level to decrease from HIGH to LOW. Photocell On/Off: When the light level exceeds this setting, the lights will turn off even when the space is occupied. Once the light level exceeds this setting, the sensor will wait and monitor for a short period of time in order to confirm the light level increase is not temporary before forcing the lights to go off. When light level goes below the settings, the light will turn on even without motion detection. This feature is disabled by default. If using this setting in combination with the Hold Off set-point, there must be at least 10fc of dead band between the two settings. The Photocell set-point is automatically set to maintain at least 10fc of dead band above the Hold time set-point to help avoid load cycling.</p> | | | | | | | |