



## LED LUMINAIRES

### Halco Linear - Wraparound Series



UL Rated



Title 24



RoHS  
Compliant



5 YR  
WARRANTY  
5 Year  
Warranty



DLC  
Premium



DLC  
Listed

The Halco Linear Wrap Series Luminaire is a cost-effective solution for replacing pre-existing fluorescent fixtures. These maintenance-free, stainless steel LED wraps are exceptionally efficient and can be either surface or chain mounted. The durable acrylic lenses are offered in either prismatic or diffused for enhanced optical performance and visual comfort.



4ft Architectural

2ft Traditional

**Halco**  
LIGHTING TECHNOLOGIES

**Cost Efficient Replacement  
for Fluorescent Fixtures**

**Acrylic Lens Available in  
Two Designs**

**Architectural Diffused Lens  
and Traditional Prismatic  
Lens options**

**2ft and 4ft Footprint**

**Multiple Lumen Packages**

**Long Lifetime Rating**

**Applications:**

- Commercial
- Industrial
- Retail
- Educational Facilities
- Stairwell
- Task Lighting
- Parking Garage

Contact Your Customer Care Specialist  
For Pricing, Orders And Technical Support.

800.677.3334 [www.halcolighting.com](http://www.halcolighting.com)

# Halco Linear Wraparound Series

Product #: \_\_\_\_\_ Type: \_\_\_\_\_

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

Comments: \_\_\_\_\_ Initials: \_\_\_\_\_

## Performance

- Driver efficiency >85%
- CRI >80.
- L70 Lumen Maintenance > 50,000 hours (traditional) and > 100,000 hours (architectural)
- 5 year limited warranty
- 0-10V Dimming Standard, dimmable down to 10%
- Universal 120-277VAC

## Construction

- Die-formed 22 gauge steel
- Acrylic Lens offered in diffused or prismatic
- Aluminum reflector with high-reflectance powder coat

## Application

- Commercial
- Industrial
- Retail
- Utility
- Stairwell
- Task Lighting
- Parking Garage

## Certification

- UL Listed
- DLC Listed for Direct Linear Ambient Luminaires & Stairwell and Passageway Luminaires
- ROHs Compliant
- Damp Location

## Ordering Information

| Model Selection          |                                     |   |  | Typical Order | LWA-D46U4-40     |   |                      |  |
|--------------------------|-------------------------------------|---|--|---------------|------------------|---|----------------------|--|
| Family                   | Lens Type                           | / | Wattage  | Voltage       | Size             | / | CCT                  | Options  |
| LWA=Linear<br>Wraparound | D=Diffused Lens<br>P=Prismatic Lens | / | 23=23 Watt46=46 Watts<br>20=20Watts40=40 Watts | U=120-277VAC  | 2=2 FT<br>4=4 FT | / | 40=4000K<br>50=5000K | Omit)=NoneC1= 6' 120V<br>Cord & L5-15P PlugC2=6'<br>277V Cord & L7-15P Plug<br>EM=Battery Backup<br>MS=Motion Sensor |

### Architectural Diffused Lens

| Product # | Product Code | Length | Description   | Wattage Equivalent |
|-----------|--------------|--------|---|--------------------|
| 10300     | LWA-D23U2-40 | 2ft    | LINEAR WRAPAROUND, DIFFUSED LENS, 23W, 120-277V, 2FT, 4000K | 2 x 17W T8         |
| 10301     | LWA-D46U4-40 | 4ft    | LINEAR WRAPAROUND, DIFFUSED LENS, 46W, 120-277V, 4FT, 4000K | 4 x 32W T8         |
| 10305     | LWA-D23U2-50 | 2ft    | LINEAR WRAPAROUND, DIFFUSED LENS, 23W, 120-277V, 2FT, 5000K | 2 x 17W T8         |
| 10306     | LWA-D46U4-50 | 4ft    | LINEAR WRAPAROUND, DIFFUSED LENS, 46W, 120-277V, 4FT, 5000K | 4 x 32W T8         |

### Traditional Prismatic Lens

| Product # | Product Code | Length | Description  | Wattage Equivalent |
|-----------|--------------|--------|--|--------------------|
| 10302     | LWA-P20U2-40 | 2ft    | LINEAR WRAPAROUND, PRISMATIC LENS, 20W, 120-277V, 2FT, 4000K | 2 x 17W T8         |
| 10299     | LWA-P40U4-40 | 4ft    | LINEAR WRAPAROUND, PRISMATIC LENS, 40W, 120-277V, 4FT, 4000K | 2 x 32W T8         |
| 10307     | LWA-P20U2-50 | 2ft    | LINEAR WRAPAROUND, PRISMATIC LENS, 20W, 120-277V, 2FT, 5000K | 2 x 17W T8         |
| 10304     | LWA-P40U4-50 | 4ft    | LINEAR WRAPAROUND, PRISMATIC LENS, 40W, 120-277V, 4FT, 5000K | 2 x 32W T8         |

## Performance Data

| Product                     | Rated Wattage | 4000K            |          | 5000K            |          |
|-----------------------------|---------------|------------------|----------|------------------|----------|
|                             |               | Delivered Lumens | Efficacy | Delivered Lumens | Efficacy |
| Architectural Diffused Lens | 23            | 3073             | 134      | 3125             | 136      |
| LWA-D23U2-XX                | 23            | 3073             | 134      | 3125             | 136      |
| LWA-D46U4-XX                | 46            | 6242             | 136      | 6293             | 137      |
| Traditional Prismatic Lens  | 20            | 2442             | 122      | 2466             | 123      |
| LWA-P20U2-XX                | 20            | 2442             | 122      | 2466             | 123      |
| LWA-P40U4-XX                | 40            | 4944             | 124      | 5008             | 125      |

\*Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

\*\*For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

## Accessory Ordering Table

| Item Detail             | Product Code   | Product Number | Product Description   |
|-------------------------|----------------|----------------|---|
| Connector Bracket       | LWA-D/JB       | 10312          | LINEAR WRAP; ARCHITECTURAL DIFFUSED LENS; JOINER BRACKET, 1 PAIR (2PCS)   |
| Battery Backup          | BBU/EM8WU      | 10310          | BATTERY BACKUP; EMERGENCY 8W, 120-277V, LIFEPO4 BATTERY, 90 MINUTE BACKUP |
| Aircraft Cable          | ACC/12IN       | 10311          | AIRCRAFT CABLE; 12 INCHES, 1 SET  |
| PIR Motion Sensor       | LHB/MC         | 99986          | PIR MOTION SENSOR; BI-LEVEL, END MOUNTED                                  |
| MICROWAVE MOTION SENSOR | MWMS/MC601V    | 10313          | MICROWAVE MOTION SENSOR; BI-LEVEL, INTEGRATED MOUNT                       |
| MOUNTING BRACKET        | MWMS/IB/MC601V | 10318          | MICROWAVE MOTION SENSOR; INSTALLATION BRACKET; MERRYTEK MC601V            |

## Performance Data

| Rated Wattage                   | Traditional Prismatic Lens               |                     | Architectural Diffused Lens |                   |
|---------------------------------|--|---------------------|-----------------------------|-------------------|
|                                 | 20                                       | 40                  | 23                          | 46                |
| Dimensions                      | 24.2" x 7.1" x 2.8"                      | 47.7" x 7.1" x 2.8" | 24.2" x 9.7" x 2.8"         | 48" x 9.7" x 2.8" |
| Input Voltage                   | 120-277VAC                               |                     |                             |                   |
| Power Factor                    | >0.9                                     |                     |                             |                   |
| L70 Lifetime                    | >50,000                                  |                     | >100,000                    |                   |
| Tonal Harmonic Distortion (THD) | <20%                                     |                     |                             |                   |
| CRI                             | >80, R9 >0                               |                     |                             |                   |
| Dimming                         | 0-10V Continuous Dimming                 |                     |                             |                   |
| CCT                             | 4000K, 5000K                             |                     |                             |                   |
| Warranty                        | 5 Years Standard                         |                     |                             |                   |
| Color Consistency               | 5-Step MacAdam Ellipse                   |                     |                             |                   |
| Wet                             | Damp Location, 20-85% RH, non-condensing |                     |                             |                   |
| DLC                             | -20°C to 50°C                            |                     |                             |                   |
| Weight (lbs)                    | 5.1                                      | 9.0                 | 95.1                        | 9.0               |

# Halco Linear Wraparound Series

Product #: \_\_\_\_\_ Type: \_\_\_\_\_

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

Comments: \_\_\_\_\_ Initials: \_\_\_\_\_

## Photometrics

Each gridline represents the mounting height shown. The grid scale is based on the mounting height.

For mounting heights other than noted, use the below formula.

$$\text{Factor} = \frac{(\text{Chart's Mtg. Height})}{(\text{Actual Mtg. Height})}$$

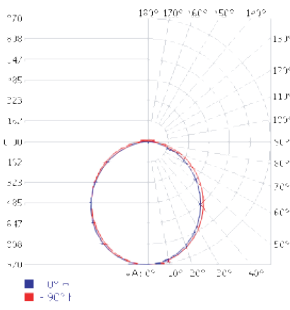
### LEGEND

- 0.25 fc
- 0.5 fc
- 1 fc
- 2 fc
- 5 fc

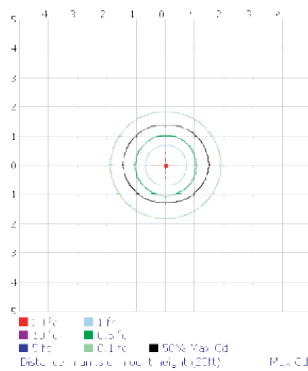
## Architectural Diffused Lens

23 WATT  
LWA-D23U2-XX

Polar Candida Distribution



Isofootcandle Plot

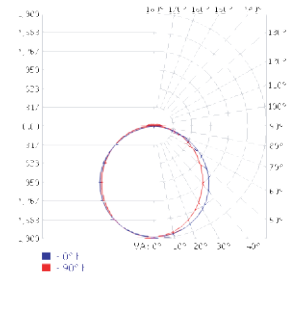


| ZONE   | LUMENS  | % LUMINAIRE |
|--------|---------|-------------|
| 0-30   | 741.3   | 26.4%       |
| 0-40   | 1,203.9 | 42.9%       |
| 0-60   | 2,101.0 | 74.9%       |
| 60-90  | 593.5   | 21.2%       |
| 70-100 | 290.1   | 10.3%       |
| 90-120 | 68.2    | 2.4%        |
| 0-90   | 2,694.6 | 96.1%       |
| 90-180 | 109.4   | 3.9%        |
| 0-180  | 2,803.9 | 100%        |

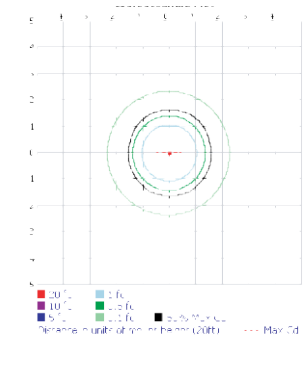
| ZONE  | LUMENS | % TOTAL | ZONE    | LUMENS | % TOTAL |
|-------|--------|---------|---------|--------|---------|
| 0-10  | 91.4   | 3.3%    | 90-100  | 23.4   | 0.8%    |
| 10-20 | 260.2  | 9.3%    | 100-110 | 27.4   | 1%      |
| 20-30 | 389.7  | 13.9%   | 110-120 | 17.4   | 0.6%    |
| 30-40 | 462.7  | 16.5%   | 120-130 | 16.6   | 0.6%    |
| 40-50 | 472.8  | 16.9%   | 130-140 | 11.6   | 0.4%    |
| 50-60 | 424.2  | 15.1%   | 140-150 | 7.2    | 0.3%    |
| 60-70 | 326.9  | 11.7%   | 150-160 | 3.8    | 0.1%    |
| 70-80 | 197.4  | 7.0%    | 160-170 | 1.6    | 0.1%    |
| 80-90 | 69.2   | 2.5%    | 170-180 | 0.3    | 0%      |

46 WATT  
LWA-D46U4-XX

Polar Candida Distribution



Isofootcandle Plot



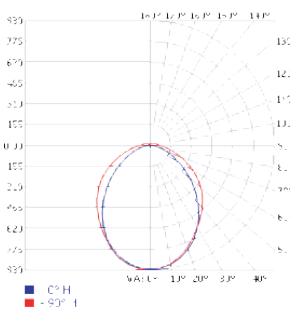
| ZONE   | LUMENS  | % LUMINAIRE |
|--------|---------|-------------|
| 0-30   | 1,451.6 | 25.4%       |
| 0-40   | 2,378.5 | 41.7%       |
| 0-60   | 4,229.0 | 74.1%       |
| 60-90  | 1,269.2 | 22.2%       |
| 70-100 | 624.0   | 10.9%       |
| 90-120 | 133.7   | 2.3%        |
| 0-90   | 5,498.2 | 96.3%       |
| 90-180 | 209.9   | 3.7%        |
| 0-180  | 5,708.1 | 100%        |

| ZONE  | LUMENS | % TOTAL | ZONE    | LUMENS | % TOTAL |
|-------|--------|---------|---------|--------|---------|
| 0-10  | 176.9  | 3.1%    | 90-100  | 47.3   | 0.8%    |
| 10-20 | 506.7  | 8.9%    | 100-110 | 54.0   | 0.9%    |
| 20-30 | 768.0  | 13.5%   | 110-120 | 32.4   | 0.6%    |
| 30-40 | 926.9  | 16.2%   | 120-130 | 30.9   | 0.5%    |
| 40-50 | 966.6  | 16.9%   | 130-140 | 21.6   | 0.4%    |
| 50-60 | 883.8  | 15.5%   | 140-150 | 13.2   | 0.2%    |
| 60-70 | 692.4  | 12.1%   | 150-160 | 7.0    | 0.1%    |
| 70-80 | 424.7  | 7.4%    | 160-170 | 2.9    | 0.1%    |
| 80-90 | 152.0  | 2.7%    | 170-180 | 0.7    | 0%      |

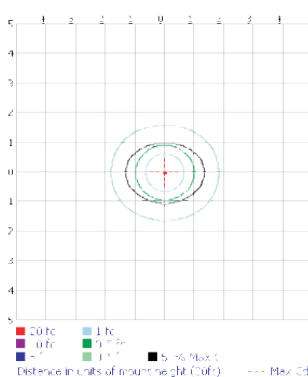
## Traditional Prismatic Lens

20 WATT  
LWA-P20U2-XX

Polar Candida Distribution



Isofootcandle Plot

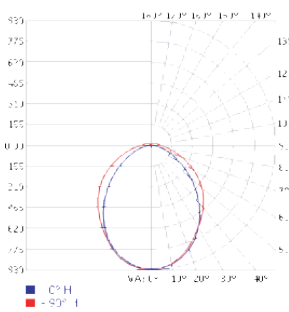


| ZONE   | LUMENS  | % LAMP | % LUMINAIRE |
|--------|---------|--------|-------------|
| 0-30   | 684.5   | 27.7%  | 27.8%       |
| 0-40   | 1,086.9 | 44%    | 44.1%       |
| 0-60   | 1,820.1 | 73.8%  | 73.8%       |
| 60-90  | 504.0   | 20.4%  | 20.4%       |
| 70-100 | 294.6   | 11.9%  | 12%         |
| 90-120 | 101.5   | 4.1%   | 4.1%        |
| 0-90   | 2,324.0 | 94.2%  | 94.3%       |
| 90-180 | 140.6   | 5.7%   | 5.7%        |
| 0-180  | 2,464.7 | 99.9%  | 100%        |

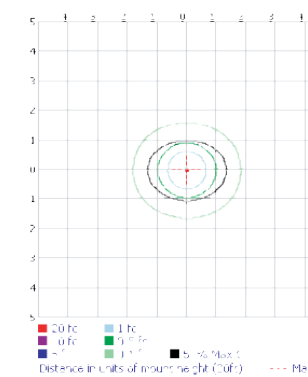
| ZONE  | LUMENS | % TOTAL | ZONE    | LUMENS | % TOTAL |
|-------|--------|---------|---------|--------|---------|
| 0-10  | 86.9   | 3.5%    | 90-100  | 44.9   | 1.8%    |
| 10-20 | 244.0  | 9.9%    | 100-110 | 33.0   | 1.3%    |
| 20-30 | 353.5  | 14.3%   | 110-120 | 23.6   | 1%      |
| 30-40 | 402.4  | 16.3%   | 120-130 | 15.9   | 0.6%    |
| 40-50 | 394.1  | 16.0%   | 130-140 | 11.0   | 0.4%    |
| 50-60 | 339.1  | 13.8%   | 140-150 | 7.0    | 0.3%    |
| 60-70 | 254.3  | 10.3%   | 150-160 | 3.7    | 0.2%    |
| 70-80 | 163.3  | 6.6%    | 160-170 | 1.4    | 0.1%    |
| 80-90 | 86.4   | 3.5%    | 170-180 | 0.2    | 0%      |

40 WATT  
LWA-P40U4-XX

Polar Candida Distribution



Isofootcandle Plot



| ZONE   | LUMENS  | % LAMP | % LUMINAIRE |
|--------|---------|--------|-------------|
| 0-30   | 1,341.6 | 27%    | 27.1%       |
| 0-40   | 2,141.2 | 43.2%  | 43.2%       |
| 0-60   | 3,616.5 | 72.9%  | 73%         |
| 60-90  | 1,031.9 | 20.8%  | 20.8%       |
| 70-100 | 608.1   | 12.3%  | 12.3%       |
| 90-120 | 215.6   | 4.3%   | 4.4%        |
| 0-90   | 4,648.4 | 93.7%  | 93.8%       |
| 90-180 | 307.8   | 6.2%   | 6.2%        |
| 0-180  | 4,956.2 | 99.9%  | 100%        |

| ZONE  | LUMENS | % TOTAL | ZONE    | LUMENS | % TOTAL |
|-------|--------|---------|---------|--------|---------|
| 0-10  | 169.2  | 3.4%    | 90-100  | 94.1   | 1.9%    |
| 10-20 | 476.7  | 9.6%    | 100-110 | 70.2   | 1.4%    |
| 20-30 | 695.6  | 14.0%   | 110-120 | 51.3   | 1%      |
| 30-40 | 799.6  | 16.1%   | 120-130 | 36.9   | 0.7%    |
| 40-50 | 790.2  | 15.9%   | 130-140 | 25.7   | 0.5%    |
| 50-60 | 685.0  | 13.8%   | 140-150 | 16.4   | 0.3%    |
| 60-70 | 517.8  | 10.4%   | 150-160 | 8.9    | 0.2%    |
| 70-80 | 335.5  | 6.8%    | 160-170 | 3.5    | 0.1%    |
| 80-90 | 178.6  | 3.6%    | 170-180 | 0.7    | 0%      |

# Halco Linear Wraparound Series

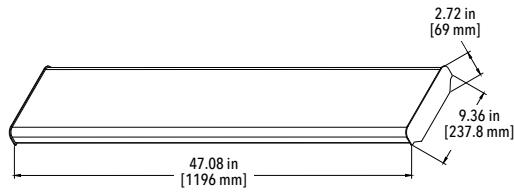
Product #: \_\_\_\_\_ Type: \_\_\_\_\_

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

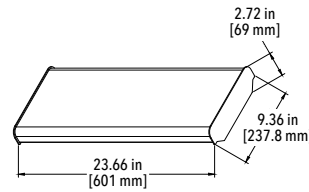
Comments: \_\_\_\_\_ Initials: \_\_\_\_\_

## Dimensions

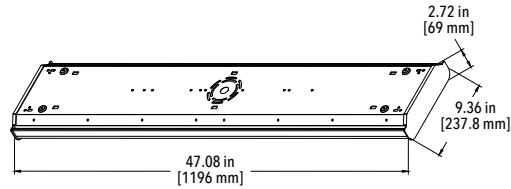
### Architectural



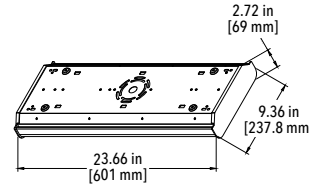
LWA-D - 4ft.  
Lens Side



LWA-D - 2ft.  
Lens Side

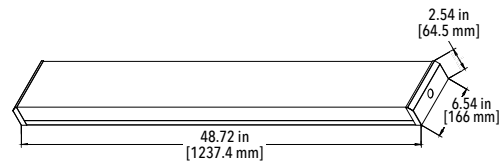


LWA-D - 4ft.  
Back Side

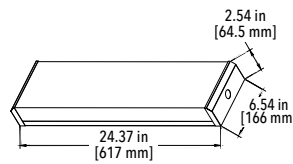


LWA-D - 2ft.  
Back Side

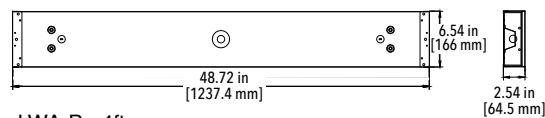
### Traditional



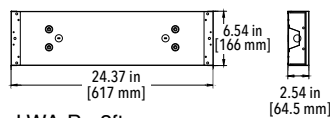
LWA-P - 4ft.  
Lens Side



LWA-P - 2ft.  
Lens Side



LWA-P - 4ft.  
Back Side



LWA-P - 2ft.  
Back Side

## Luminaires

### Architectural



LWA-D - 4ft.

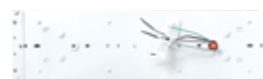


LWA-D - 2ft.

### Traditional



LWA-P - 4ft.



LWA-P - 2ft.