



## LED LUMINAIRES

### Halco Linear - Wraparound Series



UL Rated



Title 24



RoHS  
Compliant



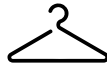
5 Year  
Warranty



DLC  
Premium



DLC  
Listed



Closet  
Rated

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
- Suitable for use in closets when installed in accordance with NFPA 70, NEC section 410.16 (A)(3) and 410.16 (C)(5)

## Construction

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

## Certification

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

## Application

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

## Ordering Information

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

Architectural Diffused Lens					
Product #	Product Code	Length	Description	Wattage Equivalent	DLC Classification
10300	LWA-D23U2-40	2ft	LINEAR WRAPAROUND, DIFFUSED LENS, 23W, 120-277V, 2FT, 4000K	2 x 17W T8	DLC Premium
10301	LWA-D46U4-40	4ft	LINEAR WRAPAROUND, DIFFUSED LENS, 46W, 120-277V, 4FT, 4000K	2 x 32W T8	DLC Premium
10305	LWA-D23U2-50	2ft	LINEAR WRAPAROUND, DIFFUSED LENS, 23W, 120-277V, 2FT, 5000K	2 x 17W T8	DLC Premium
10306	LWA-D46U4-50	4ft	LINEAR WRAPAROUND, DIFFUSED LENS, 46W, 120-277V, 4FT, 5000K	24 x 32W T8	DLC Premium
Traditional Prismatic Lens					
Product #	Product Code	Length	Description	Wattage Equivalent	DLC Classification
10302	LWA-P20U2-40	2ft	LINEAR WRAPAROUND, DIFFUSED LENS, 23W, 120-277V, 2FT, 4000K	2 x 17W T8	DLC Standard
10299	LWA-P40U4-40	4ft	LINEAR WRAPAROUND, DIFFUSED LENS, 23W, 120-277V, 4FT, 4000K	2 x 32W T8	DLC Standard
10307	LWA-P20U2-50	2ft	LINEAR WRAPAROUND, DIFFUSED LENS, 23W, 120-277V, 2FT, 5000K	2 x 17W T8	DLC Standard
10304	LWA-P40U4-50	4ft	LINEAR WRAPAROUND, DIFFUSED LENS, 23W, 120-277V, 4FT, 5000K	2 x 32W T8	DLC Standard

## Performance Data

Product	Rated Wattage	4000K		5000K	
		Delivered Lumens	Efficacy	Delievered 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, LIFEP04 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	24-5/16" x 6-9/16" x 2-9/16"	48-11/16" x 6-9/16" x 2-9/16"	23-11/16" x 9-3/8" x 2-11/16"	47-1/16" x 9-3/8" x 2-11/16"
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 Lighting Technologies 2940 Pacific Drive I Norcross, GA 30071 I Toll Free 800.677.3334 I Phone 770.242.3612 I Fax 800.880.0822 I [halcolighting.com](http://halcolighting.com) I Atlanta I Chicago I Cleveland I Houston I Phoenix

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# 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.

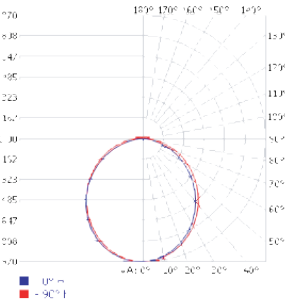
For mounting heights other than noted, use the below formula.  
Factor = (Chart's Mtg. Height) / (Actual Mtg. Height)

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

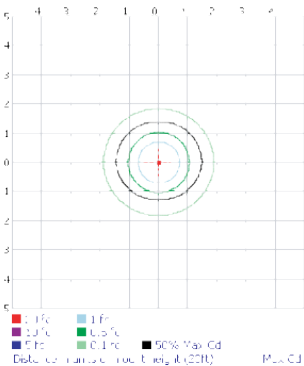
## Architectural Diffused Lens

23 WATT  
LWA-D23U2-XX

Polar Candela Distribution



Isofootcandle Plot

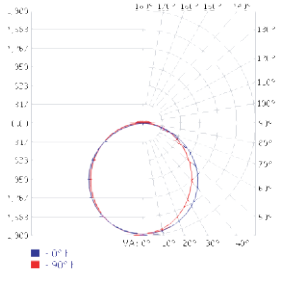


ZONAL LUMEN SUMMARY		
ZONE	LUMENS	% LUMINAIRE
0-30	741.3	26.4%
0-40	1,203.9	42.9%
0-60	2,101.0	74.9%
60-90	593.5	21.2%
70-100	290.1	10.3%
90-120	68.2	2.4%
0-90	2,694.6	96.1%
90-180	109.4	3.9%
0-180	2,803.9	100%

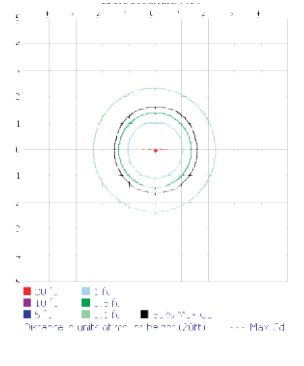
LUMENS PER ZONE				
ZONE	LUMENS	% TOTAL	ZONE	LUMENS % TOTAL
0-10	91.4	3.3%	90-100	23.4 0.8%
10-20	260.2	9.3%	100-110	27.4 1%
20-30	389.7	13.9%	110-120	17.4 0.6%
30-40	462.7	16.5%	120-130	16.6 0.6%
40-50	472.8	16.9%	130-140	11.6 0.4%
50-60	424.2	15.1%	140-150	7.2 0.3%
60-70	326.9	11.7%	150-160	3.8 0.1%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



Isofootcandle Plot



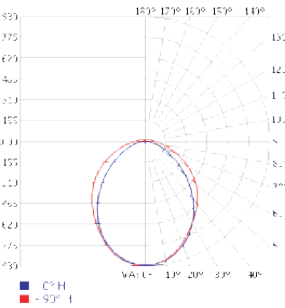
ZONAL LUMEN SUMMARY		
ZONE	LUMENS	% LUMINAIRE
0-30	1,451.6	25.4%
0-40	2,378.5	41.7%
0-60	4,229.0	74.1%
60-90	1,269.2	22.2%
70-100	624.0	10.9%
90-120	133.7	2.3%
0-90	5,498.2	96.3%
90-180	209.9	3.7%
0-180	5,708.1	100%

LUMENS PER ZONE				
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%

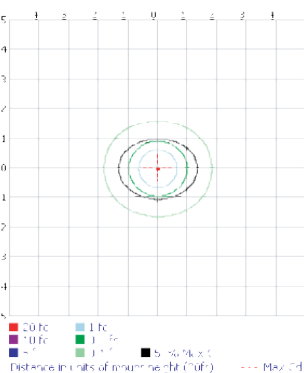
## Traditional Prismatic Lens

20 WATT  
LWA-P20U2-XX

Polar Candela Distribution



Isofootcandle Plot

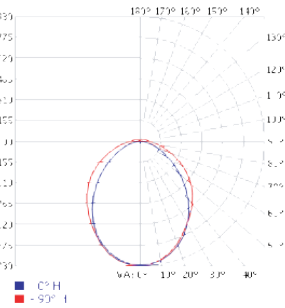


ZONAL LUMEN SUMMARY		
ZONE	LUMENS	% LUMINAIRE
0-30	684.5	27.7%
0-40	1,086.9	44%
0-60	1,820.1	73.8%
60-90	504.0	20.4%
70-100	294.6	11.9%
90-120	101.5	4.1%
0-90	2,324.0	94.3%
90-180	140.6	5.7%
0-180	2,464.7	100%

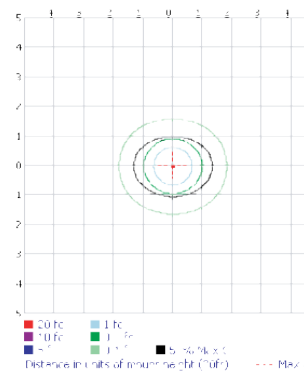
LUMENS PER ZONE				
ZONE	LUMENS	% TOTAL	ZONE	LUMENS % TOTAL
0-10	86.9	3.5%	90-100	44.9 1.8%
10-20	244.0	9.9%	100-110	33.0 1.3%
20-30	353.5	14.3%	110-120	23.6 1%
30-40	402.4	16.3%	120-130	15.9 0.6%
40-50	394.1	16.0%	130-140	11.0 0.4%
50-60	339.1	13.8%	140-150	7.0 0.3%
60-70	254.3	10.3%	150-160	3.7 0.2%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



Isofootcandle Plot



ZONAL LUMEN SUMMARY		
ZONE	LUMENS	% LUMINAIRE
0-30	1,341.6	27%
0-40	2,141.2	43.2%
0-60	3,616.5	73%
60-90	1,031.9	20.8%
70-100	608.1	12.3%
90-120	215.6	4.4%
0-90	4,648.4	93.8%
90-180	307.8	6.2%
0-180	4,956.2	100%

LUMENS PER ZONE				
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

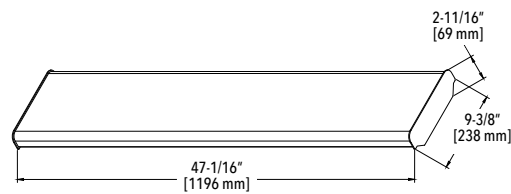
Product #: \_\_\_\_\_ Type: \_\_\_\_\_

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

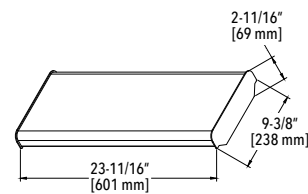
Comments: \_\_\_\_\_ Initials: \_\_\_\_\_

## Dimensions

### Architectural



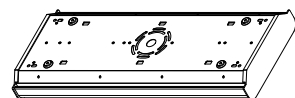
LWA-D - 4ft.  
Lens Side



LWA-D - 2ft.  
Lens Side

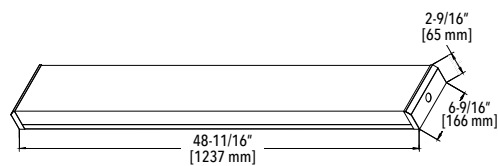


LWA-D - 4ft.  
Back Side

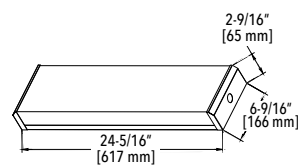


LWA-D - 2ft.  
Back Side

### 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.