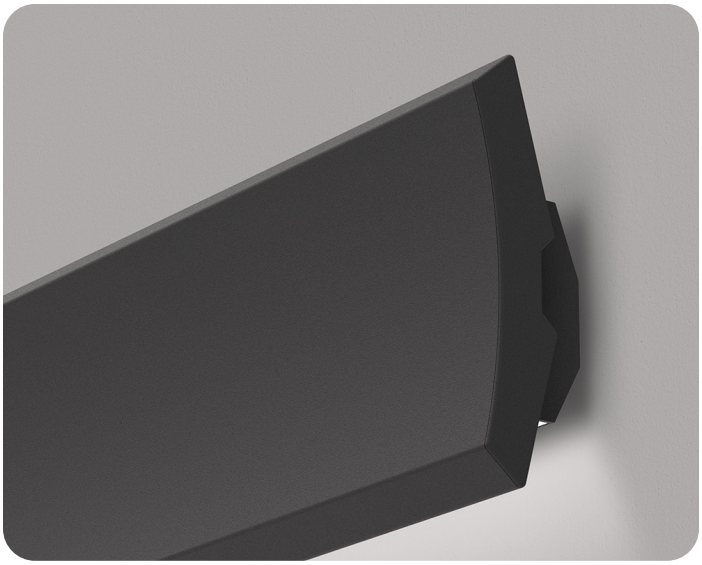
STARTEK
ARCHITECTURAL LIGHTING

Rep/Agent		Type	
Project			
Order No.		Date	

Concave Wall Grazer

Direct



Key Features

- Extruded aluminum two piece housing
- Soft diffuse direct lighting
- Snap-in lens and reflector for easy install
- 2', 4', 6' and 8' individual units or continuous rows
- 0-10V dimming to 1% is standard
- Efficacy up to 102 lm/W
- Consult factory for TM21, TM30, LM79 and LM80

5 Year Warranty | BABA Compliant | BAA Compliant | Intertek | RoHS Compliant

Specifications

Construction

- Continuous extruded 6063 T5 aluminum

Dimensions

- Nominal dimensions: 7.6" x 3.4"

Finish

- Powder coated
- Colors: White, Black, Silver or Premium Finishes
- Custom colors available. Consult factory for more information.

Luminaire Length

- Standard individual lengths: 2', 4', 6' or 8'
- Fixture and run lengths are available in $\frac{1}{16}$" increments.
- Using internal joiners, sections can be joined to form longer, continuous rows.

Source

- CCT options: 2700K, 3000K, 3500K, 4000K, or 5000K
- All within 3 MacAdam ellipses
- 90 CRI (R9 50 min) available
- L70 > 50,000 hours

Lensing

- 0.060" thick impact resistant acrylic lens
- Soft diffuse direct lighting

Operating Temperature

- -40°C to 45°C (-40°F to 113°F)

Lithium Ion Battery

- Provides up to 780 lm (6W) or up to 1300 lm (10W) for 90 minutes.
- Certifications: UL924 listed, Class 2 compliant, and Title 20 CEC (California Energy Commission) compliant

Dimming Driver

- Output current: 0-10V dim to 1% (UL listed, Class P)
- Surge protection: 2.5KV ring and wave
- Power factor: <0.93

Generator Transfer Device

- Luminaires with GTD option provides a UL924 shunt relay to bypass normal power, switches, and 0–10V dimming.

Certifications

- Build America Buy America compliant
- Buy American Act compliant
- Intertek cETLus Listed
- RoHS (Restriction of Hazardous Substances)
- JA8 compliant
- Suitable for dry and damp locations

Packaging

- Sustainably manufactured outside cardboard box and biodegradable, protective poly-foam luminaire inserts.

Warranty

- 5-year limited warranty.

The information in this document is subject to change without notice.
Contact STARTEK for most up to date product details.

Ordering Logic

WALLD-8-750-GRZ-35K-80-PW-HWM-C-U-1C-1EMB10

Series	Length	Direct Output[1]	Direct Distribution	CCT	CRI
WALLD					
	XX - Run Length	**250 -** 250 LPF	**GRZ -** Wall Graze	**27K -** 2700K	**80 -** 80 CRI
		500 - 500 LPF	**SD -** SatinIce Diffuse	**30K -** 3000K	**90 -** 90 CRI (R9 50 min)
		750 - 750 LPF		**35K -** 3500K	
		1000 - 1000 LPF		**40K -** 4000K	
		XXX - Custom LPF		**50K -** 5000K	
				TW - Tunable White[3] (2700K-6500K)	

Finish[2]	Mounting	Trim	Voltage	Circuiting	Emergency
		C			
Standard Powder Coat	**HWM -** Horizontal Wall Mount	**C -** Concave	**U -** 120-277V	**1C -** Single Circuit	**BLANK -** None
PW - White	**VWM -** Vertical Wall Mount		**C -** 347V	**MC -** Multiple Circuits[3, 4]	**EC -** Emergency Circuit[7]
PB - Black				**DL -** Daylight Control[3, 5]	**#EMB6 -** 6W EM Battery[8, 9]
PS - Silver				**NL -** Night Lights[3, 6]	**#EMB10 -** 10W EM Battery[8, 9]
Premium					**#FCEMB10 -** 10W EM Battery[8, 10]
RALXXXX - Powder Coat Gloss Finish					**#FCEMB14 -** 14W EM Battery[8, 10]
PSFX - Premium Stock Finish					**#GTD -** Generator Transfer Device w/ ALCR[11]
Custom Powder Coat					
PO - Powder Other					

Options

Specialty Drivers[12]	Sensors[15]
DT1 - eldoLED EcoDrive Dim to 1% (0-10V)	**AWNR -** Lutron Athena Wireless Node (RF Only)
DTZ - eldoLED SoloDrive Dim to 0.1% (0-10V)	**Junction Box**
PSRD - Philips Sensor Ready (DALI) Driver	**HB -** Handy Box (4" x 1.5" x 1.25")
LDE1 - Lutron Hi-Lume EcoSystem LED Driver w/ Soft-on, Fade-to-Black	
TW-A - Tunable White, 0-10V[13]	
TW-EL - eldoLED DUALdrive Tunable White (DALI)[13]	
LD2 - Lutron DALI 2 Digital Tunable White Driver w/ 1% Dimming[14]	

Ordering Notes

1. 200 LPF min. output / 1500 LPF max. output.
2. See page 3 for standard options.
3. Customer to specify number of zones and locations through factory submittal drawings.
4. Multiple low and line control zones.
5. Multiple low voltage control zones for daylight control.
6. Multiple unswitched wires for night light control zones.
7. Separate power, transfer devices provided by others.
8. '#' indicates number per run.
9. Provided by Iota/Bodine.
10. EM battery is factory choice.
11. Iota EDS-DR Emergency Control Device
12. Standard driver is 0-10V, dim to 1% output current.
13. 75 Watt Max. Dual driver required for higher fixture wattage.
14. 50 Watt Max. Dual driver required for higher fixture wattage.
15. Athena sensor matches finish for white and black fixtures.

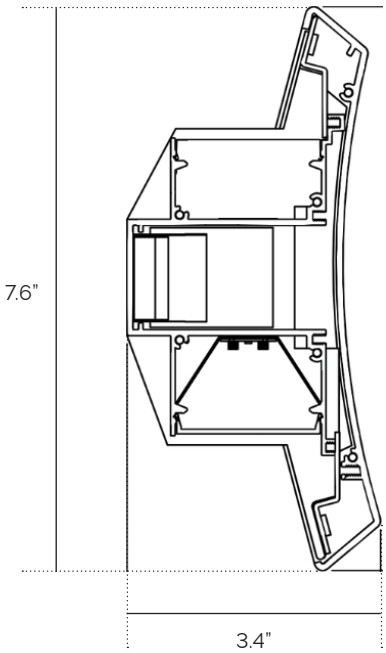
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STARTEK
ARCHITECTURAL LIGHTING

Concave Wall Grazer

Direct

Dimensions



Finishes

Standard



PW: White



PB: Black



PS: Silver

Premium Stock



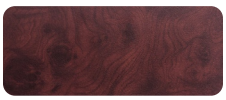
PSF001: Wood 1



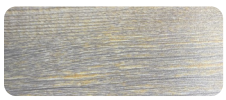
PSF002: Wood 2



PSF003: Wood 3



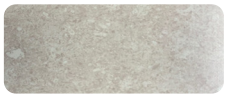
PSF004: Wood 4



PSF005: Wood 5



PSF006: Wood 6



PSF007: Stone 1



PSF008: Stone 2

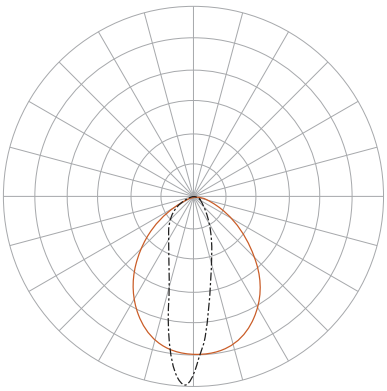


PSF009: Stone 3

NOTE: A minimal impact to lead times will apply to products specified with Premium Stock Finishes (PSF). It is not to be assumed that these finishes are stocked in our warehouse, but rather, are readily available to us for your project.

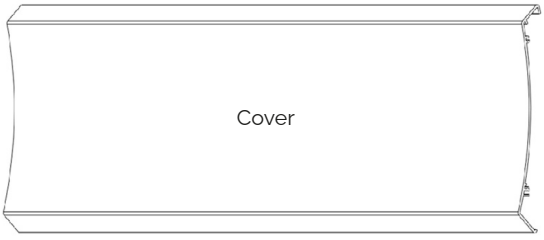
All other custom finishes (PO) will incur a set up fee and will add an extended lead time to your project.

Distribution



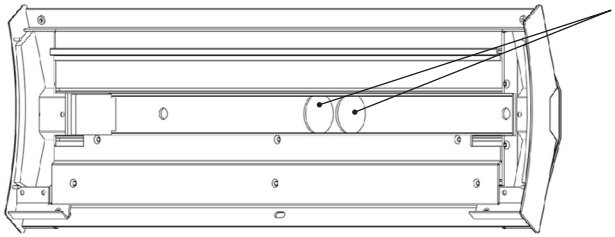
Direct: Wall Graze (GRZ)

Power Location



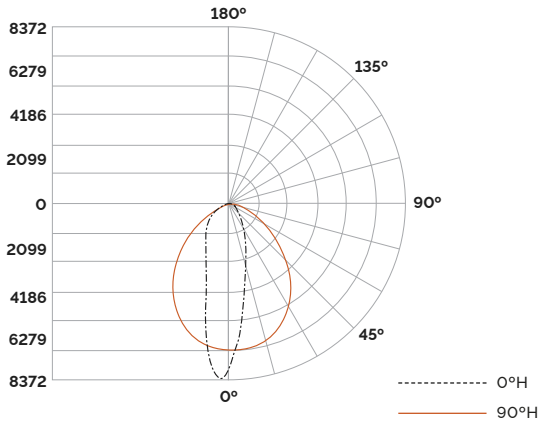


J-Box
4" x 1.5" x 1.25"



Performance

WALLD-8-1000-GRZ-35K-80



Luminance Data (cd/sq.m)

Angles	Avg. 0°	Avg. 45°	Avg. 90°
45°	968	3720	40818
55°	361	769	30673
65°	436	494	21596
75°	634	702	15433
85°	1632	1782	13219

Candela Table

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	7274	7274	7274	7274	7274
5	5398	5182	5581	6291	7128
10	3551	3474	4070	5302	7018
15	2462	2474	3008	4346	6818
20	1671	1739	2283	3527	6525
25	934	1051	1706	2859	6151
30	610	660	1160	2332	5665
35	408	446	754	1879	5079
40	216	259	507	1492	4393
45	87	111	333	1122	3650
50	28	27	172	814	2915
55	26	24	56	537	2225
60	25	22	28	340	1641
65	23	20	26	172	1154
70	22	19	25	59	785
75	21	18	23	49	505
80	19	17	21	43	297
85	18	15	20	37	146
90	0	0	0	0	0

Power

Direct LPF	Total Lumens	Wall Grazer (GRZ)	
		LPW	W/ft.
300	2800	100	4
500	4000	100	5
750	6000	100	9
1000	8000	100	10

NOTE: Based on 8' lengths at 35K CCT and 80 CRI modules. All wattage values are rounded up. Delivered lumens may vary +/- 5%. Actual wattage may vary +/- 5%.

Wattage Multiplier

CRI	CCT	4' Length	8' Length
80 CRI	3000K	1.11	1.05
	3500K	1.05	1.00
	4000K	1.03	0.98
	5000K	1.02	0.97
90 CRI	3000K	1.17	1.11
	3500K	1.11	1.05
	4000K	1.08	1.03
	5000K	1.07	1.02

Multiplier How-To

To determine CRI/CCT configuration wattage:
Choose wattage from Power matrix for desired optic and lumen output for 8' fixture length.

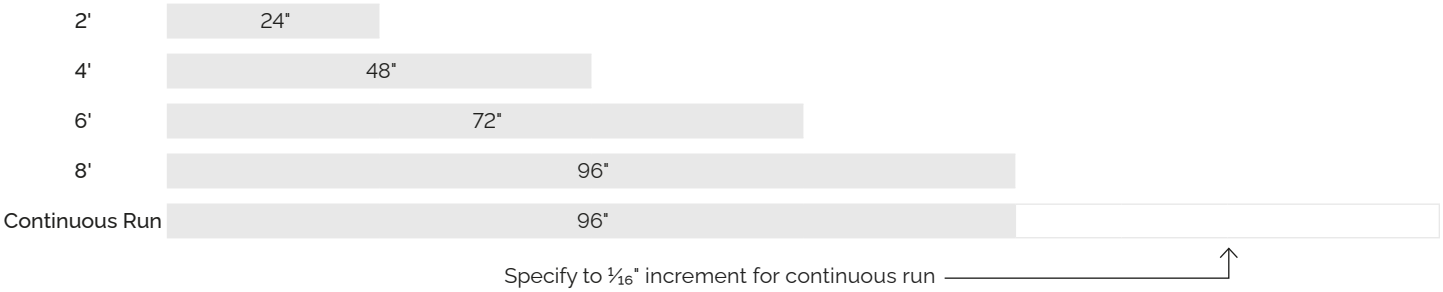
Wattage x Multiplier = New Configuration Wattage

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Row Configurations

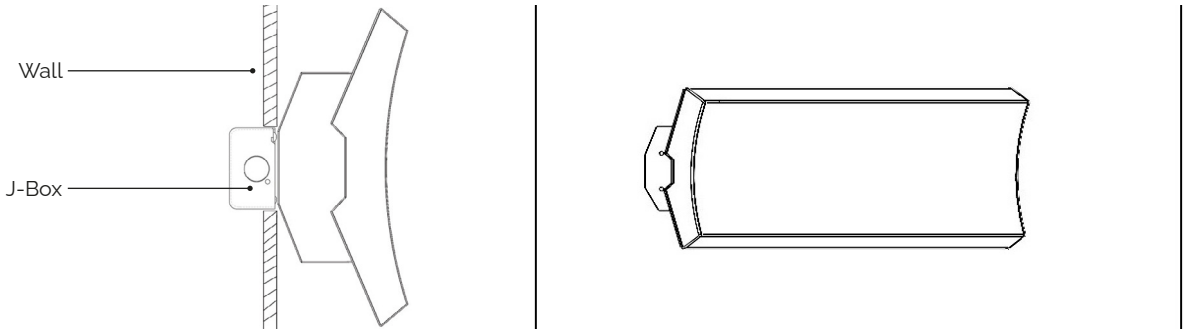
Individual & Continuous Fixtures

Individual fixtures are available from 2' to 8'. The standard construction for run lengths is to build with as many 8' fixtures as possible and finish the run with a shorter length fixture if needed. If a different configuration is needed to meet an aesthetic requirement, please indicate this on your P.O. when placing your order.



Mounting

WM (Wall Mount)



Wiring Diagram

Wiring configurations are dependent on the options chosen. Below are a few examples of our standard wiring that is used to power the fixture.

This wiring diagram is showing a standard set of wires for a basic fixture.

Wiring		
High Voltage	Low Voltage	Hot (Black)
18 GA		Neutral (White)
H = Hot	+D(V) = +Dimming	Ground (Green)
N = Neutral	-D(G) = -Dimming	+Dimming (Violet)
GND = Ground	2864	-Dimming (Pink)

This wiring diagram is showing a set of wires for a fixture with a emergency battery.

Wiring		
High Voltage	Low Voltage	Switched (Black)
18 GA		Neutral (White)
H = Hot	+D(V) = +Dimming	Ground (Green)
N = Neutral	-D(G) = -Dimming	Unswitched (Red)
U = Unswitched	-	+Dimming (Violet)
GND = Ground	-	-Dimming (Pink)

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