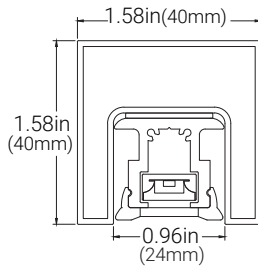
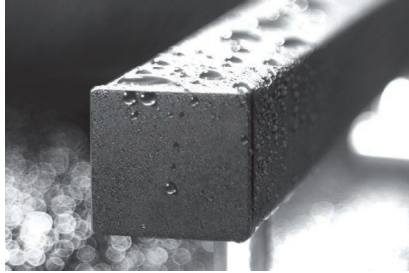


OrgaRail® - Illuminated Handrail

SQUARE



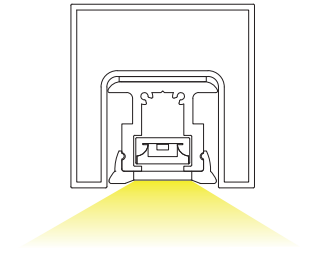
ORGANIC LIGHTING®

Project

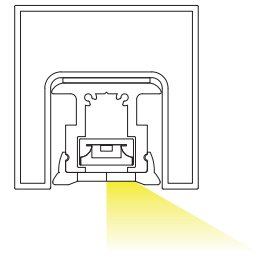
Date

AVAILABLE PROFILES

SYMMETRIC



ASYMMETRIC



FEATURES

- Heavy duty stainless steel AISI 316 Satin Brushed.
- Energy efficient
- 24V
- Wall and Post Mounts are designed for quick and easy installation
- Available in various colors and luminous intensities
- Made in the USA
- ADA Compliant
- Bug Rating: B0-U0-G0
- IK10

OPTICS

- OrgaLED® LED strips available in multiple intensities:
- Low output (Deco 35-38 lm/ft | 115-125 lm/m)
 - Medium output (Power 117-127 lm/ft | 383-416 lm/m)
 - High output (Power 198-216 lm/ft | 651-708 lm/m)
 - Photon (275-1018 lm/ft | 745-3339 lm/m)
 - Available in 2700K, 3000K, 3500K, 4000K, 5000K, RGBW27K, RGBW30K, RGBW40K and Wildlife Amber.
 - OrgaLED® Continuous run length up to 66ft (20.1m)
 - Energy Efficient (120-180 lm/watt)

MOUNTING

Wall or post mounted, glass infill option or glass mounting.
*Glass by others.

CONNECTING

The maximum unit length of the handrail is 16.4ft(5m) and can easily be connected mechanically or by welding. All handrails can be applied indoor and outdoor.

HOW TO SPECIFY YOUR ENERGY EFFICIENT HANDRAIL

As each lighting project is unique, all the components of the OrgaRail® illuminated Handrail are professionally customized. Therefore, it is of great importance to provide fully dimensioned plans, DWG files and detailed drawings, in addition to the useful nomenclature below.

ILLUMINATED HANDRAIL TECHNICAL DETAIL

Profile	Length	LED	CCT	Control	Beam	Mount	Lens	Connector	Options
HRS	_____	_____	_____	_____	_____	_____	_____	_____	_____
HRS Square	X Length in feet	D Deco P Power HP High Power P1 Photon 1200 P2 Photon 2000 P3 Photon 3000 P4 Photon 4000	27 2700K 30 3000K 35 3500K* 40 4000K 50 5000K 65 6500K** RGBW27 RGBW27K RGBW30 RGBW30K RGBW40 RGBW40K A Wildlife Amber	ND Non Dimming D1 0-10V TRI TRIAC DMX DMX	S Sym.	P Post G Glass W Wall CU Custom	LC Clear LF Frosted LA Asym.	I Interior (IP40) E Exterior (IP67)	PR Post Return WR Wall Return EC End Cap FL Flange Base Kit ID Integral Power Supply N None

*D, P, HP only **Photon only

CUSTOM FINISH

Powder Coat _____
(RAL #)
Alloy Composition Coating
Information available upon request.

Specifications may be modified or improved without notification.



OrgaRail® - Illuminated Handrail

SQUARE

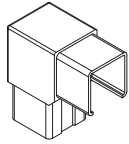
MOUNTINGS & ACCESSORIES

Project

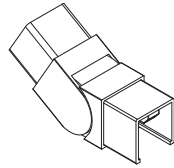
STANDARD & CUSTOMIZED ANGLES

Date

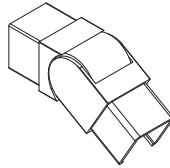
There are three standard angles for the OrgaRail® Handrails: 90°, Adjustable Up and Adjustable Down angles. Other angles can be customized upon request.



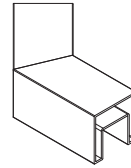
90° Post Return



Adjustable Angle Up



Adjustable Angle Down



Custom Angle

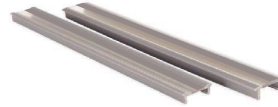
LENS



Clear Lens



Frosted Lens



Asymmetric Lens

INFILLS & ACCESSORIES



Glass Bracket
(glass by others)



Cable Infill



Railing Infill



Guardrail

ADDER ACCESSORIES

Profile	Infills
HR	_____
HR	GB Glass Brackets Infill (sizes in inches: Ø1/4, Ø5/16, Ø3/8, Ø9/16) RL Railing Infill (sizes in inches: Ø1/2, Ø5/8) CL Cable Infill (sizes in inches: Ø1/8, Ø5/32) GR Guardrail Non-Illuminated (42" height)

Specifications may be modified or improved without notification.

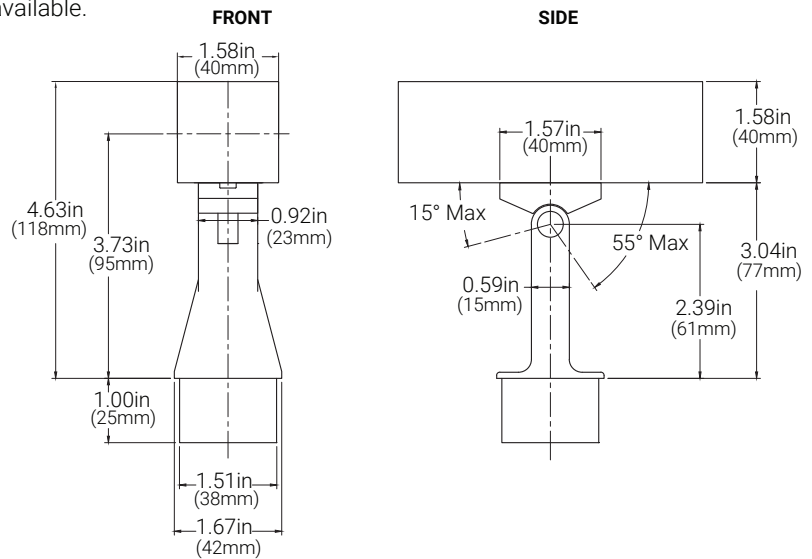
OrgaRail® - Illuminated Handrail

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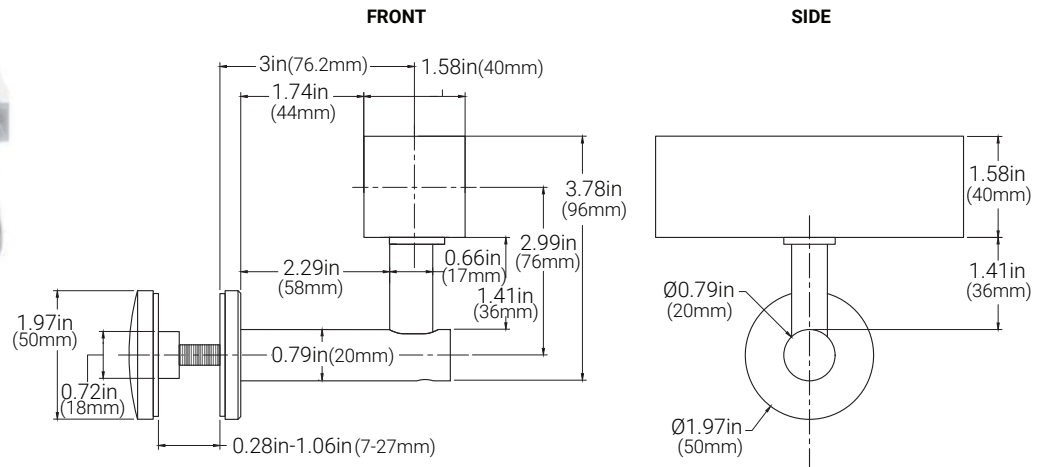
DIMENSIONS

POST MOUNT

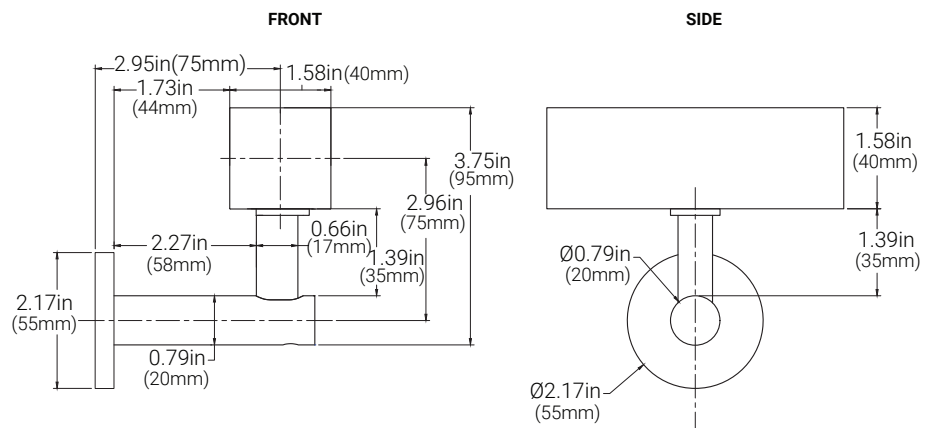
*Standard: 1.6" Round post. Custom square post available.



GLASS MOUNT



WALL MOUNT



Specifications may be modified or improved without notification.

OrgaRail® - Illuminated Handrail

SQUARE

SYMMETRIC LED STRIPS - 24V

Compatible with Slide-Fed Symmetric applications. Can be made Asymmetric with an Asymmetric lens. Flexible UV/IR protected PVC encapsulated LEDs with a continuous run length of up to 66ft (20.1m).

PART NUMBER & SPECIFICATIONS- SYMMETRIC

Part #	Color	CRI	Lm/ft	Lm/m	Max Run	W/ft	W/m
OrgaLED® Deco Top							
041101	2700K	>94	35.1	115.1	66ft	20.1m	0.3 0.98
041102	3000K	>94	36	118.1	66ft	20.1m	0.3 0.98
041103	3500K	>94	36	118.1	66ft	20.1m	0.3 0.98
041104	4000K	>94	38.1	125	66ft	20.1m	0.3 0.98
041105	5000K	>94	38.1	125	66ft	20.1m	0.3 0.98
OrgaLED® Power Top							
041201	2700K	>94	116.8	383.1	66ft	20.1m	1 3.3
041202	3000K	>94	120.1	393.9	66ft	20.1m	1 3.3
041203	3500K	>94	120.1	393.9	66ft	20.1m	1 3.3
041204	4000K	>94	127	416.6	66ft	20.1m	1 3.3
041205	5000K	>94	127	416.6	66ft	20.1m	1 3.3
OrgaLED® High Power Top							
041301	2700K	>94	198.6	651.4	66ft	20.1m	1.7 5.6
041302	3000K	>94	204.2	669.8	66ft	20.1m	1.7 5.6
041303	3500K	>94	204.2	669.8	66ft	20.1m	1.7 5.6
041304	4000K	>94	215.9	708.2	66ft	20.1m	1.7 5.6
041305	5000K	>94	215.9	708.2	66ft	20.1m	1.7 5.6
OrgaLED® RGBW Top							
041401	RGBW27K	>90	120.6	395.6	33ft	10m	2.2 7.2
041402	RGBW30K	>90	120.6	395.6	33ft	10m	2.2 7.2
041403	RGBW40K	>90	120.6	395.6	33ft	10m	2.2 7.2
OrgaLED® Photon 1200 Top							
051101	2700K	>94	275.4	903.3	23ft	7m	1.8 5.9
051102	3000K	>94	291.6	956.4	23ft	7m	1.8 5.9
051104	4000K	>94	324	1062.7	23ft	7m	1.8 5.9
051105	5000K	>94	315.9	1036.2	23ft	7m	1.8 5.9
051106	6500K	>94	311	1020.1	23ft	7m	1.8 5.9
OrgaLED® Photon 2000 Top							
051201	2700K	>94	459	1505.5	20ft	6m	3 9.8
051202	3000K	>94	486	1594.1	20ft	6m	3 9.8
051204	4000K	>94	540	1771.2	20ft	6m	3 9.8
051205	5000K	>94	526	1725.3	20ft	6m	3 9.8
051206	6500K	>94	518.4	1700.4	20ft	6m	3 9.8
OrgaLED® Photon 3000 Top							
051301	2700K	>94	703.8	2308.5	16ft	5m	4.6 15.1
051302	3000K	>94	745.2	2444.3	16ft	5m	4.6 15.1
051304	4000K	>94	828	2715.8	16ft	5m	4.6 15.1
051305	5000K	>94	807.3	2647.9	16ft	5m	4.6 15.1
051306	6500K	>94	794.9	2607.3	16ft	5m	4.6 15.1
OrgaLED® Photon 4000 Top							
051401	2700K	>94	887.4	2910.7	16ft	5m	6 19
051402	3000K	>94	939.6	3081.9	16ft	5m	6 19
051404	4000K	>94	1044	3424.3	16ft	5m	6 19
051405	5000K	>94	1017.9	3338.7	16ft	5m	6 19
051406	6500K	>94	1002.2	3287.2	16ft	5m	6 19

Specifications may be modified or improved without notification.

ACCESSORIES



Straight Connector Cable
16ft (4.88m) | IP40 / IP67
#041002



Bottom Feed Connector Cable
16ft (4.88m) | IP40 / IP67
#041003



Jumper Cable 8in (203.2mm)
IP40 / IP67
#041004



Top End Cap | IP40 / IP67
#041001



L-Splice Connector | IP40 / IP67
#041005



Inline Connector | IP40 / IP67
#041006



PVC IP67 Waterproofing Kit
#011511



IP67 Factory Waterproofing
#011508

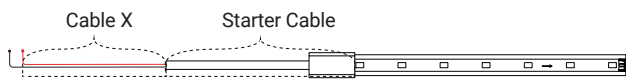
OrgaRail® - Illuminated Handrail

SQUARE

CABLE REQUIREMENT

The OrgaLED® LED strips need a minimum voltage at the beginning of the LED strip to function according to the specifications. The table below gives an indication of the maximum cable length based on the cable thickness. The standard OrgaLED® starter cable (20 AWG) has a cable length of 16ft (5m).

In case the required length is longer than the length mentioned in this cable, it is recommended to cut the starter cable down to 1ft and splice a larger gauge cable. Please contact your distributor for a detailed cable calculation.



Cable X Information	LED Strip	Max. Cable Length
OrgaLED Top		24V
20 AWG x 2	3.28ft / 1m	303ft / 92.4m
	16.4ft / 5m	57ft / 17.4m
	32.8ft / 10m	36ft / 11m
	49.2ft / 15m	20ft / 6.1m
	65.6ft / 20m	16ft / 4.9m
18 AWG x 2	3.28ft / 1m	457ft / 139.3m
	16.4ft / 5m	86ft / 26.2m
	32.8ft / 10m	56ft / 17.1m
	49.2ft / 15m	35ft / 10.7m
	65.6ft / 20m	25ft / 7.7m
16 AWG x 2	3.28ft / 1m	914ft / 278.6m
	16.4ft / 5m	172ft / 52.4m
	32.8ft / 10m	90ft / 27.4m
	49.2ft / 15m	60ft / 18.3m
	65.6ft / 20m	40ft / 12.2m
14 AWG x 2	3.28ft / 1m	1521ft / 463.6m
	16.4ft / 5m	287ft / 87.5m
	32.8ft / 10m	140ft / 42.7m
	49.2ft / 15m	96ft / 29.3m
	65.6ft / 20m	70ft / 21.3m

Cable X Information	LED Strip	Max. Cable Length
Photon 1200		24V
20 AWG x 2	3.28ft / 1m	490ft / 149.35m
	9.84ft / 3m	150ft / 45.72m
	22.96ft / 7m	60ft / 18.29m
18 AWG x 2	3.28ft / 1m	780ft / 237.74m
	9.84ft / 3m	250ft / 76.2m
	22.96ft / 7m	100ft / 30.48m
16 AWG x 2	3.28ft / 1m	1240ft / 377.95m
	9.84ft / 3m	400ft / 121.92m
	22.96ft / 7m	170ft / 51.82m
14 AWG x 2	3.28ft / 1m	1900ft / 579.12m
	9.84ft / 3m	640ft / 195.07m
	22.96ft / 7m	270ft / 82.3m

Cable X Information	LED Strip	Max. Cable Length
Photon 2000		24V
20 AWG x 2	3.28ft / 1m	280ft / 85.35m
	9.84ft / 3m	95ft / 28.96m
	19.68ft / 6m	46ft / 14.02m
18 AWG x 2	3.28ft / 1m	450ft / 137.16m
	9.84ft / 3m	150ft / 45.72m
	19.68ft / 6m	75ft / 22.86m
16 AWG x 2	3.28ft / 1m	720ft / 219.46m
	9.84ft / 3m	240ft / 73.15m
	19.68ft / 6m	120ft / 36.58m
14 AWG x 2	3.28ft / 1m	1150ft / 350.52m
	9.84ft / 3m	380ft / 115.82m
	19.68ft / 6m	190ft / 57.91m

Cable X Information	LED Strip	Max. Cable Length
Photon 3000		24V
20 AWG x 2	3.28ft / 1m	180ft / 54.86m
	9.84ft / 3m	60ft / 18.29m
	16.4ft / 5m	35ft / 10.67m
18 AWG x 2	3.28ft / 1m	290ft / 88.39m
	9.84ft / 3m	100ft / 30.48m
	16.4ft / 5m	60ft / 18.29m
16 AWG x 2	3.28ft / 1m	470ft / 143.26m
	9.84ft / 3m	150ft / 45.72m
	16.4ft / 5m	90ft / 27.43m
14 AWG x 2	3.28ft / 1m	750ft / 228.6m
	9.84ft / 3m	250ft / 76.2m
	16.4ft / 5m	150ft / 45.72m

Cable X Information	LED Strip	Max. Cable Length
Photon 4000		24V
20 AWG x 2	3.28ft / 1m	140ft / 42.67m
	9.84ft / 3m	45ft / 13.72m
	16.4ft / 5m	25ft / 7.62m
18 AWG x 2	3.28ft / 1m	220ft / 67.06m
	9.84ft / 3m	75ft / 22.86m
	16.4ft / 5m	40ft / 12.19m
16 AWG x 2	3.28ft / 1m	360ft / 109.73m
	9.84ft / 3m	120ft / 36.58m
	16.4ft / 5m	70ft / 21.34m
14 AWG x 2	3.28ft / 1m	575ft / 175.26m
	9.84ft / 3m	190ft / 57.91m
	16.4ft / 5m	110ft / 33.53m

Specifications may be modified or improved without notification.

OrgaRail® - Illuminated Handrail

SQUARE

POWER SUPPLIES, ENCLOSURES & CONTROLLERS

PART NUMBER & SPECIFICATIONS

*Forward Phase, Reverse Phase, & 0-10V Dimming Drivers. Remote enclosures available.

Part #	Ingress	Voltage	Wattage	Dimensions (inches)	Description
POWER SUPPLIES - 24V					
045001	IP67	100-305V	20W	7.6 x 1.18 x 0.79 / 193 x 30 x 20	Dimmable LED Driver
045002	IP67	100-305V	40W	5.83 x 1.57 x 0.87 / 148 x 40 x 22	Dimmable LED Driver
045003	IP67	120-277V	60W	6.3 x 2.24 x 1.5 / 160 x 57 x 38	Dimmable LED Driver
045004	IP67	120-277V	75W	6.3 x 2.24 x 1.5 / 160 x 57 x 38	Dimmable LED Driver
045005	IP67	120-277V	96W	7.6 x 2.24 x 1.5 / 193 x 57 x 38	Dimmable LED Driver
045006	IP67	120-277V	200W	10.1 x 3.03 x 1.8 / 257 x 77 x 46	Dimmable LED Driver
045007	IP67	120-277V	300W	11.9 x 3.03 x 1.8 / 302 x 77 x 46	Dimmable LED Driver
012021-ID		120-277V	96W	5.4 x 1.03 x 0.78 / 137 x 26 x 20	Integral LED Driver (Non-Dimming)

Part #	Ingress	Dimensions (inches)	Description
ENCLOSURES			
045008	IP67	9.4 x 2.6 x 1.9 / 239 x 66 x 48	20W Enclosure
045009	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	40W Enclosure
045010	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	60W Enclosure
045011	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	75W Enclosure
045012	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	96W Enclosure
045013	IP67	16.7 x 9.8 x 2.3 / 424 x 249 x 58	200W Enclosure
045014	IP67	16.7 x 9.8 x 2.3 / 424 x 249 x 58	300W Enclosure

Part #	Description
CONTROLLERS	
011344	180W Digital Controller
011345	720W Digital Controller
011341	Digital Controller & Power Supply Combination
011410	Nicolaude DE3 DMX 512 Controller
011403	Nicolaude DINA-DR1 DMX 512 Controller
011396	Switchex 40W Wall Mount Dimmable Power Supply
011397	Switchex 100W Wall Mount Dimmable Power Supply

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Date



20W Dimmable Driver



75W Dimmable Driver



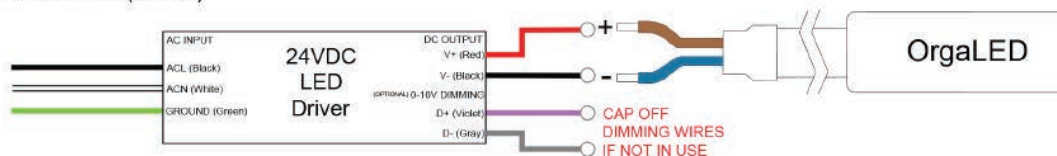
Digital Controller (180W, 720W)



Nicolaude DE3 DMX 512 Controller

ELECTRICAL DETAILS

*Regular Connection (Mono)



Specifications may be modified or improved without notification.