



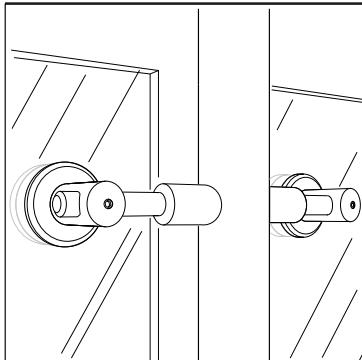
Efficient-Tec International, LLC
Stainless Steel Systems 

DATE:

CUSTOMER:

PROJECT:

Page 1 of 3



SANIA

Glass Inline Retainer Design



ILLUMINATED RAILING OPTIONS

DESIGN LINE NAME	1 MATERIAL & FINISH	2 RAIL SIZE	3 MOUNTING STYLE	4 INFILL OPTIONS	5 LIGHT DISTRIBUTION	6 LED OUTPUT	7 LENS STYLE	8 ILLUMINATION COLOR	9 DRIVER TYPE	10 LENGTH IN FEET
SANIA ILLUMINATED										

1	MATERIAL & FINISH
SS	316 Stainless Steel w/#6 (320 grit) Satin Finish
SP	316 Stainless Steel w/#8 High Polish Finish
ALPC	6063 Aluminum w/Powder Coat Finish (RAL Required)

2	RAIL SIZE
1	1.67" O.D. Stainless Steel 1-1/4" Pipe
2	1.90" O.D. Stainless Steel 1-1/2" Pipe
3	1.50" Square Stainless Steel
4	1.66" O.D. Aluminum 1-1/4" Pipe
5	1.90" O.D. Aluminum 1-1/2" Pipe

3	MOUNTING STYLE
EM	Embed Mount
FL	Flange Mount
FM	Fascia Mount

4	INFILL OPTIONS
GL2	Sania Inline Button Retainer 3/8" Tempered Glass
GLL2	Sania Inline Button Retainer 1/2" Tempered Glass

5	LIGHT DISTRIBUTION
SY	Symmetric
AS	Asymmetric

6	* LED OUTPUT
1	Low Output (1.34W / 173lm per ft.)
2	Medium Output (2.77W / 334lm per ft.)
3	High Output (3.87W / 443lm per ft.)
4	Dot System (1.5W)
* See page 3 for specifications based upon medium / high output & Dot System	

7	LENS STYLE
1	Clear w/ prismatic diffusers
2	Opal White w/ diffusers
3	Clear w/ no diffusion (asymmetric)
4	Dot System - Clear

8	** ILLUMINATION COLOR
1L	Linear Warm White 2700K CCT
2L	Linear Warm White 3000K CCT
3L	Linear White 4000K CCT
4L	Amber
5L	RGBW
DOT SYSTEM	
1D	Dot System Warm White 2700K CCT
2D	Dot System Warm White 3000K CCT
3D	Dot System White 4000K CCT
**See page 3 for specifications based upon Color Temperature (CCT)	

9	DRIVER
1	Remote
2	Integral

10	LENGTH IN FEET
ENTER LENGTH IN FEET	

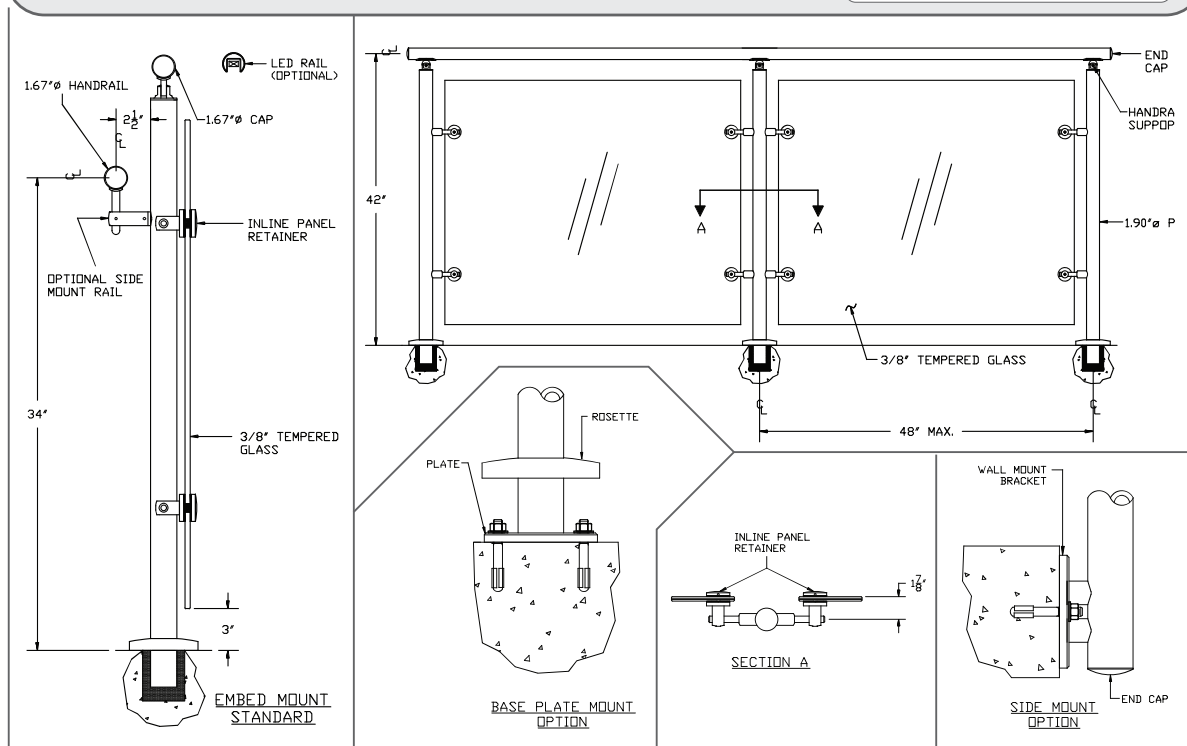
(Non-Illuminated options & form on next page)

NON-ILLUMINATED RAILING OPTIONS

DESIGN LINE NAME	1 MATERIAL & FINISH	2 RAIL SIZE	3 MOUNTING STYLE	4 INFILL OPTIONS	5 LENGTH IN FEET
SANIA NON-ILLUMINATED					

1 MATERIAL & FINISH		2 RAIL SIZE		3 MOUNTING STYLE	
SS	316 Stainless Steel w/#6 (320 grit) Satin Finish	1	1.67" O.D. Stainless Steel 1-1/4" Pipe	EM	Embed Mount
SP	316 Stainless Steel w/#8 High Polish Finish	2	1.90" O.D. Stainless Steel 1-1/2" Pipe	FL	Flange Mount
ALPC	6063 Aluminum w/Powder Coat Finish (RAL Required)	3	1.50" Square Stainless Steel	FM	Fascia Mount
		4	1.66" O.D. Aluminum 1-1/4" Pipe	4 INFILL OPTIONS GL2 Sania Inline Button Retainer 3/8" Tempered Glass GLL2 Sania Inline Button Retainer 1/2" Tempered Glass	
		5	1.90" O.D. Aluminum 1-1/2" Pipe		
				5 LENGTH IN FEET ENTER LENGTH IN FEET	

(Illuminated options & form on previous page)



LED OUTPUT

Handrail Linearflex®

The diagram illustrates the beam spread of the Handrail Linearflex LED fixture. It shows three distinct beam angles originating from a central point: 60°, 120°, and 90°. The 60° beam is highlighted in red, the 120° beam in yellow, and the 90° beam in blue. The diagram also indicates the corresponding lux levels for each beam angle: 25%, 33%, and 50%.

Beam Angle	Beam Color	Beam Width (ft)	Beam Height (ft)	Lux Level
60°	Red	1'	2'	25%
120°	Yellow	1'	3'	33%
90°	Blue	1'	4'	50%

							lumen/ft & lumen/W based upon color temp				
LOW LED OUTPUT		LED BUILT IN		80 CRI	L.O. 1.34W/ft	2700K CCT	lm/ft 173	lm/W 130	IP 67		
		LED BUILT IN		80 CRI	L.O. 1.34W/ft	3000K CCT	lm/ft 173	lm/W 132	IP 67		
		LED BUILT IN		80 CRI	L.O. 1.34W/ft	4000K CCT	lm/ft 173	lm/W 142	IP 67		
MEDIUM LED OUTPUT		LED BUILT IN		80 CRI	M.O. 2.77W/ft	2700K CCT	lm/ft 334	lm/W 124	IP 67		
		LED BUILT IN		80 CRI	M.O. 2.77W/ft	3000K CCT	lm/ft 334	lm/W 129	IP 67		
		LED BUILT IN		80 CRI	M.O. 2.77W/ft	4000K CCT	lm/ft 334	lm/W 136	IP 67		
HIGH LED OUTPUT		LED BUILT IN		80 CRI	H.O. 3.87W/ft	2700K CCT	lm/ft 443	lm/W 115	IP 67		
		LED BUILT IN		80 CRI	H.O. 3.87W/ft	3000K CCT	lm/ft 443	lm/W 119	IP 67		
		LED BUILT IN		80 CRI	H.O. 3.87W/ft	4000K CCT	lm/ft 443	lm/W 126	IP 67		

Handrail Dot®



IP66

IK10

on/off

0-10V

316 SS Housing

PC Lens

Ta min -20°C -4°F

Ta max +50°C +122°F

Power	1.5 W (500mA)			
Color temperatures	2700K	3000K	4000K	5000K
Lumens output	60° - 114 lm 120° - 120 lm 90°(asymmetric) - 108 lm	60° - 120 lm 120° - 126 lm 90°(asymmetric) - 114 lm	60° - 136 lm 120° - 143 lm 90°(asymmetric) - 129 lm	60° - 136 lm 120° - 143 lm 90°(asymmetric) - 129 lm
Luminaire efficiency	72 to 80 lm/W	76 to 84 lm/W	86 to 96 lm/W	86 to 96 lm/W
Measures / Weight	.58 in x .59 in / .22 lb			

Handrail Dot®

60°

3000K

Distance

Beam

Diameter

1.64 ft

3.28 ft

4.92 ft

6.56 ft

8.20 ft

1.08 ft

2.20 ft

3.28 ft

4.40 ft

5.48 ft

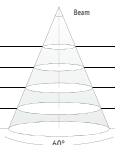
540 lux

135 lux

60 lux

34 lux

22 lux



60°

90°

75°

60°

45°

30°

15°

0°

15°

Handrail Dot® Asym.

90°

5000K

Distance

Beam

Diameter

0.5 m

1 m

1.5 m

2 m

2.5 m

2.13 x 2.48 ft

4.27 x 4.82 ft

6.36 x 7.22 ft

8.50 x 9.65 ft

10.63 x 12.04 ft

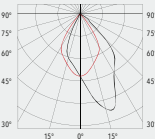
398 lux

100 lux

44 lux

25 lux

16 lux



30x70°

90°

75°

60°

45°

30°

15°

0°

15°

Handrail Dot®

120°

3000K

Distance

Beam

Diameter

0.5 m

1 m

1.5 m

2 m

2.5 m

3.90 ft

7.81 ft

11.71 ft

15.62 ft

19.52 ft

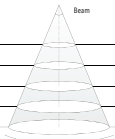
227 lux

57 lux

25 lux

14 lux

9 lux



120°

90°

75°

60°

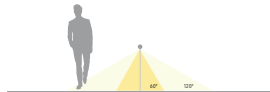
45°

30°

15°

0°

15°



Symmetric



Asymmetric