



Efficient-Tec International, LLC
Stainless Steel Systems s3

DATE:

CUSTOMER:

PROJECT:

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HELIA

Inline Through-Post Cable 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
HELIA 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
CB1	Inline Stainless Steel Cable Ø3/16" 1x19

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

10	LENGTH IN FEET
ENTER LENGTH IN FEET	

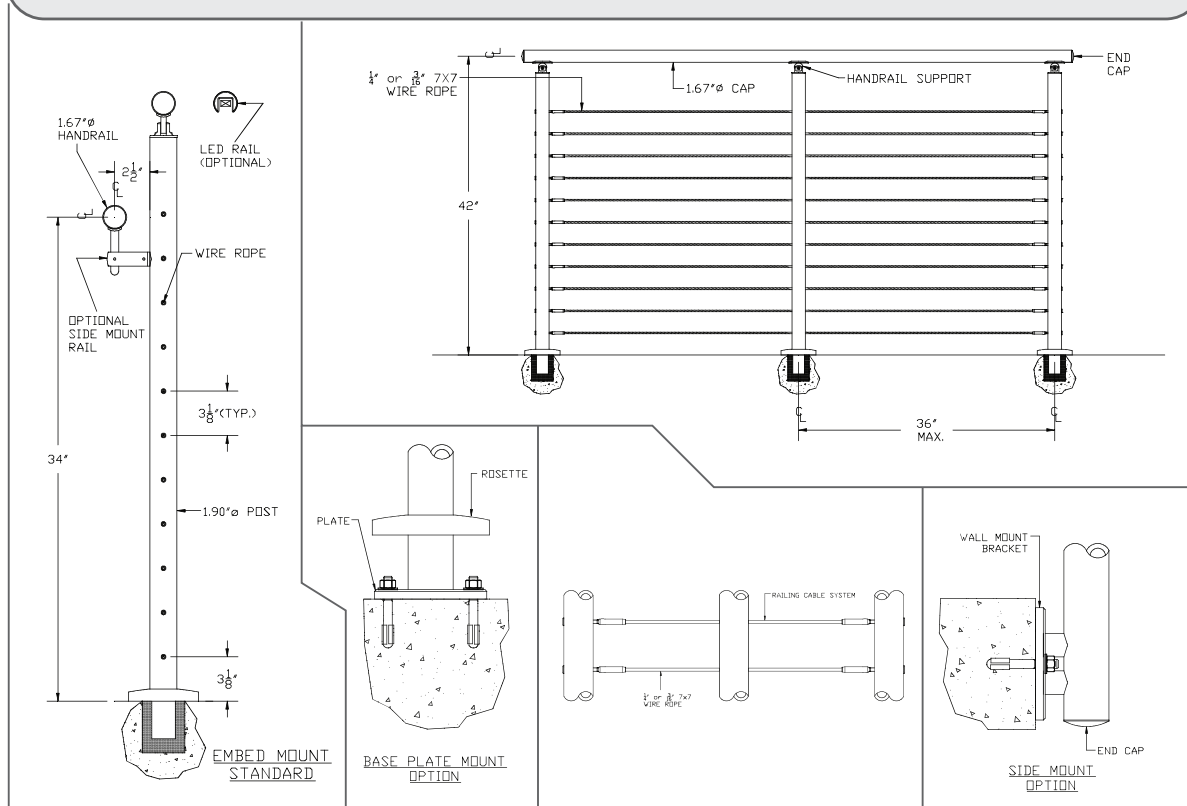
(Non-Illuminated options & form on next page)

NON-ILLUMINATED RAILING OPTIONS

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

1	MATERIAL & FINISH	2	RAIL SIZE	3	MOUNTING STYLE	4	INFILL OPTIONS	5	LENGTH IN FEET
SS	316 Stainless Steel w/#6 (320 grit) Satin Finish	1	1.67" O.D. Stainless Steel 1-1/4" Pipe	EM	Embed Mount	CB1	Inline Stainless Steel Cable Ø3/16" 1x19	5	ENTER LENGTH IN FEET
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						
		5	1.90" O.D. Aluminum 1-1/2" Pipe						

(Illuminated options & form on previous page)



LED OUTPUT

Handrail Linearflex®

The diagram illustrates the beam spread of the Handrail Linearflex light fixture. It shows three asymmetric beam angles originating from a central point: 60° (yellow), 120° (orange), and 90° (blue). The beam spread is measured in feet (ft) at different distances from the fixture. The 60° beam spread is 1' at 2' distance and 2' at 4' distance. The 120° beam spread is 1' at 1' distance and 2' at 2' distance. The 90° beam spread is 1' at 1' distance and 2' at 2' distance. The lux levels are indicated by percentages: 25%, 33%, and 50%.

Beam Angle	Distance (ft)	Beam Spread (ft)	Lux Level (%)
60°	2'	1'	25%
	4'	2'	50%
120°	1'	1'	25%
	2'	2'	50%
90°	1'	1'	25%
	2'	2'	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

Diagram showing the beam spread of the Handrail Dot® fixture at 60°. The beam diameter is 1.08 ft at 1.64 ft distance, 2.20 ft at 3.28 ft, 3.28 ft at 4.92 ft, 4.40 ft at 6.56 ft, and 5.48 ft at 8.20 ft.

Distance	Beam Diameter
1.64 ft	1.08 ft
3.28 ft	2.20 ft
4.92 ft	3.28 ft
6.56 ft	4.40 ft
8.20 ft	5.48 ft

Diagram showing the beam spread of the Handrail Dot® fixture at 3000K and 60°. The beam diameter is 1.08 ft at 1.64 ft distance, 2.20 ft at 3.28 ft, 3.28 ft at 4.92 ft, 4.40 ft at 6.56 ft, and 5.48 ft at 8.20 ft.

Distance	Beam Diameter	Lux
1.64 ft	1.08 ft	540 lux
3.28 ft	2.20 ft	135 lux
4.92 ft	3.28 ft	60 lux
6.56 ft	4.40 ft	34 lux
8.20 ft	5.48 ft	22 lux

Handrail Dot® Asym.

90°

5000K

Diagram showing the beam spread of the Handrail Dot® Asym fixture at 90°. The beam diameter is 2.13 x 2.48 ft at 0.5 m distance, 4.27 x 4.82 ft at 1 m, 6.36 x 7.22 ft at 1.5 m, 8.50 x 9.65 ft at 2 m, and 10.63 x 12.04 ft at 2.5 m.

Distance	Beam Diameter
0.5 m	2.13 x 2.48 ft
1 m	4.27 x 4.82 ft
1.5 m	6.36 x 7.22 ft
2 m	8.50 x 9.65 ft
2.5 m	10.63 x 12.04 ft

Diagram showing the beam spread of the Handrail Dot® Asym fixture at 5000K and 90°. The beam diameter is 2.13 x 2.48 ft at 0.5 m distance, 4.27 x 4.82 ft at 1 m, 6.36 x 7.22 ft at 1.5 m, 8.50 x 9.65 ft at 2 m, and 10.63 x 12.04 ft at 2.5 m.

Distance	Beam Diameter	Lux
0.5 m	2.13 x 2.48 ft	398 lux
1 m	4.27 x 4.82 ft	100 lux
1.5 m	6.36 x 7.22 ft	44 lux
2 m	8.50 x 9.65 ft	25 lux
2.5 m	10.63 x 12.04 ft	16 lux

Handrail Dot®

120°

3000K

Diagram showing the beam spread of the Handrail Dot® fixture at 120°. The beam diameter is 3.90 ft at 0.5 m distance, 7.81 ft at 1 m, 11.71 ft at 1.5 m, 15.62 ft at 2 m, and 19.52 ft at 2.5 m.

Distance	Beam Diameter
0.5 m	3.90 ft
1 m	7.81 ft
1.5 m	11.71 ft
2 m	15.62 ft
2.5 m	19.52 ft

Diagram showing the beam spread of the Handrail Dot® fixture at 3000K and 120°. The beam diameter is 3.90 ft at 0.5 m distance, 7.81 ft at 1 m, 11.71 ft at 1.5 m, 15.62 ft at 2 m, and 19.52 ft at 2.5 m.

Distance	Beam Diameter	Lux
0.5 m	3.90 ft	227 lux
1 m	7.81 ft	57 lux
1.5 m	11.71 ft	25 lux
2 m	15.62 ft	14 lux
2.5 m	19.52 ft	9 lux

Symmetric

Asymmetric