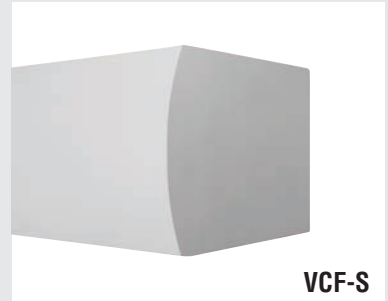
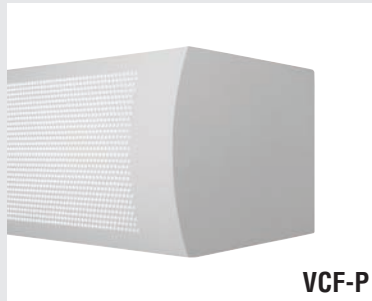
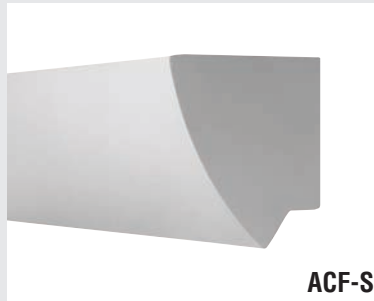
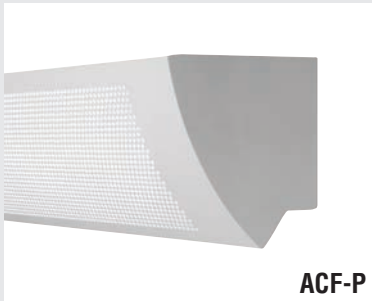


Project _____

Firm Name _____

Date _____ Type _____

Series 17 ADA wallmount luminaires provide efficient and beautiful lighting in corridors, aisles, and other similar transition spaces.



This application guide provides performance data for the Series 17 in a wide range of typical corridor configurations in both continuous row and staggered row designs. With these typical layouts, designs for any project may be easily selected, then fine-tuned for the project's specific conditions.

Typical Layouts:

Corridor Configurations:

Width: 12' and 8'
 Ceiling height: 8', 9' and 10'
 Mounting height:
 6' AFF for 8' & 9' ceilings
 8' AFF for 10' ceiling

Luminaire Configurations:

Shape: ACF & VCF
 Fascia: Perforated
 Lamping: 1 T8
 Lens: Open

Calculation Assumptions:

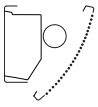
Lamp type: 3100 lumen T8 lamp
 Ballast type: 0.88 BF instant start
 Reflectances: 80% ceiling; 50% walls; 20% floor
 LLF: 0.90 dirt depreciation; 0.95 lamp lumen depreciation; 0.88 BF: 0.75 Total LLF

Recommended targets based on corridor type:

	ASHRAE 90.1 2004 LPD Target	IESNA Illuminance Category	Target Illuminance at the Floor
General corridor	0.5 w/ft ²	B	5 fc
Hospital corridor	1.0 w/ft ²	C Day	10 fc
		B Night	5 fc

To achieve certain targets based on the type of corridor, illuminance levels, and lighting power densities, T8 designs may be adjusted by varying the ballast type and selecting either a low BF or high BF ballast. T5 and T5HO lamping may also be considered as well as varying the luminaire spacing in a staggered or same side layout approach.

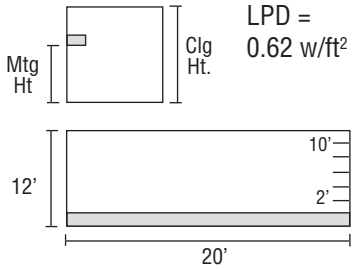
This application guide will approximate results for many typical situations. If actual conditions are different from those shown, then application-specific calculations may be necessary.



SERIES 17 ACF PERFORATED: S17-ACF-P-1T8

Continuous Row

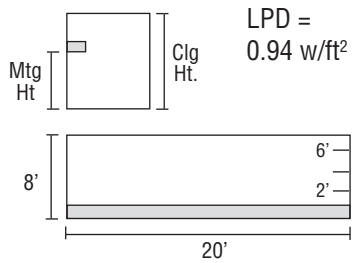
12' Wide Corridor



Ceiling Height	Mtg Height	Distance from Wall Illuminance in FC					Average Illuminance in FC		
		2'	4'	6'	8'	10'	Horiz Floor	Vert Wall South	Vert Wall North
8'	6'	17 fc	16 fc	14 fc	11 fc	9 fc	13 fc	16 fc	9 fc
9'	6'	15 fc	15 fc	13 fc	11 fc	9 fc	13 fc	16 fc	9 fc
10'	8'	13 fc	13 fc	12 fc	11 fc	9 fc	12 fc	13 fc	9 fc

Continuous Row

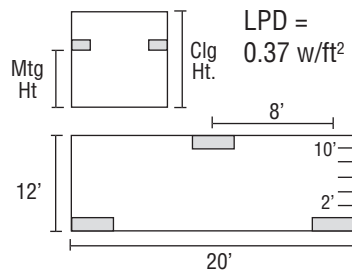
8' Wide Corridor



Ceiling Height	Mtg Height	Distance from Wall Illuminance in FC					Average Illuminance in FC		
		2'	4'	6'			Horiz Floor	Vert Wall South	Vert Wall North
8'	6'	19 fc	18 fc	15 fc			17 fc	18 fc	15 fc
9'	6'	17 fc	17 fc	15 fc			16 fc	17 fc	15 fc
10'	8'	15 fc	15 fc	14 fc			14 fc	15 fc	14 fc

Staggered Row

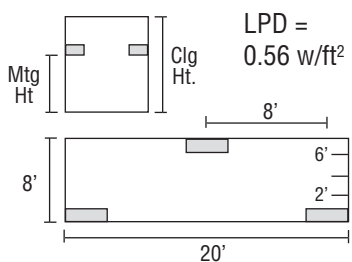
12' Wide Corridor



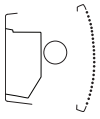
Ceiling Height	Mtg Height	Distance from Wall Illuminance in FC					Average Illuminance in FC		
		2'	4'	6'	8'	10'	Horiz Floor	Vert Wall South	Vert Wall North
8'	6'	8 fc	8 fc	8 fc	8 fc	7 fc	8 fc	8 fc	7 fc
9'	6'	8 fc	8 fc	8 fc	7 fc	7 fc	7 fc	8 fc	7 fc
10'	8'	7 fc	7 fc	7 fc	7 fc	6 fc	7 fc	7 fc	6 fc

Staggered Row

8' Wide Corridor



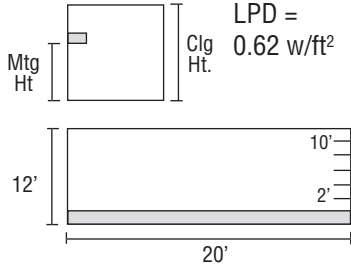
Ceiling Height	Mtg Height	Distance from Wall Illuminance in FC					Average Illuminance in FC		
		2'	4'	6'			Horiz Floor	Vert Wall South	Vert Wall North
8'	6'	10 fc	10 fc	10 fc			10 fc	10 fc	9 fc
9'	6'	9 fc	10 fc	9 fc			9 fc	10 fc	9 fc
10'	8'	8 fc	8 fc	8 fc			8 fc	9 fc	8 fc



SERIES 17 VCF PERFORATED: S17-VCF-P-1T8

Continuous Row

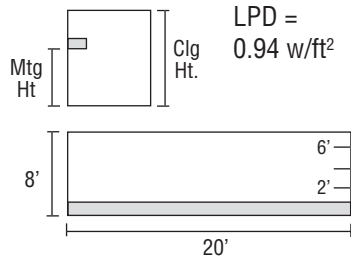
12' Wide Corridor



Ceiling Height	Mtg Height	Distance from Wall Illuminance in FC					Average Illuminance in FC		
		2'	4'	6'	8'	10'	Horiz Floor	Vert Wall South	Vert Wall North
8'	6'	27 fc	17 fc	11 fc	9 fc	7 fc	14 fc	17 fc	8 fc
9'	6'	25 fc	16 fc	11 fc	9 fc	7 fc	14 fc	16 fc	8 fc
10'	8'	21 fc	16 fc	11 fc	9 fc	7 fc	13 fc	14 fc	8 fc

Continuous Row

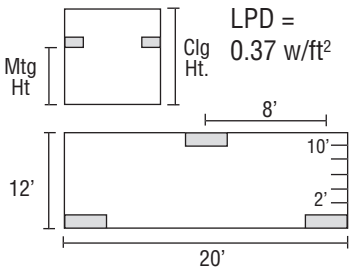
8' Wide Corridor



Ceiling Height	Mtg Height	Distance from Wall Illuminance in FC					Average Illuminance in FC		
		2'	4'	6'			Horiz Floor	Vert Wall South	Vert Wall North
8'	6'	28 fc	18 fc	13 fc			19 fc	19 fc	13 fc
9'	6'	26 fc	17 fc	12 fc			19 fc	17 fc	12 fc
10'	8'	22 fc	17 fc	12 fc			17 fc	15 fc	12 fc

Staggered Row

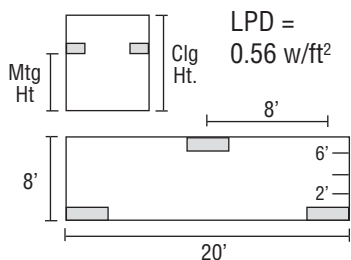
12' Wide Corridor



Ceiling Height	Mtg Height	Distance from Wall Illuminance in FC					Average Illuminance in FC		
		2'	4'	6'	8'	10'	Horiz Floor	Vert Wall South	Vert Wall North
8'	6'	11 fc	8 fc	7 fc	7 fc	8 fc	8 fc	8 fc	6 fc
9'	6'	10 fc	8 fc	7 fc	7 fc	8 fc	8 fc	8 fc	6 fc
10'	8'	9 fc	8 fc	7 fc	7 fc	7 fc	7 fc	7 fc	6 fc

Staggered Row

8' Wide Corridor

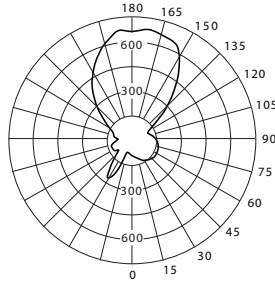


Ceiling Height	Mtg Height	Distance from Wall Illuminance in FC					Average Illuminance in FC		
		2'	4'	6'			Horiz Floor	Vert Wall South	Vert Wall North
8'	6'	13 fc	11 fc	11 fc			11 fc	10 fc	8 fc
9'	6'	12 fc	10 fc	10 fc			11 fc	9 fc	8 fc
10'	8'	11 fc	10 fc	10 fc			10 fc	9 fc	8 fc

OPTICAL PERFORMANCE

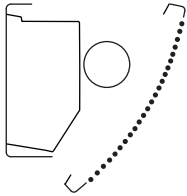
S17-ACF -P -1T8-OPEN-96W

Distribution: 72% Up / 28% Down
 Efficiency: 75.5%
 Peak Candela Value: 666@ 165°
 LSI Report 24221



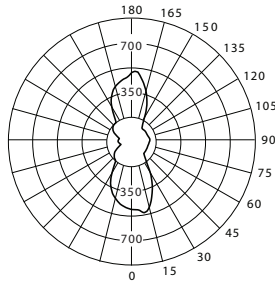
CANDLEPOWER SUMMARY						
	0.0	22.5	45	67.5	90	Flux
0	92	92	92	92	92	
5	92	99	97	94	99	5
15	88	114	106	96	115	15
25	79	132	113	94	138	26
35	67	151	123	89	162	37
45	54	165	129	80	178	47
55	40	173	129	72	188	55
65	28	173	124	60	189	58
75	16	164	113	46	183	56
85	3	147	96	31	167	49
90	0	136	86	24	156	
95	18	123	75	19	142	41
105	107	101	73	89	116	51
115	213	137	153	224	141	86
125	320	240	285	372	229	131
135	418	385	442	465	367	162
145	503	544	579	542	527	169
155	572	640	624	603	648	142
165	619	664	658	634	666	92
175	644	656	653	647	658	32
180	651	651	651	651	651	

ZONE	LUMENS	%LAMP	%LUMINAIRE
0-30	101	3.27	4.33
0-40	191	6.19	8.20
0-60	389	12.56	16.63
0-90	661	21.32	28.23
40-90	469	15.13	20.03
60-90	271	8.76	11.60
90-180	1680	54.21	71.77
0-180	2341	75.53	100.00



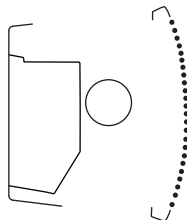
S17 -VCF-P-1T8-OPEN-96W

Distribution: 49% Up / 51% Down
 Efficiency: 71.6%
 Peak Candela Value: 483@ 175°
 LSI Report 23967



CANDLEPOWER SUMMARY						
	0.0	22.5	45	67.5	90	Flux
0	471	471	471	471	471	
5	471	467	468	469	474	23
15	454	449	462	452	470	64
25	419	355	392	428	337	89
35	369	228	295	362	186	91
45	307	143	173	278	119	78
55	235	127	113	180	116	66
65	155	107	95	80	116	52
75	74	87	67	51	115	40
85	4	93	62	20	120	33
90	0	98	66	22	123	
95	1	99	67	24	126	35
105	67	99	78	52	122	43
115	149	118	101	65	117	52
125	231	133	113	138	117	62
135	306	137	139	237	115	70
145	371	182	240	320	127	77
155	422	302	342	387	237	78
165	458	398	415	446	374	59
175	476	466	468	471	483	22
180	478	478	478	478	478	

ZONE	LUMENS	%LAMP	%LUMINAIRE
0-30	349	12.05	16.83
0-40	531	18.34	25.62
0-60	825	28.46	39.75
0-90	1071	36.93	51.59
40-90	539	18.59	25.97
60-90	245	8.48	11.84
90-180	1004	34.65	48.41
0-180	2075	71.58	100.00



EXAMPLE: Series 17-VCF-P-1T8

To adjust the results for other possible luminaire configurations, use the following multipliers:

		Multiplier
Fascia:	Solid	0.90
Lamping:	1 T5	1.06
	1 T5HO	1.85
Lens Up & Down:		0.71

Step 1: Select layout

For this example:
 - Continuous Rows
 - 12' Wide Corridor
 - 9' Ceiling Height
 - 6' AFF Mounting Height

Step 2: Refer to appropriate table

For this example:
 - Use first table, inside top right

Step 3: Find average horizontal illuminance at floor

From the table:
 - 14 fc based on given layout

Step 4: To adjust for other lamping, fascia, or lens options, calculate results using appropriate multipliers

For this example:
 - 1 T5HO / 1.0 BF lamping and solid fascia

Average horizontal illuminance at floor

$$14 \text{ fc} \times 1.85 \times 0.90 = 23 \text{ fc}$$

from lamping fascia
table multiplier multiplier

Refer to www.finelite.com for more information, or contact your local representative of Finelite directly for additional design assistance.