KIRLIN
Lighting Since 1895

1' x 4'   2   T8   32 WATT MAXIMUM

VST-12033

Maximum Security
Super Efficient Surface 1'x4'
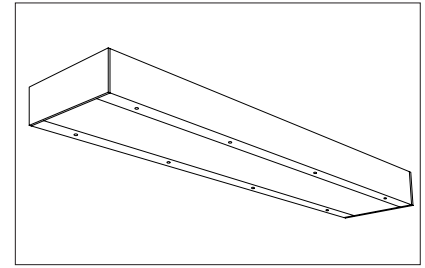
Specifications

Lamp
- Designed for two bi-pin fluorescent lamps: 32 watt bi-pin T8.

Ballast
- Installed electronic high power factor, thermally protected. RFI filter.
- 120 volt or see Options.
- Single circuit wiring or see Option -84.
- Internally fused. Also see Options -FS, -FD.
- Dimming optional. See Option -39.

Reflector
- Full size die formed specular Alzak® aluminum.
- Removable for servicing.

Trim / Lens Assembly
- Prismatic 3/16" high strength acrylic above 1/4" clear polycarbonate.
- Continuous extruded 6063-T6 tempered aluminum, non-removable lens clamps; eight flush mounted center pin tamperproof screws with captive nuts.
- Tamperproof tool included.

Aluminum Housing
- Super strong 6063-T6 extruded and tempered.
- White polyester enamel finish.
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.
- Entire luminaire serviced through aperture.

Installation
- Secure with 3/8" lag or molly bolts to ceiling support structure. 7/8" diameter access hole with four 1/2" diameter mounting holes.
- Installs indoor or outdoor in covered locations.

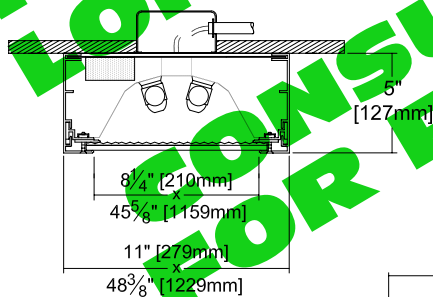**UL, C-UL (Canada) Listings**
- Wet, damp or dry locations, covered ceilings.

Three Year Limited Warranty
- Complete standard fixture and ballast.

Exceptional Energy Efficiency

Performance at a Glance

VST-12033

5" [127mm]

8¼" [210mm]
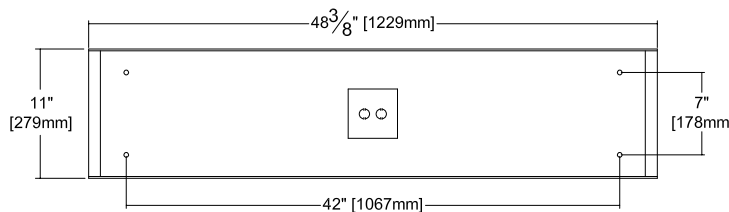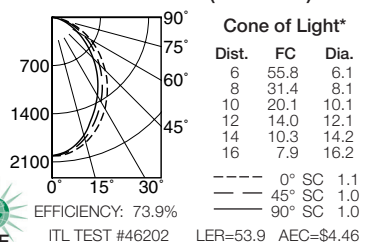45⅝" [1159mm]

11" [279mm]
48⅜" [1229mm]

Cone of Light Key
- **Ft.** Distance from fixture
- **FC** Footcandles at nadir (0°)
- **Dia.** Circle of light at 50% of FC

* Dia. (in ft.) shown is where FC value is half the FC at nadir.

VST-12033 (2 T8 32W)

Cone of Light*

Dist.	FC	Dia.
6	55.8	6.1
8	31.4	8.1
10	20.1	10.1
12	14.0	12.1
14	10.3	14.2
16	7.9	16.2

	SC
0°	1.1
45°	1.0
90°	1.0

EFFICIENCY: 73.9%
ITL TEST #46202   LER=53.9   AEC=$4.46

EEE

48⅜" [1229mm]

11" [279mm]

7" [178mm]

42" [1067mm]

THE KIRLIN COMPANY

ENERGY EFFICIENT VANDAL RESISTANT
& MAXIMUM SECURITY LIGHTING

MAXIMUM WATTAGE	CATALOG NUMBER
2 T8 32	**VST-12033**

Detailed Photometry - Installed Fixture

Photometry from I.T.L., Boulder, CO

VST-12033   (2 T8 32W)

			90°
			75°
700			60°
1400			45°
2100			

0°   15°   30°

- – – – 0° SC 1.1
- — — 45° SC 1.0
- ——— 90° SC 1.0
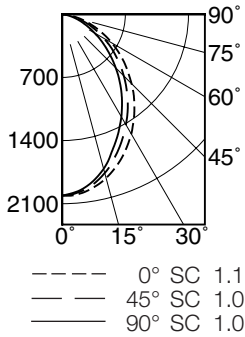
EFFICIENCY : 73.9%

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	2780	2780	2780	2780	2780
5	2775	2790	2775	2751	2751
15	2625	2652	2633	2578	2546
25	2341	2380	2329	2235	2183
35	1963	1998	1935	1833	1758
45	1576	1604	1537	1415	1340
55	1190	1222	1139	1013	938
65	788	808	741	635	575
75	378	410	347	300	252
85	79	95	71	63	47
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
RC	80				50		
RW	70	50	30	10	50	30	10
1	57	55	52	51	51	50	48
2	52	48	45	42	45	43	40
3	48	42	38	35	40	37	34
4	44	38	33	30	36	32	29
5	40	34	29	26	32	29	26
6	37	31	26	23	29	25	23
7	35	28	24	20	27	23	20
8	32	26	21	18	25	21	18
9	30	24	19	17	23	19	16
10	28	22	18	15	21	17	15

ITL TEST #46202   *LER=53.9   •AEC=$4.46

* LER = Luminaire Efficiency Rating
LER = Luminaire x Total Lamp Lumens x Ballast Factor
        Input Watts

• AEC = Annual Energy Cost per 1000 lumens
(based on 3000 hours use @ $0.08 KWH).

Options

Ballast, Wattage and Voltage
- -39   Installed electronic dimming ballast. Indoor use. 10°C (50°F) minimum start. Specify wattage, voltage and brand.
- -58   277 volt 60 Hz. ballast instead.
- -84   Wired for two circuits. Also see -FD.
- -97   Specify other voltage. Consult factory.
- -98   347 volt, 50/60 Hz. input. Consult factory.

Emergency Ballast - Specify Voltage[1]
Internal (factory installed) ballast, test switch and indicator light. Suitable for damp locations from 0° to 50°C (32° to 122°F) or with Cold Weather version (see -CE) -20° to 55°C (-4° to 131°F).
- -73   Internal 1-lamp EM ballast. Specify voltage.
- -CE   Internal cold weather (-20° to 55°C) 1-lamp EM ballast. Specify voltage.

Housing
- -94   Custom color/finish. Specify. Consult factory.

Other
- -48   Nightlight socket and ballast for 13 watt electronic compact fluorescent lamp.
- -99   Special modification. Consult factory.
- -FD   Two aditional in-line fuses. One per ballast. Use with Option -84. Not available with Option -98(347V).
- -FS   Additional in-line fuse. Not available with Option -98(347V).

[1] Visit www.kirlinlighting.com for most current performance/specifications.

SUBMITTAL DATA

JOB NAME

TYPE

WATTAGE   VOLTAGE

CATALOG NUMBER

APPROVAL STAMP