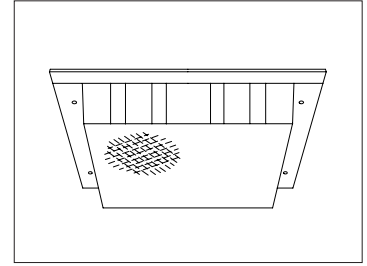


CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

1' x 1' 1 ED17 100 WATT MAXIMUM

VRS-12053

## Maximum Security Efficient Pulse Start Metal Halide Square



### Specifications

#### Lamp

- Designed for pulse start metal halide lamp: 100W medium base ED17.
- See Option -43 for lower wattages.

#### Socket

- Horizontal. Medium base. Pulse rated.
- Glazed porcelain. Silicone leads.

#### Reflector

- Kirlin exclusive GlasSurfaced™ faceted specular aluminum.

#### Trim / Lens Assembly

- Injection molded prismatic polycarbonate drop bisymmetric distribution lens. UV stabilized.
- Continuous extruded 6063-T6 tempered aluminum, non-removable lens clamps; four flush mounted center pin tamperproof screws with captive nuts.
- Tamperproof tool included.

#### Ballast Assembly: Specify Voltage

- Core and coil 180°C rated HPF pulse start ballast.

- Class H, high reactance for 120 volt and Options -65, -66; linear reactor for 277 volt.
- Capacitor and ignitor supplied.
- Cool, quiet, long-life. Silicone leads.
- Visible and easily serviced in all ceilings.

#### Fuse

- Fused primary. Renewable. Aids servicing.

#### Aluminum Housing

- Extra strong 6063-T6 tempered extruded aluminum. White polyester enamel finish.
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.
- Cool operation: Extends component life.

#### Outlet Box

- Prewired 14 GA (NEC) galvanized steel, UL listed. 1/2" and 3/4" knockouts.

#### Installation

- Two die-formed 7/8" vertically adjustable 16 gauge steel mounting yokes supplied.
- Recesses indoor or outdoor in covered locations.
- Concrete Pour version available. See -78.



**Exceptional  
Energy  
Efficiency**

#### UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings.
- Through-branch conductors (6 #12 AWG 90°C).

#### Three Year Limited Warranty

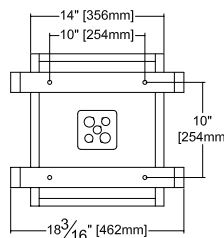
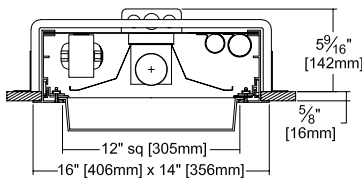
- Complete standard fixture and ballast.

#### Thermal Protection

- Per current NEC.

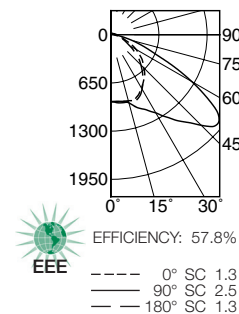
### Performance at a Glance

VRS-12053



Ceiling Cut-out 13" x 15 1/2"

VRS-12053 (Coated Lamp)



**BILATERAL  
SYMMETRY**



EFFICIENCY: 57.8%

--- 0° SC 1.3  
— 90° SC 2.5  
- · - 180° SC 1.3

ITL TEST #43980  
LER=34.1 AEC=\$7.05

## THE KIRLIN COMPANY

3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232  
(313) 259-6400 • Fax: (313) 259-9409 OR (313) 259-3121 • www.kirlinlighting.com

**ENERGY EFFICIENT VANDAL RESISTANT  
& MAXIMUM SECURITY LIGHTING**

MAXIMUM WATTAGE

ED17 100

CATALOG NUMBER

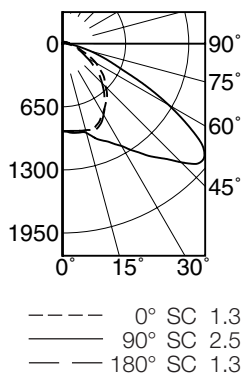
VRS-12053

DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

Detailed Photometry - Installed Fixture

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

VRS-12053 (ED17 100 Coated Lamp)



EFFICIENCY : 57.8%

CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	901	901	901	901	901
5	905	904	920	920	902
15	922	959	951	916	931
25	891	1032	1114	1001	919
35	770	1223	1367	1199	759
45	478	1198	1712	985	385
55	155	311	302	248	135
65	47	94	69	77	47
75	42	65	44	63	44
85	26	15	9	19	32
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
	80				50		
RC	70	50	30	10	50	30	10
RW	70	50	30	10	50	30	10
1	62	59	56	54	55	53	51
2	56	51	47	43	47	44	41
3	50	44	39	35	41	37	34
4	46	38	33	29	36	31	28
5	42	34	28	24	31	27	23
6	38	30	24	21	28	23	20
7	35	27	21	18	25	21	17
8	32	24	19	15	23	18	15
9	30	22	17	14	21	16	13
10	28	20	15	12	19	15	12

ITL TEST #43980 \*LER=34.1 •AEC=\$7.05

\* LER = Luminaire Efficiency Rating

LER =  $\frac{\text{Luminaire Effic.} \times \text{Total Lamp Lumens} \times \text{Ballast Factor}}{\text{Input Watts}}$

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

Options

Sources and Ballasts

-24 HPS ballast instead. 100W. Specify voltage.

Wattage and Voltage

-43 Lower wattage: 50-70 pulse, 35-70 HPS.

Specify voltage.

-120 120 volt, 60 Hz. ballast.

-277 277 volt, 60 Hz. ballast.

-347 347 volt, 60 Hz. ballast.

-97 Other voltage ballast instead. Consult factory.

Relays, Standbys, Lamps

-49 Extra circuit DCB socket. 100W max. Do not energize simultaneously with main source. Also see Option -LS.

-65 Electronic standby system and DCB socket.

100W max. Provides immediate light until HID restrikes. Also see Options -66 and -LS.

-66 Electronic time delay standby system and DCB socket. 100W max. Provides light until HID reaches 70% output. Also see -LS.

-LP With lamp. Specify source, wattage, color temperature, and clear or coated. (3700°K standard for metal halide)

-LS With T-4 DCB tungsten halogen standby lamp. 100W max. Use only with -49, -65, -66.

Lenses and Trims

-15 Tempered prismatic C#73 lens instead.

-32 White oversize trim extender. Specify size.

-45 Gasket between trim and ceiling.

-94 Custom color trim assembly. Consult factory.

Luminaire (Housing) Finishes

-35 Natural aluminum acrylic enamel.

-36 Gold acrylic enamel.

-37 Dark Bronze acrylic enamel.

-38 Black acrylic enamel.

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

Other

-78 Concrete pour box assembly for use in wet concrete. Following pour, fixture mounts within assembly.

-99 Special modification. Consult factory.

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME

TYPE

WATTAGE

VOLTAGE

CATALOG NUMBER

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALL TO N.E.C. IN NORMAL USE. Manufacturer at the option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the offices of manufacturer within three years of original shipment. Liability of manufacturer is limited to the foregoing, and manufacturer shall not be liable for any other damages, direct or indirect, sustained or suffered by purchaser or any person. This warranty is supplied to the buyer in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of the fixture, improper installation, or repair or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.