Utilibay™
LED Highbay

HUBBELL ® **HUBBELL** Industrial Lighting

CAT.#	APPROVALS
JOB JTVCC VAUGHN AUTOMOTIVE	TYPE A

SPECIFICATIONS

Applications -

The Hubbell Industrial UTB is a versatile LED highbay designed to light gyms, industrial, multi-purpose rooms in schools and churches and retail. Its simple, straightforward design is meant to provide high quality light economically. It is available in a 28,000 lumen version and a 18,000 lumen version. We also offer five different reflector options, all 16" in diameter at the bottom. We have a clear acrylic, translucent white, opalescent acrylic and suspended bead. We also offer a 16" spun aluminum reflector. The basic fixture is offered in 4000°K and 5000°K color temperatures. There are three lens options and several other mounting accessories including cord and plug options and bottom wire guards.

Construction -
- Housing: Die Cast Aluminum
- LEDs: 40 High efficiency LEDs / 24 High efficiency LEDs
- Installation: Pendant mount from ¾" threaded conduit or fixture hook
- Symmetrical for easy one-for-one replacement of existing highbays
- Weight: 15 lbs.

Performance -
- Lumens: 18000, 28000
- LPW (lumens/watt): up to 112 LPW

Shielding (Five Reflector Options) -
- Clear acrylic
- Translucent White
- Opalescent Acrylic
- Suspended Bead
- Anodized Aluminum

Electrical -
- Total input wattage of 255W/167W
- Replacement for 400W/250W HID Highbay
- Universal voltage of 120VAC - 277VAC
- 480VAC/347VAC

Warranty -
- Five years warranty (Terms and Conditions apply)

Certifications -
- All luminaires are built to UL1598 and 2108 standards, and bear appropriate CSA labels.
- CSA Certified to meet U.S. and Canadian standards. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

UTB UTILIBAY™

DLC   CSA US

ORDERING INFORMATION

ORDERING EXAMPLE: UTB-4K–WW16-HO-ND-GR-DLR-F(X)

UTB	-		-		-		-		-	GR	-		-		
Series		CCT		Optic		Output		Voltage		Dimming	Color		Lensing		Options

SERIES

UTB	LED Highbay

CCT

4K	4000K, 80 CRI
5K	5000K, 80 CRI

OPTIC

WA16	Clear Acrylic 16"
WW16	Translucent White 16"
OP16	Opalescent Acrylic 16"
SB16	Suspended Bead 16"
AL16	Anodized Aluminum 16"

OUTPUT

MO	Med Output (18,000 lumens)
HO	High Output (28,000 lumens)

VOLTAGE

U	Universal
1	120V
2	208V
3	240V
4	277V
5	480V
F	347V

DIMMING

ND	Non-Dimming
CD	Continuous Dimming

COLOR

GR	Grey

LENSING

N	None
CDL	Conical Drop Lens
DLR	Dropped Lens Refractor
P95	Frosted Acrylic Lens

OPTIONS

C(y)HLP(x)	Cord, Hook, Loop & Plug (15A)
F(x)	Fusing
SCO	Occupancy Sensor 100% to 0%

Notes: Replace [X] with the voltage, 1=120V, 2=208V. 3=240V and 4=277V.
⁴Replace (y) with the length. 4=4ft, 6=6ft, 8=8ft., 10=10ft., 12=12ft
Fusing not available on 347V or 480V

ACCESSORIES

WG-16	16" Wire Guard
UTB-TLR	Luminaire Retainer

ELECTRICAL DATA

OUTPUT VERSION	AMP DRAW						POWER FACTOR (@277V)	THD (@120V)	AMBIENT TEMP RANGE	DIMMING RANGE	L70 LUMEN MAINTENANCE	WARRANTY
	120V	208V	240V	277V	347V	480V						
High Output ("HO")	2.16	1.24	1.08	0.95	0.74	0.54	≥ 0.90	≤ 0.10	-40°C to 40°C	100% to 10%	Reported >36,000 hrs Calculated = 120,000	5 years
Medium Output ("MO")	1.40	0.81	0.71	0.63	0.48	0.36			-40°C to 50°C			

PHOTOMETRIC DATA: UTB-4K-WA16-HO-U-ND-GR-N

LUMINAIRE DATA

UTB-4K-WA16-HO-U-ND-GR-N

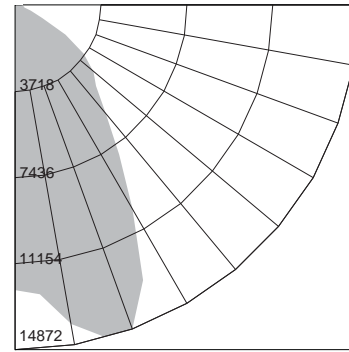Circular Up/Down Luminaire with Clear Acrylic
Prismatic Refractor

DRIVER	HLG-240H-48B
Lamp	LED
Lumens	27,094
Watts	253.5
Efficacy	107
Mounting	Pendant
Spacing Criterion (0-180)	1.20

ZONE	LUMENS	% FIXT.
0-30	11270	41.6
0-40	16262	60.0
0-60	25375	86.4
0-90	25729	95.0
90-120	805	3.0
90-130	979	3.6
90-150	1236	4.6
90-180	1365	5.0
0-180	27094	100.0

ISOMETRIC FOOT CANDLES

Distance In Units Of Mounting Height
Values Based On 20 Foot Mounting Height

POLAR GRAPH

3718
7436
11154
14872
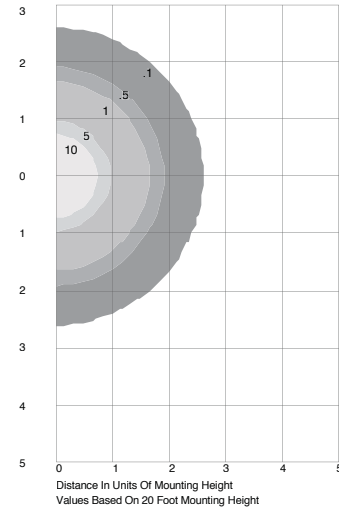
PHOTOMETRIC DATA: UTB-4K-WA16-HO-U-ND-GR-P95

LUMINAIRE DATA

UTB-4K-WA16-HO-U-ND-GR-P95

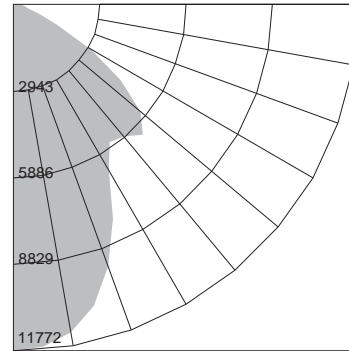Circular Up/Down Luminaire with Clear Acrylic
Prismatic Refractor

DRIVER	HLG-240H-48B
Lamp	LED
Lumens	25,349
Watts	253.5
Efficacy	100
Mounting	Pendant
Spacing Criterion (0-180)	0.96

ZONE	LUMENS	% FIXT.
0-30	7734	30.5
0-40	11470	45.2
0-60	20053	79.1
0-90	22921	90.4
90-120	1150	4.5
90-130	1552	6.1
90-150	2181	8.6
90-180	2428	9.6
0-180	25349	100.

ISOMETRIC FOOT CANDLES

Distance In Units Of Mounting Height
Values Based On 20 Foot Mounting Height

POLAR GRAPH

2943
5886
8829
11772
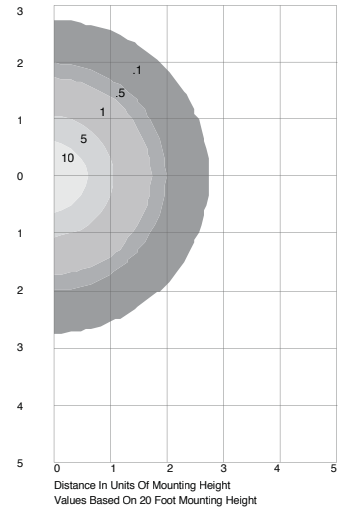
PHOTOMETRIC DATA: UTB-4K-OP16-HO-U-ND-GR-N

LUMINAIRE DATA

UTB-4K-OP16-HO-U-ND-GR-N

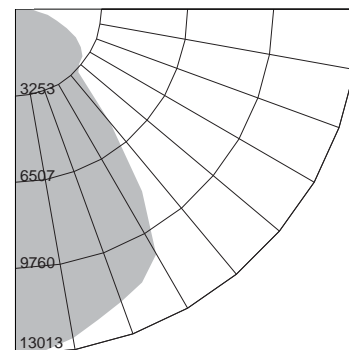Circular Up/Down Luminaire with Opalescent
Acrylic Refractor

DRIVER	HLG-240H-48B
Lamp	LED
Lumens	27,384
Watts	254.2
Efficacy	108
Mounting	Pendant
Spacing Criterion (0-180)	1.20

ZONE	LUMENS	% FIXT.
0-30	9858	36.0
0-40	14994	54.8
0-60	20709	75.6
0-90	25909	94.6
90-120	1024	3.7
90-130	1174	4.3
90-150	1372	5.0
90-180	1475	5.4
0-180	27384	100.0

ISOMETRIC FOOT CANDLES

Distance In Units Of Mounting Height
Values Based On 20 Foot Mounting Height

POLAR GRAPH

3253
6507
9760
13013
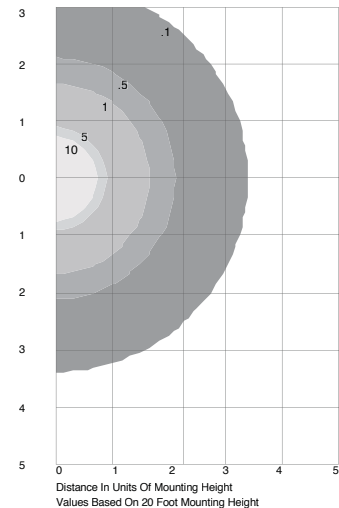
PHOTOMETRIC DATA: UTB-5K-WA16-HO-U-ND-GR-N

LUMINAIRE DATA

UTB-5K-WA16-HO-U-ND-GR-N
Circular Up/Down Luminaire with Clear Acrylic
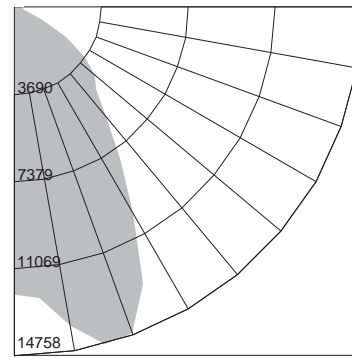Prismatic Refractor

DRIVER   HLG-240H-48B

Lamp	LED
Lumens	26,985
Watts	252.6
Efficacy	107
Mounting	Pendant
Spacing Criterion (0-180)	1.20

ZONE	LUMENS	% FIXT.
0-30	11141	41.3
0-40	16116	59.7
0-60	23259	86.2
0-90	25619	94.9
90-120	808	3.0
90-130	982	3.6
90-150	1237	4.6
90-180	1365	5.1
0-180	26985	100.0

ISOMETRIC FOOT CANDLES

Distance In Units Of Mounting Height
Values Based On 20 Foot Mounting Height

POLAR GRAPH

DIMENSIONS

16 in

9.5 in

9 in

For more information visit our web site: http://www.hubbellindustrialcom/
Phone: 1-864-678-1000

HUBBELL
Industrial Lighting

HIL_0168_UTB_S A 5/16

Columbia LIGHTING

LJT22
2' × 2', LED Troffer

LED

createchange ......

PROJECT INFORMATION

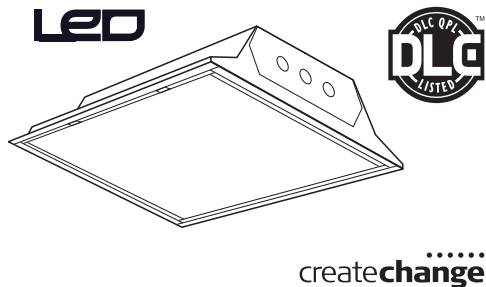| JTVCC VAUGHN AUTOMOTIVE	B, B1
Project Name	Type

Catalog No.	Date

FEATURES

- Full distribution LED troffer
- Direct replacement for fluorescent 2x2
- Long-life, 60,000 hour LEDs at L80 reduce life cycle maintenance costs
- Four LED color choices and 80 CRI
- Many shielding choices
- Two door frame choices
- Metal to metal light leak protection on all four sides of shielding frame
- Fixed output, step dimming (high/low/off), or 0-10V dimming drivers
- Hinged optical system allows easy access to LED modules and electrical from below the ceiling
- All models standard with IC rating
- DesignLights Consortium® (DLC) qualified
- Five year warranty

CONSTRUCTION
Luminaire housing, end caps, and reflectors are die-formed code-gauge cold-rolled steel. Optical system hinges from either side for easy access to LED module and electrical components. Mechanical light trap prevents light leaks.

FINISH
All metal parts processed with a multi-stage phosphate bonding treatment and finished with a high reflectance baked white enamel.

SHIELDING
Lens is high transmission pattern #12 acrylic (A12) for light diffusion without compromise to light output. Other shielding may be specified. If desired shielding media is not shown in ordering guide, contact your local Hubbell Lighting representative.

INSTALLATION
An access plate is furnished with each recessed fixture for fast wiring connections without the necessity to open the fixture or wireway.

CEILING COMPATIBILITY
Designed for recessed installation in standard inverted tee grid ceilings (G), recessed installation in hard ceilings (G with FK accessory), surface mount at ceiling plane (SM), or cable mount suspension below ceiling plane (CM). For compatibility with specific ceilings contact your Hubbell Lighting representative.

CERTIFICATION
All luminaires are built to UL 1598 and 2108 standards, and bear appropriate CSA labels. Damp location labeling is standard. Emergency equipped fixtures labeled UL924. Adheres to LM79, LM80 and TM21 industry standards. IC rating is standard on all models. DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org.

WARRANTY
Five year warranty. (Terms and Conditions Apply)

ORDERING INFORMATION

EXAMPLE LJT22-35HLG-FSA12-EU

LJT | 22 – | – | – | U | –

MODEL	COLOR TEMP	CEILING TYPE	SHIELDING	DRIVER	VOLTAGE	OPTIONS
LJT LED Lensed Troffer	**30** 3000K	**G** Grid[1]	**A12** Pattern 12 Acrylic Lens	**E** Fixed Output	**U** 120V-277V	**C388** 3-Wire Flex
	35 3500K	**SM** Surface Mount	**A12125** Pattern 12 Acrylic Lens, 0.125" Nominal	**ESD** Step Dimming		**C488** 4-Wire Flex
	40 4000K	**CM** Cable Mount[2]		**ED** 0-10V Dimming		**C588** 5-Wire Flex
	50 5000K		**A12F** Pattern 12 Frosted Acrylic Lens			**TB4** (4) Bulk T-Bar Clips

SIZE
22 2' × 2'

LUMEN OUTPUT	DOOR
ML Medium Lumen	**FS** White Flush Steel
HL High Lumen	**FA** White Flush Aluminum
VL Very High Lumen	

See Product Availability Table below

A12125F Pattern 12 Frosted Acrylic Lens, 0.125" Nominal

A19 Pattern 19 Acrylic Lens, 0.156" Nominal

A19F Pattern 19 Frosted Acrylic Lens 0.156"

Options continued:
- **ELL14** Emergency Battery Pack Installed, 1400 Lumens[3,4] (B1)
- **GLR** Fast Blow Fuse
- **GTD** Generator Transfer Device
- **G1** Single Gasketing (Door to Housing)
- **G2** Double Gasketing (G1 and Lens to Door)
- **G3** Triple Gasketing (G2 and Housing to Ceiling)
- **CP** Chicago Plenum

PRODUCT AVAILABILITY

SIZE	OUTPUT	LUMENS	WATTS	LPW
22	ML	3,200 - 3,450	35	92 - 99
	HL	3,775 - 4,025	43	89 - 94
	VL	4,250 - 4,550	51	85 - 91

Based on A12 lens, range represents 3000K through 5000K. Lumens will vary according to color temperatures and other factors. See specific photometric test(s).

[1] For hard ceilings use flange kit accessory.
[2] Order hanger accessories separately.
[3] For compatibility with Dual-Lite LiteGear® inverters in lieu of installed battery pack, contact Hubbell Lighting Representative.
[4] Not available with 2x2 Surface or Cable Mount.
[5] Not available with Surface Mount ceiling types.
[6] In-Fixture Module Antenna adds 2" to overall fixture height at power feed location.

Damp label—standard.
IC rating—standard.

ACCESSORIES (ORDER SEPARATELY)

FK22	2' × 2' Single Flange Kit
CM48Y2SC3F-KIT	48" Cable Mount Kit for 2' wide CM ceiling type, 3 Wire Feed Cord

LED / **LJT22**

LJT LED Troffer

HUBBELL Lighting

PHOTOMETRIC DATA

Test **L051401401** Test Date **05/22/2014**

LUMINAIRE DATA

Luminaire	**LJT22-35MLG-FSA12-EDU** **LJT LED, Lensed Troffer** **2 x 2 LED with A12 pattern acrylic prismed lens**
Ballast	**D15CC55UNVT-C**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**3261**
Watts	**35.17**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.12 90º = 1.16**
Luminous Opening in feet	**Length:1.82** **Width: 1.83** **Height: 0.00**

ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**93**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.58 based on 3000 hrs. and $0.08 per KWH**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt.
0-30	1176	36.1	36.1
0-40	1834	56.2	56.2
0-60	2785	85.4	85.4
0-90	3261	100.0	100.0
0-180	3261	100.0	100.0

INDOOR CANDELA PLOT

0.0 ——— 45.0 ·········· 90.0 – – –

Test **L051401402** Test Date **05/22/2014**

LUMINAIRE DATA

Luminaire	**LJT22-35HLG-FSA12-EDU** **LJT LED, Lensed Troffer** **2 x 2 LED with A12 pattern acrylic prismed lens**
Ballast	**D15CC55UNVT-C**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**3845**
Watts	**43.07**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.12 90º = 1.16**
Luminous Opening in feet	**Length:1.82** **Width: 1.83** **Height: 0.00**

ENERGY DATA

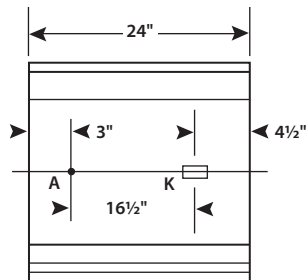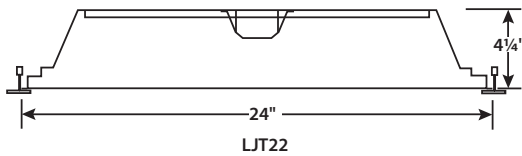|	
Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**89**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.70 based on 3000 hrs. and $0.08 per KWH**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt.
0-30	1379	35.9	35.9
0-40	2154	56.0	56.0
0-60	3281	85.3	85.3
0-90	3845	100.0	100.0
0-180	3845	100.0	100.0

INDOOR CANDELA PLOT

0.0 ——— 45.0 ·········· 90.0 – – –

Test **L051401403** Test Date **05/22/2014**

LUMINAIRE DATA

Luminaire	**LJT22-35VLG-FSA12-EDU** **LJT LED, Lensed Troffer** **2 x 2 LED with A12 pattern acrylic prismed lens**
Ballast	**D15CC55UNVT-C**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**4329**
Watts	**50.69**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.12 90º = 1.16**
Luminous Opening in feet	**Length:1.82** **Width: 1.83** **Height: 0.00**

ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**85**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.82 based on 3000 hrs. and $0.08 per KWH**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt.
0-30	1556	35.9	35.9
0-40	2429	56.1	56.1
0-60	3696	85.4	85.4
0-90	4329	100.0	100.0
0-180	4329	100.0	100.0

INDOOR CANDELA PLOT

0.0 ——— 45.0 ·········· 90.0 – – –

LED / **LJT22**

Columbia LIGHTING
LJT LED Troffer

HUBBELL Lighting

DIMENSIONAL DATA

4¼"

24"

LJT22

24"

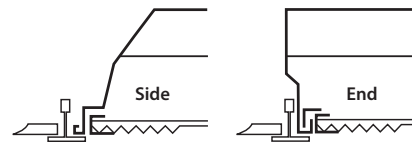3"   4½"

A   K

16½"

A - ⅞" Diameter Knockout
K - 2" × 3" through hole for access plate

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.
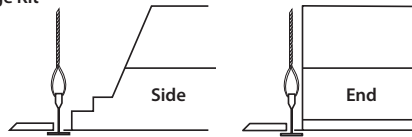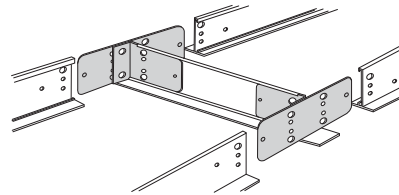
CEILING COMPATIBILITY

Type G

Side   End

For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed.

FK22 Flange Kit

Side   End

For hard ceiling applications order FK22 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.
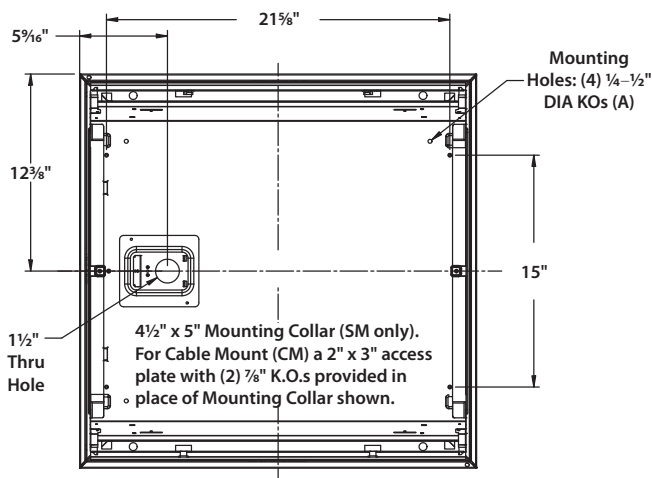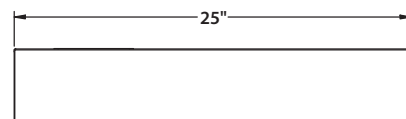
FKCR

For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK22 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK22 & (1) FKCR)

Row cut out dimensions using FK22 & FKCR adapters:
Width 24⅜", Length [24" × (# in row)] + ¾". Example: (24" × 2) + ⅜"= 48⅜"
Flange kit rough in dimensions for single unit only: 24⅜" × 24⅜"

DIMENSIONAL DATA - SURFACE MOUNT (SM) OR CABLE MOUNT (CM)

5 9/16"

21⅝"

Mounting Holes: (4) ¼–½" DIA KOs (A)

12⅜"

15"

1½" Thru Hole

4½" x 5" Mounting Collar (SM only). For Cable Mount (CM) a 2" x 3" access plate with (2) ⅞" K.O.s provided in place of Mounting Collar shown.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.
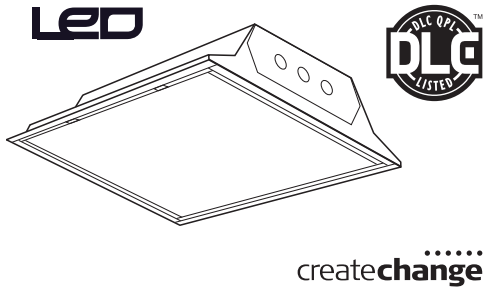
25"

Side View

4⅝"

End View

SURFACE MOUNT

Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock-outs, ¼" to ½" provided as shown, marked "A".

CABLE MOUNT

Order CM ceiling type. Access plate supplied for cable mounting or suspension. Use CM48Y2C3F-KIT 48" cable mount kit. Includes 3 wire feed cord. For other wiring needs, contact Hubbell Lighting representative. Mounting knock-outs, ¼" to ½", provided as shown, marked "A".

Columbia LIGHTING
LJT LED Troffer

HUBBELL Lighting

Columbia LIGHTING

LJT22
2' × 2', LED Troffer

LED

DLC QPL LISTED

create change ••••••

FEATURES

- Full distribution LED troffer
- Direct replacement for fluorescent 2x2
- Long-life, 60,000 hour LEDs at L80 reduce life cycle maintenance costs
- Four LED color choices and 80 CRI
- Many shielding choices
- Two door frame choices
- Metal to metal light leak protection on all four sides of shielding frame
- Fixed output, step dimming (high/low/off), or 0-10V dimming drivers
- Hinged optical system allows easy access to LED modules and electrical from below the ceiling
- All models standard with IC rating
- DesignLights Consortium® (DLC) qualified
- Five year warranty

PROJECT INFORMATION

JTVCC VAUGHN AUTOMOTIVE

Project Name

Catalog No.

C

Type

Date

CONSTRUCTION

Luminaire housing, end caps, and reflectors are die-formed code-gauge cold-rolled steel. Optical system hinges from either side for easy access to LED module and electrical components. Mechanical light trap prevents light leaks.

FINISH

All metal parts processed with a multi-stage phosphate bonding treatment and finished with a high reflectance baked white enamel.

SHIELDING

Lens is high transmission pattern #12 acrylic (A12) for light diffusion without compromise to light output. Other shielding may be specified. If desired shielding media is not shown in ordering guide, contact your local Hubbell Lighting representative.

INSTALLATION

An access plate is furnished with each recessed fixture for fast wiring connections without the necessity to open the fixture or wireway.

CEILING COMPATIBILITY

Designed for recessed installation in standard inverted tee grid ceilings (G), recessed installation in hard ceilings (G with FK accessory), surface mount at ceiling plane (SM), or cable mount suspension below ceiling plane (CM). For compatibility with specific ceilings contact your Hubbell Lighting representative.

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WARRANTY

Five year warranty. (Terms and Conditions Apply)

ORDERING INFORMATION

EXAMPLE LJT22-35HLG-FSA12-EU

LJT 22 – – – U –

MODEL	COLOR TEMP	CEILING TYPE	SHIELDING	DRIVER	VOLTAGE	OPTIONS
LJT LED Lensed Troffer	**30** 3000K	**G** Grid[1]	**A12** Pattern 12 Acrylic Lens	**E** Fixed Output	**U** 120V-277V	**C388** 3-Wire Flex
	35 3500K	**SM** Surface Mount	**A12125** Pattern 12 Acrylic Lens, 0.125" Nominal	**ESD** Step Dimming		**C488** 4-Wire Flex
	40 4000K	**CM** Cable Mount[2]		**ED** 0-10V Dimming		**C588** 5-Wire Flex
	50 5000K		**A12F** Pattern 12 Frosted Acrylic Lens			**TB4** (4) Bulk T-Bar Clips

SIZE
22 2' × 2'

LUMEN OUTPUT	DOOR
ML Medium Lumen	**FS** White Flush Steel
HL High Lumen	**FA** White Flush Aluminum
VL Very High Lumen	

See Product Availability Table below

Shielding (continued):
- **A12125F** Pattern 12 Frosted Acrylic Lens, 0.125" Nominal
- **A19** Pattern 19 Acrylic Lens, 0.156" Nominal
- **A19F** Pattern 19 Frosted Acrylic Lens 0.156"

Options (continued):
- **ELL14** Emergency Battery Pack Installed, 1400 Lumens[3,4]
- **GLR** Fast Blow Fuse
- **GTD** Generator Transfer Device
- **G1** Single Gasketing (Door to Housing)
- **G2** Double Gasketing (G1 and Lens to Door)
- **G3** Triple Gasketing (G2 and Housing to Ceiling)
- **CP** Chicago Plenum

PRODUCT AVAILABILITY

SIZE	OUTPUT	LUMENS	WATTS	LPW
22	ML	3,200 - 3,450	35	92 - 99
	HL	3,775 - 4,025	43	89 - 94
	VL	4,250 - 4,550	51	85 - 91

Based on A12 lens, range represents 3000K through 5000K. Lumens will vary according to color temperatures and other factors. See specific photometric test(s).

[1] For hard ceilings use flange kit accessory.
[2] Order hanger accessories separately.
[3] For compatibility with Dual-Lite LiteGear® inverters in lieu of installed battery pack, contact Hubbell Lighting Representative.
[4] Not available with 2x2 Surface or Cable Mount.
[5] Not available with Surface Mount ceiling types.
[6] In-Fixture Module Antenna adds 2" to overall fixture height at power feed location.

Damp label—standard.
IC rating—standard.
Page **1/3** Rev. **03/08/16**

ACCESSORIES (ORDER SEPARATELY)

FK22 2' × 2' Single Flange Kit

CM48Y2SC3F-KIT 48" Cable Mount Kit for 2' wide CM ceiling type, 3 Wire Feed Cord

LED / **LJT22**

Columbia LIGHTING • Lower Watts • Latest Technology • Enhanced Performance •
LJT LED Troffer

HUBBELL Lighting

Columbia LIGHTING

LJT22
2' × 2', LED Troffer

PHOTOMETRIC DATA

Test **L051401401** Test Date **05/22/2014**

LUMINAIRE DATA

Luminaire	LJT22-35MLG-FSA12-EDU **LJT LED, Lensed Troffer 2 x 2 LED with A12 pattern acrylic prismed lens**
Ballast	**D15CC55UNVT-C**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**3261**
Watts	**35.17**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.12 90º = 1.16**
Luminous Opening in feet	**Length:1.82 Width: 1.83 Height: 0.00**

ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**93**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.58 based on 3000 hrs. and $0.08 per KWH**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt.
0-30	1176	36.1	36.1
0-40	1834	56.2	56.2
0-60	2785	85.4	85.4
0-90	3261	100.0	100.0
0-180	3261	100.0	100.0

INDOOR CANDELA PLOT

Test **L051401402** Test Date **05/22/2014**

LUMINAIRE DATA

Luminaire	LJT22-35HLG-FSA12-EDU **LJT LED, Lensed Troffer 2 x 2 LED with A12 pattern acrylic prismed lens**
Ballast	**D15CC55UNVT-C**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**3845**
Watts	**43.07**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.12 90º = 1.16**
Luminous Opening in feet	**Length:1.82 Width: 1.83 Height: 0.00**

ENERGY DATA

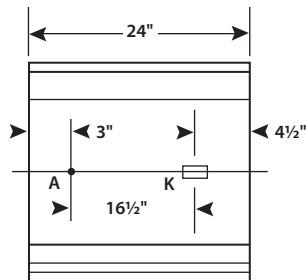|	
Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**89**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.70 based on 3000 hrs. and $0.08 per KWH**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt.
0-30	1379	35.9	35.9
0-40	2154	56.0	56.0
0-60	3281	85.3	85.3
0-90	3845	100.0	100.0
0-180	3845	100.0	100.0

INDOOR CANDELA PLOT

Test **L051401403** Test Date **05/22/2014**

LUMINAIRE DATA

Luminaire	LJT22-35VLG-FSA12-EDU **LJT LED, Lensed Troffer 2 x 2 LED with A12 pattern acrylic prismed lens**
Ballast	**D15CC55UNVT-C**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**4329**
Watts	**50.69**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.12 90º = 1.16**
Luminous Opening in feet	**Length:1.82 Width: 1.83 Height: 0.00**

ENERGY DATA

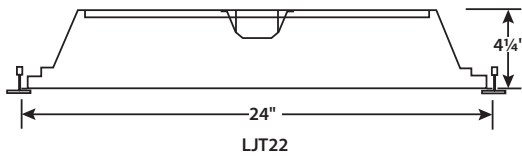|	
Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**85**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.82 based on 3000 hrs. and $0.08 per KWH**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt.
0-30	1556	35.9	35.9
0-40	2429	56.1	56.1
0-60	3696	85.4	85.4
0-90	4329	100.0	100.0
0-180	4329	100.0	100.0

INDOOR CANDELA PLOT

LED / **LJT22**

HUBBELL Lighting

DIMENSIONAL DATA

4¼"

24"

LJT22

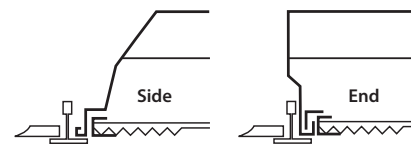24"

3"   4½"

A   K

16½"

A - ⅞" Diameter Knockout
K - 2" × 3" through hole for access plate

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.
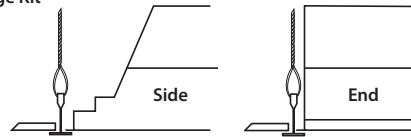
CEILING COMPATIBILITY

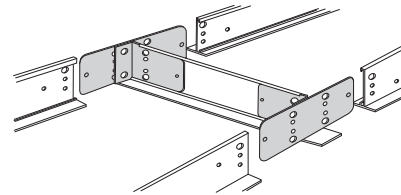**Type G**

Side   End

For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed.

FK22 Flange Kit

Side   End

For hard ceiling applications order FK22 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.
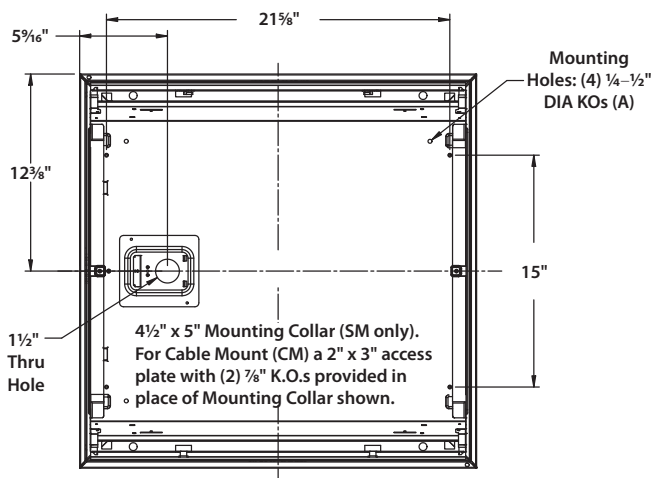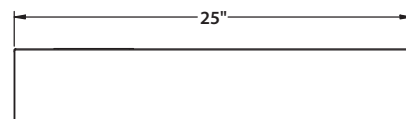
FKCR

For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK22 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK22 & (1) FKCR)

Row cut out dimensions using FK22 & FKCR adapters:
Width 24⅜", Length [24" × (# in row)] + ¾". Example: (24" × 2) + ⅜"= 48⅜"
Flange kit rough in dimensions for single unit only: 24⅜" × 24⅜"

DIMENSIONAL DATA - SURFACE MOUNT (SM) OR CABLE MOUNT (CM)

5⁹⁄₁₆"

21⅝"

Mounting Holes: (4) ¼–½" DIA KOs (A)

12⅜"

15"

1½" Thru Hole

4½" x 5" Mounting Collar (SM only). For Cable Mount (CM) a 2" x 3" access plate with (2) ⅞" K.O.s provided in place of Mounting Collar shown.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.
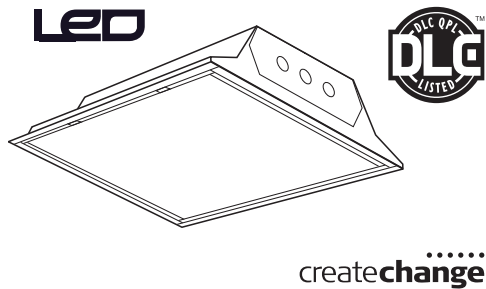
25"

Side View

4⅝"

End View

SURFACE MOUNT

Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock-outs, ¼" to ½" provided as shown, marked "A".

CABLE MOUNT

Order CM ceiling type**.** Access plate supplied for cable mounting or suspension. Use CM48Y2C3F-KIT 48" cable mount kit. Includes 3 wire feed cord. For other wiring needs, contact Hubbell Lighting representative. Mounting knock-outs, ¼" to ½", provided as shown, marked "A".

Columbia LIGHTING
LJT LED Troffer

HUBBELL Lighting

Columbia LIGHTING

LJT22
2' × 2', LED Troffer

LED

DLC QPL LISTED

createchange

FEATURES

- Full distribution LED troffer
- Direct replacement for fluorescent 2x2
- Long-life, 60,000 hour LEDs at L80 reduce life cycle maintenance costs
- Four LED color choices and 80 CRI
- Many shielding choices
- Two door frame choices
- Metal to metal light leak protection on all four sides of shielding frame
- Fixed output, step dimming (high/low/off), or 0-10V dimming drivers
- Hinged optical system allows easy access to LED modules and electrical from below the ceiling
- All models standard with IC rating
- DesignLights Consortium® (DLC) qualified
- Five year warranty

CONSTRUCTION
Luminaire housing, end caps, and reflectors are die-formed code-gauge cold-rolled steel. Optical system hinges from either side for easy access to LED module and electrical components. Mechanical light trap prevents light leaks.

FINISH
All metal parts processed with a multi-stage phosphate bonding treatment and finished with a high reflectance baked white enamel.

SHIELDING
Lens is high transmission pattern #12 acrylic (A12) for light diffusion without compromise to light output. Other shielding may be specified. If desired shielding media is not shown in ordering guide, contact your local Hubbell Lighting representative.

INSTALLATION
An access plate is furnished with each recessed fixture for fast wiring connections without the necessity to open the fixture or wireway.

CEILING COMPATIBILITY
Designed for recessed installation in standard inverted tee grid ceilings (G), recessed installation in hard ceilings (G with FK accessory), surface mount at ceiling plane (SM), or cable mount suspension below ceiling plane (CM). For compatibility with specific ceilings contact your Hubbell Lighting representative.

CERTIFICATION
All luminaires are built to UL 1598 and 2108 standards, and bear appropriate CSA labels. Damp location labeling is standard. Emergency equipped fixtures labeled UL924. Adheres to LM79, LM80 and TM21 industry standards. IC rating is standard on all models. DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org.

WARRANTY
Five year warranty. (Terms and Conditions Apply)

ORDERING INFORMATION

EXAMPLE LJT22-35HLG-FSA12-EU

LJT 22 – – – U –

MODEL	COLOR TEMP	CEILING TYPE	SHIELDING	DRIVER	VOLTAGE	OPTIONS
LJT LED Lensed Troffer	**30** 3000K **35** 3500K **40** 4000K **50** 5000K	**G** Grid[1] **SM** Surface Mount **CM** Cable Mount[2]	**A12** Pattern 12 Acrylic Lens **A12125** Pattern 12 Acrylic Lens, 0.125" Nominal **A12F** Pattern 12 Frosted Acrylic Lens **A12125F** Pattern 12 Frosted Acrylic Lens, 0.125" Nominal **A19** Pattern 19 Acrylic Lens, 0.156" Nominal **A19F** Pattern 19 Frosted Acrylic Lens 0.156"	**E** Fixed Output **ESD** Step Dimming **ED** 0-10V Dimming	**U** 120V-277V	**C388** 3-Wire Flex **C488** 4-Wire Flex **C588** 5-Wire Flex **TB4** (4) Bulk T-Bar Clips **ELL14** Emergency Battery Pack Installed, 1400 Lumens[3,4] **GLR** Fast Blow Fuse **GTD** Generator Transfer Device **G1** Single Gasketing (Door to Housing) **G2** Double Gasketing (G1 and Lens to Door) **G3** Triple Gasketing (G2 and Housing to Ceiling) **CP** Chicago Plenum

SIZE	LUMEN OUTPUT	DOOR
22 2' × 2'	**ML** Medium Lumen **HL** High Lumen **VL** Very High Lumen See Product Availability Table below	**FS** White Flush Steel **FA** White Flush Aluminum

PRODUCT AVAILABILITY

SIZE	OUTPUT	LUMENS	WATTS	LPW
22	ML	3,200 - 3,450	35	92 - 99
	HL	3,775 - 4,025	43	89 - 94
	VL	4,250 - 4,550	51	85 - 91

Based on A12 lens, range represents 3000K through 5000K. Lumens will vary according to color temperatures and other factors. See specific photometric test(s).

[1] For hard ceilings use flange kit accessory.
[2] Order hanger accessories separately.
[3] For compatibility with Dual-Lite LiteGear® inverters in lieu of installed battery pack, contact Hubbell Lighting Representative.
[4] Not available with 2x2 Surface or Cable Mount.
[5] Not available with Surface Mount ceiling types.
[6] In-Fixture Module Antenna adds 2" to overall fixture height at power feed location.

Damp label—standard.
IC rating—standard.
Page **1/3** Rev. **03/08/16**

ACCESSORIES (ORDER SEPARATELY)

FK22	2' × 2' Single Flange Kit
CM48Y2SC3F-KIT	48" Cable Mount Kit for 2' wide CM ceiling type, 3 Wire Feed Cord

LED / **LJT22**

Columbia LIGHTING • Lower Watts • Latest Technology • Enhanced Performance •
LJT LED Troffer

HUBBELL Lighting

PHOTOMETRIC DATA

Test **L051401401** Test Date **05/22/2014**

LUMINAIRE DATA

Luminaire	**LJT22-35MLG-FSA12-EDU**
	LJT LED, Lensed Troffer
	2 x 2 LED with A12 pattern acrylic prismed lens
Ballast	**D15CC55UNVT-C**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**3261**
Watts	**35.17**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.12 90º = 1.16**
Luminous Opening in feet	**Length:1.82 Width: 1.83 Height: 0.00**

ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**93**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.58 based on 3000 hrs. and $0.08 per KWH**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt.
0-30	1176	36.1	36.1
0-40	1834	56.2	56.2
0-60	2785	85.4	85.4
0-90	3261	100.0	100.0
0-180	3261	100.0	100.0

INDOOR CANDELA PLOT

Test **L051401402** Test Date **05/22/2014**

LUMINAIRE DATA

Luminaire	**LJT22-35HLG-FSA12-EDU**
	LJT LED, Lensed Troffer
	2 x 2 LED with A12 pattern acrylic prismed lens
Ballast	**D15CC55UNVT-C**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**3845**
Watts	**43.07**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.12 90º = 1.16**
Luminous Opening in feet	**Length:1.82 Width: 1.83 Height: 0.00**

ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**89**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.70 based on 3000 hrs. and $0.08 per KWH**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt.
0-30	1379	35.9	35.9
0-40	2154	56.0	56.0
0-60	3281	85.3	85.3
0-90	3845	100.0	100.0
0-180	3845	100.0	100.0

INDOOR CANDELA PLOT

Test **L051401403** Test Date **05/22/2014**

LUMINAIRE DATA

Luminaire	**LJT22-35VLG-FSA12-EDU**
	LJT LED, Lensed Troffer
	2 x 2 LED with A12 pattern acrylic prismed lens
Ballast	**D15CC55UNVT-C**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**4329**
Watts	**50.69**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.12 90º = 1.16**
Luminous Opening in feet	**Length:1.82 Width: 1.83 Height: 0.00**

ENERGY DATA

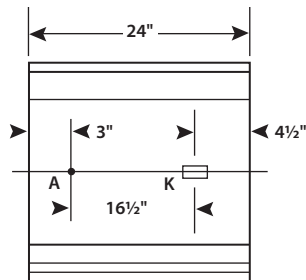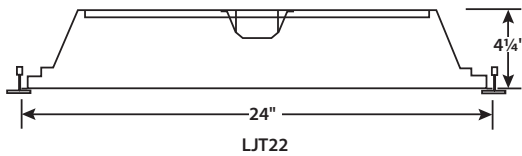|	
Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**85**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.82 based on 3000 hrs. and $0.08 per KWH**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt.
0-30	1556	35.9	35.9
0-40	2429	56.1	56.1
0-60	3696	85.4	85.4
0-90	4329	100.0	100.0
0-180	4329	100.0	100.0

INDOOR CANDELA PLOT

DIMENSIONAL DATA

4¼"

24"

LJT22

24"

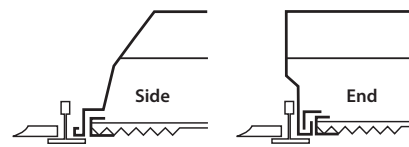3"   4½"

A   K

16½"

A - ⅞" Diameter Knockout
K - 2" × 3" through hole for access plate

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.
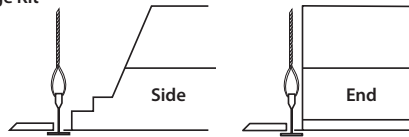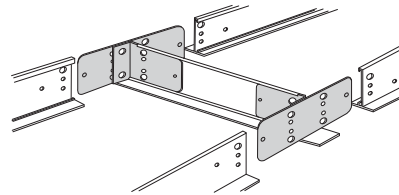
CEILING COMPATIBILITY

Type G

Side   End

For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed.

FK22 Flange Kit

Side   End

For hard ceiling applications order FK22 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.
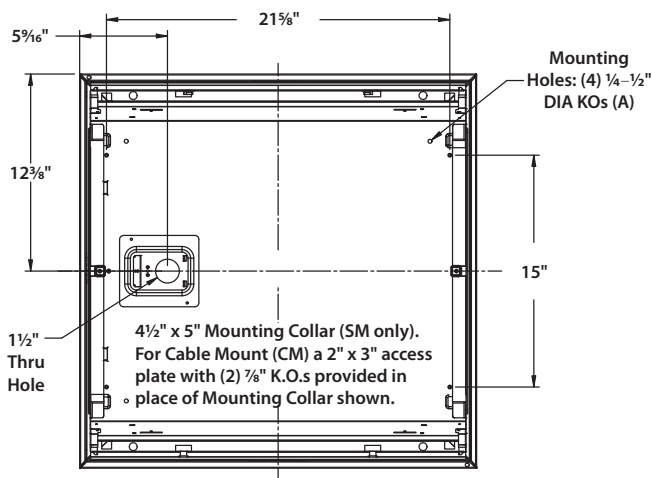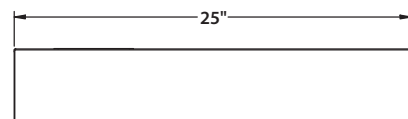
FKCR

For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK22 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK22 & (1) FKCR)

Row cut out dimensions using FK22 & FKCR adapters:
Width 24⅜", Length [24" × (# in row)] + ¾". Example: (24" × 2) + ⅜"= 48⅜"
Flange kit rough in dimensions for single unit only: 24⅜" × 24⅜"

DIMENSIONAL DATA - SURFACE MOUNT (SM) OR CABLE MOUNT (CM)

5⁹⁄₁₆"

21⅝"

Mounting Holes: (4) ¼–½" DIA KOs (A)

12⅜"

15"

1½" Thru Hole

4½" x 5" Mounting Collar (SM only). For Cable Mount (CM) a 2" x 3" access plate with (2) ⅞" K.O.s provided in place of Mounting Collar shown.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

25"

Side View

4⅝"

End View

SURFACE MOUNT

Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock-outs, ¼" to ½" provided as shown, marked "A".

CABLE MOUNT

Order CM ceiling type. Access plate supplied for cable mounting or suspension. Use CM48Y2C3F-KIT 48" cable mount kit. Includes 3 wire feed cord. For other wiring needs, contact Hubbell Lighting representative. Mounting knock-outs, ¼" to ½", provided as shown, marked "A".

Columbia LIGHTING
LJT LED Troffer

HUBBELL Lighting

DUAL LITE®

JTVCC VAUGHN AUTOMOTIVE

EV Series
Architectural LED Emergency Light

Catalog Number	
Comments	Type **E**

FEATURES

Application
The EV Series is a compact architectural emergency lighting unit designed for fast wall mount installation and reliable service. The EV Series has a flame-rated, UV stable thermoplastic housing and a lightly textured white finish. Integral LED based lamp-heads are fully adjustable. Unit provides a full 90 minutes of emergency lighting. Includes micro-controlled pulse charger and nickel metal hydride (NiMH) battery. The EV accepts 120/277VAC input at 60 Hz and optional 220-240VAC input at 50-60 Hz with self-diagnostics option.

Construction
The EV Series housing and back-plate are made from durable injection molded thermoplastic. Lamp-head front halves are made of die-cast aluminum for thermal dissipation. Back half of lamp-head made of ABS thermoplastic. LED lens are made of acrylic.

Installation
Universal mounting template molded in the back plate aids in quick installation. Unit mounts to all single gang and standard 3 1/2" and 4" square or octagonal electrical boxes. Conduit entry through a molded-in knock-out at the top center. Pre-stripped AC input leads provided. Unit may be ceiling or wall mounted.

Illumination
The EV Series provides bright and uniform illumination and increased spacing by using 2 high power LEDs which are mounted in a specially designed heat dissipation lamp-head. Each lamp-head is fully adjustable and positioning is maintained by a friction fit design. Photometrics are available for download at www.dual-lite.com.

Compliances
Listed to UL924 Standard, NFPA 101, NFPA 70
Damp Location Listed Optional
RoHS

Warranty
LED Lifetime Warranty
EV Full 3 year warranty
EV with Spectron® Full 5 year warranty

Patents Pending

ACCESSORIES

EVR2	2 LED Remote
EVO	2 LED Outdoor Remote
EVR2B	2 LED Remote with Black Finish
WGA1	Wire Guard - 8"H x 12"L x 4"D
WGLZ	Wire Guard - 6 ¼"H x 14"L x 4"D
VRS3	Vandal Resistant Shield - 11 ½"H x 15 ½"L x 4 ½"D

Reference "Remote Heads and Fixtures" specification sheet for information on matching LED remote heads

EVR2 Indoor Remote   **EVO Outdoor Remote**

ORDERING GUIDE

EV —

Model	Capacity	Rating	Self-Diagnostics	Options

Capacity	
2	1W LED Heads
4	1W LED with remote capacity[1]

Rating	
Blank	Standard Model
D	Damp Location Listed[2]

Self-Diagnostics	
Blank	No Self-Diagnostics
I	Spectron® Self-Diagnostics

Options	
B	Black Finish
24K	220-240VAC 60Hz with Spectron®[3]
02L	2 watt LED heads[5]
0	No-head option to run external remotes only[6]

[1] Capacity to run 2 head remote

[2] EV2 available with or with-out damp listing, all other models include damp

[3] -24K option only available with damp plus Spectron®

[4] Not capable of running remote heads

[5] Can only be run from EV4 model

[6] -0 No-head option only available with EV4D-02L, with or without Spectron®

NOTE: Remote Capacity Option will only power the EVR2 and EVO remotes

HUBBELL Lighting

SPECIFICATIONS

Electronics

Upon failure of normal utility power, a solid-state transfer switch automatically activates the emergency LED lamp-heads. Upon resumption of normal utility power, the battery is disconnected from the load and recharged through a microprocessor controlled pulse charger. The battery is a maintenance-free Nickel Metal Hydride(NiMH) type. The EV series accepts dual-voltage input of 120 or 277VAC at 60 Hz, or an optional 220-240VAC input at 50-60 Hz. A low voltage battery disconnect (LVD) feature protects the battery from severe damage during prolonged power failures. Manual testing is available at any time using the push-to-test button.

Number of Lamps- 2 High Power LEDs at 1 watt each configured so that if 1 lamp malfunctions, the remaining lamp will continue to provide illumination to the -0(no-head) option will power 1 double-head remote (EVR2 or EVODW) at 2 watts per lamp (145 lumens). This option allows the battery to be located in a conditioned environment.

Lamp Color: Cool White

Total Lamp Output: 1W, 88 Lumens per LED

2W (optional), 145 Lumens per LED

System efficacy: 80lm/W

Rated LED lifecycle: greater than 100,000 hrs.

Standard Features Include:

- Intelligent 2-wire input connection
- External push-to-test switch and AC-on indicator
- Battery re-charge within 24 hours
- AC Lock-out circuit
- Low voltage disconnect
- Conduit entry knock-out located at the top center
- Microprocessor controlled pulse charger

Optional Spectron Feature:

- Self-diagnostics monitors LED status, LED load transfer circuit, battery capacity and charger function and displays any fault detection by means of a flashing code
- Self-Test feature automatically runs a 1 minute test once a month and an alternating 30 or 60 minute test once every 6 months. Multi-color LED indicator provides visible fault detection and charging status.
- User initiated 1 or 90-minute system test feature
- 15 minute re-transfer delay
- Automatic unit transfer in brown-out conditions (below 80% of nominal AC input voltage)

Operating Temperature Range:

Standard: 68˚ to 86˚F (20˚ to 30˚C)

Damp Listed: 50˚ to 104˚F (10˚ to 40˚C)

Weight: 2.0 lbs

MAXIMUM POWER CONSUMPTION

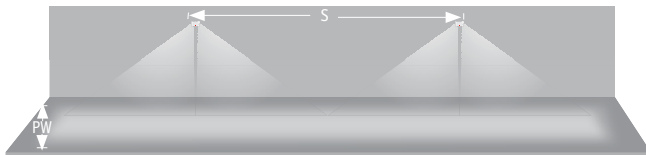|	AC Voltage	Hz.	Amps.	Watts	Power Factor
EV2 EV2D	120	60	0.015	1.10	0.61
	240	60	0.009	1.43	0.62
	277	60	0.008	1.45	0.62
EV4D	120	60	0.022	2.00	0.73
	240	60	0.015	2.51	0.65
	277	60	0.014	2.75	0.63

The EV Series meets proposed California Energy Commission(CEC) requirements for limits on power consumption in maintenance mode with less than 0.5 watts.
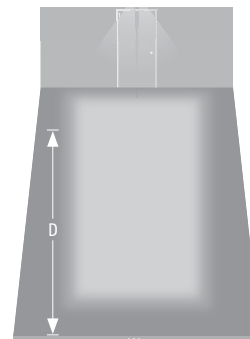
DIMENSIONS

5"

8.5"

2.25"
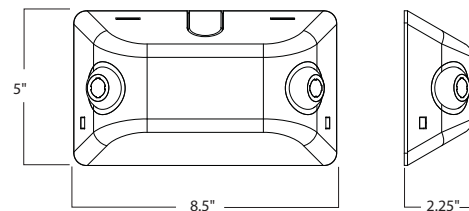
APPLICATION INFORMATION

Multi-Unit Spacing

S

PW

Single Unit Coverage

D

W

1 fc Average		
	Using 1 Watt Heads	Using 2 Watt Heads
Path Width (PW)	Spacing (S)	Spacing (S)
3'	27'	39'
6'	20'	33'

1 fc Minimum		
	Using 1 Watt Heads	Using 2 Watt Heads
Path Width (PW)	Spacing (S)	Spacing (S)
3'	14'	18'
6'	10'	14'

1 fc Average	
Using 1 Watt Heads	
Depth (D)	Width (W)
16'	10'
Using 2 Watt Heads	
Depth (D)	Width (W)
26'	10'

1 fc Minimum	
Using 1 Watt Heads	
Depth (D)	Width (W)
6'	10'
Using 2 Watt Heads	
Depth (D)	Width (W)
9'	10'

Meets Life Safety Code minimum illuminance of 0.1 fc and average illuminance of 1.0 fc. Assumes open space with no obstructions, mounting height of 7.5', ceiling height of 9' and reflectances of 80/50/20. Photometry files available on the Dual-Lite web site (www.dual-lite.com).

HUBBELL Lighting

0603491 E 12/15

Cat.#		
Job JTVCC VAUGHN AUTOMOTIVE	Type F	

HUBBELL Outdoor Lighting

Approvals

SPECIFICATIONS

Intended Use:
Perimeter lighting for safety, security and identity Applications include office buildings, shopping centers, restaurants, schools, warehouses, parking garages and other commercial areas

Operating Temperature:
• , -40˚C to 40˚C ambient environments

Construction:
• The die-cast aluminum housing provides firm mounting over recessed junction boxes

• 3 x 1/2" threaded conduit holes (top and sides) for surface conduit wiring or PC for dusk-to dawn control

• Two door options available:

  - Cast aluminum frame with prismatic borosilicate glass (PGM3)

  - One piece, prismatic, vandal resistant polycarbonate cover (PVL3)

• Standard finish is dark bronze textured powder paint. The PGM3 version is available in alternate finishes of black, white, gray, platinum silver and custom colors

LED/Optical:
• 180 high powered LEDs in 2 parallel series, produce up to 7160 lumens (99.4 LPW) in PGM3 and 5978 lumens (83 LPW) in PVL3

• CCT – 3000K, 4000K, 5000K (80 CRI)

• Wide type IV uniform distribution for PGM3

• Wide type III uniform distribution for PVL3

Electrical
• 120-277V universal voltage 50/60Hz, 0-10V dimmable

• Driver RoHS and IP66

• 32w (1 driver, 350mA, 55mA delivered)

• 72w (2 drivers, 700mA, 116mA delivered)

• Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion

Controls
Photocell and occupancy sensor options available for complete on/off or programmable dimming control

Egress Version
• Minimum of 1fc at 12' mounting height covering 10'x10' square in battery mode, exceeds Life Safety Code requirements of 1 fc average. See options below for more information.

Listings:
• Meets DesignLights Consortium (DLC) qualifications (700mA versions only) consult DLC website for more details: http://www.designlights.org/QPL

• Listed to UL 1598 for use in wet locations

Warranty:
Five year limited warranty (for more information visit: http://www.hubbelloutdoor.com/resources/warranty/

PRODUCT IMAGE(S)

PGM3   PVL3

DIMENSIONS
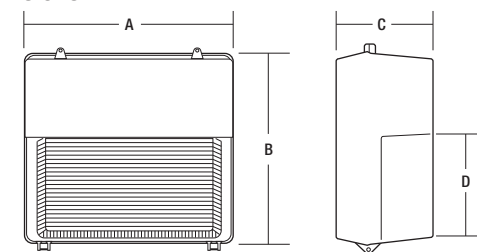
	A	B	C	D
PGM3	14⁷/₈"	15"	8"	6¹³/₁₆"
LED	378 mm	381 mm	203 mm	173 mm
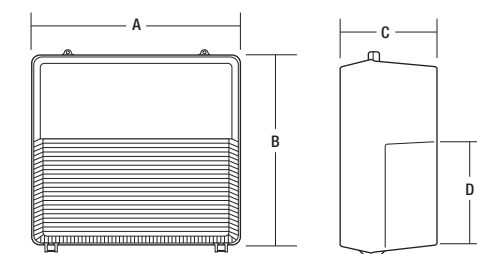
	A	B	C	D
PVL3	14⁷/₈"	15"	8"	7⁷/₁₆"
LED	378 mm	381 mm	203 mm	189 mm

CERTIFICATIONS/LISTINGS

ORDERING INFORMATION   ORDERING EXAMPLE: PGM3-180L5K-U-DB

FAMILY	# LEDS	CCT	DRIVER OUTPUT	VOLTAGE[1]	FIXTURE COLOR	OPTIONS
PGM3 Glass Refractor	180L	3K 3000K, 80 CRI	BLANK 700mA	U 120V-277V	DB[5] Bronze	F[1] Fusing (voltage determined by voltage field) Single fusing only 120V, 277V or 347V
PVL3[5] Polycarbonate Refractor		4K 4000K, 80 CRI	035 350mA	1 120V	BL Black	PC[1] Button photocontrol, (Must specify individual voltage)
		5K 5000K, 80 CRI		2 208V	WH White	BBU[1,3] Integral battery for 120 or 277V (Must specify individual voltage) 700mA rated for -20˚C to 25˚C 350mA rated for -20˚C to 35˚C
				3 240V	GR Gray	
				4 277V	PL Platinum	SCO[4] Motion sensor On/Off control, No light output when no motion detected
				5 480V	CC Custom Color	SCP[2,4] Programmable motion control, factory default is 10% light output
				F 347V		Controls Guide

NOTE: This fixture must be provided with tamper proof screws.

1 Voltage specific option, designate in voltage field, PC not available in 480V
2 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, must order minimum of one remote to program dimming settings, 120V or 277V only
3 BBU available in 120V or 277V only
4 PC option not applicable, included in sensor
5 PVL3 only available in DB Bronze fixture color

PERFORMANCE DATA

# OF LEDS	DRIVE CURRENT	SYSTEM WATTS	FIXTURE SERIES	5K (5000K nominal, 80 CRI)		4K (4000K nominal, 80 CRI)		3K (3000K nominal, 80 CRI)	
				LUMENS	LPW[1]	LUMENS	LPW[1]	LUMENS	LPW[1]
180	350mA	32w	PGM3	3753	117	3620	113	3614	113
			PVL3	3057	95.5	2953	92.3	2846	88.2
	700mA	72w	PGM3	7160	99.4	6923	96	6889	96
			PVL3	5978	83	5773	80	5516	77

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

ELECTRICAL DATA

# OF LEDS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	CURRENT (Amps)	SYSTEM POWER (w)
180	035 (350mA)	120	0.28	32
		208	0.17	32
		240	0.15	32
		277	0.13	32
		347		32
		480		32
	STD. (700mA)	120	0.59	72
		208	0.35	72
		240	0.30	72
		277	0.29	72
		347		72
		480		72

PROJECTED LUMEN MAINTENANCE

Ambient Temp.	OPERATING HOURS					L70 (hours)
	0	25,000	50,000	TM-21-11[1] 60,000	100,000	
25°C / 77°F	1.00	0.96	0.94	0.93	0.89	>331,000
40˚C/104°F	0.99	0.95	0.92	0.90	0.85	>237,000

1. Projected per IESNA TM-21-11 ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

AMBIENT TEMPERATURE		LUMEN MULTIPLIER
0°C	32°F	1.02
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98
50°C	122°F	0.97

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

ACCESSORIES

ACCESSORIES
(order as separate part #)

Catalog Number	Description
PBT-1	Photo control, button type, 120V
PBT-234	Photo control, button type, 208, 240, 277V
PG-PS[1]	Polycarbonate shield for refractor for PGM3
PG-WG[1]	Wire guard for refractor for PGM3
PVL3V	Full cut-off visor, formed aluminum, bronze finish
SCP-REMOTE[2]	Remote control for SCP option. Order at least one per project to program and control.

REPLACEMENT PARTS
(order as separate part #)

Catalog Number	Description
200-0180-9904	Replacement lens/door PVL3
800-3399-0104	Replacement lens/door PGM3

1 Guard & shield can be used on the same fixture

2 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, must order minimum of one remote to program dimming settings, not available in 208V, 240V, 347V or 480V

TYPE: _____ [X]

CATALOG #: _____

NOTES: _____

AD ADVANCED DIAGNOSTICS   **NEMA-4X**   **nexus**®   (**NSF**)   (**U**L)

Survive-All™ SVX Exit Series
NEMA-4X Rated and UL Listed for Wet and Damp Locations

Features

Reliability

The Survive-All™ SVX Series has a 5-year limited warranty, including light source

Detailed warranty terms located at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Unit Data - NEMA-4X* Rated

Rugged polyvinyl chloride body will not dent, peel, rust or corrode. The sealed faceplate is constructed of heavy duty, vandal-resistant polycarbonate and features an evenly illuminated legend. The fully gasketed faceplate is fastened with stainless steel tamper-resistant screws. Magnetically operated test switch. Models can be wall, or ceiling mounted. Legend and chevron complies with UL and CSA requirements.

Survive-All™ SVX Series signs are unaffected by the vibrations, ambient temperature swings and typical power surges detrimental to standard exit light sources.

NEMA 4X* Rated. UL924 Listed. Listed for wet and Damp Locations 50°F to 104°F (+10°C/+40°C)

5-year limited warranty

Detailed warranty terms located at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

* Nema-4X Certified for wall or ceiling mounting only

Accessories (order as a separate item)

DESCRIPTION	PART NUMBER
Tamper-proof bit	690.0454-E
Convert single to double face, red	DFKR*
Convert single face to double face, green	DFKG*

* Colors available AL-BK-WT

Applications

- Hosedown areas / car washes
- Food processing / preparation facilities
- Marine locations
- Chemical plants
- Schools and other public facilities
- Parking garages
- Food processing / preparation facilities
- Transit platforms
- Sports arenas / swimming pools
- Security areas / prisons
- Warehouse and cold storage facilities
- Heavy industrial facilities

Note: Units installed outdoors must be in a shaded area (Lead-Calcium batteries)

Suggested Specification

Supply and install the **Emergi-Lite® SVX Series LED** exit signs. The signs shall be listed to UL924. The exit housing shall be molded polyvinyl chloride in either white or black. A universal mounting pattern shall be available on single face signs for back mounting to a wall or surface. All models shall come equipped with a canopy for ceiling or end mount applications. The faceplate and canopy shall have gasketing available for a secure, watertight seal. Vandal proof screws shall be provided for securing the faceplate(s). Light Source: Shall be high intensity, long-life light emitting diodes (LED's). LED's shall provide even illumination, at the same intensity during AC operation and in the the emergency mode. LED's shall be mounted within the exit housing but not along the face or wording. An LED sensitive ink diffuser shall be mounted on the face to provide full 3/4" letter stroke with even illumination. Red LED technology shall be ALINGAP. Self Powered Models: Shall have a Nickel-Cadmium battery for long, maintenance-free life. In the emergency mode the battery shall provide a minimum of 90 minutes run time. Self Testing/Self-diagnostics shall be standard on all self powered signs. The circuit shall have a single "service required" LED visible to the user. A detailed diagnostic display will be found internally to the unit and isolate the fault to the batter y charger board or LED lamps.

The self testing software will simulate a power failure and transfer the light source to the batter y for 30 seconds every 30 days, 30 minutes every 60 days and 90 minutes annually in accordance with NFPA 101. The unit shall be supplied with an AC pilot light and a magnetic proximity test switch for manual testing. The charger shall be fully automatic, solid state, temperature compensated and short circuit protected.

The unit shall be **Emergi-Lite®** model: _____.

Self-Diagnostic/Self-Test Feature (Standard)

Self-Diagnostic circuitry is standard on all self-powered models. This circuitry is programmed to ensure the exits readiness and reliability by continuously monitoring every critical function of the unit. If a problem occurs, a single service required indicator illuminates immediately. A detailed diagnostic display is located on the inside of the exit sign... out of sight from the general public will further indicate the nature of the fault. The self testing software will test the unit for 30 seconds ever y 30 days, 30 minutes every 60 days and 90 minutes annually.

Battery Warranty*
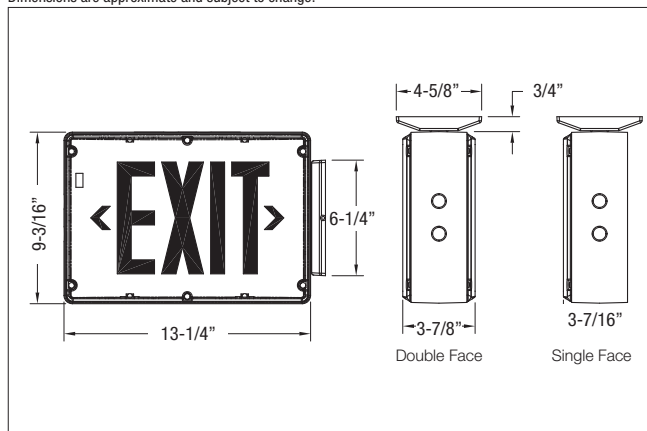
Unit carries a 5-year Full Warranty.

Battery Warranty*

Sealed Nickel-Cadmium batteries has a 10 year life expectancy and carries a 5-year Full Warranty, plus a 5-year pro rata warranty.

* Subject to proper installation and maintenance.

⫶C EMERGI-LITE®

Dimensions
Dimensions are approximate and subject to change.

Double Face

Single Face

High Performance Circuitry

- Self Contained – Batteries and circuitry located inside the exit housing.
- Continuous self-diagnostic monitoring and monthly self testing.
- Fully automatic charger is solid state.
- AC, AC/DC and Self-Powered Models have universal, 2-wire input 120V to 277VAC 50/60 Hz.
- Sealed, maintenance-free Nickel-Cadmium battery provides 90 minutes of emergency operation.
- Battery recharges per UL924 requirements.
- Each unit comes standard with one tamper-proof driver bit.

Power Consumption (LED Exit Signs)

Model	AC Specs		DC Specs	
AC-only	120 to 277VAC	1.2W	–	–
AC/DC	120 to 277VAC	1.2W	6 to 24VDC	Less than 1.5W
Self-Powered	120 to 277VAC	3.7W	Nickel-Cadmium	Min. 90 minutes

How to Order

HOUSING COLOR	SERIES	FACE	LEGEND	DIAGNOSTIC	HOUSING	OPTIONS
BB= Black/black **BW**= Black/white **BA**= Black/aluminum **GB**= Gray/black **GW**= Gray/white **GA**= Gray/aluminum **WB**= White/black **WW**= White/white **WA**= White/aluminum	**SVX**= AC only **SVXN**= Self-Powered Ni-Cd	**1**= Single **2**= Double	**R**= Red **G**= Green	**Blank**= Standard **D**= Diagnostic (Self-Powered only) **NEX**= NEXUS® wired (consult your sales representative) **NEXRF**= NEXUS® wireless (consult your sales representative)	**4X**= Wet/Damp Locations*	**Blank**= No options **2CKT**= Dual circuit (AC only)* **CW**= Cold weather (Self-Powered -4°F to 77°F / -20°C to 25°C – AC/DC -40°F to 77°F / -40°C to 25°C) **DC**= 6 to 24 VDC** **FA**= Fire alarm activated flasher* **FL**= Flasher only* **FZ**= Flasher/buzzer (Self-Powered only)*
					* NEMA 4X rated for wall or ceiling mount only	*Not available with Nexus® option **Not available with Self-Power

Example: **BBSVXN1RD4X-FA**

TYPE: _____ X1

CATALOG #: _____

NOTES: _____

AD ADVANCED DIAGNOSTICS   **NEMA-4X nexus®**   NSF   UL

Survive-All™ SVX Exit Series
NEMA-4X Rated and UL Listed for Wet and Damp Locations

Features

Reliability

The Survive-All™ SVX Series has a 5-year limited warranty, including light source

Detailed warranty terms located at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

Unit Data - NEMA-4X* Rated

Rugged polyvinyl chloride body will not dent, peel, rust or corrode. The sealed faceplate is constructed of heavy duty, vandal-resistant polycarbonate and features an evenly illuminated legend. The fully gasketed faceplate is fastened with stainless steel tamper-resistant screws. Magnetically operated test switch. Models can be wall, or ceiling mounted. Legend and chevron complies with UL and CSA requirements.

Survive-All™ SVX Series signs are unaffected by the vibrations, ambient temperature swings and typical power surges detrimental to standard exit light sources.

NEMA 4X* Rated. UL924 Listed. Listed for wet and Damp Locations 50°F to 104°F (+10°C/+40°C)

5-year limited warranty

Detailed warranty terms located at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

* Nema-4X Certified for wall or ceiling mounting only

Accessories (order as a separate item)

DESCRIPTION	PART NUMBER
Tamper-proof bit	690.0454-E
Convert single to double face, red	DFKR*
Convert single face to double face, green	DFKG*

* Colors available AL-BK-WT

Applications

• Hosedown areas / car washes	• Transit platforms
• Food processing / preparation facilities	• Sports arenas / swimming pools
• Marine locations	• Security areas / prisons
• Chemical plants	• Warehouse and cold
• Schools and other public facilities	storage facilities
• Parking garages	• Heavy industrial facilities
• Food processing / preparation facilities	

Note: Units installed outdoors must be in a shaded area (Lead-Calcium batteries)

Suggested Specification

Supply and install the **Emergi-Lite® SVX Series LED** exit signs. The signs shall be listed to UL924. The exit housing shall be molded polyvinyl chloride in either white or black. A universal mounting pattern shall be available on single face signs for back mounting to a wall or surface. All models shall come equipped with a canopy for ceiling or end mount applications. The faceplate and canopy shall have gasketing available for a secure, watertight seal. Vandal proof screws shall be provided for securing the faceplate(s). Light Source: Shall be high intensity, long-life light emitting diodes (LED's). LED's shall provide even illumination, at the same intensity during AC operation and in the the emergency mode. LED's shall be mounted within the exit housing but not along the face or wording. An LED sensitive ink diffuser shall be mounted on the face to provide full 3/4" letter stroke with even illumination. Red LED technology shall be ALINGAP. Self Powered Models: Shall have a Nickel-Cadmium battery for long, maintenance-free life. In the emergency mode the battery shall provide a minimum of 90 minutes run time. Self Testing/Self-diagnostics shall be standard on all self powered signs. The circuit shall have a single "service required" LED visible to the user. A detailed diagnostic display will be found internally to the unit and isolate the fault to the batter y charger board or LED lamps.

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The unit shall be **Emergi-Lite®** model: _____.

Self-Diagnostic/Self-Test Feature (Standard)

Self-Diagnostic circuitry is standard on all self-powered models. This circuitry is programmed to ensure the exits readiness and reliability by continuously monitoring every critical function of the unit. If a problem occurs, a single service required indicator illuminates immediately. A detailed diagnostic display is located on the inside of the exit sign... out of sight from the general public will further indicate the nature of the fault. The self testing software will test the unit for 30 seconds ever y 30 days, 30 minutes every 60 days and 90 minutes annually.

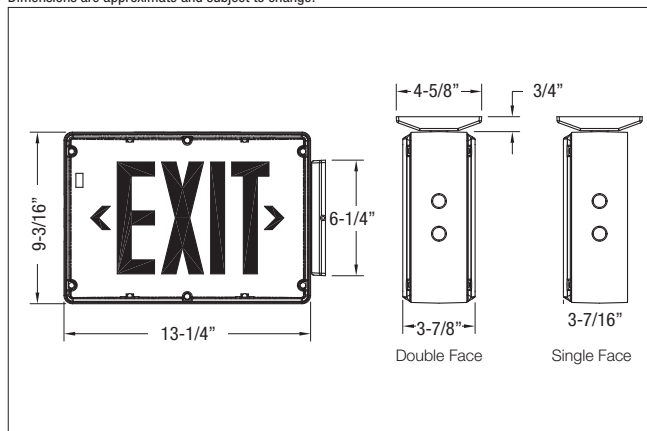## Battery Warranty*

Unit carries a 5-year Full Warranty.

Battery Warranty*

Sealed Nickel-Cadmium batteries has a 10 year life expectancy and carries a 5-year Full Warranty, plus a 5-year pro rata warranty.

* Subject to proper installation and maintenance.

⊫ EMERGI-LITE®

Dimensions
Dimensions are approximate and subject to change.

Double Face   Single Face

4-5/8"   3/4"
9-3/16"
6-1/4"
13-1/4"
3-7/8"
3-7/16"

High Performance Circuitry

- Self Contained – Batteries and circuitry located inside the exit housing.
- Continuous self-diagnostic monitoring and monthly self testing.
- Fully automatic charger is solid state.
- AC, AC/DC and Self-Powered Models have universal, 2-wire input 120V to 277VAC 50/60 Hz.
- Sealed, maintenance-free Nickel-Cadmium battery provides 90 minutes of emergency operation.
- Battery recharges per UL924 requirements.
- Each unit comes standard with one tamper-proof driver bit.

Power Consumption (LED Exit Signs)

Model	AC Specs		DC Specs	
AC-only	120 to 277VAC	1.2W	–	–
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					* NEMA 4X rated for wall or ceiling mount only	*Not available with Nexus® option **Not available with Self-Power

Example: **BBSVXN1RD4X-FA**