ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
UPL22-WH

Notes:

Type:

A

ELA-LI11-17083

I1.1.7

JUNO®

UNDERCABINET LIGHTING

PRO-SERIES LED
3000K LEDs

UPL09, UPL14, UPL22 and UPL30

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

PRODUCT DESCRIPTION

The Pro-Series LED modular series with integral electronic driver operates 3000K LEDs for maintenance free 50,000 hour life using 1/8 the energy and virtually no heat when compared to halogen & xenon. Pro-Series LED fixtures are optimized for fast permanent installation, mounting either flush to the rear backsplash or to the front lip of cabinetry to suit project conditions and homeowner preference. Pro-Series LED fixtures are environmentally friendly and contain no harmful mercury.

PRODUCT SPECIFICATIONS

LEDs Utilizes Nichia nominal 1-watt warm-white 3000K LEDs
• Light output equivalent to Pro-Halogen & Pro-Xenon fixture series
• Provides 50,000 hour service life.

Driver Integral electronic 120-volt to 300mA constant current driver is accessible without having to remove fixture.

Housing Slim 1" profile • Modular plug-together design
• Extruded Aluminum • Designer white, black, brushed bronze, or brushed silver.

Diffuser Clear prismatic tempered glass lens for maximum light transmission • Reverse-angled to minimize perceived brightness.

Switch Convenient integral On/Off rocker switch.

Labels UL Listed.

INSTALLATION

UPL series fixtures are optimized with a center rear wiring access compartment and push-in 3-wire electrical connectors for quick electrical connection without having to open the fixture or remove the lens. Rear wiring access compartment covers provided with push-in connector for non-metallic cable and knockouts for feed thru wiring capability. Multiple off-center knockouts provided in 14", 22" and 30" fixtures. Die-cast fitting for 3/8" flexible metal conduit supplied in a hardware pack. Fixtures may be mounted flush to the backsplash or up against the front lip of the cabinetry using captive mounting screws.

Portable To install as a portable fixture, use the optional 3-wire grounded cord & plug (ULH-CP sold separately).
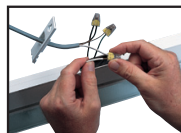
Optional Direct Wire Optional direct-wire module (ULH-DWM sold separately) facilitates code-compliant installation of fixture at front edge of cabinetry. Supplied with 36" field-shortenable jumper cord to bring power to either end of the fixture.

Electrically Connecting Multiple Fixtures Connect multiple fixtures for up to 5 amps maximum combined operating current. Fixtures may be electrically joined together using either the straight joiner connector supplied with each fixture or the optional JC3 jumper cords. See accessories table for lengths and colors. See engineering data table for input current draw of each fixture size.

PRO-SERIES LED 5 MINUTE DIRECT-WIRE INSTALLATION

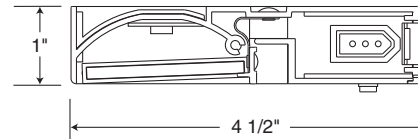

Step 1 Attach supply wires to rear access cover.

Step 2 Connect supply wires to fixture leads using push-in connectors.

Step 3 Mount fixture to cabinet bottom using captive mounting screws.

DIMENSIONS

EcoLEDgy Driven

1"

4 1/2"

ENGINEERING DATA

	UPL09	UPL14	UPL22	UPL30
Total input power (watts)	3	5	7.4	9.5
Total Operating AMPS	.07	.09	.14	.17
Efficacy (lumens/watt)	43	49	51	52

PRODUCT CODES

Catalog Number	Finish	Overall Length	Number of 1W LEDs
UPL09-BL	Black	9 1/2"	2
UPL09-BZ	Brushed Bronze	9 1/2"	2
UPL09-SL	Brushed Silver	9 1/2"	2
UPL09-WH	Designer White	9 1/2"	2
UPL14-BL	Black	14"	4
UPL14-BZ	Brushed Bronze	14"	4
UPL14-SL	Brushed Silver	14"	4
UPL14-WH	Designer White	14"	4
UPL22-BL	Black	22"	6
UPL22-BZ	Brushed Bronze	22"	6
UPL22-SL	Brushed Silver	22"	6
UPL22-WH	Designer White	22"	6
UPL30-BL	Black	29 1/4"	8
UPL30-BZ	Brushed Bronze	29 1/4"	8
UPL30-SL	Brushed Silver	29 1/4"	8
UPL30-WH	Designer White	29 1/4"	8

ACCESSORIES

Catalog No.	Description
JC3-8-WH,-BL	8" Jumper Cord
JC3-17-WH,-BL	17" Jumper Cord
JC3-26-WH,-BL	26" Jumper Cord
ULH-CONN	3/8" Miniature Die-Cast Electrical Connector
ULH-CP-WH,-BL	3-Wire Grounded Cord & Plug
ULH-DWM-WH,-BL	Direct-Wire Module

JUNO LIGHTING GROUP
by Schneider Electric

I1.1.7

UNDERCABINET LIGHTING

PRO-SERIES LED

3000K LEDs

UPL09, UPL14, UPL22 and UPL30

LIGHTING APPLICATION DATA

FOOTCANDLES ON HORIZONTAL WORK SURFACE

			Footcandles			
Cat #	**Number of LEDs**	***Beam Width**	**A**	**B**	**C**	**D**
UPL09	(2) 1-watt LEDs	20"	12	37	17	13
UPL14	(4) 1-watt LEDs	23"	22	64	31	24
UPL22	(6) 1-watt LEDs	27"	30	86	41	31
UPL30	(8) 1-watt LEDs	32.5"	35	97	50	38

*Beam width defined as 50% of maximum footcandles

Fixture mounted at front lip of cabinet

Rear wall reflectance 50%

Counter Surface Reflectance 20%

ELA	**Job Name:** 67 Liberty st - NEW SPEC	**Catalog Number:** UPL30-WH	**Type:**
		Notes:	**A**
			ELA-LI11-17083

I1.1.7

JUNO®

UNDERCABINET LIGHTING

PRO-SERIES LED

3000K LEDs

UPL09, UPL14, UPL22 and UPL30

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

PRODUCT DESCRIPTION

The Pro-Series LED modular series with integral electronic driver operates 3000K LEDs for maintenance free 50,000 hour life using 1/8 the energy and virtually no heat when compared to halogen & xenon. Pro-Series LED fixtures are optimized for fast permanent installation, mounting either flush to the rear backsplash or to the front lip of cabinetry to suit project conditions and homeowner preference. Pro-Series LED fixtures are environmentally friendly and contain no harmful mercury.

PRODUCT SPECIFICATIONS

LEDs Utilizes Nichia nominal 1-watt warm-white 3000K LEDs
• Light output equivalent to Pro-Halogen & Pro-Xenon fixture series
• Provides 50,000 hour service life.

Driver Integral electronic 120-volt to 300mA constant current driver is accessible without having to remove fixture.

Housing Slim 1" profile • Modular plug-together design
• Extruded Aluminum • Designer white, black, brushed bronze, or brushed silver.

Diffuser Clear prismatic tempered glass lens for maximum light transmission • Reverse-angled to minimize perceived brightness.

Switch Convenient integral On/Off rocker switch.

Labels UL Listed.

INSTALLATION

UPL series fixtures are optimized with a center rear wiring access compartment and push-in 3-wire electrical connectors for quick electrical connection without having to open the fixture or remove the lens. Rear wiring access compartment covers provided with push-in connector for non-metallic cable and knockouts for feed thru wiring capability. Multiple off-center knockouts provided in 14", 22" and 30" fixtures. Die-cast fitting for 3/8" flexible metal conduit supplied in a hardware pack. Fixtures may be mounted flush to the backsplash or up against the front lip of the cabinetry using captive mounting screws.

Portable To install as a portable fixture, use the optional 3-wire grounded cord & plug (ULH-CP sold separately).
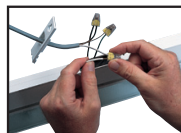
Optional Direct Wire Optional direct-wire module (ULH-DWM sold separately) facilitates code-compliant installation of fixture at front edge of cabinetry. Supplied with 36" field-shortenable jumper cord to bring power to either end of the fixture.

Electrically Connecting Multiple Fixtures Connect multiple fixtures for up to 5 amps maximum combined operating current. Fixtures may be electrically joined together using either the straight joiner connector supplied with each fixture or the optional JC3 jumper cords. See accessories table for lengths and colors. See engineering data table for input current draw of each fixture size.

PRO-SERIES LED 5 MINUTE DIRECT-WIRE INSTALLATION

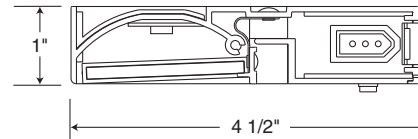**Step 1** Attach supply wires to rear access cover.

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Step 3 Mount fixture to cabinet bottom using captive mounting screws.

DIMENSIONS

EcoLEDgy Driven

1"

4 1/2"

ENGINEERING DATA

	UPL09	UPL14	UPL22	UPL30
Total input power (watts)	3	5	7.4	9.5
Total Operating AMPS	.07	.09	.14	.17
Efficacy (lumens/watt)	43	49	51	52

PRODUCT CODES

Catalog Number	Finish	Overall Length	Number of 1W LEDs
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UPL09-BZ	Brushed Bronze	9 1/2"	2
UPL09-SL	Brushed Silver	9 1/2"	2
UPL09-WH	Designer White	9 1/2"	2
UPL14-BL	Black	14"	4
UPL14-BZ	Brushed Bronze	14"	4
UPL14-SL	Brushed Silver	14"	4
UPL14-WH	Designer White	14"	4
UPL22-BL	Black	22"	6
UPL22-BZ	Brushed Bronze	22"	6
UPL22-SL	Brushed Silver	22"	6
UPL22-WH	Designer White	22"	6
UPL30-BL	Black	29 1/4"	8
UPL30-BZ	Brushed Bronze	29 1/4"	8
UPL30-SL	Brushed Silver	29 1/4"	8
UPL30-WH	Designer White	29 1/4"	8

ACCESSORIES

Catalog No.	Description
JC3-8-WH,-BL	8" Jumper Cord
JC3-17-WH,-BL	17" Jumper Cord
JC3-26-WH,-BL	26" Jumper Cord
ULH-CONN	3/8" Miniature Die-Cast Electrical Connector
ULH-CP-WH,-BL	3-Wire Grounded Cord & Plug
ULH-DWM-WH,-BL	Direct-Wire Module

REV-3/10

JUNO LIGHTING GROUP
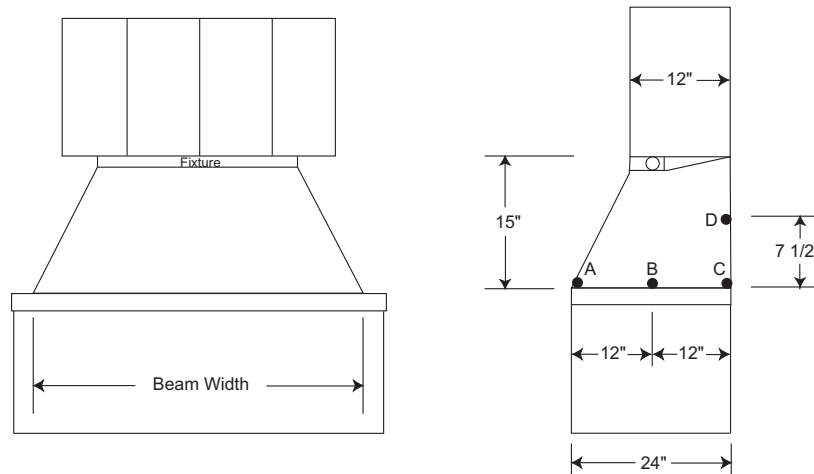by Schneider Electric

I1.1.7

UNDERCABINET LIGHTING

PRO-SERIES LED
3000K LEDs
UPL09, UPL14, UPL22 and UPL30

LIGHTING APPLICATION DATA

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			Footcandles			
Cat #	Number of LEDs	*Beam Width	A	B	C	D
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UPL22	(6) 1-watt LEDs	27"	30	86	41	31
UPL30	(8) 1-watt LEDs	32.5"	35	97	50	38

*Beam width defined as 50% of maximum footcandles

Fixture mounted at front lip of cabinet

Rear wall reflectance 50%

Counter Surface Reflectance 20%

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
P1451613

Notes:

Type:

B-ALT

ELA-LI11-17083

P420-084
1 Light Pendant
Brushed Nickel
6½dia. 19½h
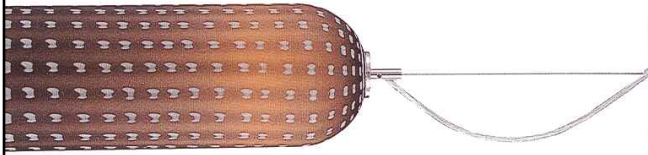Adjustable to 25½h min. 112h max.
1-60W Medium Base *

P971-647
1 Light Mini-Pendant
Copper Bronze Patina
3dia. 13¼h
Adjustable to 20h min. 56h max.
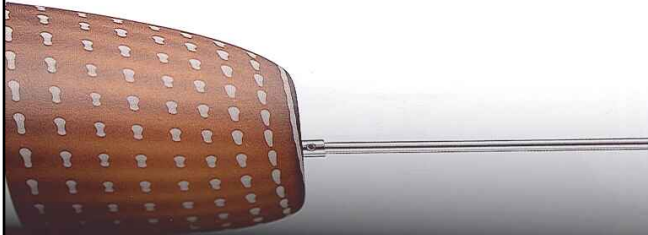1-35W GU10 Halogen (Incl.)
Clear Seeded Glass

P1451-613
1 Light Mini-Pendant
Polished Nickel
4w 8h 4d
Adjustable to 10h min. 129h max.
1-40W G9 Xenon (Incl.)
Clear/Inside Etched Glass

P422-084
1 Light Pendant
Brushed Nickel
9dia. 18h
Adjustable to 24h min. 120h max.
1-100W Medium Base *

P621-084
1 Light Pendant
Brushed Nickel
9½dia. 18h
Adjustable to 24h min. 120h max.
1-100W Medium Base *
Chocolate Mousse Glass

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:

Notes:

Type:

ELA-LI11-17083

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
AIC104831-1F39-BAL-120-TP01-MOD
Notes:

Type:

C

ELA-LI11-17083

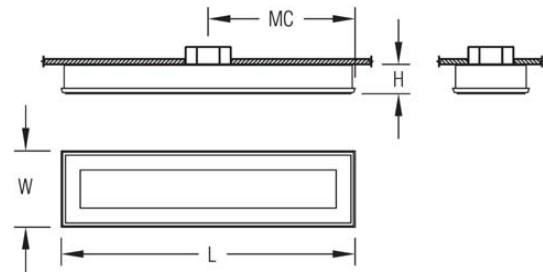**ADVENT** SPECIFICATION SHEET

MONET INTERIOR CEILING
AIC10483

JOB NAME	TYPE
67 liberty	C

With a flash of style and a touch of class, Advent Monet makes a lasting impression. Distinctive motifs provide an artistic twist, while vivid color gels and luminous glowing edges complete an energetic design. The Monet family consists of interior sconces, pendants and ceiling mounts, as well as exterior wall mounts. Efficient linear fluorescent lamping and long-lasting LED options allow Monet to empower a space in a simple, elegant form. Monet's interior ceiling luminaires are UL listed for Damp Locations and is surface mounted, fully recessed models also available. In addition to being compatible with the Armstrong® TechZone™ Ceiling System, Monet's ceiling mounts allow a lighting design to envelope an entire space. Interior Monet's white or optional colored face is balanced by a matching or white luminous edge

Dimensions

W	L	H	MC
6.7 in	38.0 in	2.5 in	19.0 in
17.0 cm	96.5 cm	6.4 cm	48.3 cm

Weight
Hanging weight: 25.0 lb (11.4 kg).

Features
- Formed metal construction provides durable protection for internal components and is recyclable.
- Fixture design allows relamping without the use of tools, simplifying maintenance.
- External fasteners are not visible, providing a clean fixture design.
- Acrylic lens gives the fixture a unique identity with light reflected through the polished edge.
- Durable wood laminate faceplate option adds a warm, natural texture to a space.
- Fixture adds a splash of color to a space with theatrical color gels. Standard colors are available with other colors available upon request. Contact factory to customize a color gel that coordinates with your application.
- Embossed stainless steel-linear and crosshatch face plate option adds a unique, metal accent and texture to a space.
- Embossed stainless steel-linear face plate option adds a unique, metal accent and texture to a space.
- Standard thermoset polyester powder coat paint provides durable protection in a palette of color options. Custom colors available upon request.
- Integral electronic ballast utilizes the latest energy-saving technology to maintain consistent color temperature, CRI and lumen maintenance, while eliminating the need for remote mounting and simplifying installation.
- Integral 24V LED, Class II power supply included, eliminating the need for remote mounting, simplifying installation.

Technical Notes
Construction
- Optional motif is black, unless specified.

Electrical
- Fluorescent versions have integral electronic ballasts utilizing the latest energy-saving technology, providing prolonged lamp life and maintaining consistent color.
- Meets NEC 410.73 double-ended, fluorescent lamp ballast disconnect requirements.

- ETL listed to UL standards (US and Canada) for use in damp locations. Not recommended for exterior applications.

Lamping/lamp
- Fluorescent lamps are 3500K unless specified.
- Lamps included, with the exception of T8, T5 and incandescent.

Mounting
- Mounts to standard 4" octagonal junction box.
- Additional mounting structure and hardware required (by others).

Additional Documents

Color Chart (http://www.specAdvent.com/pdfs/advent_color_chart.pdf)

Job Name:	**Catalog Number:**	**Type:**
67 Liberty st - NEW SPEC	AIC104831-1F39-BAL-120-TP01-MOD	**C**
	Notes:	ELA-LI11-17083

ADVENT SPECIFICATION SHEET

MODEL NUMBER	LAMPING	FINISH	VOLTAGE	OPTIONS	COLOR ACCENTS
AIC10483	1F39DM	BAL	120	TP01	

Not all options are available in all configurations, consult factory for details.

Lamping

			Photometry
☐	1F21	🚫 [1]	1F21WT5/Mini Bipin
☐	1F21DM	🚫 [1]	1F21WT5/Mini Bipin Dimming
☐	1F25		1F25WT8/Med Bipin
☐	1F39	🚫 [1]	1F39WT5HO/Mini Bipin
☐	1F39DM	🚫 [1]	1F39WT5HO/Mini Bipin Dimming

[1] T5 & T8 Fluorescent Linear Lamp(s) Not Included

Voltage

☐	120V	120 Volt
☐	277V	277 Volt

Options

☐	ES1	Embossed Stainless Steel-linear Pattern
☐	ES2	Embossed Stainless Steel-cross Hatch Pattern
☐	FP01	Open
☐	FP02	Boxes
☐	FP03	Cross Ends
☐	FP04	Split
☐	FP05	Split 2
☐	FP06	Prairie
☐	FP07	Thatch
☐	FP08	Squares
☐	FP09	Perforated
☐	FP10	Parquet
☐	FP11	Pinstripe
☐	FP12	Slats
☐	NPC	No Perimeter Color
☐	WF1	Cherry Laminate
☐	WF2	Maple Laminate

Color Accents

☐	CG01	Red Color Gel
☐	CG02	Orange Color Gel
☐	CG03	Green Color Gel
☐	CG04	Blue Color Gel

Painted Finishes

PT01	SuperWhite	PT07	Light Taupe	PT13	Warm Gray	PT19	Blue	PT29	Red Brass	PT42	Sky Blue	PT48	Brass
PT02	White	PT08	Medium Taupe	PT14	Light Gray	PT20	Dark Green	PT31	Medium Bronze	PT43	Teal	PT49	Bronze
PT03	Morning Light	PT09	Medium Gray	PT15	Sage	PT21	Pearl White	PT32	Dark Bronze	PT44	Green		
PT04	Warm White	PT10	Dark Gray	PT16	Spruce	PT22	Platinum	PT33	Dark Blue	PT45	Purple		
PT05	Putty	PT11	Black	PT17	Red	PT27	Deep Copper	PT40	Yellow	PT46	Aluminum		
PT06	Warm Beige	PT12	Dark Chocolate	PT18	Deep Red	PT28	Dark Stainless	PT41	Orange	PT47	Deep Red Brass		

Metal and Plated Finishes

BAL	Brushed Aluminum

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
106-15-T5-22-120-SAL-FAUX

Notes:

Type:

D

ELA-LI11-17083

11 1/2" ∅

1/2"

3"

2 1/2"

12 1/2" ∅

J-BOX BY OTHERS

ELECTRONIC BALLAST

WHITE ALUM MTG PAN

T5 CIRCLINE LAMP
BY OTHERS

WHITE ACRYLIC DIFFUSER
WITH MATTE FINISH

2" ∅ X 3/8" FINIAL

14" ∅

5/8"

3 1/2"

2 7/8"

15" ∅
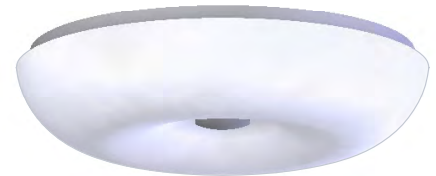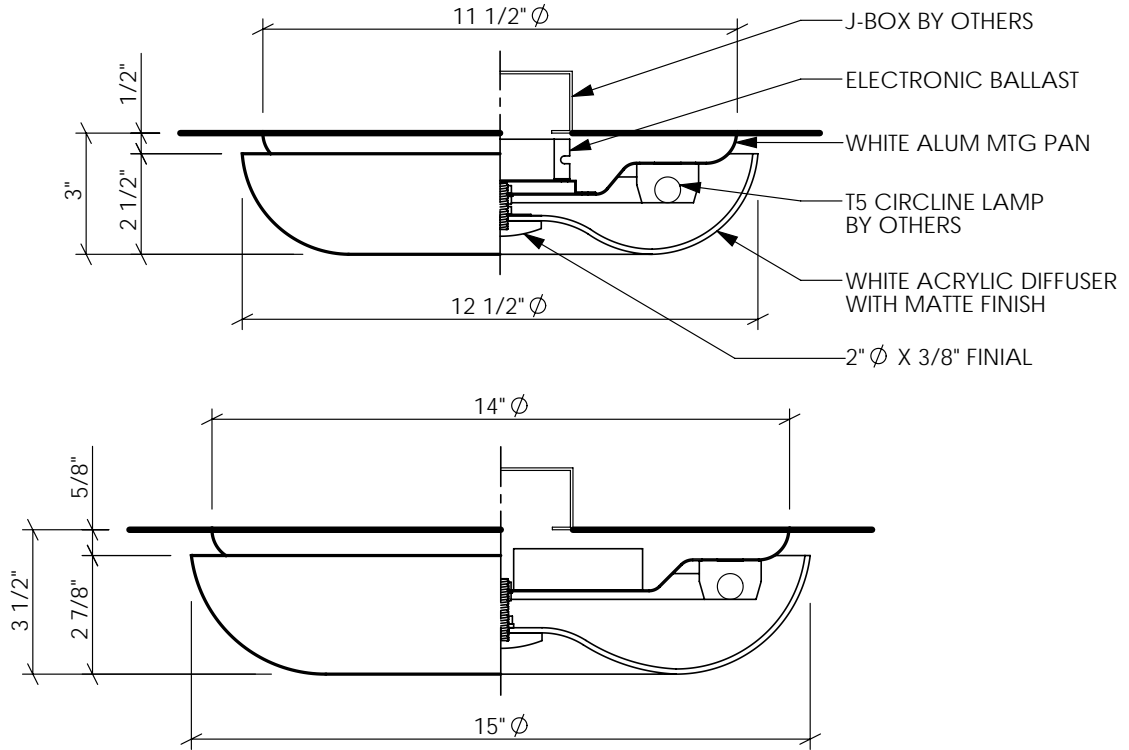
SPEC GUIDE

SAMPLE SPEC: 106-15-ADD-T5/40-120-SAL-FAUX

CAT#	-	SIZE	-	LAMPING	-	VOLT	-	FINISH	-	OPTION
❏ 106		❏ 12		❏ T5/22		❏ 120		❏ SAL		❏ FAUX
		❏ 15		❏ T5/40		❏ 277		❏ SB		❏ IEM
				❏ T5/55				❏ CCP		

BORDEN LIGHTING

999 Montague Street
San Leandro, CA 94577
510-357-0171 Fax 510-357-3832
www.bordenlighting.com

PROJECT	TYPE		
SPECIFIER	SCALE 3" = 1' - 0"		
PRODUCT SPEC	DATE		
	DWN MY	CKD RB	
NOTE:	SPEC NO		
	106-12		
UL & IBEW LABELED ■ DRY ☐ DAMP ☐ WET	**106-15**		

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:

Type:

Notes:

ELA-LI11-17083

P5041-077/PL
1 Light Bath
Chrome
49w 37¾h 4⅜ext.
Domed Etched Opal Glass

P5041-077/PL
PL Version

P5041-64/7B
1 Light Bath
Painted Copper Bronze Patina
49w 12½h 4⅜ext.
1-60W T10 Medium Base*
Domed Etched Opal Glass

P5041-077
1 Light Bath
Chrome
1-60W T10 Medium Base*
Domed Etched Opal Glass

P5041-084
1 Light Bath
Brushed Nickel
1-60W T10 Medium Base*
Domed Etched Opal Glass

P5042-077/PL
2 Light Bath
Chrome
2-13W (2L)/4 Pin (Incl.)
Domed Etched Opal Glass
May be mounted vertically

P5042-64/7B
2 Light Bath
Painted Copper Bronze Patina
2-60W T10 Medium Base*
Domed Etched Opal Glass
May be mounted vertically

P5042-077
2 Light Bath
Chrome
2-60W T10 Medium Base*
Domed Etched Opal Glass
May be mounted vertically

P5042-084
2 Light Bath
Brushed Nickel
2-60W T10 Medium Base*
Domed Etched Opal Glass
May be mounted vertically

P5916-077
6 Light Bath
Chrome
8-40W (B) Xenon (Incl.)
Frosted Glass
May be mounted vertically
ADA Compliant

P5914-077
4 Light Bath
Chrome
4-40W (B) Xenon (Incl.)
Frosted Glass
May be mounted vertically
ADA Compliant

P5913-077
3 Light Bath
Chrome
3-40W (B) Xenon (Incl.)
Frosted Glass
May be mounted vertically
ADA Compliant

P5912-077
2 Light Bath
Chrome
2-40W (B) Xenon (Incl.)
Frosted Glass
ADA Compliant

RINGS

BATH ART COLLECTION

GEORGE KOVACS

179

Submitted by Electric Lighting Agencies, Inc.
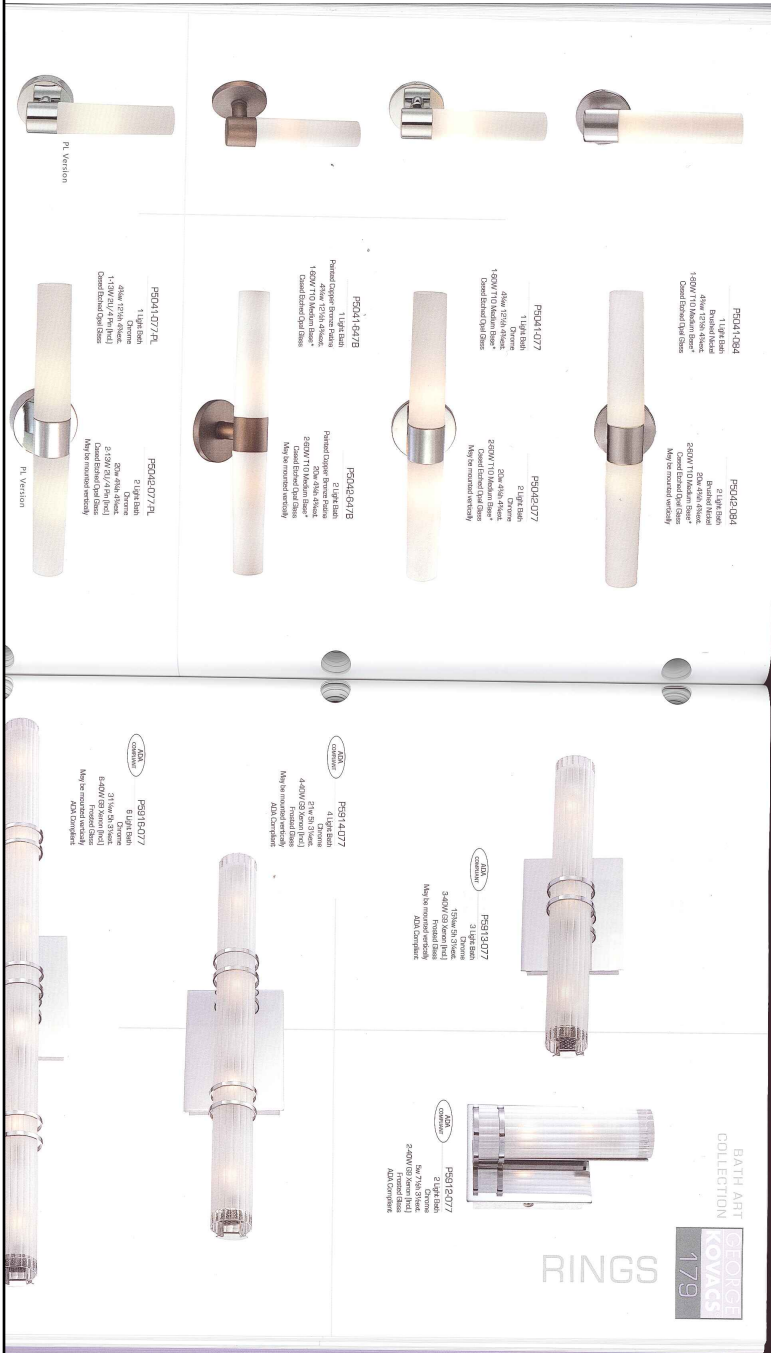
ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:

Type:

Notes:

ELA-LI11-17083

Submitted by Electric Lighting Agencies, Inc.

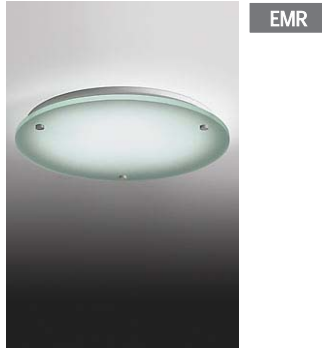| | **Job Name:** 67 Liberty st - NEW SPEC | **Catalog Number:** AIC8117 -2F26-BAL **Notes:** | **Type:** **F** ELA-LI11-17083 |

ADVENT SPECIFICATION SHEET

ROSWELL INTERIOR CEILING
AIC8117

EMR

The signature of the Roswell is its 1/2" thick green tint acrylic lens with a frosted inner surface and polished outer edge, giving the effect of glass without the additional expense or weight. Choose from a palette of both painted and metal finishes.

JOB NAME
67 LIBERTY

TYPE
F
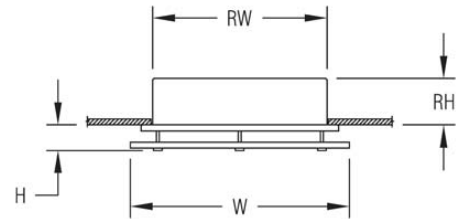
Dimensions

W	H	RW	RH
14.5 in	2.0 in	10.5 in	2.7 in
36.8 cm	5.1 cm	26.7 cm	6.9 cm

Weight
Hanging weight: 25.0 lb (11.4 kg).

Features
- Frosted acrylic trim provides a unique, subtle green accent.
- Integral electronic ballast utilizes the latest energy-saving technology to maintain consistent color temperature, CRI and lumen maintenance, while eliminating the need for remote mounting and simplifying installation.

Technical Notes

Electrical
- ETL listed to UL standards (US and Canada) for use in damp locations. Not recommended for exterior applications.
- Fluorescent versions have integral electronic ballasts utilizing the latest energy-saving technology, providing prolonged lamp life and maintaining consistent color.

Lamping/lamp
- Lamps included, with the exception of T8, T5 and incandescent.
- Fluorescent lamps are 3500K unless specified.

Mounting
- Requires recessed mounting.

Additional Documents

Color Chart (http://www.specAdvent.com/pdfs/advent_color_chart.pdf)

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
AIC8117 -2F26-BAL

Notes:

Type:

F

ELA-LI11-17083

ADVENT SPECIFICATION SHEET

MODEL NUMBER	LAMPING	FINISH	VOLTAGE	LAMP OPTIONS	OPTIONS
AIC8117	2F26	BAL	120		

Not all options are available in all configurations, consult factory for details.

Lamping   Photometry

☐	2F13	2CFQ13W/G24q
☐	2F26	2CFQ26W/G24q

Voltage

☐	120V	120 Volt
☐	277V	277 Volt

Lamp Options

☐	EMR	Emergency Ballast Remote

Options

☐	OA	Opal Acrylic

Painted Finishes

PT01	SuperWhite	PT07	Light Taupe	PT13	Warm Gray	PT19	Blue	PT29	Red Brass	PT42	Sky Blue	PT48	Brass
PT02	White	PT08	Medium Taupe	PT14	Light Gray	PT20	Dark Green	PT31	Medium Bronze	PT43	Teal	PT49	Bronze
PT03	Morning Light	PT09	Medium Gray	PT15	Sage	PT21	Pearl White	PT32	Dark Bronze	PT44	Green		
PT04	Warm White	PT10	Dark Gray	PT16	Spruce	PT22	Platinum	PT33	Dark Blue	PT45	Purple		
PT05	Putty	PT11	Black	PT17	Red	PT27	Deep Copper	PT40	Yellow	PT46	Aluminum		
PT06	Warm Beige	PT12	Dark Chocolate	PT18	Deep Red	PT28	Dark Stainless	PT41	Orange	PT47	Deep Red Brass		

Metal and Plated Finishes

BAL	Brushed Aluminum	PBR	Polished Brass	SNBR	Satin Nickel Brass	
BBR	Brushed Brass	CPBR	Chrome Plated Polished Brass			

P6.2.1

Aculux®
Precision Recessed Lighting

RECESSED DOWNLIGHT
3-1/4" LENSED TRIM
TC Rated, 75W MR16
TC43SQ, 432SQ TRIM

PRODUCT DESCRIPTION

Recessed MR16 downlight luminaire with 3¼" square aperture die cast reflector and tempered glass to protect lamp against water. Fixture has 50° visual cutoff to lamp and lamp image. Sealed Air-Loc housing eliminates leak-paths to ensure maximum energy savings and controls plenum sound transmission. Low profile TC housing is ideal for space restricted plenum applications and is for use in non-insulated areas, or where insulation is spaced at least 3" from housing.

PRODUCT SPECIFICATIONS

Reflector Lensed, Die cast, parabolic reflector maintains low glare, tight corners, and 50° lamp and lamp image cut-off • Available in haze, black haze, wheat haze, or white finishes.

Trims Style Self Flanged and Flush Mount reflectors utilize precision wound double torsion springs for tight, secure fit to ceiling • Flange is same finish as reflector unless optional painted white flange is specified • Flush Mount trims must be used with FMASQ4 Flush Mount Adapter.

Lens Lampholder accommodates up to three (3) 2" captive accessory lenses • Supplied with stippled clear uniformity lens.

Socket Ceramic bi-pin socket with double blade nickel alloy contacts • Quick disconnect for simplified maintenance.

Lamp One 75W MR16 lamp.

Transformer 120V High efficiency (>90%) dual tap magnetic, toroidal transformer has a boost tap to compensate for dimmer losses, improving color temperature and lumen output • Potted to eliminate noise and vibration • High efficiency (>94%), high power factor electronic transformer also available.

Dimming May be dimmed using dimmers specifically designed for low voltage magnetic or electronic transformers; consult factory or dimmer manufacturer for additional information.

Codes/Labels UL and cUL listed for through branch wiring, wet locations • Meets energy code Air Leakage requirements per ASTM E283 • Product thermally protected against improper use of lamps • Union made.

Proprietary Bar Hanger System Patent pending Pro-VI™, telescoping bar hanger system with locking set screws, permits quick placement of housing within 24" O.C. joists or suspended ceilings • Robust bar eliminates flexing regardless of fixture position • Integral T-bar notch with locking tabs secures housing to suspended ceiling grid • Captive bugle-headed ring shank nail for quick one-step installation • Bar Hanger foot aligns to bottom of construction joist and breaks away for use in suspended ceilings.

Junction Box Rated for 8 No. 12 AWG 90° C through branch circuit conductors and includes (5) ½", (1) ¾", and (4) Non-metallic sheathed cable knock-outs • Push-In electrical connectors for field connections.

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

DIMENSIONS

13 3/4"
Will expand to 24 3/8"
(Reduces to 9 1/4" with breakaway feature)

13 1/2"

18"

5 7/16"

3 1/4"

A

4 1/8" CEILING CUTOUT
(4 1/4" FOR FLUSH MOUNT)

	A
Self Flanged	4 1/2"
Flush Mount	3 5/8"

Housing/Mounting Frame Black steel plaster frame and housing painted for visually dark interior • V-Notch in plaster frame aids fixture alignment during installation • Patent Pending Tru-Line™ Adjustment Mechanism featuring +/- ½" translation and +/- 45° aperture rotation aids fixture alignment after installation, prior to drywall.

Ceiling Thickness ½" – 7/8" ceiling standard • For thicker ceilings, order CTA4SQ-125 (7/8"-1¼"), CTA4SQ-163 (1¼"-1 5/8") or CTA4SQ-200 (1 5/8" – 2").

Housings

Catalog #	Description
TC43SQ	Low Voltage Recessed Magnetic Transformer, 120V
TC43SQ-E1	Low Voltage Recessed Electronic Transformer, 120V

Accessories

Cat. #	Description	Cat. #	Description
T741	Med. Pink Color Filter	T7411	Blue Green Dichroic Lens
T742	Warm Red Color Filter	T7416	Daylight Blue Correction Lens
T743	Daylight Blue Color Filter	T7420	Diffuse Spread Lens
T744	Med. Blue Color Filter	T7422	UV Filter Lens
T745	Med. Amber Color Filter	T7477	Prismatic Lens
T746	Med. Green Color Filter	T7478	Linear Spread Lens
T7401	Red Dichroic Lens	T7459BL	Hexcell Louver
T7403	Med. Green Dichroic Lens	FMASQ4	Flush Mount Adapter
T7404	Med. Blue Dichroic Lens	CTA4SQ-125	1 1/4" Thick Ceiling Adapter
T7405	Yellow Dichroic Lens	CTA4SQ-163	1 5/8" Thick Ceiling Adapter
T7406	Magenta Dichroic Lens	CTA4SQ-200	2" Thick Ceiling Adapter

To order, specify catalog number.

REV-4/10

Downlight Lensed Trim

Self Flanged[1]	Flush Mount[2]	Description
432SQBHZ-SF	432SQBHZ-FM	Black Haze Reflector
432SQHZ-SF	432SQHZ-FM	Haze Reflector
432SQW-SF	432SQW-FM	White Reflector
432SQWHZ-SF	432SQWHZ-FM	Wheat Haze Reflector

[1] For self flanged reflector with optional white painted flange, replace "-SF" suffix with "-SFWH".

[2] Flush Mount trims must be used with FMASQ4 Flush Mount Adapter, ordered separately.

Product specifications subject to change without notice.

JUNO LIGHTING GROUP
by Schneider Electric
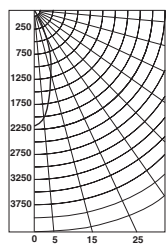
P6.2.1

PHOTOMETRIC REPORT

Catalog Number: TC43SQ (432SQHZ-SF)
Test Number: PT001102602
Total Luminaire Efficiency: 65.3%
Luminaire Spacing Criteria: 0.53
Luminaire: Haze finish, square lensed shower trim.
Lamps: One 50MR16/IR/FL35/C, rated at 1200 total lumens.

Initial Footcandles

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Footcandles Beam Edge	Beam Diameter
6'	60.7	26.8	3.5'
7'	44.6	19.7	4.1'
8'	34.1	15.1	4.7'
9'	27.0	11.9	5.3'
10'	21.8	9.6	5.9'
11'	18.0	8.0	6.5'
12'	15.2	6.7	7.0'
13'	12.9	5.7	7.6'
14'	11.1	4.9	8.2'
15'	9.7	4.3	8.8'

Candlepower Distribution
(Candelas)

Angle	Candela	Lumens
0°	2184	
5°	2033	194
15°	1183	335
25°	434	201
35°	66	41
45°	12	10
55°	3	3
65°	0	0
75°	0	0
85°	0	0

Luminance Data

Ang in Deg	Footlamberts	Candela/M²
45	757	2592
55	208	713
65	0	0
75	0	0
85	0	0

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30°	730	60.8	93.2
0-40°	772	64.3	98.4
0-60°	784	65.3	100.0
0-90°	784	65.3	100.0
90-180°	0	0.0	0.0
0-180°	784	65.3	100.0

AVERAGE INITIAL FOOTCANDLES

Reflectances: 80% Ceiling, 50% Walls, 20% Floors

Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR3	RCR5
4' x 4'	55	50	45
5' x 5'	35	32	29
6' x 6'	24	22	20
7' x 7'	20	18	16
9' x 8'	16	14	13
9' x 9'	12	11	10
10' x 10'	9	8	7
12' x 12'	6	6	5

COEFFICIENTS OF UTILIZATION – % (Zonal Cavity Method)
Effective Floor Reflectance 20%

PCC	80				70				50			30			10			0
PW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	78	78	78	78	76	76	76	76	73	73	73	69	69	69	67	67	67	65
1	75	73	72	71	73	72	71	70	69	68	68	67	66	66	65	64	64	63
2	72	70	67	66	71	68	67	65	66	65	64	65	63	62	63	62	61	60
3	69	66	64	62	68	65	63	61	64	62	60	62	61	59	61	59	58	57
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5	65	60	57	55	64	60	57	55	59	56	54	58	56	54	57	55	54	53
6	62	58	55	53	62	57	55	52	56	54	52	56	53	52	55	53	51	51
7	60	56	53	50	60	55	52	50	54	52	50	54	51	50	53	51	50	49
8	58	53	50	48	58	53	50	48	52	50	48	52	50	48	51	49	48	47
9	56	51	48	46	56	51	48	46	51	48	46	50	48	46	50	48	46	45
10	55	50	47	45	54	49	47	45	49	46	45	49	46	44	48	46	44	44

PHOTOMETRIC REPORT

Catalog Number: TC43SQ (432SQHZ-SF)
Test Number: PT01102702
Total Luminaire Efficiency: 66.4%
Luminaire Spacing Criteria: 0.64
Luminaire: Haze finish, square lensed shower trim.
Lamps: One Q71MR16C/FL40, rated at 1200 total lumens.

Initial Footcandles

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Footcandles Beam Edge	Beam Diameter
6'	47.5	19.4	4.6'
7'	34.9	14.2	5.3'
8'	26.7	10.9	6.1'
9'	21.1	8.6	6.8'
10'	17.1	7.0	7.6'
11'	14.1	5.8	8.3'
12'	11.9	4.8	9.1'
13'	10.1	4.1	9.9'
14'	8.7	3.6	10.6'
15'	7.6	3.1	11.4'
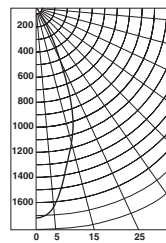
Candlepower Distribution
(Candelas)

Angle	Candela	Lumens
0°	1709	
5°	1647	157
15°	1154	327
25°	525	243
35°	86	54
45°	16	13
55°	3	2
65°	0	0
75°	0	0
85°	0	0

Luminance Data

Ang in Deg	Footlamberts	Candela/M²
45	983	3368
55	192	659
65	0	0
75	0	0
85	0	0

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30°	728	60.6	91.4
0-40°	781	65.1	98.1
0-60°	796	66.4	100.0
0-90°	796	66.4	100.0
90-180°	0	0.0	0.0
0-180°	796	66.4	100.0

AVERAGE INITIAL FOOTCANDLES

Reflectances: 80% Ceiling, 50% Walls, 20% Floors

Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR3	RCR5
4' x 4'	56	50	45
5' x 5'	36	32	29
6' x 6'	25	22	20
7' x 7'	20	18	16
9' x 8'	16	14	13
9' x 9'	12	11	10
10' x 10'	9	8	7
12' x 12'	6	6	5

COEFFICIENTS OF UTILIZATION – % (Zonal Cavity Method)
Effective Floor Reflectance 20%

PCC	80				70				50			30			10			0
PW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	79	79	79	79	77	77	77	77	74	74	74	71	71	71	68	68	68	66
1	76	74	73	72	74	73	72	71	70	69	68	68	67	66	66	65	64	63
2	73	70	68	66	72	69	67	65	67	65	64	65	64	63	63	62	61	60
3	70	67	64	62	69	66	63	61	64	62	60	62	61	59	61	60	58	57
4	67	63	60	58	66	63	60	58	61	59	57	60	58	56	59	57	56	55
5	65	60	57	55	64	60	57	54	59	56	54	57	55	54	57	55	53	52
6	62	57	54	52	61	57	54	52	56	53	51	55	53	51	54	52	51	50
7	60	55	52	49	59	55	51	49	54	51	49	53	51	49	52	50	49	48
8	58	53	49	47	57	52	49	47	52	49	47	51	49	47	50	48	46	46
9	56	50	47	45	55	50	47	45	50	47	45	49	47	45	49	46	45	44
10	54	48	45	43	53	48	45	43	48	45	43	47	45	43	47	45	43	42

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
SEW10355-1F24-120-SOS-ANO1

Notes:

Type:

H

ELA-LI11-17083

STILE SPECIFICATION SHEET

BRACE EXTERIOR WALL
SEW10355

WET
ADA

JOB NAME
67 LIBERTY

TYPE
E

Sleek and modern, the Stile brand provides the clean, appearance desired by today's architects and designers. Brace delivers maximized light output, as well as creates an inviting and comfortable space utilizing efficient T5 and T5HOs. UL listed for wet locations, this wall-mounted fixture offers remote or integral ballasts and various shielding options. Available in two distinct looks, this sleek luminaire presents versions satisfying ADA requirements. It has the ability to add the finishing touch to modern lighting designs, interior or exterior.
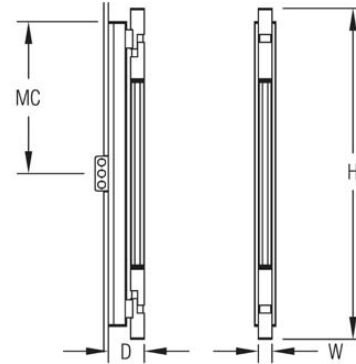
Dimensions

W	H	D	MC
1.5 in	36.6 in	4.0 in	16.8 in
3.8 cm	93.0 cm	10.2 cm	42.7 cm

Weight
Hanging weight: 25.0 lb (11.4 kg).

Features
• Extruded acrylic tube with aluminum end caps maximizes output and creates uniform illumination.
• Integral electronic ballast utilizes the latest energy-saving technology to maintain consistent color temperature, CRI and lumen maintenance, while eliminating the need for remote mounting and simplifying installation.
• Standard thermoset polyester powder coat paint provides durable protection in a palette of color options. Custom colors available upon request.
• Versatile design allows fixture to be mounted in any orientation.

Technical Notes

Electrical
• Thermally protected ballast limits operating temperature.
• Fluorescent versions have integral electronic ballasts utilizing the latest energy-saving technology, providing prolonged lamp life and maintaining consistent color.
• Class "A" sound rated ballast for use in low ambient noise applications.
• ETL listed to UL standards (US and Canada) for use in wet locations.
• Meets NEC 410.73 double-ended, fluorescent lamp ballast disconnect requirements.

Finish
• Housing and mounting components painted to match, unless otherwise specified.

Mounting
• Mounts to 2" x 4" handy box.

Additional Documents

Color Chart (http://www.specStile.com/PDFs/stile_color_chart.pdf)

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
SEW10355-1F24-120-SOS-ANO1

Notes:

Type:

H

ELA-LI11-17083

STILE SPECIFICATION SHEET

MODEL NUMBER	LAMPING	FINISH	VOLTAGE	OPTIONS	OPTIONS FINSH
SEW10355	1F24	AN01	120	SOS	AN01

Not all options are available in all configurations, consult factory for details.

Lamping

			Photometry
☐ 1F14	🚫 ¹	1F14WT5/Mini Bipin	BRACE IES ZIP
☐ 1F24	🚫 ¹	1F24WT5HO/Mini Bipin	BRACE IES ZIP

¹ T5 & T8 Fluorescent Linear Lamp(s) Not Included

Voltage

☐ 120V	120 Volt
☐ 277V	277 Volt

Options

☐ AFT	Frosted Tube
☐ AOS	Asymmetric Opal Shield
☐ APS	Asymmetric Perforated Sreen
☐ ASR	Asymmetric Solid Reflector
☐ CT	Cut-off Tube
☐ SOS	Symmetric Opal Shield
☐ SPS	Symmetric Perforated Shield
☐ SSR	Symmetric Solid Reflector

Painted Finishes

PT01	SuperWhite	PT07	Light Taupe	PT13	Warm Gray	PT19	Blue	PT29	Red Brass	PT42	Sky Blue	PT48	Brass
PT02	White	PT08	Medium Taupe	PT14	Light Gray	PT20	Dark Green	PT31	Medium Bronze	PT43	Teal	PT49	Bronze
PT03	Morning Light	PT09	Medium Gray	PT15	Sage	PT21	Pearl White	PT32	Dark Bronze	PT44	Green		
PT04	Warm White	PT10	Dark Gray	PT16	Spruce	PT22	Platinum	PT33	Dark Blue	PT45	Purple		
PT05	Putty	PT11	Black	PT17	Red	PT27	Deep Copper	PT40	Yellow	PT46	Aluminum		
PT06	Warm Beige	PT12	Dark Chocolate	PT18	Deep Red	PT28	Dark Stainless	PT41	Orange	PT47	Deep Red Brass		

Metal and Plated Finishes

AN01	Anodized Satin Aluminum

Submitted by Electric Lighting Agencies, Inc.

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
SEW10355-1F24-120-SOS-ANO1

Notes:

Type:

H

ELA-LI11-17083

Page 1 of 1

Brace Shielding Options

A Asymmetric Opal Shield
B Asymmetric Perforated Screen
C Asymmetric Solid Reflector
D Symmetric Opal Shield
E Symmetric Perforated Screen
F Symmetric Solid Reflector

3.41"
5.08"

AOS Shield

3.50"
5.02"
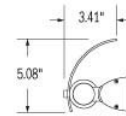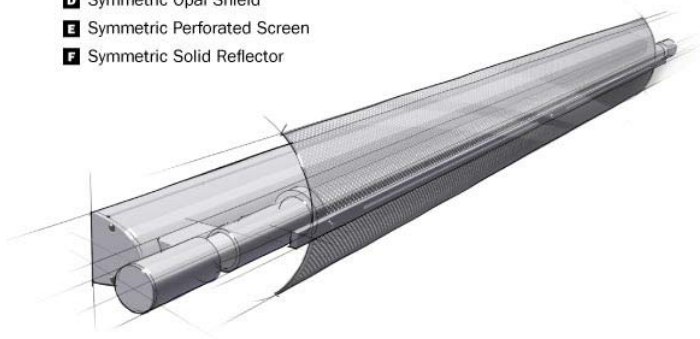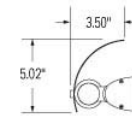
APS and ASR Shields

6.0"
1.5"

SOS Shield

6.0"
1.5"
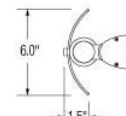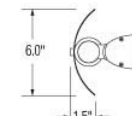
SPS and SSR Shields

Shielding Options

A AOS
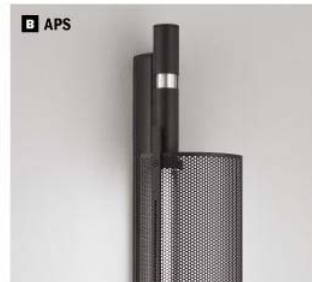
B APS

C ASR

D SOS

E SPS

F SSR

23

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:

Type:

Notes:

ELA-LI11-17083

P6.2.8

AculuX®
Precision Recessed Lighting

RECESSED DOWNLIGHT
1-3/4" REGRESSED PINHOLE APERTURE
TC Rated, 75W MR16
TC43SQ, 4307SQ TRIM

PRODUCT DESCRIPTION

Recessed MR16 downlight luminaire with 1¾" square regressed pinhole aperture. Fixture has 50° visual cutoff to lamp and lamp image. Sealed Air-Loc housing eliminates leak-paths to ensure maximum energy savings and controls plenum sound transmission. Low profile TC housing is ideal for space restricted plenum applications and is for use in non-insulated areas, or where insulation is spaced at least 3" from housing.

PRODUCT SPECIFICATIONS

Reflector .040" aluminum parabolic reflector in black Alzak finish shields housing interior.

Trims Style Die cast Self Flanged and Flush Mount reflectors utilize precision wound double torsion springs for tight, secure fit to ceiling • Flush Mount trims must be used with FMASQ4 Flush Mount Adapter.

Lens Lampholder accommodates up to three (3) 2" captive accessory lenses • Supplied with stippled clear uniformity lens.

Socket Ceramic bi-pin socket with double blade nickel alloy contacts • Quick disconnect for simplified maintenance.

Lamp One 75W MR16 lamp.

Transformer 120V High efficiency (>90%) dual tap magnetic, toroidal transformer has a boost tap to compensate for dimmer losses, improving color temperature and lumen output • Potted to eliminate noise and vibration • High efficiency (>94%), high power factor electronic transformer also available.

Dimming May be dimmed using dimmers specifically designed for low voltage magnetic or electronic transformers; consult factory or dimmer manufacturer for additional information.

Codes/Labels UL and cUL listed for through branch wiring, damp locations • Meets energy code Air Leakage requirements per ASTM E283 • Product thermally protected against improper use of lamps • Union made.

Proprietary Bar Hanger System Patent pending Pro-VI™, telescoping bar hanger system with locking set screws, permits quick placement of housing within 24" O.C. joists or suspended ceilings • Robust bar eliminates flexing regardless of fixture position • Integral T-bar notch with locking tabs secures housing to suspended ceiling grid • Captive bugle-headed ring shank nail for quick one-step installation • Bar Hanger foot aligns to bottom of construction joist and breaks away for use in suspended ceilings.

Junction Box Rated for 8 No. 12 AWG 90° C through branch circuit conductors and includes (5) ½", (1) ¾", and (4) Non-metallic sheathed cable knock-outs • Push-In electrical connectors for field connections.

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

DIMENSIONS

13 3/4" Will expand to 24 3/8" (Reduces to 9 1/4" with breakaway feature)

13 1/2"

18"

5 7/16"

1 3/4"

A

4 1/8" CEILING CUTOUT
(4 1/4" FOR FLUSH MOUNT)

	A
Self Flanged	4 1/2"
Flush Mount	3 5/8"

Housing/Mounting Frame Black steel plaster frame and housing painted for visually dark interior • V-Notch in plaster frame aids fixture alignment during installation • Patent Pending Tru-Line™ Adjustment Mechanism featuring +/- ½" translation and +/- 45° aperture rotation aids fixture alignment after installation, prior to drywall.

Ceiling Thickness ½" – 7/8" ceiling standard • For thicker ceilings, order CTA4SQ-125 (7/8"-1¼"), CTA4SQ-163 (1¼"-1 5/8") or CTA4SQ-200 (1 5/8" – 2").

Housings

Catalog #	Description
TC43SQ	Low Voltage Recessed Magnetic Transformer, 120V
TC43SQ-E1	Low Voltage Recessed Electronic Transformer, 120V

Accessories

Cat. #	Description	Cat. #	Description
T741	Med. Pink Color Filter	**T7411**	Blue Green Dichroic Lens
T742	Warm Red Color Filter	**T7416**	Daylight Blue Correction Lens
T743	Daylight Blue Color Filter	**T7420**	Diffuse Spread Lens
T744	Med. Blue Color Filter	**T7422**	UV Filter Lens
T745	Med. Amber Color Filter	**T7477**	Prismatic Lens
T746	Med. Green Color Filter	**T7478**	Linear Spread Lens
T7401	Red Dichroic Lens	**T7459BL**	Hexcell Louver
T7403	Med. Green Dichroic Lens	**FMASQ4**	Flush Mount Adapter
T7404	Med. Blue Dichroic Lens	**CTA4SQ-125**	1 1/4" Thick Ceiling Adapter
T7405	Yellow Dichroic Lens	**CTA4SQ-163**	1 5/8" Thick Ceiling Adapter
T7406	Magenta Dichroic Lens	**CTA4SQ-200**	2" Thick Ceiling Adapter

To order, specify catalog number.

REV-4/10

1 3/4" Regressed Downlight Pinhole

Self Flanged	Flush Mount[1]	Description
4307SQ-WH	**4307SQ-WH-FM**	White Trim

[1]Flush Mount trims must be used with FMASQ4 Flush Mount Adapter, ordered separately.

Product specifications subject to change without notice.

JUNO LIGHTING GROUP
by Schneider Electric
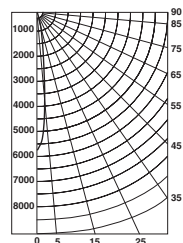
P6.2.8

PHOTOMETRIC REPORT

Catalog Number: TC43SQ (4307SQ-WH)
Test Number: PT001102606
Total Luminaire Efficiency: 55.7%
Luminaire Spacing Criteria: 0.29
Luminaire: 1 3/4" square regressed pinhole trim. Open aperture.
Lamps: One 50MR16/IR/SP10/C, rated at 1200 total lumens.

Initial Footcandles

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Footcandles Beam Edge	Beam Diameter
6'	160.1	78.3	1.4'
7'	117.6	57.5	1.7'
8'	90.0	44.1	1.9'
9'	71.1	34.8	2.2'
10'	57.6	28.2	2.4'
11'	47.6	23.3	2.7'
12'	40.0	19.6	2.9'
13'	34.1	16.7	3.1'
14'	29.4	14.4	3.4'
15'	25.6	12.5	3.6'

Candlepower Distribution (Candelas)

Angle	Candela	Lumens
0°	5763	
5°	4017	383
15°	761	216
25°	124	57
35°	14	9
45°	3	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0

Luminance Data

Ang in Deg	Footlamberts	Candela/M²
45	716	2452
55	0	0
65	0	0
75	0	0
85	0	0

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30°	657	54.7	98.2
0-40°	666	55.5	99.6
0-60°	668	55.7	100.0
0-90°	668	55.7	100.0
90-180°	0	0.0	0.0
0-180°	668	55.7	100.0

AVERAGE INITIAL FOOTCANDLES
Reflectances: 80% Ceiling, 50% Walls, 20% Floors

Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR3	RCR5
4' x 4'	47	44	42
5' x 5'	30	28	27
6' x 6'	21	20	19
7' x 7'	17	16	15
8' x 8'	13	13	12
9' x 9'	10	10	9
10' x 10'	8	7	7
12' x 12'	5	5	5

COEFFICIENTS OF UTILIZATION – % (Zonal Cavity Method)
Effective Floor Reflectance 20%

PCC	80				70				50			30			10			0
PW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	66	66	66	66	65	65	65	65	62	62	62	59	59	59	57	57	57	56
1	64	63	62	62	63	62	61	61	60	59	59	58	58	57	56	56	55	55
2	63	61	60	58	62	60	59	58	58	57	57	57	56	55	55	55	54	53
3	61	59	57	56	60	58	57	56	57	56	55	56	55	54	55	54	53	52
4	60	57	55	54	59	57	55	54	56	54	53	55	54	53	54	53	52	51
5	58	56	54	52	58	55	54	52	54	53	52	54	52	51	53	52	51	50
6	57	54	53	51	57	54	52	51	53	52	51	53	51	50	52	51	50	50
7	56	53	51	50	56	53	51	50	52	51	50	52	50	49	51	50	49	49
8	55	52	50	49	55	52	50	49	51	50	49	51	50	49	51	49	48	48
9	54	51	49	48	54	51	49	48	51	49	48	50	49	48	50	49	48	47
10	53	50	48	47	53	50	48	47	50	48	47	49	48	47	49	48	47	47

PHOTOMETRIC REPORT

Catalog Number: TC43SQ (4307SQ-WH)
Test Number: PT01102706
Total Luminaire Efficiency: 63.8%
Luminaire Spacing Criteria: 0.34
Luminaire: 1 3/4" square regressed pinhole trim. Open aperture.
Lamps: One Q71MR16C/NSP15, rated at 1200 total lumens.

Initial Footcandles

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Footcandles Beam Edge	Beam Diameter
6'	154.1	74.8	1.7'
7'	113.2	54.9	2.0'
8'	86.7	54.9	2.3'
9'	68.5	33.2	2.5'
10'	55.5	26.9	2.8'
11'	45.9	22.3	3.1'
12'	38.5	18.7	3.4'
13'	32.8	15.9	3.7'
14'	28.3	13.7	4.0'
15'	24.7	12.0	4.2'
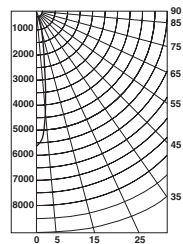
Candlepower Distribution (Candelas)

Angle	Candela	Lumens
0°	5548	
5°	4432	423
15°	1007	285
25°	100	46
35°	14	9
45°	3	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0

Luminance Data

Ang in Deg	Footlamberts	Candela/M²
45	713	2443
55	0	0
65	0	0
75	0	0
85	0	0

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30°	755	62.9	98.5
0-40°	763	63.6	99.7
0-60°	766	63.8	100.0
0-90°	766	63.8	100.0
90-180°	0	0.0	0.0
0-180°	766	63.8	100.0

AVERAGE INITIAL FOOTCANDLES
Reflectances: 80% Ceiling, 50% Walls, 20% Floors

Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR3	RCR5
4' x 4'	55	51	48
5' x 5'	35	33	31
6' x 6'	24	23	21
7' x 7'	20	18	17
8' x 8'	16	15	14
9' x 9'	12	11	10
10' x 10'	9	8	8
12' x 12'	6	6	5

COEFFICIENTS OF UTILIZATION – % (Zonal Cavity Method)
Effective Floor Reflectance 20%

PCC	80				70				50			30			10			0
PW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	76	76	76	76	74	74	74	74	71	71	71	68	68	68	65	65	65	64
1	74	73	72	71	72	71	70	70	69	68	67	66	66	65	64	64	64	63
2	72	70	68	67	71	69	67	66	67	66	65	65	64	63	63	63	62	61
3	70	68	66	64	69	67	65	64	65	64	63	64	63	62	63	62	61	60
4	69	66	64	62	68	65	63	62	64	62	61	63	61	60	62	61	60	59
5	67	64	62	60	66	63	61	60	62	61	59	62	60	59	61	59	59	58
6	66	62	60	59	65	62	60	58	61	59	58	60	59	58	60	58	57	57
7	64	61	59	57	64	61	59	57	60	58	57	59	58	57	59	57	56	55
8	63	60	58	56	63	59	57	56	59	57	56	58	57	56	58	57	56	55
9	62	59	57	55	62	58	56	55	58	56	55	57	56	55	57	56	55	54
10	61	58	56	54	61	57	55	54	57	55	54	57	55	54	56	55	54	53

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
AIW10366-2F24DM-120-BAL-TP01
Notes:

Type:

J

ELA-LI11-17083

ADVENT SPECIFICATION SHEET

REO INTERIOR WALL
AIW10366

ADA

Reo can be mounted to any wall surface and comply with ADA requirements while providing supplemental side illumination. Reo's unique light source orientation illuminates in front of and behind the decorative translucent panel, intensifying a 3D effect. The ability to complement any style comes standard.

JOB NAME
67 libertyt st

TYPE
j
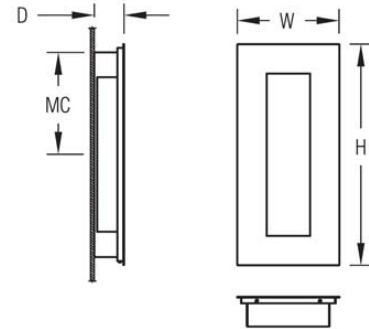
Dimensions

W	H	D	MC
13.0 in	28.0 in	3.7 in	14.0 in
33.0 cm	71.1 cm	9.4 cm	35.6 cm

Weight
Hanging weight: 25.0 lb (11.4 kg).

Features
- Formed metal construction provides durable protection for internal components and is recyclable.
- Embossed stainless steel-linear face plate option adds a unique, metal accent and texture to a space.
- Embossed stainless steel-linear and crosshatch face plate option adds a unique, metal accent and texture to a space.
- Durable wood laminate faceplate option adds a warm, natural texture to a space.
- Fixture adds a splash of color to a space with theatrical color gels. Standard colors are available with other colors available upon request. Contact factory to customize a color gel that coordinates with your application.
- Fixture adds texture to a space with architectural panels. Standard panels are available with other panels available upon request. Contact factory to customize an architectural panel that coordinates with your application.
- Standard thermoset polyester powder coat paint provides durable protection in a palette of color options. Custom colors available upon request.
- Integral electronic ballast utilizes the latest energy-saving technology to maintain consistent color temperature, CRI and lumen maintenance, while eliminating the need for remote mounting and simplifying installation.
- Compliant with Americans with Disabilities Act (ADA) requirements.

Technical Notes

Electrical
- Fluorescent versions have integral electronic ballasts utilizing the latest energy-saving technology, providing prolonged lamp life and maintaining consistent color.
- Thermally protected ballast limits operating temperature.
- Class "A" sound rated ballast for use in low ambient noise applications.
- Meets NEC 410.73 double-ended, fluorescent lamp ballast disconnect requirements.
- ETL listed to UL standards (US and Canada) for use in damp locations. Not recommended for exterior applications.

Lamping/lamp
- Lamps included, with the exception of T8, T5 and incandescent.

Mounting
- Mounts to standard 4" octagonal junction box.
- Additional mounting structure and hardware required (by others).

Additional Documents
Color Chart (http://www.specAdvent.com/pdfs/advent_color_chart.pdf)

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
AIW10366-2F24DM-120-BAL-TP01
Notes:

Type:

J

ELA-LI11-17083

ADVENT SPECIFICATION SHEET

MODEL NUMBER	LAMPING	FINISH	VOLTAGE	OPTIONS	COLOR ACCENTS
AIW10366	2F24DM	BAL	120	TP01	

Not all options are available in all configurations, consult factory for details.

Lamping

			Photometry
☐ 2F14	🚫 [1]	2F14WT5/Mini Bipin	
☐ 2F14DM	🚫 [1]	2F14WT5/Mini Bipin Dimming	
☐ 2F17	🚫 [1]	2F17WT8/Med Bipin	
☐ 2F24	🚫 [1]	2F24WT5HO/Mini Bipin	
☐ 2F24DM	🚫 [1]	2F24WT5HO/Mini Bipin Dimming	

[1] T5 & T8 Fluorescent Linear Lamp(s) Not Included

Voltage

☐ 120V	120 Volt
☐ 277V	277 Volt

Options

☐ ES1	Embossed Stainless Steel-linear Pattern
☐ ES2	Embossed Stainless Steel-cross Hatch Pattern
☐ WF1	Cherry Laminate
☐ WF2	Maple Laminate

Color Accents

☐ HP01	Silver Hand Painted Acrylic
☐ HP02	Beige Hand Painted Acrylic
☐ HP03	Amber Hand Painted Acrylic
☐ TP01	Translucent Panel, Bear Grass, Vertical
☐ TP02	Translucent Panel, Ginko Thatch, Vertical
☐ TP03	Translucent Panel, Quo Mezzo
☐ TP04	Translucent Panel, Bear Grass, Horizontal
☐ TP05	Translucent Panel, Ginko Thatch, Horizontal

Painted Finishes

PT01	SuperWhite	PT07	Light Taupe	PT13	Warm Gray	PT19	Blue	PT29	Red Brass	PT42	Sky Blue	PT48	Brass
PT02	White	PT08	Medium Taupe	PT14	Light Gray	PT20	Dark Green	PT31	Medium Bronze	PT43	Teal	PT49	Bronze
PT03	Morning Light	PT09	Medium Gray	PT15	Sage	PT21	Pearl White	PT32	Dark Bronze	PT44	Green		
PT04	Warm White	PT10	Dark Gray	PT16	Spruce	PT22	Platinum	PT33	Dark Blue	PT45	Purple		
PT05	Putty	PT11	Black	PT17	Red	PT27	Deep Copper	PT40	Yellow	PT46	Aluminum		
PT06	Warm Beige	PT12	Dark Chocolate	PT18	Deep Red	PT28	Dark Stainless	PT41	Orange	PT47	Deep Red Brass		

Metal and Plated Finishes

BAL	Brushed Aluminum

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
103-14-CF226/120-MW-VAN-SAL

Notes:

Type:

K

ELA-LI11-17083

8" ⌀

J-BOX BY OTHERS

ELECTRONIC BALLAST

ALUM COLLAR

14" ⌀ LINEN SHADE

.063 ALUM PAN/SPIDER

2- CF26TTT OR 32TTT LAMPS BY OTHERS

WHITE ACRYLIC DIFFUSER

3- 5/8" ⌀ X 3/8" FINIALS

1"
6"
5"
14" ⌀

ELEVATION / SECTION

10" ⌀

1"
5"
18" ⌀
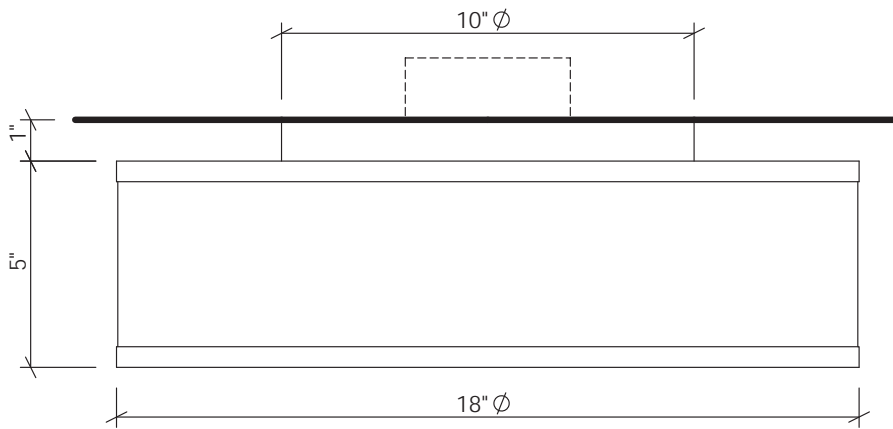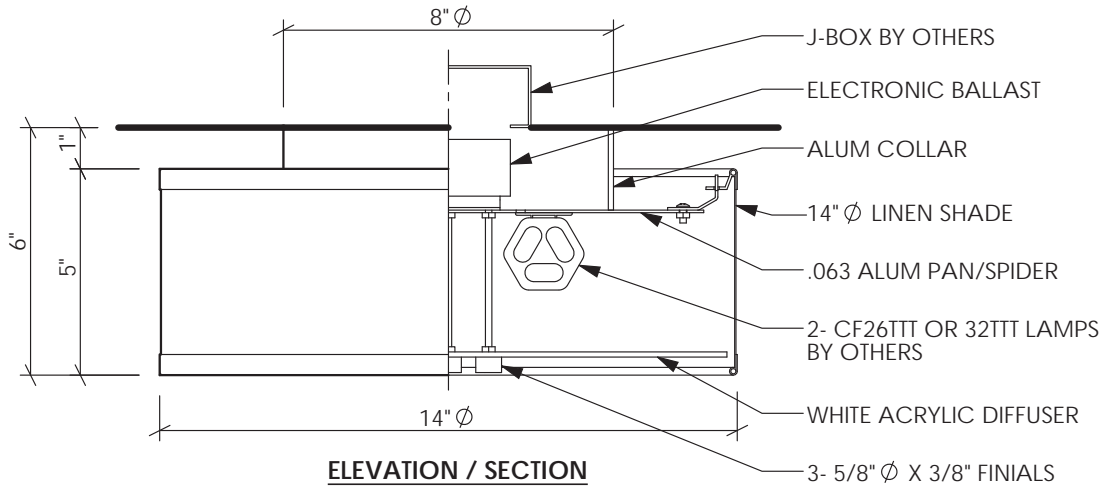
SPEC GUIDE

SAMPLE SPEC: 103-18-CF2/32-277-SAL-IEM

CAT#	-	SIZE	-	LAMPING	-	VOLT	-	FINISH	-	OPTION
❏ 103		❏ 14		❏ CF2/13		❏ 120		❏ SAL		❏ IEM
		❏ 18		❏ CF2/26		❏ 277		❏ MW		❏ VAN (Vanilla)
				❏ CF2/32		❏ 120DIM		❏ CCP		❏ WHT (White)
				❏ CF2/42						❏ OAT (Oatmeal)
										❏ CRH (**Cream** Hemp)
										❏ HOC (Hemp/ Organic Cotton)

BORDEN
LIGHTING

999 Montague Street
San Leandro, CA 94577
510-357-0171 Fax 510-357-3832
www.bordenlighting.com

PROJECT **67 LIBERTY ST**

SPECIFIER **GLEN KARPINOS,LC**

PRODUCT SPEC **103-14-CF226/120MW-VAN-SN**

NOTE:

⓪ & IBEW LABELED   ■DRY ☐DAMP ☐WET

TYPE **K**
SCALE   3" = 1' - 0"
DATE
DWN   MY   CKD   RB
SPEC NO
103-14 **103-18**

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:

Notes:

Type:

ELA-LI11-17083

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
503-CF-1/42-120DIM-MW-VAN-SN

Notes:

Type:

L

ELA-LI11-17083

Submit by Email

MTG BACKPLATE

OPEN TOP

1- CF26TTT, 32TTT
OR 42TTT LAMP
BY OTHERS

LINEN SHADE

ELECTRONIC
BALLAST,
MULTI-VOLT

WHITE ACRYLIC
LENSE

J-BOX BY OTHERS

4 5/8"

3/8"

12"

6"

5"

12"
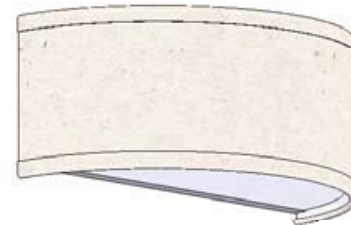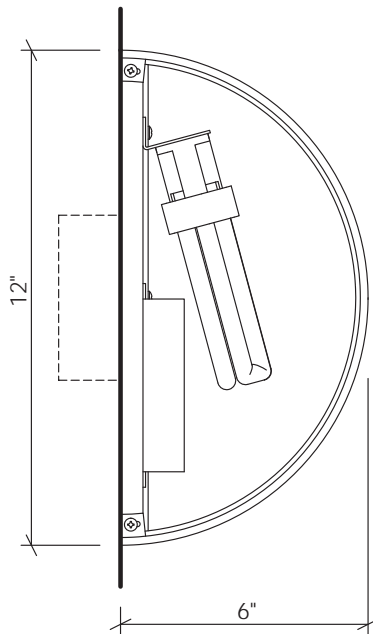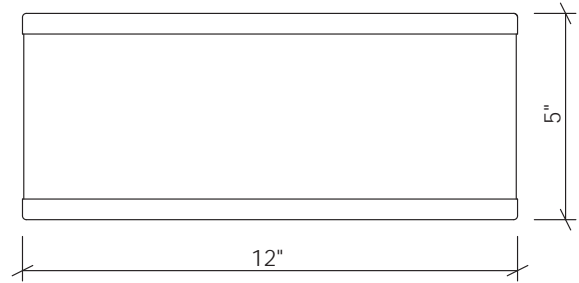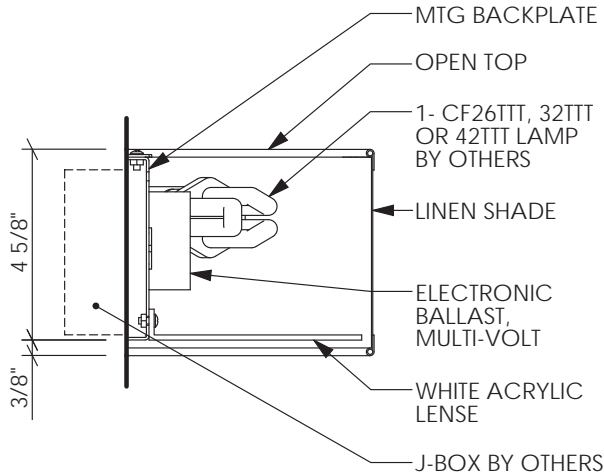
SPEC GUIDE   SAMPLE SPEC: 503-12-CF1/32-277-MW

CAT#	-	LAMPING	-	VOLT	-	FINISH	-	OPTION
❏ 503		❏ CF1/26		❏ 120		❏ MW		❏ REM
		❏ CF1/32		❏ 277				❏ VAN (Vanilla)
		❏ CF1/42		❏ 120DIM				❏ WHT (White)
								❏ OAT (Oatmeal)
								❏ CRH (Cream Hemp)
								❏ HOC (Hemp/
								Organic Cotton)

BORDEN
LIGHTING

999 Montague Street
San Leandro, CA 94577
510-357-0171 Fax 510-357-3832
www.bordenlighting.com

PROJECT 67 LIBERTY

SPECIFIER

PRODUCT SPEC 503-CF-1/42-120DM-MW-VAN-SN

NOTE:

(UL) & IBEW LABELED   ■ DRY ☐ DAMP ☐ WET

TYPE L

SCALE   3" = 1' - 0"

DATE

DWN   MY   CKD   RB

SPEC NO

503

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:

Notes:

Type:

ELA-LI11-17083

Job Name:
67 Liberty st - NEW SPEC

Notes:

ELA-LI11-17083

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
M450-232-OCT-ELB-UNI-EMPK-GK
Notes:

Type:

M

ELA-LI11-17083

M450 SERIES
Lumasense

Motion Sensing Bi-Level Lighting System
OSS/Advanced Occupancy Sensing System
Integrated into a Vandal-Resistant Luminaire
Linear T8 Fluorescent

Fixture Type:

Job Information:

SPECIFICATIONS:

• A unique new idea in energy savings and management. The Lumasense is a motion sensing bi-level vandal-resistant luminaire. It incorporates Mercury Lighting's latest technology, OSS/advanced occupancy sensing system. Compact design complies with all ADA requirements for public areas.

• Stairwells and similar low traffic public areas in commercial and residential buildings require lighting round the clock for safety and security. In reality, the occupancy of these areas can be nearly zero. The OSS technology provides a very low stand-by level of illumination. It uses an extremely sensitive ultrasonic occupancy sensor to detect any movement. It will even sense a stairwell door opening, where upon the luminaire instantly increases to full brightness. After occupancy is no longer detected the luminaire returns to the low stand-by level.

• The Lumasense is available with optional emergency battery back up to further fill the requirements for emergency egress from buildings. Emergency components are fully guarded inside the vandal-resistant luminaire. Various lumen output packages are available to meet state and municipal building and fire codes.

• The Lumasense with OSS technology is available with four different operating systems.

• System One: Programmed start 0-10Volt 2-lamp dimming ballast. Low voltage high frequency ultrasonic occupancy sensor internally mounted with a 24V power pack. Stand-by level power board internally mounted and factory set to 20%, 40%, or 60%. (+/- 5% due to line voltage variations.) Can be field reset to any of these levels or reset to 100%. This will be the output of the two lamps in stand-by mode. When movement is detected the luminaire instantly increases to full brightness.

• System Two: Programmed start 0-10Volt 2-lamp dimming ballast. Low voltage high frequency ultrasonic occupancy sensor internally mounted with a 24V power pack. Stand-by mode will be 5% output of the two lamps. When movement is detected the luminaire instantly increases to full brightness.

• System Three: One programmed start 1-lamp ballast and one instant start 1-lamp ballast. Low voltage high frequency ultrasonic occupancy sensor internally mounted with a 24V power pack. Instant start ballast operates one-lamp at 100% output. Programmed start ballast operates the other lamp in an off stand-by mode. When movement is detected this ballast instantly increases lamp to full brightness. After occupancy is no longer detected this ballast returns lamp to it's off stand-by level.

• System Four: One programmed start 2-lamp ballast. Low voltage high frequency ultrasonic occupancy sensor internally mounted with a 24V power pack. Programmed start ballast operates both lamps in an off stand-by mode. When movement is detected this ballast instantly increases lamps to full brightness. After occupancy is no longer detected this ballast returns lamps to the off stand-by level.

• Housing: Fabricated from 20GA cold rolled steel with all internal steel parts riveted or screwed together. End caps are 16GA with a 5/8" drawn perimeter flange to securely overlap diffusers. Finished with a high quality white powder coating.

• Diffusers: Two diffusers per each luminaire are extruded from high impact acrylic with 50% DR added. Optional 100% DR available for added security. Diffusers are clear with internal linear prisms for brightness control.

• Lamps/Lengths: Two-lamp cross sections, T8 linear fluorescent. 2FT/17W-T8; 4FT/32W-T8.

• System One and Two Ballast: Two-lamp electronic dimming ballast, programmed start, high power factor, THD less than 10%. Multi-volt operates a range from 120V-277V, 50HZ-60HZ. Minimum starting temperature 50F.

• System Three Ballasts: One single lamp electronic ballast, programmed start. One single lamp electronic ballast, instant start. High power factor, THD less than 10%. Multi-volt operates a range from 120V-277V, 50HZ-60HZ. Minimum starting temperature 32F.

• System Four Ballast: Two-lamp electronic ballast, programmed start, high power factor, THD less than 10%. Multi-volt operates a range from 120V-277V, 50HZ-60HZ. Minimum starting temperature 32F.

• Occupancy Sensor: Watt Stopper FS-505 or equal, 40kHz ultrasonic sensor. Powered by a 24V internal power pack. Field adjustable time delay; 5, 10, 15 or 30 minutes. Field adjustable sensitivity. 72-hour lamp burn-in function.

• System One Power Board: Automatically dims ballast to factory set 20, 40, or 60% level. Can be field reset.

• Installations: Surface mounts individually, ceiling or wall orientation. Knockouts and four 1/4" mounting holes for secure anchoring. On request, row mounting, surface conduit entry, and surface mount junction box set-ups available.

• UL and CUL listed 1598 and bears their label. Suitable for dry locations or optional damp locations with UL Damp Label. Union made and labeled.

• Warranty: Five-year warranty on all electronic components; ballasts, occupancy sensor, power board. One-year on luminaire.

MERCURY LIGHTING
PRODUCTS CO. INC.

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
M450-232-OCT-ELB-UNI-EMPK-GK
Notes:

Type:

M

ELA-LI11-17083

M450 SERIES Lumasense

Motion Sensing Bi-Level Lighting System OSS/Advanced Occupancy Sensing System Integrated into a Vandal-Resistant Luminaire Linear T8 Fluorescent
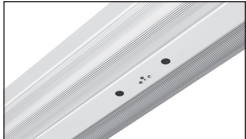
Fixture Type:

Job Information:

ORDERING DATA: Fill in boxes below with corresponding bold options.

Example: M450-232-OCT-ADR-ELBD-20-UNI-EMPK/I48

Series	No. of Lamps Cross	Lamp Wattage/ Ea./Nominal Fixture Length	Lamp Type	Optional Diffuser	Operating System/ Ballast Type	Stand-By Power	Voltage	Emergency Battery Back Up	Misc.
M450 Lumascence Series.	**2** Lamps	**17** 17W-T8/24" **32** 32W-T8/48"	**OCT** Linear T8	**ADR** Hi Impact Clear Acrylic/50% DR. Internal Linear Prisms. **ADR100** Hi Impact Clear Acrylic/100% DR. Internal Linear Prisms.	**ELBD** System #1. One 2-Lamp T8 0-10V Electronic Dimming Ballast, Programmed Start. FS-505 Sensor or equal. Stand-By Level Power Board Factory Set to Dim at 20, 40, or 60% Level. Can Be Reset in Field. **ELBD5** System #2. One 2-Lamp T8 0-10V Electronic Dimming Ballast, Programmed Start. FS-505 Sensor or equal. Dims to 5% Stand-By Level Only. **ELB2** System #3. One 1-Lamp T8 Electronic Ballast, Programmed Start, Wired to Sensor. One 1-Lamp T8 Electronic Ballast, Instant Start. FS-505 Sensor or Equal. Stand-By Level 50% Only. **ELBS** System #4. One 2-Lamp T8 Electronic Ballast, Programmed Start, Wired to Sensor. FS-505 Sensor or Equal. Stand-By Level is "Off Mode".	**20** 20% Stand-By/ System #1. Factory Set, Field Reset. **40** 40% Stand-By/ System #1. Factory Set, Field Reset. **60** 60% Stand-By/ System #1. Factory Set, Field Reset. **5** 5% Stand-By/ System #2. **50** 50% Stand-By/ System #3. **0** 0% Stand-By/ System #4.	**UNI** T8 Universal Voltage, Multi-Volt 120V-277V, 50HZ-60HZ, <10%THD.	Leave Blank No EMPK Required. **EMPK/I32** I-32 or Equal 475 Lumens. One T8 Lamp. **EMPK/I48** I-48 or Equal 700 Lumens. One T8 Lamp. Two T8 Lamps With Systems #1, #2 or #4 Only. **EMPK/I320** I-320 or Equal 1350 Lumens. One T8 Lamp. Two T8 Lamps With Systems #1, #2 or #4 Only. **EMPK/I232** I-232 or Equal 1400 Lumens. Two T8 Lamps With Systems #1, #2 or #4 Only. **EMPK/I880** I-880 or Equal 2000 Lumens, One 32W-T8 Lamp. Two 32W-T8 Lamps With Systems #1, #2 or #4 Only.	**TP** Two Tamper-Proof Screws Per End. Vandal-Proofing Component. **DL** UL Damp Labeled. **Order Separately** **TPT** Tamperproof Screwdriver

Sensor

Detail

2Ft. Unit

Stairwell Location

DIMENSIONAL DATA
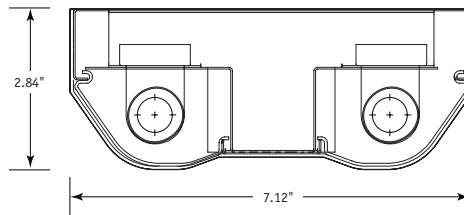
2.84"

7.12"

MERCURY LIGHTING
PRODUCTS CO. INC.

20 Audrey Place • Fairfield, NJ 07004 • Tel: 973.244.9444 • Fax: 973.244.9522
www.mercltg.com

SPECIFICATIONS SUBJECT TO CHANGE, **12/09**
CONSULT FACTORY WHEN CRITICAL.

Submitted by Electric Lighting Agencies, Inc.

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
AEW103951M39PT21-120-SBC-ALB
Notes:

Type:
N

ELA-LI11-17083

ADVENT SPECIFICATION SHEET

CENTERPOINT EXTERIOR WALL
AEW10395

WET

An exterior, surface mount sconce, Centerpoint merges a contemporary look with artistic light design. Add a little flare to offices, schools and health care facilities with Centerpoint's modern light distributions and palette of powder coat and metal finishes. Choose which light pattern best enhances a design and even control the distribution size with the adjustable baffle option. If unspecified, Centerpoint's standard light distribution is an unobstructed circular pattern.

JOB NAME
67 LIBERT

TYPE
N

FOR SSC AND SBC OPTIONS
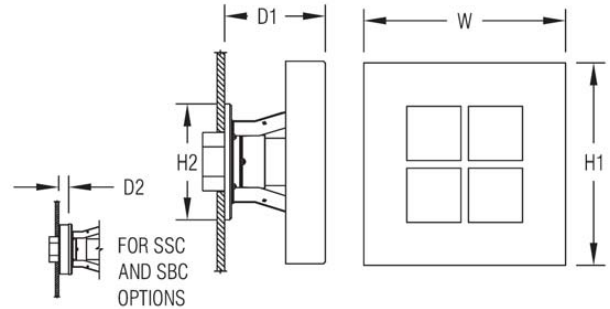
Dimensions

W	H1	H2	D1	D2
14.0 in	14.0 in	8.0 in	6.0 in	1.6 in
35.6 cm	35.6 cm	20.3 cm	15.2 cm	4.1 cm

Weight
Consult Factory.

Features
- Remote electronic ballast utilizes the latest energy-saving technology to maintain consistent color temperature, CRI and lumen maintenance, while allowing for consolidation of ballasts.
- Formed metal construction provides durable protection for internal components and is recyclable.
- Tempered glass lens protects HID and tungsten halogen lamp engines.

Technical Notes

Electrical
- HID versions have remote ballasts easing maintenance and installation by allowing for the consolidation of ballasts.
- HID versions have remote ballasts easing maintenance and installation by allowing for the consolidation of ballasts.
- ETL listed to UL standards (US and Canada) for use in wet locations.

Finish
- Black powder coated mounting brackets.

Mounting
- Mounts to standard 4" octagonal junction box.

Additional Documents

Color Chart (http://www.specAdvent.com/pdfs/advent_color_chart.pdf)

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
AEW103951M39PT21-120-SBC-ALB
Notes:

Type:

N

ELA-LI11-17083

ADVENT SPECIFICATION SHEET

MODEL NUMBER	LAMPING	FINISH	VOLTAGE	LAMP OPTIONS	OPTIONS
AEW10395	1M39	PT21	120	SBC	ALB

Not all options are available in all configurations, consult factory for details.

Lamping
Photometry

☐	1M39	1PSCMH39/T6/G12/U
☐	1M70	1PSCMH70/T6/G12/U
☐	1M150	1PSCMH150/T6/G12/U
☐	1T100	1QTZ100W/T4/DC BAY
☐	1T150	1QTZ150W/T4/DC Bay

Voltage
☐	120V	120 Volt
☐	277V	277 Volt

Lamp Options
☐	SBC	Surface Electronic Ballast Compartment & Ballast
☐	SSC	Surface Mount Splice Compartment

Options
☐	ALB	Adjustable Light Baffle
☐	LP1	Up/down Only Wide
☐	LP2	Radial Pattern
☐	LP3	Up/down Only Narrow
☐	LP4	Radial Narrow
☐	45RT	45 Degree Rotation

Painted Finishes

PT01	SuperWhite	PT07	Light Taupe	PT13	Warm Gray	PT19	Blue	PT29	Red Brass	PT42	Sky Blue	PT48	Brass
PT02	White	PT08	Medium Taupe	PT14	Light Gray	PT20	Dark Green	PT31	Medium Bronze	PT43	Teal	PT49	Bronze
PT03	Morning Light	PT09	Medium Gray	PT15	Sage	PT21	Pearl White	PT32	Dark Bronze	PT44	Green		
PT04	Warm White	PT10	Dark Gray	PT16	Spruce	PT22	Platinum	PT33	Dark Blue	PT45	Purple		
PT05	Putty	PT11	Black	PT17	Red	PT27	Deep Copper	PT40	Yellow	PT46	Aluminum		
PT06	Warm Beige	PT12	Dark Chocolate	PT18	Deep Red	PT28	Dark Stainless	PT41	Orange	PT47	Deep Red Brass		

Metal and Plated Finishes

BAL	Brushed Aluminum	BBR	Brushed Brass	CU	Natural Copper	BCU	Brushed Solid Copper

ADVENT™ A BRAND OF SPI LIGHTING®

Tel (262)242-1420   contact@specAdvent.com   Current as of **08/28/11**. Design modification rights reserved.

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
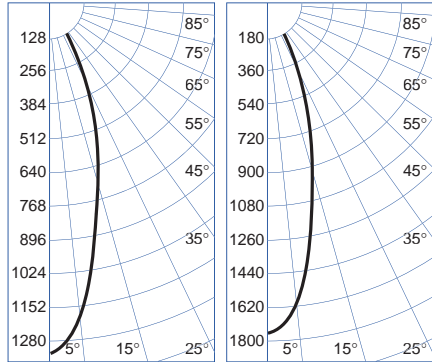WK301-SG-R2-USHIO 18K LAMP

Notes:

Type:

P

ELA-LI11-17083

Fixture Housing · **Vent Slot** · **Lampholder with Glass Lens** · **Heat Sink** · **Torson Spring** · **Branch Circuit Junction Box**

Transformer · **Aperture Frame** · **Gaskets (2)** · **Full Lens Cone, Clear Glass** · **Specular Cone** · **Thermal Protector**
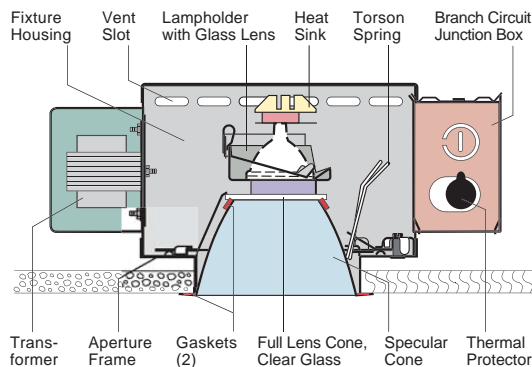
WK301

W3

Wet Location
Shower Light
MR-16 Low Voltage Lamps
4¹/₈" Conoid Aperture

Optics and Applications
The parabolic cone provides excellent shielding and brightness control. The selection of MR-16 lamps offers beam spreads from 7° to 55°. Use in showers and other wet locations for general downlighting.

Design Features
To prevent water entry fixtures are double gasketed, first between lens and cone, and then between ceiling and cone flange. Kurt Versen's proprietary lampholder assembly has a pronged aluminum heat sink and a reflective shield to divert heat from the bi-pin socket. The lampholder accommodates up to two accessories and pivots for relamping. Stainless steel springs hold the lamp firmly in place. A clear glass shield is standard on top of the cone. The trim assembly is non conductive. Maximum ceiling thickness 1½". Top or bottom service.

Finish
All cones and reflectors feature Kurt Versen Marine Grade anodic coatings which significantly exceeds the standard Alzak specification. A specular clear cone is standard, colors and Softglow® finishes are optional. Structural parts are phosphate conditioned, powder coated and baked matte black. Stray light leaks are contained and the final finish has exceptional scratch, impact, and wet environment resistance.

Transformer
The magnetic transformer is capable of accommodating MR-16 lamps up to 75W. It is rated 180°C, Class H with a built-in 150°C thermal reset and can be lowered through the aperture for service. Maximum fixture draw is 85W.

General
Fixtures are pre-wired, thermally protected, UL and C-UL listed for wet locations with eight wire 90°C branch circuit wiring. Union made IBEW.

Dimensions and Lamps

Number	A Depth	B Aperture	C Width	D Length	Lamps
WK301	6¾" 172mm	4¹/₈" 105mm	14¼" 362mm	14¼" 362mm	One 20-75W MR-16 Low Voltage

Accessories
B	Black cone.	HL	Hexcell louver, at lamp.
G	Gold cone.	LL	Linear lens glass, at lamp.
H	Mocha cone.	LP	Large prism lens glass, at lamp.
P	Graphite cone.	MP	Microprism lens, at lamp.
T	Titanium cone.	ET1	Electronic transformer 120V.
W	Wheat cone.	ET2	Electronic transformer 277V.
Y	Pewter cone.	R2	26" support rails.
Z	Bronze cone.	R5	52" support rails.
WT	White trim flange.	UV	UV filter, contact factory.

WHP White powder coated complete trim.
RMR Residential mounting rails.
V277 277 volt primary transformer, magnetic.
WRL Wattage restriction label, specify wattage.
FR Frosted lens. Example: LLFR for linear lens frosted.
FLC4 Full lens cone, specify lens type, e.g. FLC4MP.
S Softglow® finishes: add S before color letters. e.g. SW for Softglow® wheat cone, SC for Softglow® clear cone.

kurt versen

Kurt Versen Company   Point Source Lighting
                           Westwood, New Jersey 07675

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
WK301-SG-R2-USHIO 18K LAMP

Notes:

Type:

P

ELA-LI11-17083

W3 WK301

Performance Datachart

Single Unit Initial Footcandles, 30" Work Plane								Ceiling to Floor	Multiple Units Initial Footcandles, 30" Work Plane			
WK301 50W MR-16 EXN 40° Read Top Data									Ceiling 80% Walls 50% Floor 20%			
WK301 75W MR-16 EYC 40° Read Bottom Data												
Nadir		5°		10°		15°			Spacing is Maximum Over Work Plane			
FC		FC	Diam	FC	Diam	FC	Diam		Spacing	RCR 1	RCR 2	RCR 3
66		59	1'	43	2'	30	2'	7'	2'	121	113	107
88		80	1'	59	2'	40	2'		2'	163	153	146
44		40	1'	29	2'	20	3'	8'	3'	81	76	72
59		53	1'	39	2'	27	3'		3'	109	103	98
31		28	1'	21	2'	14	3'	9'	3'	58	54	51
42		38	1'	28	2'	19	3'		3'	78	73	70
24		21	1'	16	3'	11	4'	10'	4'	43	41	29
32		29	1'	21	3'	14	4'		4'	59	55	53
15		13	2'	10	3'	7	5'	12'	5'	27	25	24
20		18	2'	13	3'	9	5'		5'	37	34	33

Candlepower Distribution

WK301 50W MR-16 EXN 40°
Eff. 56% S/M .49

WK301 75W MR-16 EYC 40°
Eff. 58% S/M .49

Candelas

	50W	75W
°	916*	1202*
0	1329	1792
5	1213	1636
10	921	1242
15	670	904
20	515	694
25	358	483
30	209	282
35	79	107
40	14	19
45	2	6
50	0	0
55	0	0
60	0	0
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

° Vertical Angles
* Initial Lamp Lumens

Coefficients of Utilization

Ceiling	80%				70%		50%		30%		0
Wall %	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Floor Reflectance 20%										
1	.67	.66	.65	.64	.65	.63	.62	.61	.60	.59	.56
2	.65	.62	.60	.59	.61	.58	.59	.57	.58	.56	.54
3	.62	.59	.57	.55	.58	.54	.57	.53	.55	.53	.51
4	.60	.56	.53	.51	.56	.51	.54	.51	.53	.50	.49
5	.58	.53	.51	.49	.53	.48	.52	.48	.51	.48	.46
6	.55	.51	.48	.46	.51	.46	.50	.46	.49	.45	.44
7	.53	.49	.46	.44	.48	.44	.48	.44	.47	.43	.42
8	.51	.47	.44	.42	.46	.42	.46	.42	.45	.41	.41
9	.50	.45	.42	.40	.45	.40	.44	.40	.44	.40	.39
10	.48	.43	.40	.38	.43	.38	.42	.38	.42	.38	.37

WK301 75W MR-16 EYC 40°
WK301 50W MR-16 EXN 40° x .97

Brightness

Number	Lamps	85°	75°	65°	55°	45°
WK301	50W MR-16 EXN 40°	3	16	27	40	80
	75W MR-16 EYC 40°	4	23	35	56	108

Data in footlamberts. Photometer readings, Maximum Brightness Method. See note 6.

Notes

1 Data on all charts calculated using a clear specular cone finish.

2 Specular cone multipliers: Gold x .97, Wheat x .96, Pewter x .94, Mocha x .93, Graphite x .90, Titanium x .90, Bronze x .85, Black x .70.

3 Softglow® cone multipliers: Clear x .98, Gold x .96, Wheat x .87, Pewter x .73, Mocha x .73, Graphite x .73, Titanium x .73, Bronze x .68, Black x .62.

4 Single unit pattern diameters are determined by the number of degrees from each side of nadir. Therefore a 5° diameter represents a total 10° pattern width at the work plane 30" above the floor. Footcandle values are at the edge of that diameter.

5 Datachart spacing is rounded off to the nearest foot.

6 Brightness data from the Average Luminance Method are inaccurate for downlights. They are theoretical calculations for large surfaces such as troffer lenses. We recommend the stricter standard of Maximum Brightness Method point data from direct photometer readings. They approximate what the human eye perceives when evaluating glare. For more information refer to Z section brochure Z1.

Kurt Versen Company, Westwood, New Jersey

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
PG-W-HTR

Notes:

Type:

S

ELA-LI11-17083

DUAL|LITE

PG
Indoor/Outdoor Emergency Lighting Unit

Catalog Number	
Comments	Type

FEATURES

Application
The PG is an indoor/outdoor, die-cast architectural emergency unit. It is a wet location listed, emergency luminaire with high-output LED technology that provides path of egress illumination for mounting over entrance/exit ways and perimeter walkways. Spectron® self-testing/self-diagnostic electronics are included standard. A battery heater for cold temperature operation is available as an option.

Construction
Housing and mounting plate are constructed of 0.125" die-cast aluminum and 0.125" closed-cell, medium density, neoprene gasket. The acrylic lens allows 92% light transmission. The reflector is electro-polished aluminum with 95% reflectance. Housing finish is powder coated electro-deposition paint available in four colors: dark bronze, white, platinum silver and black.

Installation
Universal housing knockouts for mounting to standard $3^1/_2$" and 4" octagon and 4" square electrical boxes. A $^1/_2$" – $^1/_4$ NPT threaded conduit opening is provided at the top of the housing and sealed with a closure plug. The back plate mounts to the wall surface using installer supplied hardware. The housing "snaps" to the back plate by a "pin and socket" arrangement, and is secured with two Fillister head screws. AC Lockout feature prevents battery discharge prior to initial unit power-up saving installation time.

Lamps
Four high-output, long life LED lamps arranged in redundant pairs.

Compliances
UL 924 Listed (emergency models only)
UL Wet Location Listed
NFPA 101 Life Safety Code
NFPA 70 National Electrical Code
OSHA

Warranty
Three-years full for unit. electronics and battery.

PATENTS PENDING

White

Dark Bronze

Platinum Silver

Black

ORDERING GUIDE

PG	**W**	**–HTR**
Series	Finish	Options

W - White
Z - Dark Bronze
P - Platinum Silver
B - Black

-HTR - Battery Heater
(Add Suffix to Model)

HUBBELL

HUBBELL LIGHTING, INC.

Submitted by Electric Lighting Agencies, Inc.

ELA
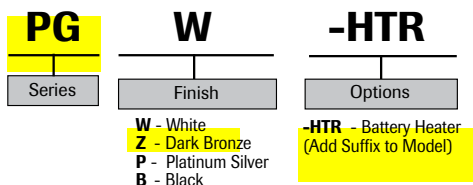
Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
PG-W-HTR

Notes:

Type:

S

ELA-LI11-17083

PG
Indoor/Outdoor Emergency Lighting Unit

SPECIFICATIONS

Electronics

Upon failure of the normal utility power, a solid-state transfer switch automatically activates the emergency lamp. Upon resumption of the normal utility power, the battery is disconnected from the load and recharged through a solid-state charging unit. A low voltage battery disconnect feature protects the battery from severe damage during prolonged power failures. Spectron® self-testing/self-diagnostic circuitry provides automatic system testing on a monthly and semi-annual basis. Manual testing is available at any time using the push-to-test button: push once for a 60-second system test; push twice for a 90-minute system test.

Number of Lamps: Four high output LEDs
Lamp Configuration: Two sets of 2 LEDs provide illumination. In the unlikely event that any single LED should fail the remaining LEDs willcontinue to function.
Lamp Type: Solid state high output LEDs
Lamp Color: Cool White, 6350K
Total Lamp Output: 405 Lumens
Input: 120/277VAC, 60 Hz
Battery Charger: Temperature compensating, constant current
Transfer: Solid state
Functional Circuitry: AC lockout, transformer isolation, transient surge protection, low voltage battery disconnect, brownout detection, time delay retransfer
Battery Recharge Cycle: per UL time standards
Test Means: Integral test switch
Battery: Sealed, maintenance-free Nickel-Cadmium
Operating Temperature Range for Models without Heater:
0°C to 50°C (32°F to 122°F)
Operating Temperature Range for Models with Heater:
-30°C to 50°C (-22°F to 122°F)

Power Consumption

Models Without Heater		Models With Heater	
120VAC	2.78 watts	120VAC	15.2 watts
277VAC	2.88 watts	277VAC	15.7 watts

Power factor, average: 0.8 (lagging)

DIMENSIONS

7"

11"

3 3/16"
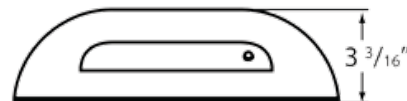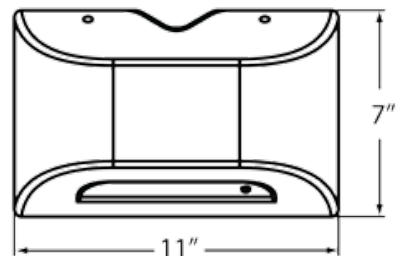
ILLUMINATION PATTERN

Single Unit Coverage

Mounting Height: 9'
Outdoor Reflectance: 0/30/10
Indoor Reflectance: 80/50/20

D

W
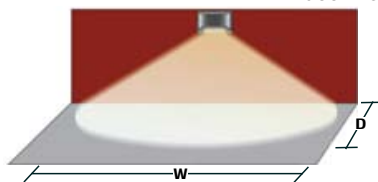
	Indoor	Outdoor
1 FC Average (W x D)	33' X 10'	27' X 10'
1 FC Minimum (W x D)	10' X 10'	9' X 10'

Multiple Unit Spacing

Mounting Height: 9'
Illuminated Path Depth: 6'
Outdoor Reflectance: 30/10
Indoor Reflectance: 80/50/20

Path Of Egress
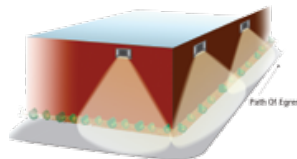
	Indoor	Outdoor
1 FC Average	44'	33'
1 FC Minimum	16'	15'

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
UNO EDGE LITE

Notes:

Type:

Q

ELA-LI11-17083

Catalog Number	
Notes	Type

Encore Lighting

Description:
The Encore "Uno" Series is a fully universal LED Edgelit Exit Sign with a brushed die cast aluminum housing and trim plate. A tapered injection molded acrylic panel hangs from the trim plate. The acrylic panel utilizes an invisible hinge and removeable arrows that allow the installer to choose all combinations of surface or recessed mounting including arrow configurations in the field.

Housing:
The Uno housing is constructed of die cast aluminum with a brushed finish standard. The housing includes adjustable mounting bars to allow for a flush fit to the ceiling. The housing is shipped with mounting bars installed for recessed mounting, simply remove the mounting bar assembly to configure the housing for surface mounting. 3/4" conduit knockouts are included in the top and side of the housing.

Trim Panel Assembly:
The trim assembly is constructed of die cast aluminum with a brushed finish standard. The trim assembly can be configured in the field for recessed ceiling or wall installation, as well as surface mounting. The die cast trim assembly attaches to the housing using captive, recessed concealed screws to ensure a tight, flush fit to the ceiling. The panel assembly is constructed of injection molded acrylic, tapered for a slim appearance. The panel assembly consists of 2 halves allowing the installer to choose single or double faced installation in the field. The panel halves are held together with an invisible hinge, allowing panel configuration to be changed easily in the field. All panels have removable arrows applied in the factory allowing arrows to be removed in the field to achieve all arrow combinations.

Electronics/Battery:
Both Battery and AC only units accept input of 120/277 VAC, 60 Hz. Power consumption is 1.9 watts. Battery backup models use maintenance free NiCad batteries. Charging is accomplished with a constant current charger capable of recharging as per UL924 standards. No mechanical relays are used, transfer is accomplished using solid state circuitry.

LED Illuminator:
The LED Illuminator consists of 10 Ultra bright Piranha LEDs. The Piranha LED has a nearly 180 degree emitting angle allowing for even illumination. The LEDs are wired in sets of two, insuring that in the unlikely event of a single LED failure, the sign will continue to be illuminated.

Approvals/Warranty:
UL924 listed, Life safety NFPA 101,NEC/OSHA, New York City approved. LED Illuminator warranted for 25 years, charger covered by 3 year warranty, NiCad batteries covered by 10 year warranty, 3 years complete, 7 years prorated.

ORDERING INFORMATION

Super Universal

X   Recessed or surface mounting, single or double faced, any arrow configuration

Recessed Universal

XR   Recessed mounting, single or double faced, any arrow configuration

Item Specific

XS

Mounting	# Faces	divider	arrows
RC Ceiling	1 Single	C Clear	AL Arrow Left
RW Wall	2 Double	W White	AR Arrow Right
S Surface		MM Mylar	LR Double Faced
			DH Double Headed
			U Universal

Housing Only   HXS

Trim/Panel Only   add prefix "T"

Standard units include:
- *8" letters*
- *Red letters*
- *Battery backup*
- *Removeable arrows*
- *White divider*

Options:

6	6" letters
G	Green letters

Trim Finish:

W	White
BL	Black
BR	Brass
BZ	Bronze
AC	AC Only
MM	Mirrored Mylar divider
P**	Pendant
	** = specify length

UNO SERIES

Edgelit
Universal Mount
LED
Die Cast Aluminum

Universal arrows
Universal mounting
Universal # of faces
Nicad Batteries
Adjustable Hanger Bars
Dual Voltage 120/277 input

Encore Lighting

Recessed Ceiling

16 3/8″
15 5/8″
3 1/8″
2 1/8″
3 3/8″
8″letters-9″
6″letters-7″
<EXIT>
13 7/8″

Recessed Wall

16 3/8″
3 3/8″
3/4″
3 1/8″
<EXIT>
13 7/8″

Surface Back Wall

15 5/8″
1/4″
2 1/8″
5.25″SQ
3 3/8″
8″letters-9″
6″letters-7″
<EXIT>
13 7/8″

Surface Ceiling

15 5/8″
2 1/8″
5.25″SQ
3 3/8″
1/4″
8″letters-9″
6″letters-7″
<EXIT>
13 7/8″

Surface End Wall

15 5/8″
1/4″
2 1/8″
5.25″SQ
3 3/8″
8″letters-9″
6″letters-7″
<EXIT>
13 7/8″

Surface, Pendant

7 3/4″
5/8″
Standard 6″, others available
2 1/8″
3 3/8″
8″letters-9″
6″letters-7″
<EXIT>
13 7/8″
15 5/8″

Arrow Direction Key

Cat. Code	Panel Front	Panel Back
AL	<EXIT	Blank
AR	EXIT>	Blank
DH (single face or double face)	<EXIT>	<EXIT>
LR	<EXIT	EXIT>
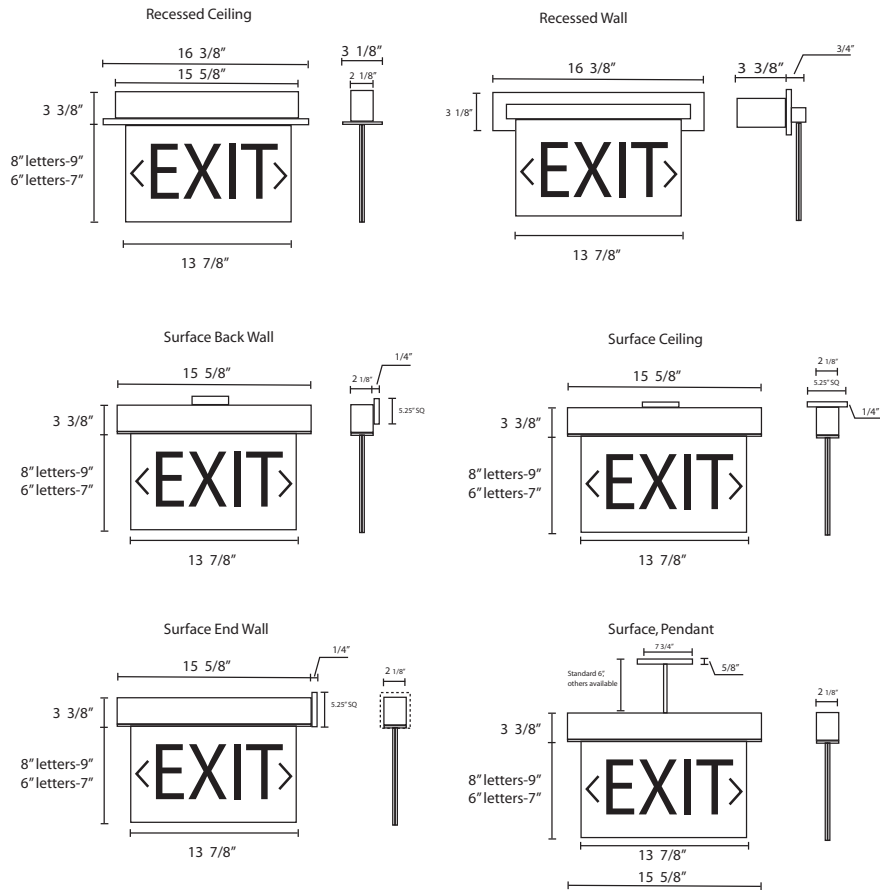
Energy Data
(Fully Discharged Battery)

Series	Input (VAC)	Input Current (ma)	Watts
HXSAC	120	15	1.9
HXS	120	22.0	2.2
HXSAC	277	9	2.3
HXS	120	20	2.5

Encore Lighting

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
TC44LV-446-WH

Notes:

Type:

Z

ELA-LI11-17083

G3.2.1

JUNO®

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

4″ LOW VOLTAGE UNIVERSAL TC HOUSING
50W MR16
TC44

PRODUCT DESCRIPTION

TC Housing design for use in non-insulated areas • If installed where insulation is present, the insulation must be pulled back 3″ from all sides of the TC housing.

PRODUCT SPECIFICATIONS

Lamp One 12V, 50W MR16 lamp.

Socket Ceramic bi-pin socket with aluminum heat shield.

Trims Trim selection shown on reverse.

Transformer 120V to 12V 50VA thermally protected magnetic transformer mounted to junction box.

Dimming May be dimmed using dimmers specifically designed for low voltage magnetic transformers; consult factory or dimmer manufacturer for additional information.

Labels U.L. listed for through-branch wiring, damp locations and IP • Product thermally protected against improper use of lamps or insulation • Union made • UL Listed/CSA certified • Trim No. 441, 4401, 4402 and 4481 are wet location approved for covered ceiling applications.

Testing All reports are based on published industry procedures; field performance may differ from laboratory performance.

Product specifications subject to change without notice.

INSTALLATION

Real Nail 3 Bar Hangers Telescoping, patent-pending Real Nail 3 system permits quick placement of housing anywhere within 24″ O.C. joists or suspended ceilings • Integral T-bar notch and clip secures housing in suspended ceiling grid – no accessory clips required • 24″ expansion stop allows quick placement of fixture in standard grid spacing • Bars scored in two locations for fast, clean breaking, allowing housing installation in tight applications • Bars captive to mounting frame • Edge-mounted for extra strength • Captive bugle-headed ring shank nail for quick one-step installation and easy removal with claw hammer for fixture relocation • Quick-Loc slot and oversized locking set screw lock fixture in position • Bar hanger foot contoured to align to bottom of construction joist • Alternate mounting holes included.

Junction Box Pre-wired junction box provided with (5) ½″ and (1) ¾″ knockouts, (4) Non-metallic sheathed cable connectors and ground wire, U.L. listed/CSA certified for through-branch wiring, maximum 8 No. 12 AWG 90˚ C branch circuit conductors (4 in, 4 out) • Junction box provided with removable access plates • Knockouts equipped with pryout slots.

Mounting Frame 22-gauge die-formed galvanized steel mounting frame • 10¼″ L x 5¾″ W, (excluding bar hangers) • Rough-in section (junction box, mounting frame, housing and bar hangers) fully assembled for ease of installation.

Housing TC housing, 22-gauge galvanized steel • Housing is vertically adjustable to accommodate up to a 1¼″ ceiling thickness.

DIMENSIONS

5 3/8"

13 1/2"
Will expand
to 25"
(Reduces to 8 1/8"
with breakaway
feature)

6 3/4"

9 1/8"

12 1/8"
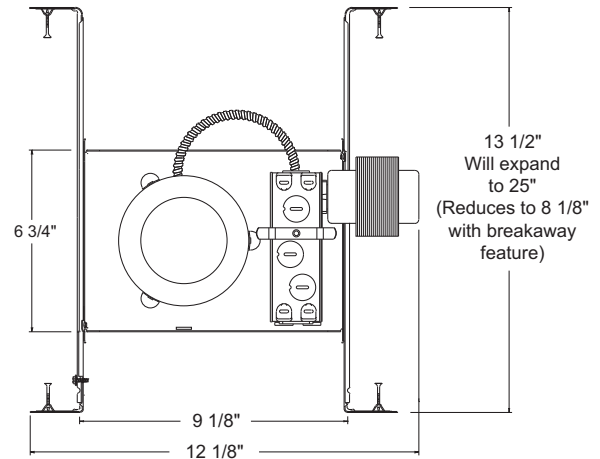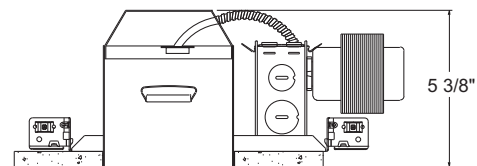
4 1/2″ CEILING CUTOUT

ACCESSORIES

Catalog No.	Description
4TSA	Torsion Spring Adapter (for original style housing)

To order, specify catalog number.

PRODUCT CODES

Catalog Number	Input Voltage	Lamp Rating (max.)
TC44	120V	12V 50W MR16

REV-12/08

J JUNO LIGHTING GROUP
by Schneider Electric

G3.2.1

4″ LOW VOLTAGE UNIVERSAL
TC HOUSING
50W MR16
TC44

TRIMS

	Cat. No.	Description
	442C-WH	Deep Cone Downlight - Clear Alzak®
	442G-WH	Deep Cone Downlight - Gold Alzak®
	442B-WH	Deep Cone Downlight - Black Alzak®
	442HZ-WH	Deep Cone Downlight - Haze
	442WHZ-WH	Deep Cone Downlight - Wheat Haze
	443B-WH	Pinhole with Black Baffle Downlight
	440-WH	Flush Gimbal Ring
	440-BL	Flush Gimbal Ring
	440-SC	Flush Gimbal Ring
	440-ABZ	Flush Gimbal Ring
		40˚ Vertical Adjustment
	444B-WH	Downlight or Adjustable with Black Baffle
	444B-SC	Downlight or Adjustable with Black Baffle
	444B-ABZ	Downlight or Adjustable with Black Baffle
	444B-BL	Downlight or Adjustable with Black Baffle
	444W-WH	Downlight or Adjustable with White Baffle
		35˚ Vertical Adjustment
	445-WH	Slot Aperture Downlight or Adjustable
		50˚ Vertical Adjustment
	447C-WH	Downlight or Adjustable - Clear Alzak®
	447G-WH	Downlight or Adjustable - Gold Alzak®
	447B-WH	Downlight or Adjustable - Black Alzak®
	447PT-SC	Downlight or Adjustable - Pewter Alzak®
	447HZ-WH	Downlight or Adjustable - Haze
	447WHZ-WH	Downlight or Adjustable - Wheat Haze
	447WHZ-ABZ	Downlight or Adjustable - Wheat Haze
		35˚ Vertical Adjustment
	448-WH	Eyeball with Black Baffle
	448-SC	Eyeball with Black Baffle
		35˚ Vertical Adjustment
	449-WH	75˚ Vertical Aiming Adjustment
	449-BL	
	449-SC	
	449-ABZ	
	XR16101WH	AVIO Square Gimbal Ring
	XR16101BL	AVIO Square Gimbal Ring
	XR16101GP	AVIO Square Gimbal Ring
	XR16101SL	AVIO Square Gimbal Ring

	Cat. No.	Description
	441W-WH ◆	Adjustable Shower Trim, frosted
	441W-SC ◆	lens with clear center
	441W-ABZ ◆	35˚ Vertical Adjustment
	446-WH	Scoop Adjustable
		50˚ Vertical Adjustment
	4401-WH ◆	Beveled Dome Shower
	4401-SC ◆	Beveled Dome Shower
	4401-ABZ ◆	Beveled Dome Shower
	4402-WH ◆	Beveled Adjustable Shower
	4402-SC ◆	Beveled Adjustable Shower
	4402-ABZ ◆	Beveled Adjustable Shower
	4403FROST-WH	Beveled Adjustable Cylinder
	4403FROST-SC	Beveled Adjustable Cylinder
	4404HZ-SC	Beveled Adjustable Cone
	4404WHZ-ABZ	Beveled Adjustable Cone
	4450MESH-SC	Cylinder
	4480FROST	Solid Glass Collar
		(torsion spring attachment)
	4481CLEAR ◆	All Glass Shower
		(torsion spring attachment)

Note: Lamps may be dimmed. Use dimmers specifically designed for low voltage magnetic transformers; consult factory or dimmer manufacturer for additional information.

Trim Size: 5″ O.D.
Trim Finish: ABZ - Classic Aged Bronze, BL - Black, GP - Graphite,
PW - Plastic White (Polycarbonate material shower trim),
SC - Satin Chrome, SL - Silver, WH - White.
Alzak is a registered trademark of Alcoa Corp.

◆ UL Listed for use in wet location.

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
CL-100

Notes:

Type:

EXIT

ELA-LI11-17083

DUAL LITE

CL Series
Concealed Recessed Emergency Luminaire

Catalog Number	CL-100	
Comments		Type EXIT

12-Volt, self-diagnostic with time-delay, sealed lead-calcium or NiCad battery with remote capacity

FEATURES

Application
The CL series is a recessed, self-contained emergency light with fully automatic operation suitable for wall or ceiling mount applications. With its high wattage lamp offering it offers concealed and unobtrusive emergency lighting compliance for small and large open floor-plans. Two flat panel doors are flush with trim and mounting surface. Upon loss of power, the doors automatically open and reveal the emergency lighting lamp-heads.

Construction
Back-box made of galvanized 20 gauge steel. Galvanized bar hangers span up to 30" on center. Trim and door panels in durable white powder coat finish. Can be wall-papered or field painted. Trim and panel doors are mounted flush with surface with no exposed hardware.

Installation
Wall or ceiling mount. The CL is fully recessed by means of a steel back-box complete with fully adjustable mounting hardware. The modular assembly and quick connector design allow for fast and easy installation. T-bar clips secure unit to grid in ceiling mount applications. Rough-in dimensions: 13.5" X 6.75"., allow 5.5" for panel opening clearance.

Illumination
The CL series provides illumination with two adjustable 12 through 75 watt MR-16 Halogen lamps rated for 2,000 hours of operation. Soft start lamp circuit allows for extended lamp life.

Compliances
UL 924 Listed to 924 Standard
NFPA 101 Life Safety Code
NFPA 70 National Electrical Code
OSHA

Warranty
Full three-year warranty.

ACCESSORIES Order Separately

Part Number	Description
CLRI	Remote Diagnostic Indicator
CLRT	Remote Testing Transmitter
CLRK	Rough-in Kit
CPCLRK	Chicago Plenum Listed Rough-in Kit

ORDERING GUIDE

CL	50	N	H20		-CP
Series	Capacity	Battery Type	Lamp Wattage		Options

Capacity
50 - 50 Watts[1]
100 - 100 Watts[2]
150 - 150 Watts

Battery Type
Blank - Lead Calcium
N - Nickel-Cadmium

Lamp Wattage
H12 - 12 Watt Halogen
H20 - 20 Watt Halogen
H35 - 35 Watt Halogen
H50 - 50 Watt Halogen
H75 - 75 Watt Halogen

Options
-CP - Chicago Plenum Rated[4]
-XK - Less Rough-in Kit[3]

[1] Not available with H35, H50, or H75 lamps
[2] Not available with H75 lamps
[3] To order the rough-in kit only for early installation, add "-XK" option suffix to CL model number and order "CLRK" separately.
[4] For Chicago Plenum rated, order CL model number plus "-XK-CP" and order the "CPCLRK" separately.

HUBBELL

HUBBELL LIGHTING, INC.

Submitted by Electric Lighting Agencies, Inc.

ELA

Job Name:
67 Liberty st - NEW SPEC

Catalog Number:
CL-100

Notes:

Type:

EXIT

ELA-LI11-17083

DUAL LITE

CL Series
Concealed Recessed Emergency Luminaire

SPECIFICATIONS

Electronics
Dual-voltage input of 120/277VAC. Precision controlled motor and cam system ensures smooth and reliable opening and closing of light source. LED indicator provides visible fault detection and AC-On indication. Test switch provides manual activation of a 30-second diagnostic test.

Standard Features Include:
- Self-test, self-diagnostics monitors lamp load transfer circuit, battery capacity, operation and motor drive. 28 day self-test.
- Brownout protection
- Low voltage disconnect prevents deep discharge of the battery
- Voltage polarity protected by use of polarized connector
- 15 minute time delay re-transfer
- Fused remote leads for units with remote capacity

Optional Accessories
CLRT- Remote IR Testing Transmitter. Selectable 30-second or 90-minute remote testing. Only one required for multiple units.
CLRI- Remote Diagnostic Indicator Display.

Operating Temperature Range
Lead Calcium Battery: 16°C to 32°C (60°F to 90°F)
Nickel Cadmium Battery: 0°C to 38°C (32°F to 100°F)

Overall Size: 16"L X 13.5"W X 4"D
Weight: 23-31 lbs. depending upon capacity

REMOTE CAPACITY CHART

Part Number	Run Time[1]	Remote Capacity	Remote Watts[2]
CL50H12	3.0 Hours	Yes	26
CL50NH12	3.0 Hours	Yes	26
CL50H20	2.0 Hours	No	--
CL50NH20	2.0 Hours	No	--
CL100H12	6.0 hours	Yes	76
CL100NH12	6.0 Hours	Yes	76
CL100H20	4.0 Hours	Yes	60
CL100NH20	4.0 Hours	Yes	60
CL100H35	2.0 Hours	Yes	30
CL100NH35	2.0 Hours	Yes	30
CL100H50	1.5 Hours	No	--
CL100NH50	1.5 Hours	No	--
CL150H12	9.0 Hours	Yes	126
CL150NH12	9.0 Hours	Yes	126
CL150H20	6.0 Hours	Yes	110
CL150NH20	6.0 Hours	Yes	110
CL150H35	4.0 Hours	Yes	80
CL150NH35	4.0 Hours	Yes	80
CL150H50	2.0 Hours	Yes	50
CL150NH50	2.0 Hours	Yes	50
CL150H75	1.5 Hours	No	--
CL150NH75	1.5 Hours	No	--

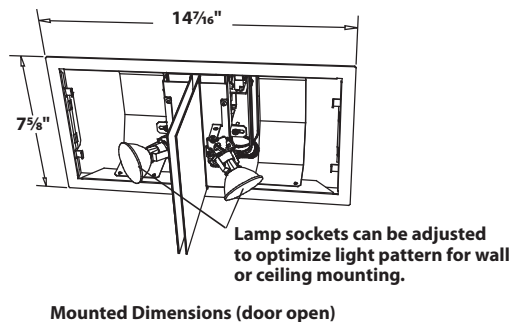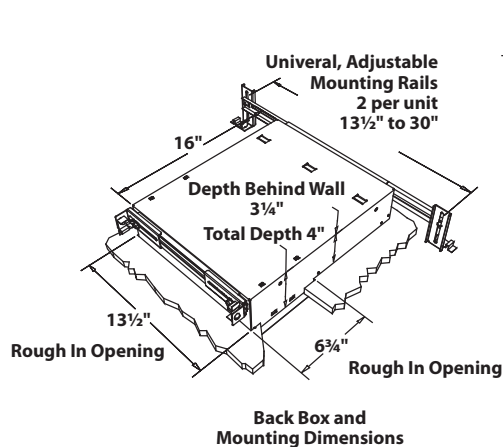[1]Unit battery run time for integral lamps only (no remote lamps connected).
[2]Max. watts available for connection of remote lamps at 1.5 Hour unit minimum run time.

SUGGESTED CENTER-TO-CENTER SPACING

Lamp	Type	Ceiling Height			
		10'	12'	16'	20'
H12	12W Halogen	17'	17'	16'	16'
H20	20W Halogen	36'	36'	34'	34'
H35	35W Halogen	65'	65'	58'	64'
H50	50W Halogen	70'	70'	70'	70'
H75	75W Halogen	130	140'	134'	140'

Based on minimum illuminance of 0.1FC and average illuminance of 1.0FC. Assumes fixture is ceiling mounted in a 200' W X 200' L open space with reflectance of 80/50/20.

DIMENSIONS

Univeral, Adjustable Mounting Rails 2 per unit 13½" to 30"

16"

Depth Behind Wall 3¼"
Total Depth 4"

13½"

Rough In Opening

6¾"

Rough In Opening

Back Box and Mounting Dimensions

14⁷⁄₁₆"

7⁵⁄₈"

Lamp sockets can be adjusted to optimize light pattern for wall or ceiling mounting.

Mounted Dimensions (door open)