


1 Meridian Place
The Meridian Retirement Community
Fire Restoration

Type 1 Light Fixture

	
GOODKEY, WEEDMARK & ASSOCIATES LIMITED Consulting Engineers 1688 Woodward Dr., Ottawa, ON Canada K2C 3R8 Tel.: 613-727-5111, Fax: 613-727-5115, info@gwal.com	
REVIEWED <input checked="" type="checkbox"/>	REVISE & RESUBMIT <input type="checkbox"/>
REVIEWED AS NOTED <input type="checkbox"/>	REJECTED <input type="checkbox"/>
For general conformance only. Contractor remains responsible for equipment & system details, performance, accuracy, dimensions and coordination.	Date: June 24, 2019
	GWA #: 2019-148
	SD #: SE01
	By: M.Trottier

- Received from Lamarche - 20 June 2019.
- Reviewed w/ comments by TBIL (FB) - 21st.
(Refer to page 3 for comments).



MCBR Renovations

19-1190

Lamarche Electric inc.
9374 County Road 17
Rockland, ON K4K 1K9
Phone: 613-747-8882
Fax: 613-747-8886
Contact: Dan Denis



Date: Jun 19, 2019

Flux Lighting
100-2936 Baseline Road
Ottawa ON K2H 1B3
Phone: (613) 592-9948
Fax:

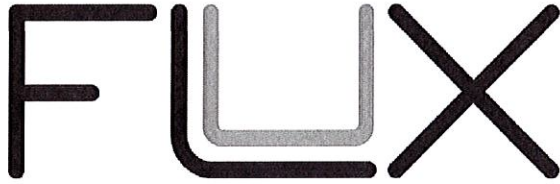
Job Name
19253 - Meridien Retirement
FLUX19-15406
Ottawa ON

Bid Date
Apr 25, 2019

Submittal Date
Jun 19, 2019

Agency:
Flux Lighting
100-2936 Baseline Road
Ottawa ON K2H 1B3

Architect:
Hobin Architecture Inc.
63 Pamilla Street
Ottawa ON K1S 3K7



Jun 19, 2019

LAMARCHE ELECTRIC INC.

REVIEWED: 2019-20-06

REVIEWED BY: Daniel Denis

ECRA/ESA License 7002052

RE: 19253 - Meridien Retirement
Ottawa ON

Type	MFG	Part
TYPE 1	✓Atlantic Lighting	LED4-SYL20-35K-U + 4LED10-CL <i>c/w Dimming</i>
TYPE 2	✓Cree Canada	C-TR-A-BT22-33L-35K-WH <i>c/w Dimming & wire Guard.</i>
TYPE 3	✓Lumenwerx	QUAWW-HLO-LED-80-750-35-4FT- UNV-D1-1-DRM-W
TYPE 4	✓Lumenwerx	POROPD-24-ULO-5H-LED-80-3500-30- UNV-D1-1-53WAC96-W
<i>Alternate</i> → TYPE 5	Visioneering	LTL48-LED835K030LUNV
TYPE 6	✓Atlantic Lighting	LED4-SYL20-35K-U + 4LEDFR-CL <i>- Weatherproof.</i>
<i>Alternate</i> → TYPE 7	Tech Lighting	700OWGAG8308DZUNVS
TYPE 8	✓Atlantic Lighting	SLED1018-SYL20-35K-CL-WH
TYPE 9	✓Lumenwerx	QUAWP-HLO-LED-80-750-35-4FT-UNV- D1-1-53WAC96-W <i>90 CRI ? GWAL to confirm.</i>
EBU	Beghelli Canada Inc.	NV12200-2SR7WLED-120277347V
DRH	Beghelli Canada Inc.	SR2 12V 7WLED
DRH WP	Beghelli Canada Inc.	BOL-WP-R-2 12V7WLED-WHT
RM EXIT	Beghelli Canada Inc.	SL-RMSPLU-0LR-M-120347V-90SP
CM OCC	Lutron Electronics Canada Inc.	LOS-CDT-2000R-WH
CM OCC	Lutron Electronics Canada Inc.	PP-DV

RECESSED

LED 4" open
1100, 1500, 2000 or 3000 lumens

architectural

Project: _____
Type: _____
Catalog number: _____



frame-in kit

- This fixture is universal 120-277V when using the standard 0-10V dimming driver. Voltage must be specified when using optional drivers. A (3) designated fixture will be for 347V, contact factory for specs.
- Prewired and grounded junction box with galvanized snap-on covers. Listed for through branch circuit wiring.
- Universal mounting brackets provide tool-less adjustability and will accept the supplied hanger bars or optional #517 and #520 Caddy bars. Also accepts C channel.
- Electrogalvanized plated steel hanger bars are included as factory standard. Bars extend to 24" and offer self-nailing and additional mounting features.
- 5-year LED component warranty details at atlantic-lighting.com/main/support.

OSRAM Sylvania LED Module

- 80+ CRI
- 90 CRI option offered. Lower lumen output and reduced lumens per watt will be experienced with this option.
- Rated Life: 50,000 hours at 70% lumen maintenance (L70) when maintained in a 45°C ambient environment with open air flow. Ambient temperatures lower than 45°C may extend life of module.



OSRAM Sylvania Electronic LED Driver

- Dimmable, instant 100% light, (1%-100%) via: 0-10V protocol. Contact factory for optional dim-to-off and soft-start programming. See driver spec.

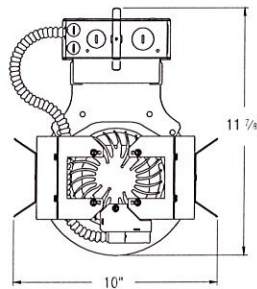
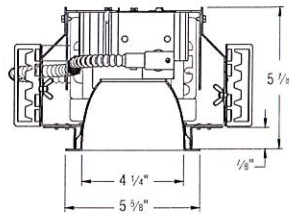
Passive Heat Sink

- Black anodized aluminum

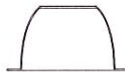
This LED fixture is intended for non-IC applications, insulation must be kept 3" away from fixture on all sides. Not for use within enclosures.

Listed for Damp Location. Listed to UL 1598 and Canadian standards. ENERGY STAR® qualified (120V/277V, 80 CRI and with standard driver only). Photometrics at atlantic-lighting.com.

R.O. Ø 5"
Maximum ceiling
thickness ½"

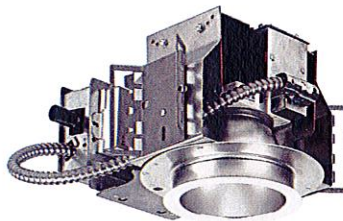


TRIM KIT



open reflector
4LED10 Standard open
70° beam angle

Precision spun .052 aluminum self-flanged reflector offered in clear with optional finishes, and in white. Flange is white as factory standard, optional polished flange will match reflector finish. Contact factory for optional reflector colors.



ordering data

FRAME-IN KIT

SERIES..... **LED4**

LED4 Architectural 4" LED

LUMENS*

SYL11 1100 lumen module
SYL15 1500 lumen module
SYL20 2000 lumen module
SYL30 3000 lumen module

COLOR TEMPERATURE

27K 2700K
3K 3000K
35K 3500K
4K 4000K
5K 5000K

VOLTAGE

U Universal 120V-277V
1 120V
2 277V
3 347V Contact Factory

DIMMING

0-10V DC standard, leave box blank

LDE

Lutron® EcoSystem® (100%-1%, Fade-to-Black™)

LTE

Lutron® 2-wire forward-phase (100%-1%) (120V only)

DAL

DALI (Type 6, IEC62386) Driver; Dimming to 0.1%

DMX

DMX Driver with RDM capability; Dimming to 0.1%

Must specify voltage with optional dimming.

OPTIONS

9CR 90 CRI, effects lumens per watt. Not offered in 5K.
LEM Emergency Pack, Bodine #BSL17C-C2 or equivalent. Increases length.
ILEM Internal EM with test button in reflector

TRIM KIT

Refer to left for part numbers. Specify finish & other below.

Finishes

CL Specular clear
SS Semi-specular clear
HZ Haze clear (etched)
WH Matte white

Other

PF Polished flange
ITS Internal test switch hole. Must be specified with ILEM.
GS Gasket under flange

*Listed lumens and wattages are component measurements. See photometrics for fixture values.

P/N Example: LED4-SYL11-27K-U / 4LED10-CL

LED4-SYL11-27K-U / 4LED10-CL

series	lumens	voltage temp	options	trim kit	other finish
LED4-SYL11-27K-U	1100	120V	0-10V	4LED10	CL

LAMARCHE ELECTRIC INC.

REVIEWED: 2019-20-06


REVIEWED BY: Daniel Denis

Specifications and dimensions
subject to change without notice.



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Type 2 Light Fixture

	
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	GWA #: 2019-148
	SD #: SE02
	By: M.Trottier

ZR-C Commercial Series

ZR22™ 2' x 2' Commercial Series LED Troffer with Matte Finish

Product Description

The ZR-C Commercial Series is a commercial spec-grade LED troffer delivering superior energy efficiency of up to 135 lumens per watt for maximum energy savings. The ZR-C delivers a visually comforting aesthetic with better light distribution enhanced with a soft matte finish housing. ZR-C Commercial Series comes standard with 80+ CRI color quality, 0-10V dimming down to 5% standard, and a new unique snap and lock room-side removable lens, making it the perfect combination of affordability and performance.

Performance Summary

Efficacy: Up to 135 LPW

Initial Delivered Lumens: 3,200 or 4,000 lumens

Input Power: 26 or 32 watts

CRI: 80+ CRI

CCT: 3000K (32L only), 3500K, 4000K, 5000K (32L only)

Input Voltage: 120-277 VAC

Limited Warranty: 5 years on luminaire

Limited Warranty Emergency Back Up (EB) Battery: 1 Year on Battery Back Up. Test regularly in accordance with local codes

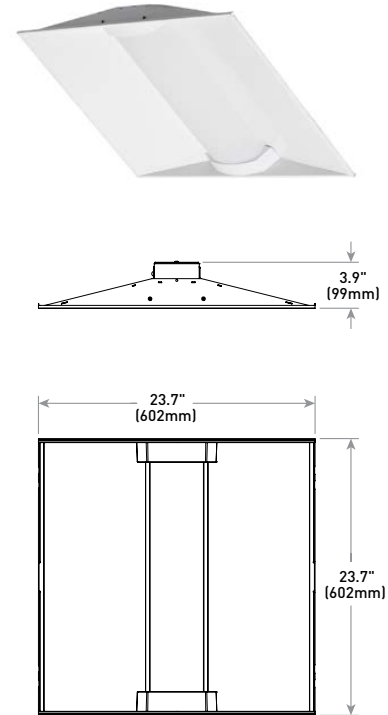
Controls: 0-10V dimming to 5%

Mounting: Recessed*

Room-side accessible snap and lock removable lens

* See <http://lighting.cree.com/warranty> for warranty terms

* Not intended for use with 9/16" T-Bar grids unless used with a 9/16" accessory clip like "Armstrong" LFC- Fixture Clip" which can be purchased through distribution. Consult factory for non-standard grid applications.



Accessories

Field-Installed

Drywall Grid Adapter

DGA22-WHT

Surface Mount Kit

SMK-ZR22

- Not for use with EB14 or

SmartCast® Technology

Flexible Power Whip

PW-18/4-06-PT-SS

- For use in non-dimming applications only

Wireless 0-10V Dimming/Switching Interface with Cree SmartCast® Technology

CIF-10V-CWC-SNSR

- For use with luminaires with 10V controls when integral SmartCast isn't available

Cree SmartCast® Technology Configuration Tool

CCT-CWC-1

- One required per project when CIF-10V is selected

Chicago Plenum Field Kit

CPLZR

- Fits all ZR types to be installed in the field

Ordering Information

Example: ZR22C-32L-35K-10V-FD

Product	Initial Delivered Lumens	CCT	Voltage	Control	CRI	Options
ZR22C	32L 26W, 3,200 lumens 40L 32W, 4,000 lumens	30K 3000K - Available with 32L only 35K 3500K 40K 4000K 50K 5000K - Available with 32L only	Blank 120-277 Volt	10V 0-10V dimming to 5%	FD 80+ CRI	EB14 Emergency Backup - 1,400 lumens - Provides 90 minutes of emergency operation

LAMARCHE ELECTRIC INC.

REVIEWED: 2019-03-08

REVIEWED BY: Daniel Denis

Rev. Date: 04/03/15/2018



DGA

Drywall Grid Adaptor for CR, LR, ZR, and FLEX Series Troffers, and C-Lite™ Series Flat Panel Troffers

Product Description

The DGA "lay-in" accessory enables Cree troffers to easily install into plaster and sheet rock ceilings. It may be installed into any hard ceiling to create a simple t-bar style opening.

Product Specifications

INSTALLATION

- DGA24-WHT Rough in Dimensions: 48.37" x 24.37" (1228.7mm x 619.1mm)
- DGA14-WHT Rough in Dimensions: 48.37" x 12.56" (1228.7mm x 319.1mm)
- DGA22-WHT Rough in Dimensions: 24.37" x 24.37" (619.1mm x 619.1mm)
- Tolerance for L or W: +.125"/-0 (+3mm/-0)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed

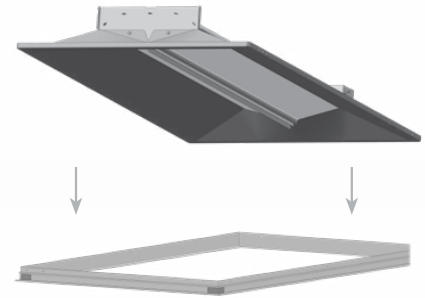
Limited Warranty†: 1 year on accessories

† See <http://lighting.cree.com/warranty> for warranty terms

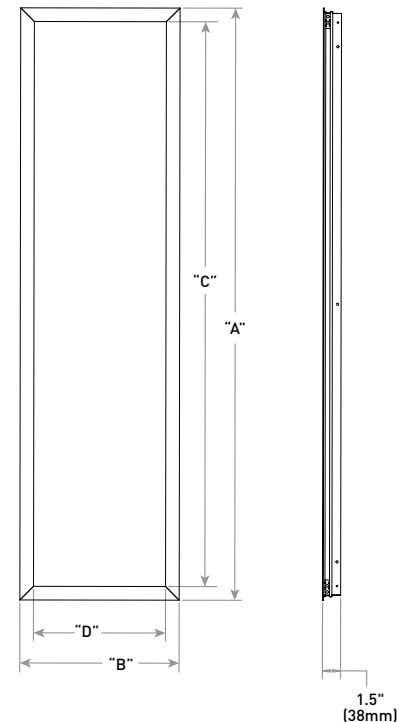
Ordering Information

Example: DGA14-WHT

Product
DGA14-WHT (single-pack) DGA14-WHT-10PK (10-pack) CR14, FLX14, ZR14, and C-TR-* -FP14 compatible
DGA22-WHT (single-pack) DGA22-WHT-10PK (10-pack) CR22, FLX22, LR22, ZR22, and C-TR-* -FP22 compatible
DGA24-WHT (single-pack) DGA24-WHT-10PK (10-pack) CR24, FLX24, ZR24, and C-TR-* -FP24 compatible



NOTE: Luminaire not included.




Product	DIM "A"	DIM "B"	DIM "C"	DIM "D"
DGA14-WHT	49" (1245mm)	13.2" (335mm)	46.7" (1187mm)	10.9" (228mm)
DGA22-WHT	25" (635mm)	25" (635mm)	22.7" (578mm)	22.7" (578mm)
DGA24-WHT	49" (1245mm)	25" (635mm)	46.7" (1187mm)	22.7" (578mm)

LAMARCHE ELECTRIC INC.

REVIEWED: 2019-03-08

REVIEWED BY: Daniel Denis

ECRA/ESA License 7002052

 **CA RESIDENTS WARNING:** Cancer and Reproductive Harm -
www.p65warnings.ca.gov



Rev. Date: V5 03/20/2019

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US: lighting.cree.com

T (800) 236-6800 F (262) 504-5415


Canada: www.cree.com/canada



T (800) 473-1234 F (800) 890-7507

1 Meridian Place
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Fire Restoration

Type 3 Light Fixture

	
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REVIEWED AS NOTED <input type="checkbox"/>	REJECTED <input type="checkbox"/>
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	GWA #: 2019-148
	SD #: SE03
	By: M.Trottier

Submitted by Flux Lighting Amanda Wiseman

FLUX
Phone (613) 592-9948
www.fluxlighting.ca

Job Name:
19253 - Meridien Retirement
Agency: Flux Lighting (Ottawa)
Architect: Hobin Architecture Inc. (Ottawa)

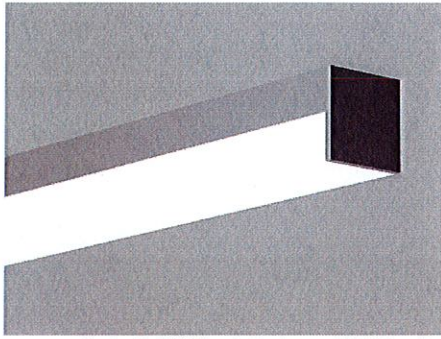
Catalog Number:
QUAWW-HLO-LED-80-750-35-4FT-
UNV-D1-1-DRM-W
Notes:

Type:
TYPE 3
FLUX19-15406

QUAD WIDE

WALL

LUMENWERX
WWW.LUMENWERX.COM



Quad wide DRM bracket - shown with HLO optics

DESCRIPTION

Quad is the simply designed and crisply executed linear luminaire for circulation, general, and utility applications. The High-efficiency Lambertian Optic provides excellent luminous efficacy and uniform luminosity across the diffuser. Quad is available in either a wide 3.5" or narrow 2.5" profile, along with surface and wall models, and can be installed in continuous runs. Not with standing the compact form, a full range of electrical and integrated control options is available.



PROJECT: _____
TYPE: _____
NOTES: _____

up to 122 lm/w performance

ORDER GUIDE

QUAWW	HLO	LED			
LUMINAIRE ID	OPTICS	LIGHT SOURCE	CRI	LUMEN PACKAGES	COLOR TEMP.
QUAWW - quad wide wall	HLO - High-Efficiency Lambertian Optic	LED - high performance LED	80 - 80CRI 90 - 90CRI	550 - min. low output 550lm/ft 750 - medium output 750lm/ft 1000 - high output 1000lm/ft 1200 - max. ultra high output 1200lm/ft ### - other required lm/ft	30 - 3000k 35 - 3500k 40 - 4000k

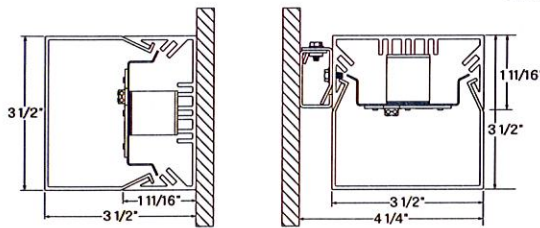
4FT				
LUMINAIRE LENGTH	VOLTAGE	DRIVER	ELECTRICAL	MOUNTING
Standard sections - 4' 8" & 12' For all other specify length #FT - nominal length in feet Continuous Run - for luminaires over 8'	120 - 120V 277 - 277V UNV - 120V-277V 347 - 347V (not available with Lutron)	D1 - 1% dimming 0-10V DA - Dali LTEA2W - Lutron 1% - 2 wire FF 120V LDE1 - Lutron Hi-lume 1% Eco LDE5 - Lutron 5% EcoSystem	1 - 1 circuit +EB - emergency battery (min 4' fixture, except Lutron) +EM - emergency light circuit +NL - night light circuit +GTD### - generator transfer device, 120V or 277V	DRM - drywall mounting DMB - drywall mounting bracket

See page 2 for ordering code detailed information

FINISH	CONTROLS	OPTIONS
W - matte white AL - aluminum CF# - custom finish specify RAL#	STANDALONE CONTROLS OMS - Onboard Occupancy ODS - Onboard Daylight OCS - Onboard Occupancy & Daylight CONNECTED CONTROLS CCS() - LU-Lutron, EN-Enlighted, OS-Osram, CR-Crestron. To specify see information on page 2	FU - fuse CU - custom

LAMARCHE ELECTRIC INC.
REVIEWED: 2019-20-06
REVIEWED BY: Daniel Denis
OPTICS ECRA/ESA License 7002052

CROSS SECTION



QUAWW - quad wide wall - DRM


QUAWW - quad wide wall - DMB

HLO - High-efficiency Lambertian Optic



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Type 4 Light Fixture

	
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	GWA #: 2019-148
	SD #: SE04R1
	By: M.Trottier

- Color to be 3500K

POP CORE ROUND 24 LED



PENDANT DIRECT



Shown with 3.5" optics



Shown with 5" optics

PROJECT: _____

TYPE: _____

NOTES: _____

DESCRIPTION

POP Core features a simple, uniformly luminous diffuser and delivers up to 110 LPW. The diffuser and light engine form a fully enclosed unit with no exposed hardware.

ORDER GUIDE

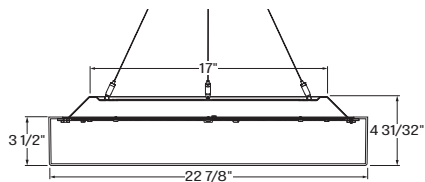
up to 110 lm/w performance

LUMINAIRE ID	SIZE	OPTICS	HEIGHT	LIGHT SOURCE	CRI	LUMEN PACKAGES
POROPD - pop round pendant direct	24 - 24" diameter	ULO - Uniform Lambertian Optic	3H - 3.5" optic 5H - 5" optic	LED - high performance LED	80 - 80CRI 90 - 90CRI	2500 - min. low output 2500lm 3500 - medium output 3500lm 4500 - max. high output 4500lm #### - other required lm
COLOR TEMP.	VOLTAGE	DRIVER	ELECTRICAL	MOUNTING	FINISH	OPTIONS
30 - 3000k 35 - 3500k 40 - 4000k 50 - 5000k	120 - 120V 277 - 277V UNV - 120V-277V 347 - 347V	D1 - 1% dimming 0-10V DA - Dali	1 - 1 circuit +GTD### - generator transfer device, 120V or 277V	53WAC96 5WAC36 - power 5" white canopy (36" air craft cable) For all other options refer to our Pendant Mounting Guide	W - matte white CF# - custom finish specify RAL#	FU - fuse CU - custom

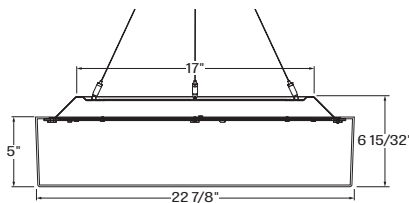
See page 3 for ordering code detailed information

LAMARCHE ELECTRIC INC.
REVIEWED: 2019-03-08
REVIEWED BY: Daniel Denis
ECRA/ESA License 7002052

CROSS SECTION



POROPD + 3H - pop round pendant with 3.5" optics




POROPD + 5H - pop round pendant with 5" optics



1 Meridian Place
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Type 5 Light Fixture

	<p>GOODKEY, WEEDMARK & ASSOCIATES LIMITED Consulting Engineers 1688 Woodward Dr., Ottawa, ON Canada K2C 3R8 Tel.: 613-727-5111, Fax: 613-727-5115, info@gwal.com</p>
<p>REVIEWED <input type="checkbox"/></p> <p>REVIEWED AS NOTED <input checked="" type="checkbox"/></p> <p>For general conformance only. Contractor remains responsible for equipment & system details, performance, accuracy, dimensions and coordination.</p>	<p>REVISE & RESUBMIT <input type="checkbox"/></p> <p>REJECTED <input type="checkbox"/></p> <p>Date: July 11, 2019</p> <p>GWA #: 2019-148</p> <p>SD #: SE05R1</p> <p>By: M. Trottier</p>

- Length shown on electrical drawings

Lengths as per sketch from Hobin Architecture.

SHOP DRAWING REVIEW

REVIEWED

REVIEWED AS NOTED

REVISE AND RESUBMIT



"This review is for the sole purpose of ascertaining conformance with the general design concept for architectural features only, and does not in any way constitute review of the design of engineering elements which form part of the Contract Documents prepared by others. This review shall not mean that the Architect approves the detail design inherent in the shop drawings. This responsibility shall remain with the Contractor submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawings or of his responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes, or to techniques of construction and installation and for co-ordination for the work of all trades."

By: Bryan Bonell Date: July 12, 2019
 HOBIN ARCHITECTURE INCORPORATED

Submitted by Flux Lighting Rebecca Downey

FLUX
Phone (613) 592-9948
www.fluxlighting.ca

Job Name:
19253 - Meridien Retirement
Agency: Flux Lighting (Ottawa)
Architect: Hobin Architecture Inc.
(Ottawa)

Catalog Number:
2FT RUN OF SCD-M-12-35-MULT +
CBL-2P-LWH-LDR-UNV-10

Notes:

Type:
TYPE 5-2FT

FLUX19-15406

ECOSENSE®

SLIM COVE™ DIM

OVERVIEW • SPECIFICATIONS • ORDERING

INTERIOR | MEDIUM OUTPUT

DATE	PROJECT	FIRM	TYPE
------	---------	------	------

SLIM COVE DIM IS THE SMALLEST, LINE-VOLTAGE, 400 LUMEN/FOOT, LUMINAIRE ON THE MARKET. SINGLE BINNING DELIVERS SUPERIOR COLOR QUALITY AND COLOR CONSISTENCY BETWEEN ALL ECOSENSE PRODUCTS.

FEATURES :

- DIM TO 10%, ELV REVERSE PHASE
- ULTRA LOW PROFILE MAINTAINED WHILE AIMING
- UP TO 123 lm/W
- MULTI-VOLT 120-277VAC
- SINGLE BIN COLOR MATCHES TROV
- 4 CCT OPTIONS
- 80+ CRI



MODEL	POWER	LENGTH	CCT	VOLTAGE
SCD	M Medium Output	12 12" 48 - 48"	27 - 2700K 30 - 3000K 35 3500K 40 - 4000K	MULT (120-277VAC)

EXAMPLE: SCD-M-12-27-MULT

PERFORMANCE	POWER	WATTS	OPTIC	CCT	LUMEN OUTPUT	EFFICACY
	M	4W	120°	2700K	430 lm/ft (1411 lm/m)	108 lm/W
	M	4W	120°	3000K	470 lm/ft (1542 lm/m)	118 lm/W
	M	4W	120°	3500K	490 lm/ft (1608 lm/m)	123 lm/W
	M	4W	120°	4000K	470 lm/ft (1542 lm/m)	118 lm/W

COLOR RENDERING INDEX 80+
COLOR CONSISTENCY SINGLE BIN 2-STEP MACADAM ELLIPSE

LUMEN DEPRECIATION / RATED LIFE	AMBIENT	L70 (hr)	L80 (hr)	L90 (hr)
	77°F (25°C)	143,000	91,000	45,000
	122°F (50°C)	90,000	68,000	30,000

CALCULATIONS FOR LED LIFE ARE BASED ON MEASUREMENTS THAT COMPLY WITH IES LM-80 TESTING PROCEDURES AND IES TM-21 CALCULATOR

ELECTRICAL	POWER CONSUMPTION	4W/ft (13.2W/m)
	MAX FIXTURE RUN LENGTH	120V = 90ft (27.4m) ; 220V = 170ft (51.8m) ; 277V = 200ft (60.9m)
	POWER FACTOR	120VAC > 0.85, 230VAC > 0.80, 277VAC > 0.75
	OPERATING VOLTAGE	120-277VAC, 50/60 Hz
	DRIVER	INTEGRAL TO FIXTURE; DE-RATED

CONTROL	DIMMING
---------	---------

LAMARCHE ELECTRIC INC.

REVIEWED: 2019-03-08

REVIEWED BY: Daniel Denis

ECRA/ESA License 7002052

ECOSENSE LIGHTING INC.
837 NORTH SPRING STREET
SUITE 103
LOS ANGELES, CA 90012

P • 310.496.6255
F • 310.496.6256
T • 855.632.6736
855.6.ECOSEN

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ECOSENSELIGHTING.COM

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ECOSENSE®

SLIM COVE™ DIM

OVERVIEW • SPECIFICATIONS • ORDERING

INTERIOR | MEDIUM OUTPUT

DATE	PROJECT	FIRM	TYPE
PHYSICAL	DIMENSIONS	W 1.55" x H 1.16" x L 12"/48"; (39.4mm x 29.4mm x 304.7mm/1201mm)	
	HOUSING/LENS	EXTRUDED POLYCARBONATE HOUSING AND LENS	
	WEIGHT	0.313lbs / 0.141kg (1ft) / 1.113lbs / 0.504kg (4ft)	
	CONNECTORS	INTEGRAL MALE/ FEMALE CONNECTORS	
	ENVIRONMENT	INDOOR • ETL CERTIFIED FOR DRY/DAMP LOCATIONS IP40 AND IMPACT RATED AT IK07	
	MOUNTING OPTIONS	INCLUDES EASY TO INSTALL MOUNTING CLIPS THAT ALLOW 50 DEGREE ADJUSTABILITY	

FIXTURE RATING & CERTIFICATIONS

CE, ETL CERTIFIED
RoHS COMPLIANT
ENERGY STAR COMPLIANT



IP40 IK07

LIMITED WARRANTY 5 YEARS

WIRING OPTIONS (UNIVERSAL) 120-277VAC

Cable Assembly, 2-Pin, White, Leader, Universal Voltage, with Terminator Cap, 10 feet	CBL-2P-LWH-LDR-UNV-10
Cable Assembly, 2-Pin, White, Jumper, Universal Voltage, 5 feet	CBL-2P-LWH-JMP-UNV-5
Cable Assembly, 2-Pin, White, Jumper, Universal Voltage, 1 foot	CBL-2P-LWH-JMP-UNV-1
Cable Assembly, 2-Pin, White, Jumper, Universal Voltage, 3 inch	CBL-2P-LWH-JMP-UNV-03

0-10V CONTROL OPTIONS

100-120VAC / 277VAC SCD Dimming Control Module 0-10V - Plenum Rated	SCD-DCM-120-277-010V-WH
---	--------------------------------

All products come standard with ELV dimming capabilities. 0-10V Control options required for operation at 0-10V.

OPTIONAL ACCESSORIES

Mounting

Mounting Track, 48 inch **SCD-A-MNT-TRK-48** MOUNTING TRACK IS 48" LONG AND IS FIELD CUTABLE. THE MOUNTING FEET THAT ARE INCLUDED WITH THE FIXTURES CLIP INTO THE TRACK. NO ADDITION PARTS NEEDED.

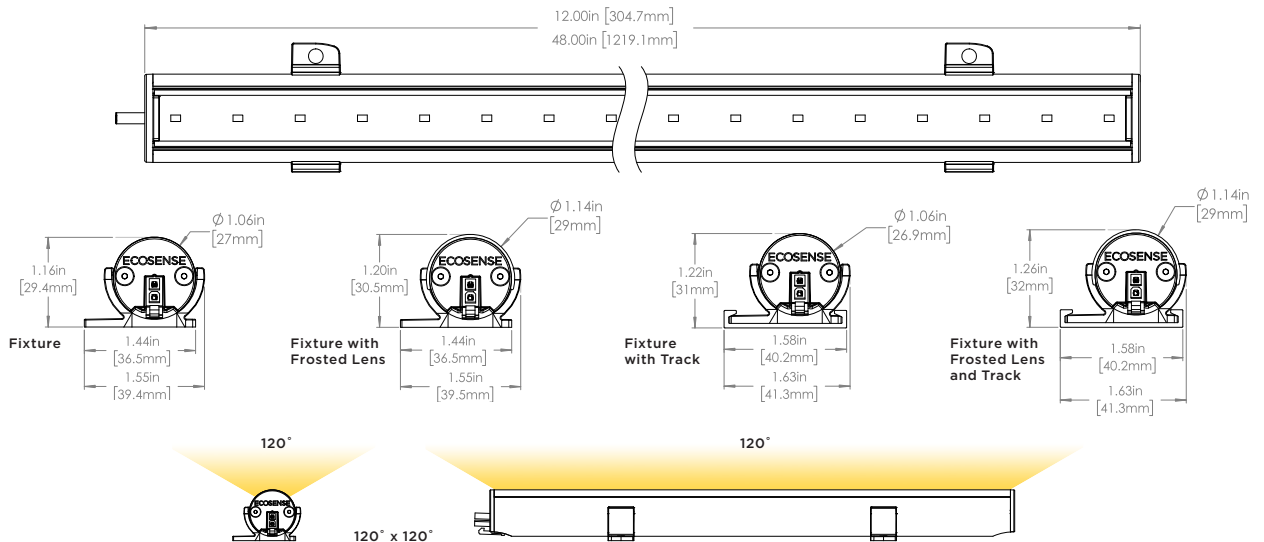
Snap-on Lenses

Snap-on Lens, Frosted, 12 inch, SCD **SCD-A-FRLS-12** SNAP-ON LENSES NEED = ONE 12" LENS IS NEEDED PER 12" FIXTURE AND ONE 48" LENS IS NEEDED PER 48" FIXTURE. FROSTED LENSES ARE 20% DIFFUSE.

Snap-on Lens, Frosted, 48 inch, SCD **SCD-A-FRLS-48**

Wire Box

Conduit Connection Wire Box, SCD, White **SCD-A-WIREBOX** WIRE BOX CAN BE USED INSTEAD OF A LEADER CABLE TO START A RUN. 1/2" CONDUIT FITTING CAN ATTACH DIRECTLY TO THE BOX ON ONE END AND THE FIXTURE TO THE OTHER



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ECOSENSE®

SLIM COVE™ DIM

OVERVIEW • SPECIFICATIONS • ORDERING

INTERIOR | MEDIUM OUTPUT

DATE	PROJECT	FIRM	TYPE
------	---------	------	------

SLIM COVE DIM IS THE SMALLEST, LINE-VOLTAGE, 400 LUMEN/FOOT, LUMINAIRE ON THE MARKET. SINGLE BINNING DELIVERS SUPERIOR COLOR QUALITY AND COLOR CONSISTENCY BETWEEN ALL ECOSENSE PRODUCTS.

FEATURES :

- DIM TO 10%, ELV REVERSE PHASE
- ULTRA LOW PROFILE MAINTAINED WHILE AIMING
- UP TO 123 lm/W
- MULTI-VOLT 120-277VAC
- SINGLE BIN COLOR MATCHES TROV
- 4 CCT OPTIONS
- 80+ CRI



MODEL	POWER	LENGTH	CCT	VOLTAGE
SCD	M Medium Output	12 - 12" 48 - 48"	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	MULT (120-277VAC)

EXAMPLE: SCD-M-12-27-MULT

PERFORMANCE	POWER	WATTS	OPTIC	CCT	LUMEN OUTPUT	EFFICACY
	M	4W	120°	2700K	430 lm/ft (1411 lm/m)	108 lm/W
	M	4W	120°	3000K	470 lm/ft (1542 lm/m)	118 lm/W
	M	4W	120°	3500K	490 lm/ft (1608 lm/m)	123 lm/W
	M	4W	120°	4000K	470 lm/ft (1542 lm/m)	118 lm/W

COLOR RENDERING INDEX 80+
COLOR CONSISTENCY SINGLE BIN 2-STEP MACADAM ELLIPSE

LUMEN DEPRECIATION / RATED LIFE	AMBIENT	L70 (hr)	L80 (hr)	L90 (hr)
	77°F (25°C)	143,000	91,000	45,000
	122°F (50°C)	90,000	68,000	30,000

CALCULATIONS FOR LED LIFE ARE BASED ON MEASUREMENTS THAT COMPLY WITH IES LM-80 TESTING PROCEDURES AND IES TM-21 CALCULATOR

ELECTRICAL	POWER CONSUMPTION	4W/ft (13.2W/m)
	MAX FIXTURE RUN LENGTH	120V = 90ft (27.4m) ; 220V = 170ft (51.8m) ; 277V = 200ft (60.9m)
	POWER FACTOR	120VAC > 0.85, 230VAC > 0.80, 277VAC > 0.75
	OPERATING VOLTAGE	120-277VAC, 50/60 Hz
	DRIVER	INTEGRAL TO FIXTURE; DE-RATED

CONTROL	DIMMING	ELV TYPE 10%-99%, REVERSE PHASE, TRAILING EDGE * See dimmer compatibility sheet on page 3 for dimmers that achieve 10% low end dimming.
---------	---------	--

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ECOSENSE®

SLIM COVE™ DIM

OVERVIEW • SPECIFICATIONS • ORDERING

INTERIOR | MEDIUM OUTPUT

DATE	PROJECT	FIRM	TYPE
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FIXTURE RATING & CERTIFICATIONS

CE, ETL CERTIFIED
RoHS COMPLIANT
ENERGY STAR COMPLIANT



IP40 IK07

LIMITED WARRANTY 5 YEARS

WIRING OPTIONS (UNIVERSAL) 120-277VAC

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Cable Assembly, 2-Pin, White, Jumper, Universal Voltage, 5 feet	CBL-2P-LWH-JMP-UNV-5
Cable Assembly, 2-Pin, White, Jumper, Universal Voltage, 1 foot	CBL-2P-LWH-JMP-UNV-1
Cable Assembly, 2-Pin, White, Jumper, Universal Voltage, 3 inch	CBL-2P-LWH-JMP-UNV-03

0-10V CONTROL OPTIONS

100-120VAC / 277VAC SCD Dimming Control Module 0-10V - Plenum Rated	SCD-DCM-120-277-010V-WH
---	-------------------------

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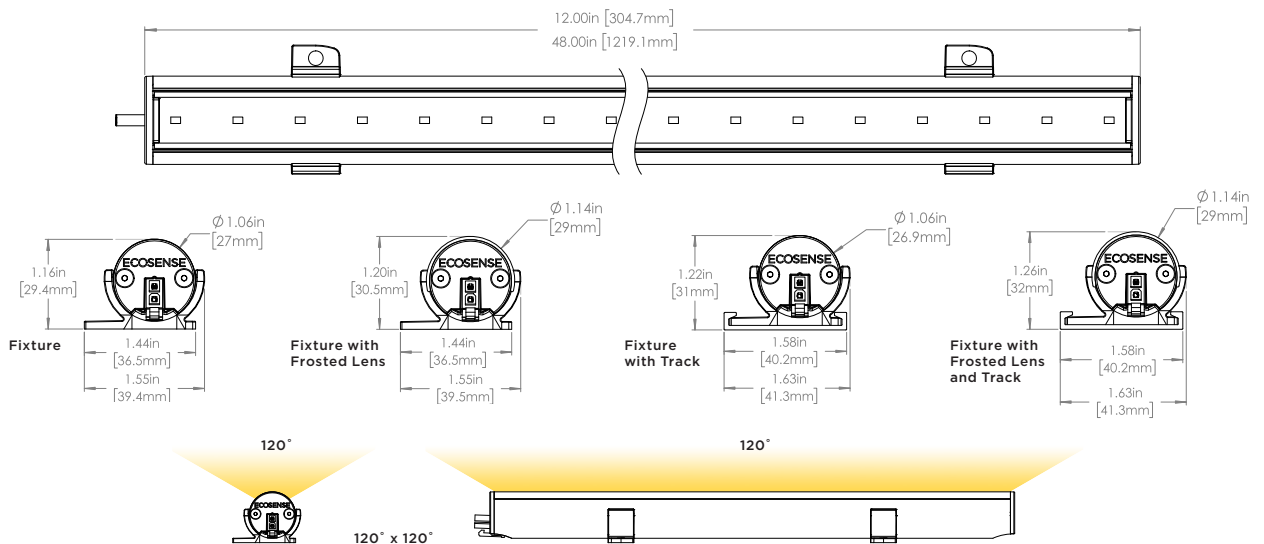
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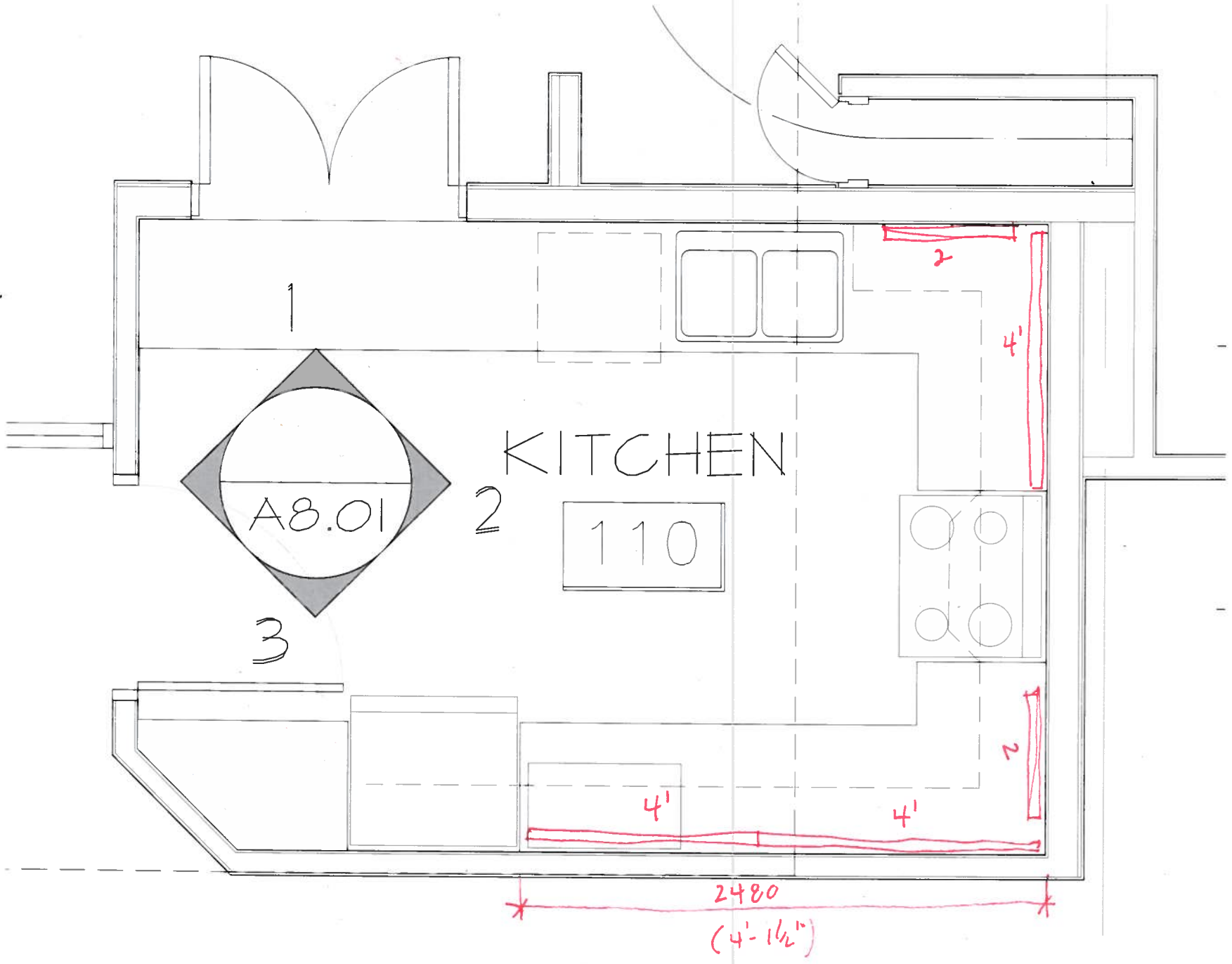
ECOSENSE LIGHTING INC.
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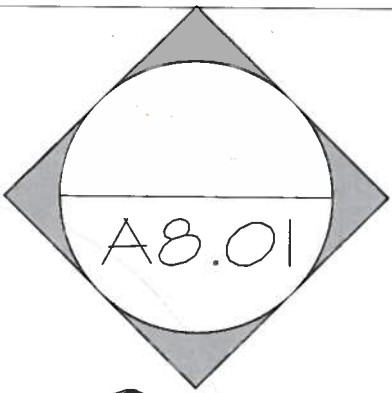
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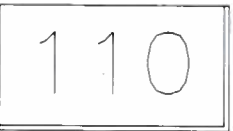


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2

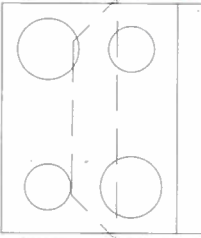
KITCHEN



3

2

4'



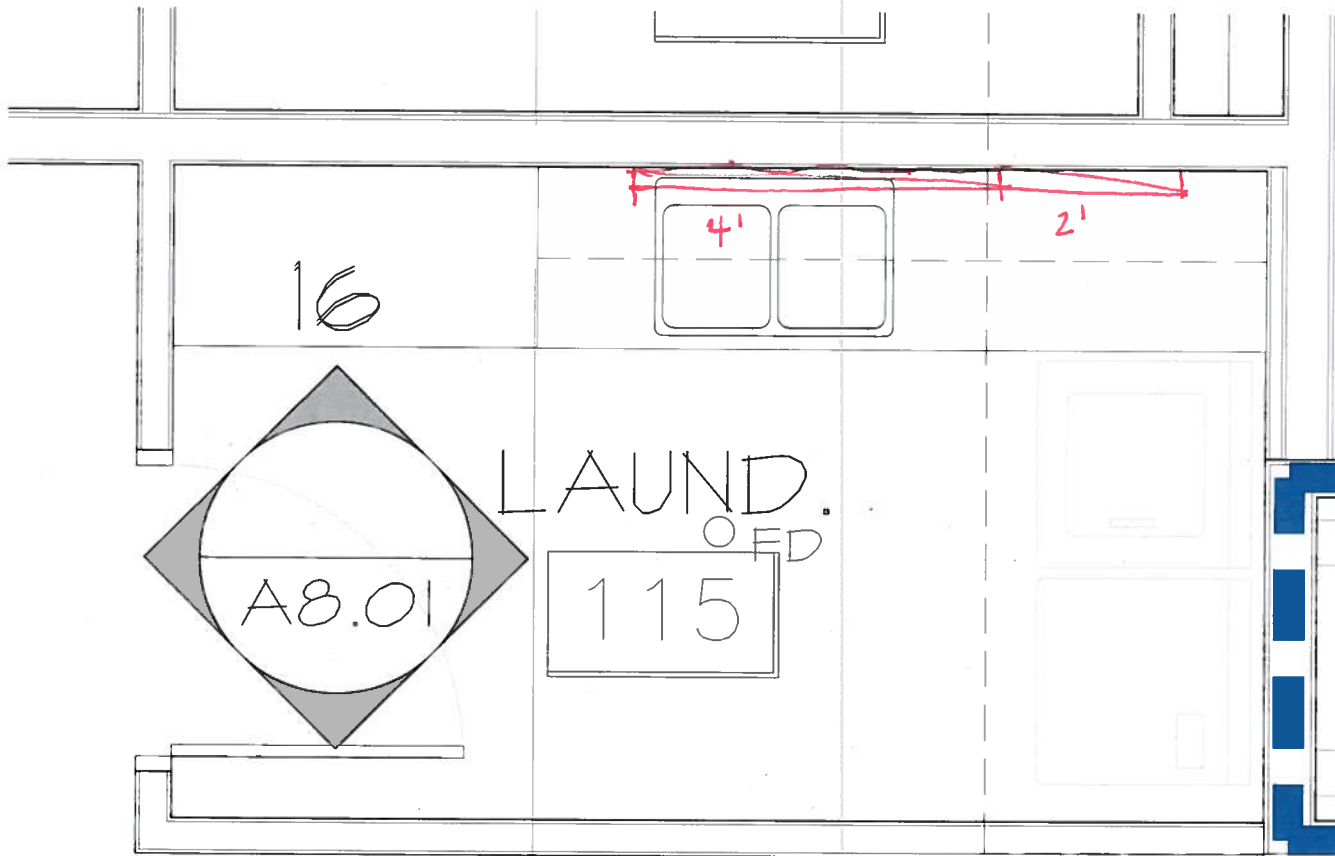
2

4'

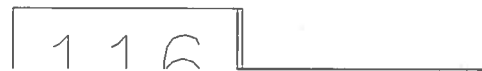
4'

2480

(4'-1 1/2")




ROOF
ACCESS



1 Meridian Place
The Meridian Retirement Community
Fire Restoration

Type 6 Light Fixture

	
GOODKEY, WEEDMARK & ASSOCIATES LIMITED Consulting Engineers 1688 Woodward Dr., Ottawa, ON Canada K2C 3R8 Tel.: 613-727-5111, Fax: 613-727-5115, info@gwal.com	
REVIEWED <input checked="" type="checkbox"/>	REVISE & RESUBMIT <input type="checkbox"/>
REVIEWED AS NOTED <input type="checkbox"/>	REJECTED <input type="checkbox"/>
For general conformance only. Contractor remains responsible for equipment & system details, performance, accuracy, dimensions and coordination.	Date: June 24, 2019
	GWA #: 2019-148
	SD #: SE06
	By: M.Trottier

Submitted by Flux Lighting Amanda Wiseman

FLUX
Phone (613) 592-9948
www.fluxlighting.ca

Job Name:
19253 - Meridien Retirement
Agency: Flux Lighting (Ottawa)
Architect: Hobin Architecture Inc.
(Ottawa)

Catalog Number:
LED4-SYL20-35K-U + 4LEDFR-CL

Notes:

Type:
TYPE 6

FLUX19-15406

RECESSED

LAMARCHE ELECTRIC INC.

REVIEWED: 2019-20-06

REVIEWED BY: Daniel Denis

ECRA/ESA License 7002052

LED 4" lensed
1100, 1500, 2000 or 3000 lumens



frame-in kit

- This fixture is universal 120-277V when using the standard 0-10V dimming driver. Voltage must be specified when using optional drivers. A (3) designated fixture will be for 347V, contact factory for specs.
- Prewired and grounded junction box with galvanized snap-on covers. Listed for through branch circuit wiring.
- Universal mounting brackets provide tool-less adjustability and will accept the supplied hanger bars or optional #517 and #520 Caddy bars. Also accepts C channel.
- Electrogalvanized plated steel hanger bars are included as factory standard. Bars extend to 24" and offer self-nailing and additional mounting features.
- 5-year LED component warranty details at atlantic-lighting.com/main/support.

OSRAM Sylvania LED Module

- 80+ CRI
- 90 CRI option offered. Lower lumen output and reduced lumens per watt will be experienced with this option.
- Rated Life: 50,000 hours at 70% lumen maintenance (L70) when maintained in a 45°C ambient environment with open air flow. Ambient temperatures lower than 45°C may extend life of module.

OSRAM Sylvania Electronic LED Driver

- Dimmable, instant 100% light, (1%-100%) via: 0-10V protocol. Contact factory for optional dim-to-off and soft-start programming. See driver spec.

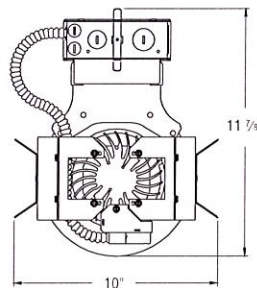
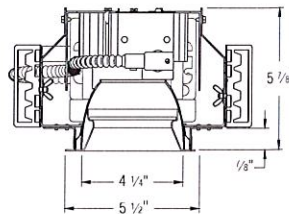
Passive Heat Sink

- Black anodized aluminum

This LED fixture is intended for non-IC applications, insulation must be kept 3" away from fixture on all sides. Not for use within enclosures.

Listed for Wet Location under covered ceiling. Listed to UL 1598 and Canadian standards. ENERGY STAR® qualified (120V/277V, 80 CRI and with standard driver only). Air Tight certified to ASTM E283-04 with -AT trim option. Photometrics at atlantic-lighting.com.

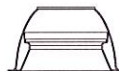
R.O. Ø 5"
Maximum ceiling
thickness 7/8"



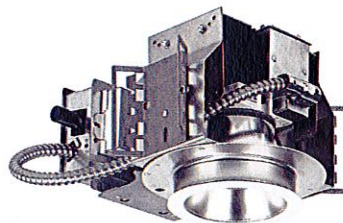
TRIM KIT

lensed reflector

- 4LEDPR Prismatic lens
- 4LEDFR Frosted lens



Precision spun .052 aluminum reflector with a specular clear finish. The self-flanged splay has a white painted trim flange and includes safety chain. **Optional polished flange will match the splay finish.**



ordering data

FRAME-IN KIT

SERIES

LED4 Architectural 4" LED

LED4

LUMENS*

SYL11 1100 lumen module
SYL15 1500 lumen module
SYL20 2000 lumen module
SYL30 3000 lumen module

COLOR TEMPERATURE

27K 2700K
3K 3000K
35K 3500K
4K 4000K
5K 5000K

VOLTAGE

U Universal 120V-277V
1 120V
2 277V
3 347V Contact Factory

DIMMING

0-10V DC standard, leave box blank

LDE Lutron® EcoSystem® (100%-1%, Fade-to-Black™)
LTE Lutron® 2-wire forward-phase (100%-1%) (120V only)
DAL DALI (Type 6, IEC62386) Driver; Dimming to 0.1%
DMX DMX Driver with RDM capability; Dimming to 0.1%

Must specify voltage with optional dimming.

OPTIONS

9CR 90 CRI, effects lumens per watt. Not offered in 5K.
LEM Emergency Pack, Bodine #BSL17C-C2 or equivalent increases length.

TRIM KIT

Refer to left for part numbers. Specify finish & other below.

Finishes

CL Specular clear
SS Semi-specular clear
HZ Haze clear (etched)
WH Matte white

Other

PF Polished flange
GS Gasket under flange
DBGS Double-gasket (under flange and with a silicone sealed lens)
AT Air tight (not offered with LEM)

*Listed lumens and wattages are component measurements. See photometrics for fixture values.

P/N Example: LED4-SYL11-27K-U / 4LEDPR-CL

LED4-SYL11-27K-U / 4LEDPR-CL

series lumens voltage temp options trim kit other finish

Specifications and dimensions subject to change without notice.




ATLANTIC LIGHTING

T: 508 678-5411 | F: 508 678-5408 www.atlantic-lighting.com

032919 NP15-022

1 Meridian Place
The Meridian Retirement Community
Fire Restoration

Type 7 Light Fixture

	<p>GOODKEY, WEEDMARK & ASSOCIATES LIMITED Consulting Engineers 1688 Woodward Dr., Ottawa, ON Canada K2C 3R8 Tel.: 613-727-5111, Fax: 613-727-5115, info@gwal.com</p>
<p>REVIEWED <input type="checkbox"/></p> <p>REVIEWED AS NOTED <input checked="" type="checkbox"/></p> <p>For general conformance only. Contractor remains responsible for equipment & system details, performance, accuracy, dimensions and coordination.</p>	<p>REVISE & RESUBMIT <input type="checkbox"/></p> <p>REJECTED <input type="checkbox"/></p> <p>Date: July 11, 2019</p> <p>GWA #: 2019-148</p> <p>SD #: SE07R1</p> <p>By: M.Trottier</p>

- Confirm finish with Architect

Finish to be Charcoal

SHOP DRAWING REVIEW

REVIEWED

REVIEWED AS NOTED

REVISE AND RESUBMIT



"This review is for the sole purpose of ascertaining conformance with the general design concept for architectural features only, and does not in any way constitute review of the design of engineering elements which form part of the Contract Documents prepared by others. This review shall not mean that the Architect approves the detail design inherent in the shop drawings. This responsibility shall remain with the Contractor submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawings or of his responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes, or to techniques of construction and installation and for co-ordination for the work of all trades."

By: Bryan Bonell Date: July 12, 2019
 HOBIN ARCHITECTURE INCORPORATED

Submitted by Flux Lighting Rebecca Downey

FLUX
Phone (613) 592-9948
www.fluxlighting.ca

Job Name:
19253 - Meridien Retirement
Agency: Flux Lighting (Ottawa)
Architect: Hobin Architecture Inc.
(Ottawa)

Catalog Number:
7000WGAG8308DHUNVS

Notes:

Type:
TYPE 7

FLUX19-15406

GAGE 8 WALL SCONCE



Classically elegant with contemporary cylindrical design, the Gage wall sconce creates a wide dispersion of soft LED up and down light to create both accent and ambient outdoor lighting.

High quality LM80-tested LEDs

for consistent long-life performance and color

Outstanding protection against the elements:

- Powder coat finishes
- Stainless Steel mounting hardware
- Impact-resistant, UV stabilized frosted acrylic lensing

SPECIFICATIONS

DELIVERED LUMENS	464.5
WATTS	15.5
VOLTAGE	Universal 120V-277V, with integral transient 2.5kV surge protection (driver)
DIMMING	0-10, ELV
LIGHT DISTRIBUTION	Symmetric
MOUNTING OPTIONS	Wall
PERFORMANCE OPTIONS	Surge Protector
CCT	3000K or 4000K
CRI	80+
COLOR BINNING	3 Step
BUG RATING	B0-U3-G1
DARK SKY	Non-Compliant
WET LISTED	IP65
GENERAL LISTING	ETL
CALIFORNIA TITLE 24	Can be used to comply with CEC 2016 Title 24 Part 6 for outdoor use. Registration with CEC Appliance Database not required.
START TEMP	-30°C
FIELD SERVICEABLE LED	Yes
CONSTRUCTION	Aluminum
HARDWARE	Stainless Steel
FINISH	Powder Coat
LED LIFETIME	L70; 70,000 Hours
WARRANTY*	5 Years
WEIGHT	4.6 lbs.

* Visit techlighting.com for specific warranty limitations and details.



GAGE 8
shown in bronze



GAGE 8
shown in charcoal

LAMARCHE ELECTRIC INC.

REVIEWED: 2019-03-08

REVIEWED BY: Daniel Denis

ECRA/ESA License 7002052

ORDERING INFORMATION

7000WGAG	CRI/CCT	LENGTH	LENS	FINISH	VOLTAGE	DISTRIBUTION	OPTIONS
	830 80 CRI, 3000K 840 80 CRI, 4000K	8 8"	D DIFFUSE	Z BRONZE H CHARCOAL	UNV 120V-277V	S SYMMETRIC	NONE SP SURGE PROTECTION

techlighting.com

Submitted by Flux Lighting Rebecca Downey

FLUX
 Phone (613) 592-9948
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Job Name:
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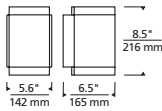
Catalog Number:
 700OWGAG8308DHUNVS

Notes:

Type:
TYPE 7

FLUX19-15406

GAGE 8 WALL SCONCE



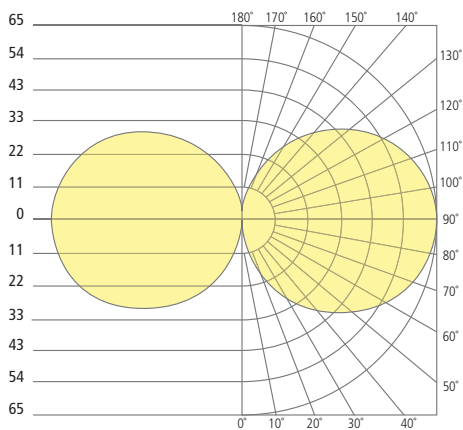
Gage 8

PHOTOMETRICS*

*For latest photometrics, please visit www.techlighting.com/OUTDOOR

GAGE 8

Total Lumen Output: 464.5
 Total Power: 15.5
 Luminaire Efficacy: 29.8
 Color Temp: 3000K
 CRI: 80+
 BUG Rating: B0-U3-G1



PROJECT INFO

FIXTURE TYPE & QUANTITY	JOB NAME & INFO	NOTES




GENERATION BRANDS
 7400 Linder Avenue, Skokie, Illinois 60077
 T 847.410.4400 F 847.410.4500

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1 Meridian Place
The Meridian Retirement Community
Fire Restoration

Type 8 Light Fixture

	
GOODKEY, WEEDMARK & ASSOCIATES LIMITED Consulting Engineers 1688 Woodward Dr., Ottawa, ON Canada K2C 3R8 Tel.: 613-727-5111, Fax: 613-727-5115, info@gwal.com	
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	GWA #: 2019-148
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	By: M.Trottier

CYLINDER

LED 6" aperture open
VR series, 475 to 2250 lumen

LAMARCHE ELECTRICAL INC.

REVIEWED: 2019-03-08

REVIEWED BY: Daniel Denis

ECRA/ESA License 7002052



LED cylinder | 120-277 Volt

Spun aluminum cylinder and trim offered in matching finishes. Trim also offered in Haze. Inner optic is in six beam angles and is only offered in a faceted ultra-bright finish.

Textured polyester powdercoat on exterior finish available in black, white, bronze or metallic silver. Other finishes available consult factory.

Pendant fixtures feature a 5/8" OD mounting stem with a swivel canopy that self-adjusts up to 45° to accommodate slope ceilings. Factory standard stem length is 12". Pendant mount for indoor applications only.

Cord mount fixtures have a standard 6-foot black power cord. White cord supplied on white fixtures only. L – Factory standard cord and is 6 feet, field adjustable to shorter lengths. Dimming not available with coil cord options.

Wall mount fixtures have a cast aluminum mounting arm that is 4 5/8" W x 4 7/8" H.

5-year LED component warranty details at atlantic-lighting.com/main/support.

Bridgelux Vero 18 Array Series

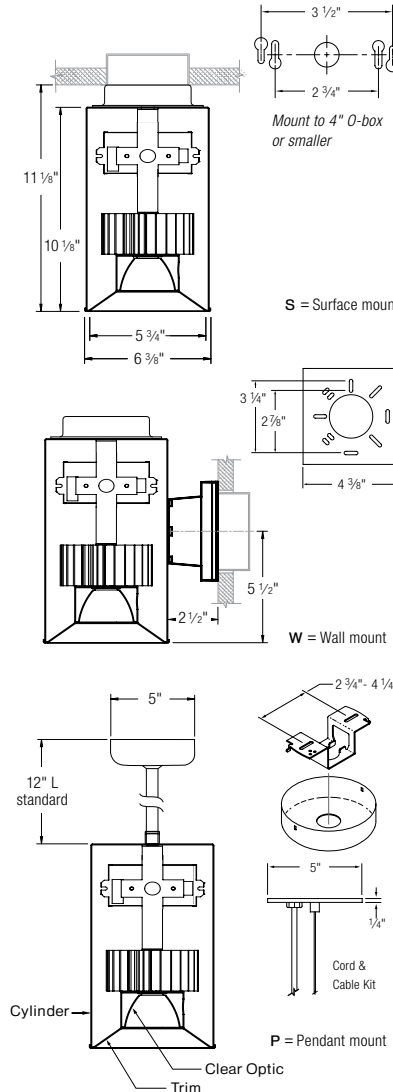
- 80 CRI is standard and a 90 CRI option is offered. With the 90 CRI option, lower lumen output and reduced lumens per watt will be experienced.
- Rated Life: 50,000 hours at 70% lumen maintenance (L70) when maintained in a 35°C ambient environment with open air flow. Ambient temperatures lower than 35°C may extend life.

Electronic Driver

- 0-10V dimming to 1% (Dimming not offered with coil cord options)

Listed to UL 1598 and Canadian standards for Damp Location. Intended for indoor applications only. ENERGY STAR® qualified (120V/277V and with standard driver only). Available photometrics at atlantic-lighting.com.

Specifications and dimensions subject to change without notice.



Watts	CRI	Lumens*	
		Delivered	Adjusted
6W	80	474	400-568
10W	80	852	720-1022
15W	80	1182	1000-1418
20W	80	1650	1395-1980
25W	80	2242	1895-2690
6W	90	396	335-475
10W	90	718	608-862
15W	90	992	840-1190
20W	90	1385	1170-1662
25W	90	1880	1590-2255

* Lumens show true delivered values for 35K color temp, adjusted shows the range from 27K-5K

ordering data

SERIES
SLED610 Architectural 6"x10" LED
WLED610 Surface mount
PLED610 Wall mount
CLED610 Pendant mount
B60 Cord mount, 6' standard

DISTRIBUTION
B20 20° beam angle
B25 25° beam angle
B30 30° beam angle
B35 35° beam angle
B40 40° beam angle
B60 60° beam angle

WATTS
VR06 6 watts
VR10 10 watts
VR15 15 watts
VR20 20 watts
VR25 25 watts

COLOR TEMPERATURE
27K 2700K (80 CRI)
3K 3000K (80 CRI)
35K 3500K (80 CRI)
4K 4000K (80 CRI)
5K 5000K (80 CRI)

DIMMING
0-10V DC standard, leave box blank
2WR 2-wire, TRIAC forward-phase or ELV reverse-phase (100%-1%) (120V only)

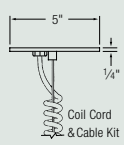
DAL DALI (Type 6, IEC62386) Driver; Dimming to 0.1%
DMX DMX Driver with RDM capability; Dimming to 0.1% (not available on cord mount)
347V Contact factory

TRIM COLORS
WH White
BL Black
BR Bronze
MS Metallic silver
HZ Haze clear (etched)
CC Custom color (consult factory)

CYLINDER FINISHES
WH White
BL Black
BR Bronze
MS Metallic silver
CC Custom color (consult factory)

OPTIONS
9CR 90 CRI, effects lumens per watt
MOUNTING OPTIONS

P18 18" pendant length
P24 24" pendant length
P36 36" pendant length
P48 48" pendant length
FC Field cut kit
Cxx Cord mount with custom length replace xx with length in feet
CA Cord and cable, 6 ft. standard
CAxx Cord and cable, custom length replace xx with length in feet
CCA Coil cord and cable, adjustable from 2 to 8 feet in length




P/N Example: SLED610-B35-VR15-27K-WH-WH

SLED610-B35-VR15-27K-WH-WH
 surface mount watts temp cylinder finish trim option



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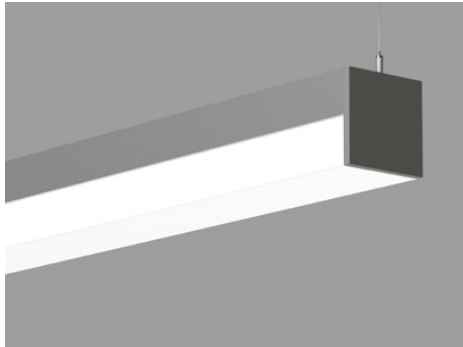
Type 9 Light Fixture

	
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	SD #: SE09R1
	By: M.Trottier

- 90 CRI to be specified

QUAD WIDE

PENDANT DIRECT



Quad wide HLO optics

DESCRIPTION

Quad is the simply designed and crisply executed linear luminaire for circulation, general, and utility applications. The High-efficiency Lambertian Optic provides excellent luminous efficacy and uniform luminosity across the diffuser. Quad is available in either a wide 3.5" or narrow 2.5" profile, along with surface and wall models, and can be installed in continuous runs. Not with standing the compact form, a full range of electrical and integrated control options is available.



PROJECT: _____
TYPE: _____
NOTES: _____

ORDER GUIDE

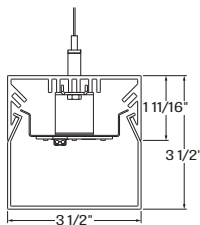
up to 122 lm/w performance

QUAWP	HLO	LED			
LUMINAIRE ID	OPTICS	LIGHT SOURCE	CRI	LUMEN PACKAGES	COLOR TEMP.
QUAWP - quad wide pendant	HLO - High-Efficiency Lambertian Optic	LED - high performance LED	80 - 80CRI 90 - 90CRI	550 - min. low output 550lm/ft 750 - medium output 750lm/ft 1000 - high output 1000lm/ft 1200 - max. ultra high output 1200lm/ft ### - other required lm/ft	30 - 3000k 35 - 3500k 40 - 4000k
4FT				53WAC96	
LUMINAIRE LENGTH	VOLTAGE	DRIVER	ELECTRICAL	MOUNTING	
Standard sections - 4' 8" & 12' For all other specify length #FT - nominal length in feet Continuous Run - for luminaires over 8'	120 - 120V 277 - 277V UNV - 120V-277V 347 - 347V (not available with Lutron)	D1 - 1% dimming 0-10V DA - Dali LTEA2W - Lutron 1% - 2 wire FF 120V LDE1 - Lutron Hi-lume 1% Eco LDE5 - Lutron 5% EcoSystem	1 - 1 circuit + #EB - emergency battery (min 4' fixture, except Lutron) + #EM - emergency light circuit + #NL - night light circuit + #GTD### - generator transfer device, 120V or 277V	53WAC36 - power 5" + non power 3" white canopy (36" air craft cable) 55WSW18 - power 5" + non power 5" white canopy & stem (18" stem) For all other options refer to our Pendant Mounting Guide	

See page 2 for ordering code detailed information

FINISH	CONTROLS	OPTIONS
W - matte white AL - aluminum CF# - custom finish specify RAL#	STANDALONE CONTROLS OMS - Onboard Occupancy ODS - Onboard Daylight OCS - Onboard Occupancy & Daylight CONNECTED CONTROLS CCS() - LU -Lutron, EN -Enlighted, OS -Osram, CR -Crestron. To specify see information on page 2	FU - fuse TB# - T-bar caddy clip specify grid size TG# - Tegular caddy clip specify grid size ST - Screw Slots caddy clip CU - custom

CROSS SECTION



QUAWP - air craft cable - wide

OPTICS




HLO - High-efficiency Lambertian Optic

LAMARCHE ELECTRIC INC.
REVIEWED: 2019-03-08
REVIEWED BY: Daniel Denis
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EBU with Emergency Remote Heads

	
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	SD #: SE10
	By: M.Trottier

- Provide battery test report on completion

LAMARCHE ELECTRIC INC.

REVIEWED: 2019-20-06

REVIEWED BY: Daniel Denis

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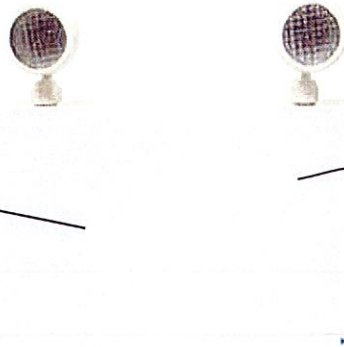
Nova 6, 12 & 24V Steel Battery Units

Job/Location: _____
Contractor: _____ Prepared By: _____
Model Number: _____ Date: _____

Universal mounting plate for effortless installation

18 gauge steel cabinet

OBM option for octagon box mount



6V, 12V or 24V up to 720W

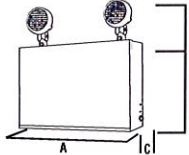
High-efficiency two stage charger

120VAC removable line cord is supplied standard



INDOOR ARCHITECTURAL EMERGENCY

DIMENSIONS



Unit Size	A	B	C
(6V 18-50W) (12V 36-72W)	12" (305mm)	4 3/4" (119mm)	2 1/2" (64mm)
(6V 72-90W) (12V 90W)	10" (254mm)	9" (229mm)	3 1/4" (83mm)
(6V 100-180W) (12V 120-300W) (24V 144-320W)	15" (385mm)	9 1/2" (241mm)	4 1/4" (105mm)
(12V 360W)	13" (330mm)	10" (254mm)	8" (203mm)
(24V 360-720W)	18" (457mm)	10" (254mm)	8 3/8" (213mm)

NOTE: Dimension D (see drawing) will vary based on heads supplied

ORDERING INFORMATION

Series	Operation	Capacity (W)	Heads	Lamp Type	Options	Options (cont'd)
NV	6 (Volt DC)	See model rating guide 200	0 (None)	See lamp selection	NC (Ni-Cd batteries, see guide)	*TD (Time delay - specify 5, 10, 20 mins)
	12 (Volt DC) 24 (Volt DC)		1SR (Plastic, 1 head) 2SR (Plastic, 2 heads) 1BTMR (Metal, 1 head) 2BTMR (Metal, 2 heads) 1LR (PAR36, 1 head) 2LR (PAR36, 2 heads) 1TESRD (One head, HO) 2TESRD (Two heads, HO) 1TESSQ (One head, HO) 2TESSQ (Two heads, HO)	7WLED	CC (Custom colour - specify) TLP (Twist lock plug - 120V only) CT (Cabtire cord set, 120V only) **OBM (Octagon box mount) FD5 (5 circuit fuse distribution) AT (Auto-test self-diagnostics) *RFS (Radio frequency suppression) *IRT (Infra-red remote test) MS (Mounting shelf) HHC (Hand held controller) SM (Side mount heads) A (Ammeter)	LD (Lamp disconnect) WG (Wireguard) ACTB (Terminal block AC) DCTB (Terminal block DC) BD (Battery disconnect) ***CPS (Constant power supply) ADA (Audible alarm) FAI (Fire alarm interface - specify type) RB (Rubber heads) TC (Teflon coated lenses - LR only) TP (Tamper proof screws) V (Voltmeter)

***ZSP (Zone sensing panel - see ZSP catalogue for more details)

NOTE: *AC voltage must be specified **No line cord ***120V only ****ZSP: qty of zones (2-4), 120 or 347V, max 6V180W, 12V360W, 24V360W, not available with all options
EXAMPLE: NV-12-72-2SR-7WLED-V DESCRIPTION: Nova battery unit, 120/277/347VAC Input, 12VDC Output, 72W for 30 minutes 2 SR heads, voltmeter.

CSA Certified **TECHNICAL**

LAMP SELECTION: (SEALED BEAM ONLY IN LR PAR36 STYLE HEAD)

	6V	12V	24V
Composite Tungsten	9, 12W (18W - PAR36 only)	9, 12, 18W (25W - PAR36 only)	9, 18W
Composite Quartz (Q)	8, 10, 12, 20W	8, 12, 10, 20W (35, 55W PAR36 only)	10, 12, 20, 50W (70W AR only)
Sealed Beam Tungsten (SB)	9, 18, 25, 30W	12, 25, 30, 35W	N/A
Sealed Beam Quartz (QSB)	8, 12, 20W	8, 12, 30W	N/A
LED-MR16	5, 7W	2, 5, 7W	5, 7W
MR16	6, 10W	10, 12, 20, 35, 50W	12, 20, 35, 50W
TES	N/A	30W	30W

NOTE: MR16 max 12W in SR head

LAMP HEAD FEATURES

The NOVA series unit emergency lighting heads are supplied with two [2] top mounted small style 9 watt thermoplastic heads. LR PAR36 large style thermoplastic or BTMR white steel heads utilizing MR16 lamps are also an available option. Lamp heads can be mounted either on the top or on the sides of the unit allowing for up to four [4] heads to be mounted on the largest units (up to 3 top, 2 sides).

BEGHELLI AUTO-TEST (AT) - OPTIONAL

The Beghelli auto-test system automatically performs one 5 minute discharge test monthly and every 6 months it performs two 30 minute discharge tests, 24 hours apart. This tests both full battery capacity and recharge capability. The information is communicated simply and intuitively to maintenance personnel via a single multi-colour LED.

BATTERY TECHNOLOGY

The NOVA series is designed with a maintenance free, sealed valve regulated lead acid battery that provides a minimum emergency duration of 30 minutes (for the listed rating). Ni-Cd batteries are optional. Recharge time of the battery is twenty-four [24] hours. The maximum battery operating temperature is +40°C and the minimum is +10°C.

CHARGER SPECIFICATIONS

The NOVA series utilizes a high-efficiency two stage charger providing precise float voltage control with low voltage disconnect protection. All components used in the circuitry are temperature compensated. The charger also has brownout and short circuit protection. Charger status is easily determined via a dual diagnostic LED display which indicates AC/ON and High Charge. An external push button test switch allows maintenance personnel to quickly determine the operational status of the unit and lamp load.

EXTERNAL SPECIFICATIONS

The NOVA series is constructed with an 18 gauge steel cabinet. Terminal connectors allow for larger gauge wires to be connected for remote loads. The universal mounting pattern stamped into the back of the unit allows for direct mounting to various conduit boxes. Stamped conduit knockouts and a 120VAC removable line cord are supplied standard on all NOVA units.

MECHANICAL SPECIFICATIONS

Remote lamp loads are connected to the emergency power supply with sturdy terminal connectors. CSA 22.2 No. 141 Performance Certified.


MODEL RATING GUIDE

Model	Wattage Rating		
	30 Minutes	90 Minutes	120 Minutes
NV-6-18	18	n/a	n/a
NV-6-36	36	12	10
NV-6-40	40	18	12
NV-6-50	50	18	15
NV-6-50-NC	50	22	18
NV-6-72	72	27	22
NV-6-80	80	27	24
NV-6-90	90	36	27
NV-6-100-NC	100	42	35
NV-6-160	160	60	48
NV-6-180	180	72	54
NV-6-180-NC	160	90	60
NV-12-36	36	n/a	10
NV-12-72	72	27	22
NV-12-90	90	36	27
NV-12-100-NC	100	45	35
NV-12-120	120	65	36
NV-12-150	150	65	45
NV-12-180	180	72	54
NV-12-200-NC	200	90	65
NV-12-200	200	72	60
NV-12-250	250	108	75
NV-12-360	360	180	108
NV-24-144	144	60	43
NV-24-180	180	72	54
NV-24-200-NC	200	100	65
NV-24-320	320	136	96
NV-24-360	360	144	108
NV-24-550	550	220	180
NV-24-720	720	360	235

INDOOR ARCHITECTURAL EMERGENCY

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DHR Emergency Remote Heads

	
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	SD #: SE11
	By: M.Trottier

LAMARCHE ELECTRIC INC.

REVIEWED: 2019-20-06

REVIEWED BY: Daniel Denis

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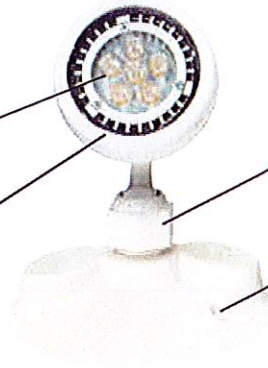
SR - PAR18 LED Small Style Emergency Remote

Job/Location: _____
Contractor: _____ Prepared By: _____
Model Number: _____ Date: _____

Corrosion, flame resistant
thermoplastic

PAR18 or MR16 halogen
or LED lamps or universal 3W LED
module..

Innovative rotary locking collar



Tool-less adjustable swivel locks
head in place

Matching canopy to fit standard
junction boxes



REMOTES

SR - SMALL STYLE EMERGENCY REMOTE

The **SR SERIES** of remotes are constructed of high impact thermoplastic and feature an innovative rotary locking collar design that securely locks the lens and reflector assembly into place. The locking collar allows maintenance personnel to quickly and easily complete relamping. A tool-less mechanically adjustable swivel locks the head in position once adjusted. The matching canopy fits all standard electrical junction boxes. The **SR** is supplied standard in a white colour, black colour is optional.

5W LED LAMP FOR STOCK

The 5W LED lamp is available in 6-24V. To stock one LED model for all voltages, choose the model number:

SR-1-6/12/24V-5WLED

Also available with 2, 3 and 4 heads.

CSA 22.2 No. 141 performance certified.

LAMP SELECTION

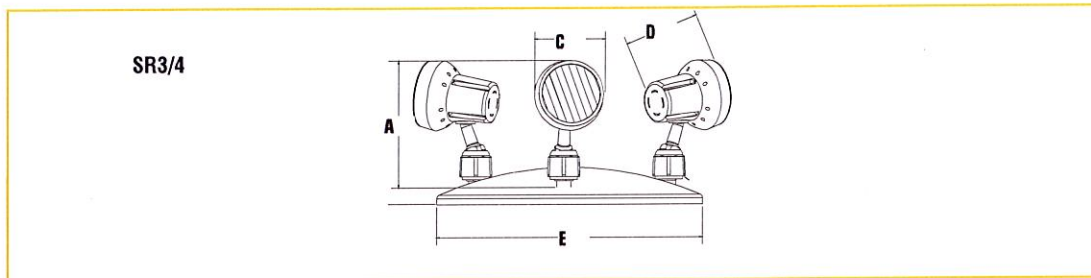
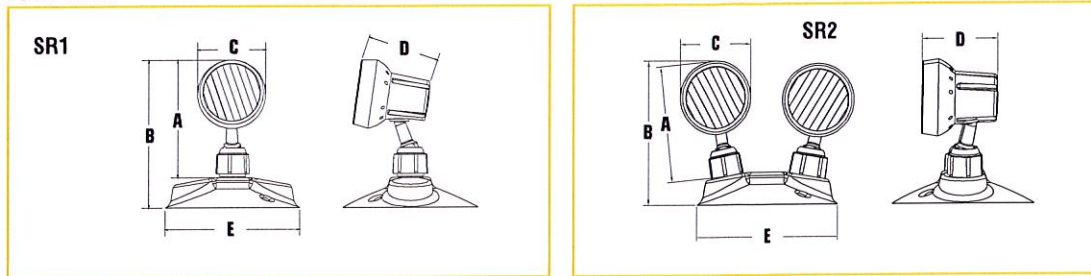
	6V	12V	24V
Composite Tungsten	9, 12W	9, 12, 18W	9, 18W
Composite Quartz (Q)	8, 10, 12, 20W	8, 10, 12, 20W	10, 12, 20W
MR16	6, 10W	10, 12W	12W
LED-MR16	5, 7W	2, 5, 7W	5, 7W
Universal 3W LED		3W	

ORDERING INFORMATION

Series	Head #	Voltage / Wattage	Options
SR	1 (Single head)	See lamp selection	LC (Less canopy)
	2 (Double head)	12V7WLED	BLK (Black housing)
	3 (Triple head)		
	4 (Quad head)		

cCSAus Certified **TECHNICAL**

DIMENSIONS




Model	A	B	C	D	E
SR1 Single	108mm 4 1/4"	136mm 5 3/8"	70mm 2 3/4"	72mm 2 7/8"	127mm 5"
SR2 Double	108mm 4 1/4"	130mm 5 1/8"	70mm 2 3/4"	72mm 2 7/8"	127mm 5"
SR3/SR4 Triple / Quad	108mm 4 1/4"	130mm 5 1/8"	70mm 2 3/4"	72mm 2 7/8"	241mm 9 1/2"

REMOTES

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DHR Weather Proof

	
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	GWA #: 2019-148
	SD #: SE12R1
	By: M.Trottier

Pluraluce® WP Remote

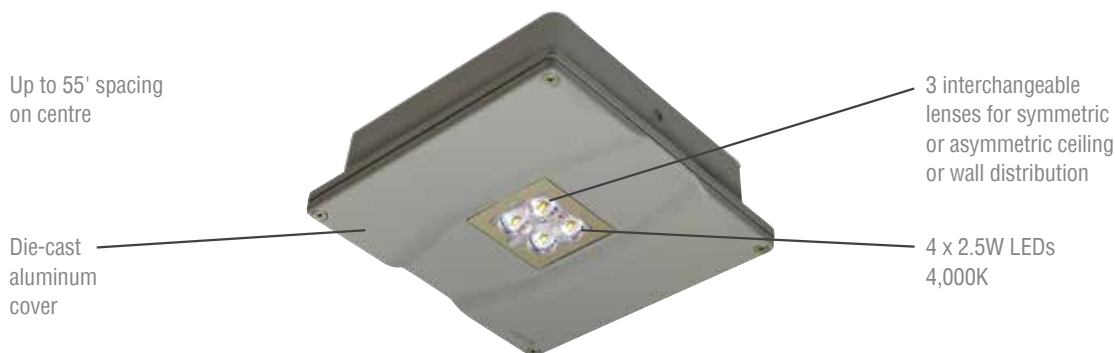
NEMA 4X 12-24V compact LED remote



Job/Location: _____

Contractor: _____ Prepared By: _____

Model Number: _____ Date: _____



EXTERNAL SPECIFICATIONS

The compact NEMA 4X design of the **PLURALUCE® WP** is fully gasketed for protection against wet and dust-filled environments. The die-cast aluminum cover comes standard in a grey powder coat with optional painted or brushed finishes. Housing design acts as a large heat sink ensuring efficient thermal management and long operating life of the LEDs.

LENSES

The **PLURALUCE® WP** surface is supplied with 3 lenses for a choice of distribution patterns. These custom designed lenses are constructed of optical grade polycarbonate. The symmetrical ceiling distribution is suitable for use in open areas with spacing of up to 28' on centre. The asymmetrical ceiling distribution is designed for use in hallways and corridors with spacing of up to 55' on centre. The asymmetrical wall distribution provides 35' on centre with a 6' wide path of egress.

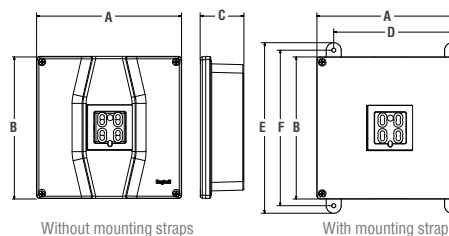
INSTALLATION

The **PLURALUCE® WP** is suitable for surface wall or ceiling mounting on a junction box or suspended by a pendant kit. The unit is supplied with mounting straps and has knockouts on the side for conduit entry.

LED TECHNOLOGY

The **PLURALUCE® WP** is illuminated with four 2.5W LEDs. Under any operation, the **PLURALUCE® WP** delivers between 782 lm - 845 lm. Each pair of LEDs are laid out in parallel on the LED module so if one pair fails, the other will remain illuminated. A high-efficiency LED driver is used to maintain a constant output current to all LEDs. The LED array is rated for 100,000 hours of life.

DIMENSIONS (MM, IN.)



Series	A	B	C	D	E	F
Without mounting straps	184mm (7 ^{1/4} "	181mm (7 ^{1/8} "	54mm (2 ^{1/8} "	N/A	N/A	N/A
With mounting straps	184mm (7 ^{1/4} "	181mm (7 ^{1/8} "	54mm (2 ^{1/8} "	152mm (6")	216mm (8.5")	197mm (7.75")

ORDERING INFORMATION

Series	Options
PL-WP-RMT	BA (Brushed aluminum housing) CC (Custom coloured housing) TP (Tamper proof screw) WG (Wireguard)

EXAMPLE: PL-WP-RMT

DESCRIPTION: Pluraluce® NEMA 4X remote, 12-24VDC LED

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IAMARCHE ELECTRIC INC.

REVIEWED: 2019-03-08

REVIEWED BY: Daniel Denis

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www.beghellicanada.com



Page 2 of 2




REMOTES

262

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Running Man Exit Sign

	
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	GWA #: 2019-148
	SD #: SE13
	By: M.Trottier

Submitted by Flux Lighting Amanda Wiseman

FLUX
Phone (613) 592-9948
www.fluxlighting.ca

Job Name:
19253 - Meridien Retirement
Agency: Flux Lighting (Ottawa)
Architect: Hobin Architecture Inc.
(Ottawa)

Catalog Number:
SL-RMSPLU-OLR-M-120347V-90SP

Notes:

Type:
RM EXIT

FLUX19-15406

LAMARCHE ELECTRIC INC.

REVIEWED: 2019-20-06

REVIEWED BY: Daniel Denis

ECRA/ESA License 7002052

Stella RM Steel LED Running Man

Job/Location: _____
Contractor: _____ Prepared By: _____
Model Number: _____ Date: _____

Wall, ceiling or end
mounting

High-output LED
technology



20 gauge steel housing

AC Only, Self-Powered
or Universal DC



INDOOR



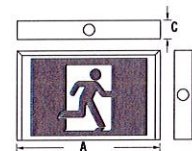
SP[®]
C US

RUNNING MAN SIGNS

EXTERNAL SPECIFICATIONS

The **STELLA** series is constructed from durable 20 gauge steel. The **STELLA** comes standard with a white baked powder coat finish. Also available in custom colours upon request. Single, double or universal face versions must be specified. Universal mounting pattern is stamped into the backplate. The self-powered version comes standard with an external LED status indicator and test switch.

DIMENSIONS (MM, IN.)



Series	A	B	C
SL-RM	305mm	191mm	57mm
	12"	7 1/2"	2 1/4"

ORDERING INFORMATION

Series	Operation	Light Source	Face #	***Pictogram	Mounting	Options
SL-RM	Blank (AC only)	L (LED)	1 (Single)	OLR (Universal pictograms)	W (Wall mount no canopy)	CC (Custom colour - specify)
	SP (Self-powered)		*2 (Double)	0 (No indicators)	M (Universal mount wall, ceiling or end mount)	PK12 (12" pendant kit)
			**U (Universal)	L (Left indicator)		TP (Tamper proof screws)
				R (Right indicator)		WG (Wireguard)
				D (Down indicator)		UDC (Universal 6 - 24VDC)
				U (Up indicator)		90SP (90 min. emergency)
				UR (45° up right)		120SP (120 min. emergency)
				DR (45° down right)		AT (Auto-test, SP only)
				UL (45° up left)		***120VDC (Specify 2 or 4 wires)
				DL (45° down left)		FAI (Fire alarm interface - specify)
						SW-OL (RM no indicator, left)

NOTE: *Two pictograms or OLR must be ordered - specify **Specify OLR pictogram ***With 120VAC only

***For a pictogram and supplementary "EXIT" or "SORTIE" text add "-E" or "-S" after the pictogram nomenclature

EXAMPLE: SL-RM-L-U-OLR-W

DESCRIPTION: Stella running man, LED, universal faces, universal pictogram, wall mount

1190

05/10/18

www.beghellicanada.com

Beghelli

Job Name:

19253 - Meridien Retirement
Agency: Flux Lighting (Ottawa)
Architect: Hobin Architecture Inc.
(Ottawa)

Catalog Number:

SL-RMSPLU-0LR-M-120347V-90SP

Notes:

Type:**RM EXIT**

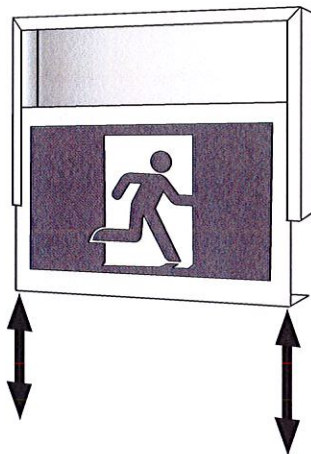
FLUX19-15406

cCSAus Certified **TECHNICAL****INTERNAL SPECIFICATIONS**

AC ONLY LED: standard 120/347VAC input
SELF-POWERED: Standard 120/347VAC input and sealed Nickel-cadmium batteries to provide a minimum 30 minutes of emergency duration. Optional 90 or 120 minute duration battery is available. Solid state charger and transfer. CSA 22.2 No. 141-10 Performance Certified.

MODERN DESIGN

The modern and thin design of the **STELLA** series provides a clean and attractive appearance. The 20 gauge steel frame contains no external holes or slots adding to the clean look while eliminating unwanted light leaks. The 20 gauge steel forms a rigid and durable frame that can be securely mounted in any application. The face and backplates are mounted into the frame using a channel system that permits simple and speedy removal during installation.



Faceplate slides out for quick and easy installation.

ELECTRICAL SPECIFICATIONS

The **STELLA** series is configured with high-output LEDs. As standard with 120/347VAC input. All versions consume only 2W nominal power. Optional emergency illumination is provided by the LED light source at the following wattages:
6VDC - 24VDC - 2 watts

BATTERY TECHNOLOGY

The **STELLA-SP** is designed with a maintenance free, sealed nickel-cadmium battery providing a minimum emergency duration of 30 minutes. An optional 90 or 120 minute nickel-cadmium battery is available. Recharge time of the battery is twenty-four [24] hours.

MECHANICAL SPECIFICATIONS

The **STELLA** is constructed of durable 20 gauge steel. Universal mounting pattern and key hole slots are stamped on the backplate. Surface mount conduit entry knockouts are also provided. The **STELLA** is supplied standard with an attractive and durable white, baked powder coat finish. Other colours are available, including custom colour matching, please specify. The advanced design of the **STELLA** leaves it with no extraneous holes or slots, thereby eliminating unwanted light leaks. A simple and sturdy channel design securely holds the pictogram and backplates into the frame providing quick and trouble-free installations.

SELF-POWERED VERSIONS

The **STELLA-SP** self-powered series is designed to operate on battery power in the event of a power failure. Both the battery and charger are completely contained within the standard enclosure. There are no external components and no alterations made to the external dimensions of the standard sign. The **STELLA-SP** self-powered series utilize a solid state transfer technology that eliminates the possibility of relay failure due to particle build up on the relay. Status is easily determined via an LED that indicates AC-ON. A push button test switch allows maintenance personnel to quickly confirm the operational status of the sign on AC fail.

SUPPLEMENTAL TEXT

A running man sign with supplementary "EXIT" or "SORTIE" text is also available in the **STELLA** model. To designate "EXIT" add "-E" to the end of the pictogram nomenclature, for "SORTIE" add "-S". For example, a sign with supplementary "EXIT" text and the indicator down to the right would have "DR-E" as it's pictogram nomenclature.

UNIVERSAL PICTOGRAMS


The 0LR (Universal) option includes: a pictogram with no directional indicators, a pictogram with a left facing directional indicator and a pictogram with a right facing directional indicator.

**FACE OPTIONS**

When ordering a single face, choose one pictogram option. When ordering a double face, choose 2 pictogram options. If the Universal option is chosen, one set of 3 pictograms (0LR) will be provided.

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Fire Restoration

Occupancy Sensor

	GOODKEY, WEEDMARK & ASSOCIATES LIMITED Consulting Engineers 1688 Woodward Dr., Ottawa, ON Canada K2C 3R8 Tel.: 613-727-5111, Fax: 613-727-5115, info@gwal.com			
	<table><tr><td>REVIEWED <input checked="" type="checkbox"/></td><td>REVISE & RESUBMIT <input type="checkbox"/></td></tr><tr><td>REVIEWED AS NOTED <input type="checkbox"/></td><td>REJECTED <input type="checkbox"/></td></tr></table> <p>For general conformance only. Contractor remains responsible for equipment & system details, performance, accuracy, dimensions and coordination.</p>	REVIEWED <input checked="" type="checkbox"/>	REVISE & RESUBMIT <input type="checkbox"/>	REVIEWED AS NOTED <input type="checkbox"/>
REVIEWED <input checked="" type="checkbox"/>	REVISE & RESUBMIT <input type="checkbox"/>			
REVIEWED AS NOTED <input type="checkbox"/>	REJECTED <input type="checkbox"/>			
	Date: June 24, 2019			
	GWA #: 2019-148			
	SD #: SE14			
	By: M.Trottier			

Job Name:

19253 - Meridien Retirement
Agency: Flux Lighting (Ottawa)
Architect: Hobin Architecture Inc.
(Ottawa)

Catalog Number:

LOS-CDT-2000R-WH

Notes:

Type:**CM OCC**

FLUX19-15406

Sensors**LOS-CDT Series****Occupancy Sensors**

369653c 1 02.07.13

Dual Technology Ceiling Mount Sensor

The LOS-CDT Series dual technology ceiling-mount sensors can integrate into Lutron® systems or function as stand-alone controls using a Lutron® power pack. The technology eliminates manual sensitivity and timer adjustments during installation and over the life of the product.

Features

- Intelligent, continually adapting sensor
- Ultrasonic (US) combined with Passive Infrared (PIR) sensing provide high sensitivity, high noise immunity, and excellent false tripping immunity
- Suited for complex environments that are difficult to control with single-technology sensors
- Snap-locks to ceiling-mounted cover plate
- Non-Volatile Memory: settings saved in protected memory are not lost during power outages
- 500 ft² to 2000 ft² (46 m² to 186 m²) coverage when mounted on an 8 ft to 12 ft (2.4 m to 3.7 m) ceiling
- Affords choice of turning lights off or dimming to a preset level in the unoccupied state when integrated with a Lutron® system.

**Models Available**

Model	Color	Coverage	Field of View
LOS-CDT-500-WH	White	500 ft ² (46 m ²)	180°
LOS-CDT-500R-WH	White	500 ft ² (46 m ²)	180°
LOS-CDT-1000-WH	White	1000 ft ² (93 m ²)	180°
LOS-CDT-1000R-WH	White	1000 ft ² (93 m ²)	180°
LOS-CDT-2000-WH	White	2000 ft ² (186 m ²)	360°
LOS-CDT-2000R-WH	White	2000 ft² (186 m²)	360°

Self-Adaptive Feature

The LOS-CDT Series sensors combine both Ultrasonic (US) motion detection for maximum sensitivity and Passive Infrared (PIR) motion detection for false triggering immunity. The self-adapting internal microprocessor analyzes the composite sum of both signals to eliminate time-consuming adjustments and callbacks found in non-intelligent sensors.

LAMARCHE ELECTRIC INC.**REVIEWED: 2019-20-06****LUTRON®** SPECIFICATION SUBMITTAL**REVIEWED BY: Daniel Denis**

Page

Job Name:**Model Numbers:**

ECRA/ESA License 7002052

Job Number:

Sensors

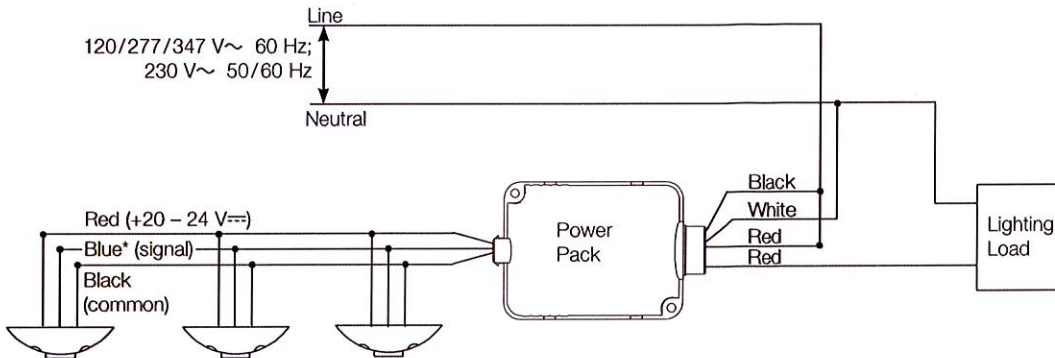
LOS-CDT Series

Occupancy Sensors

369653c 4 02.07.13

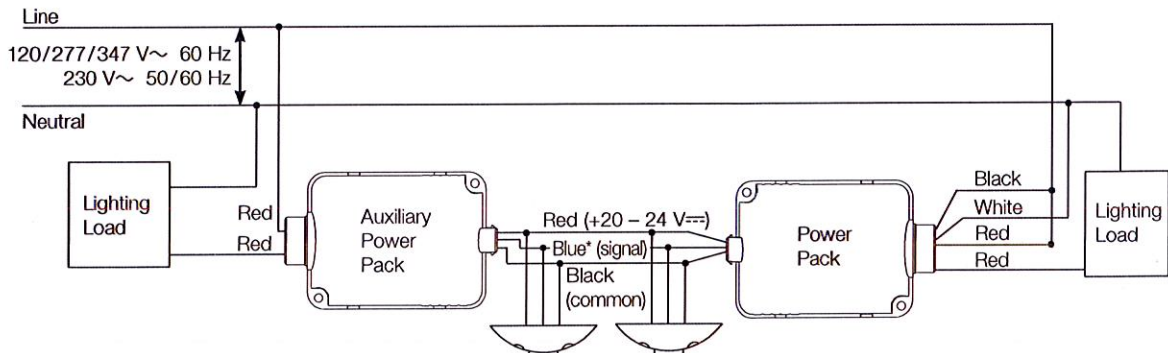
Wiring: Stand-Alone Control

1 to 3 Sensors with Power Pack



NOTE: Maximum 3 occupancy sensors.

Switching Multiple Loads with Auxiliary Power Packs



NOTE: Maximum of 3 devices total (occupancy sensors and auxiliary power packs) can be connected to a power pack.

*Use gray wire for LOS-CDT-500R-WH, LOS-CDT-1000R-WH, and **LOS-CDT-2000R-WH.**

LAMARCHE ELECTRIC INC.

REVIEWED: 2019-20-06

REVIEWED BY: Daniel Denis

ECRA/ESA License 7002052

LUTRON SPECIFICATION SUBMITTAL

Page

Job Name:	Model Numbers:
Job Number:	

Sensors

LOS-CDT Series

Occupancy Sensors

369653c 6 02.07.13

Installation

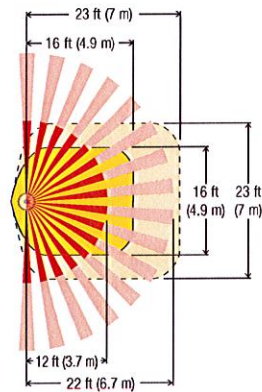
Sensor Setup

- Sensor setup is available as a service by Lutron. For more information see the **Sensor Layout and Tuning** service document (Lutron® P/N 3601235).

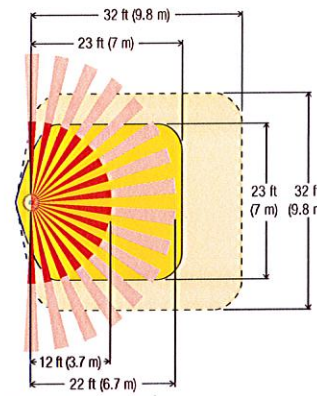
Sensor Placement

- Mount the sensor so the grilles face the open portion of the room and are not facing a nearby wall, window, or other obstructing object.
- Do not place sensor within 6 ft (1.8 m) of air vents, air handlers, windows, fans, etc., as this may cause false triggering.
- If installing a 180° occupancy sensor (500 and 1000 models), place the sensor on the same wall as the doorway so that traffic in a hallway will not affect the sensor; otherwise, place in center of room.
- Closely follow the diagrams shown concerning major and minor motion coverage. The sensor can detect major motion (e.g. person taking a half-step) at a greater distance than it can detect minor motion (e.g. writing at a desk or reading a book).
- Decrease total coverage area by 15% for “soft” rooms (e.g. heavy draperies or thick carpeting).

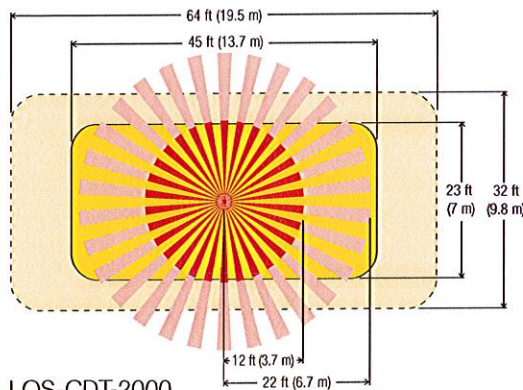
Range Diagrams



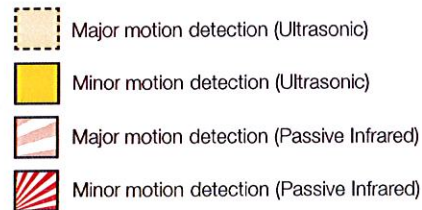
LOS-CDT-500



LOS-CDT-1000



LOS-CDT-2000



Job Name:	Model Numbers:
Job Number:	

Sensors

LOS-CDT Series

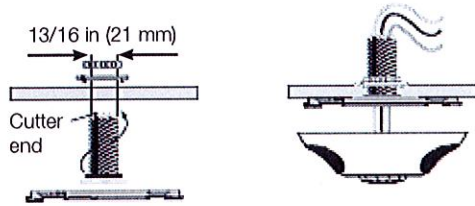
Occupancy Sensors

369653c 7 02.07.13

Mounting

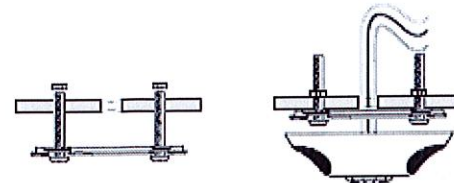
Normal Mounting

Twist and lock threaded mounting post onto cover plate. Drill through ceiling tile with assembly, using cutter end of the threaded mounting post. Secure with washer and nut.

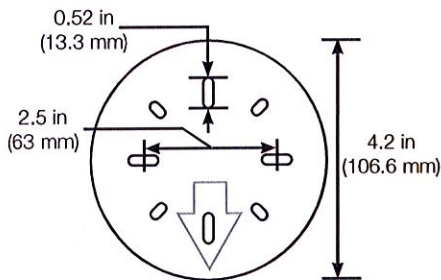


Mounting to Non-Standard Ceiling or Fixture

Mount twist-lock cover plate using mounting screws, nuts, and washers (included). Drill/punch wire routing hole through ceiling tile at center of cover plate.



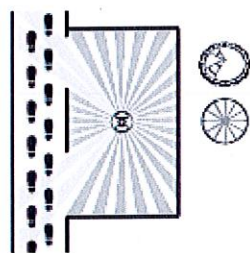
Mounting Plate Dimensions



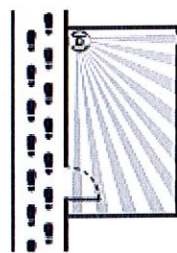
Wire Lengths

Number of Sensors	1	2	3	1	2	1
Number of Auxiliary Power Packs	0	0	0	1	1	2
22 AWG	750 ft	375 ft	250 ft	375 ft	250 ft	250 ft
0.5 mm ²	365 m	180 m	120 m	90 m	120 m	120 m
20 AWG	1200 ft	600 ft	400 ft	600 ft	400 ft	400 ft
0.75 mm ²	730 m	365 m	240 m	365 m	240 m	365 m
18 AWG	2400 ft	1200 ft	800 ft	1200 ft	800 ft	800 ft

Using the Infrared Mask



Center Ceiling Mount
(Mask blocks sensor seeing out doorway into hall)



Corner Ceiling Mount
(No mask needed)

Typical Mask Patterns



Conference Room Mask



180° Mask



Full Mask



Rectangular Areas



Over the Door



Specific Areas You Wish to Mask

Job Name:	Model Numbers:
Job Number:	

PP and UPP Series
-DV, -DV-M, -347H, -SH
Power Packs

369544g 1 06.22.16

PP and UPP Series Power Packs

PP and UPP¹ Series Power Packs provide both the 24 V_{DC} power supply to operate Lutron[®] wired occupancy sensors, as well as the 16 A line-voltage relay to control the load, in one compact housing. The unit can be mounted inside a ballast enclosure or inside/outside a junction box.

The manual-ON Power Pack (-DV-M) is used to provide a vacancy solution when paired with Lutron[®] wired occupancy sensors. A low-voltage momentary switch should be used to manually turn ON the load while the sensor automatically shuts the load OFF when unoccupied. Pressing the momentary switch can also turn the load OFF.

The auxiliary Power Pack (-SH) must be used in conjunction with at least one line-voltage Power Pack and one Lutron[®] wired occupancy sensor to switch additional loads.

Features

- High-impact UL94 flammability-rated plastic case construction
- Relay: Class B 266 °F (130 °C) insulating material; silver alloy contacts
- Power Pack units (PP-DV/UPP-DV, PP-347H, PP-DV-M/UPP-DV-M) power up to 3 total devices. PP-SH/UPP-SH counts as 1 device, each occupancy sensor counts as 1 device.
- For indoor use only, 32 °F to 104 °F (0 °C to 40 °C), 0% to 90% humidity, non-condensing


 (-DV)
 (-DV-M)
 (-347H)


(-SH)

Model	Power Input	Relay Contact Rating	Control Input	IEC PELV/ NEC [®] Class 2 Output
PP-DV UPP-DV PP-DV-M UPP-DV-M	120-277 V _~ 50/60 Hz 6.5 W	<ul style="list-style-type: none"> • 120-277 V_~ 16 A; All lighting loads² • 120-277 V_~ 1 HP Motor Load 	24 V _{DC} 5 mA	24 V _{DC} 150 mA up to 3 Devices ³
PP-347H	347 V _~ 60 Hz 6.5 W	• 347 V _~ 15 A Ballast	24 V _{DC} 5 mA	24 V _{DC} 100 mA up to 3 Devices ³
PP-SH UPP-SH	24 V _{DC} (At least one line-voltage Power Pack must be used)	<ul style="list-style-type: none"> • 120-277 V_~ 16 A; All lighting loads² • 120-277 V_~ 1 HP Motor Load • 347 V_~ 15 A Ballast 	24 V _{DC} 5 mA	N/A

¹ "U" denotes BAA compliance

² Lighting loads include (but are not limited to): Incandescent, MLV, ELV, Resistive, Inductive

³ PP-SH/UPP-SH counts as 1 device and each occupancy sensor counts as 1 device


LUTRON[®] SPECIFICATION SUBMITTAL

Page

Job Name:	Model Numbers:
Job Number:	

PP and UPP Series

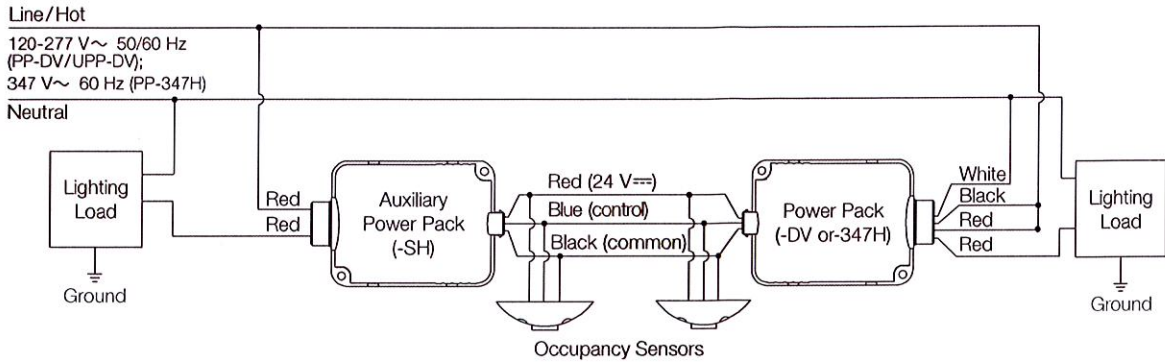
-DV, -DV-M, -347H, -SH

Power Packs

369544g 4 06.22.16

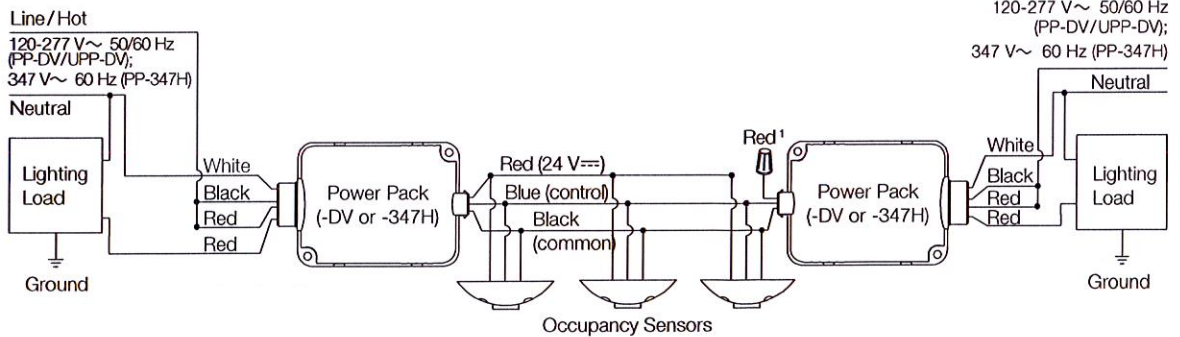
Wiring (continued)

Switching Multiple Loads with 1 Power Pack and 1 Auxiliary Power Pack¹



¹ Maximum of 3 devices can be used with **PP-DV**, UPP-DV, or PP-347H. Each PP-SH/UPP-SH counts as one device, each occupancy sensor counts as one device.

Switching Multiple Loads with 2 Power Packs (PP-DV/UPP-DV)




¹ Only 1 Power Pack (PP-DV/UPP-DV) should power the occupancy sensors. This 24 V== output is left disconnected.

Job Name:	Model Numbers:
Job Number:	

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Fire Restoration

Contractor Mark-up

	<p>GOODKEY, WEEDMARK & ASSOCIATES LIMITED Consulting Engineers 1688 Woodward Dr., Ottawa, ON Canada K2C 3R8 Tel.: 613-727-5111, Fax: 613-727-5115, info@gwal.com</p>
<p>REVIEWED <input type="checkbox"/></p> <p>REVIEWED AS NOTED <input checked="" type="checkbox"/></p> <p>For general conformance only. Contractor remains responsible for equipment & system details, performance, accuracy, dimensions and coordination.</p>	<p>REVISE & RESUBMIT <input type="checkbox"/></p> <p>REJECTED <input type="checkbox"/></p> <p>Date: June 24, 2019</p> <p>GWA #: 2019-148</p> <p>SD #: SE15</p> <p>By: M.Trottier</p>

- Quantity responsibility by contractor

SHOP DRAWING REVIEW

REVIEWED

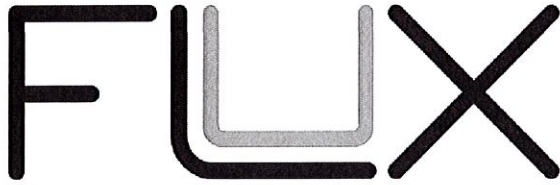
REVIEWED AS NOTED

REVISE AND RESUBMIT



“This review is for the sole purpose of ascertaining conformance with the general design concept for architectural features only, and does not in any way constitute review of the design of engineering elements which form part of the Contract Documents prepared by others. This review shall not mean that the Architect approves the detail design inherent in the shop drawings. This responsibility shall remain with the Contractor submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawings or of his responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes, or to techniques of construction and installation and for co-ordination for the work of all trades.”

By: Bryan Bonell Date: July 12, 2019
 HOBIN ARCHITECTURE INCORPORATED



Jul 4, 2019

Submitted by Lamarche: July 05, 2019.

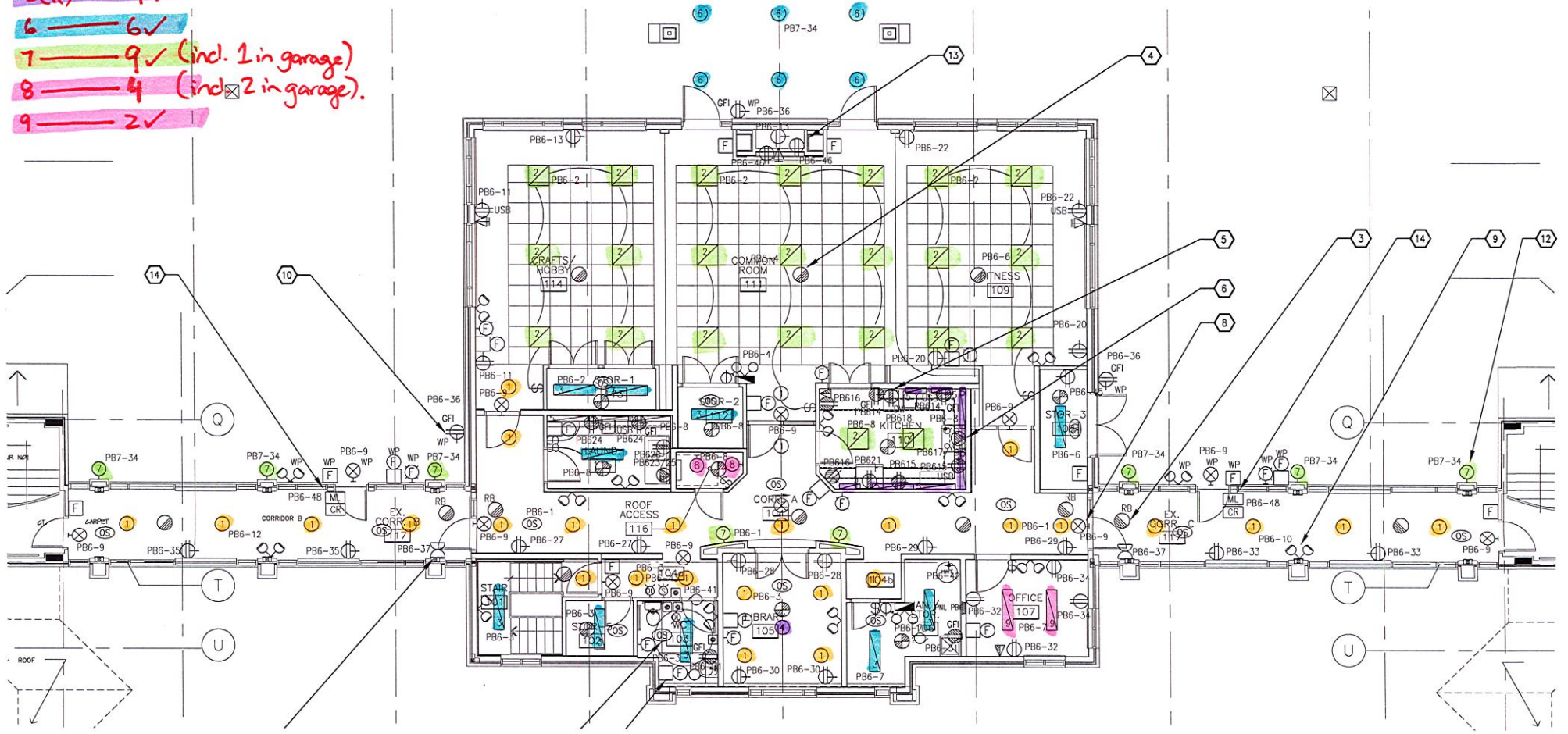
Reviewed by: Farah Baro (TAL-co)
July 9th, 2019.

RE: 19253 - Meridien Retirement
Ottawa ON

Qty	Type	MFG	Part
28 ✓	TYPE 1	Atlantic Lighting	LED4-SYL20-35K-U + 4LED10-CL <i>4/w Dimming.</i>
23 ✓	TYPE 2	Cree Canada	ZR22C-32L-35K-10V-FD ← <i>Goodkey to confirm if x2 req'd in</i>
2 ?	TYPE 2	Cree Canada	DGA22-WHT <i>Kitchen Drywall ceiling??</i>
11 ✓	TYPE 3	Lumenwerx	QUAWW-HLO-LED-80-750-35-4FT-UNV-D1-1-DRM-W
1 ✓	TYPE 4	Lumenwerx	POROPD-24-ULO-5H-LED-80-3500-35-UNV-D1-1-53WAC96-W
3 ✓	TYPE 5-2FT	Ecosense Lighting Inc.	2FT RUN OF SCD-M-12-35-MULT + CBL-2P-LWH-LDR-UNV-10
4 ✓	TYPE 5-4FT	Ecosense Lighting Inc.	4FT RUN OF SCD-M-48-35-MULT + CBL-2P-LWH-LDR-UNV-10
6 ✓	TYPE 6	Atlantic Lighting	LED4-SYL20-35K-U + 4LEDFR-CL
9 ✓	TYPE 7	Tech Lighting	700OWGAG8308DHUNVS
4 ✓	TYPE 8	Atlantic Lighting	SLED610-B60-VR25-35K-HZ-WH
2 ✓	TYPE 9	Lumenwerx	QUAWP-HLO-LED-90-750-35-4FT-UNV-D1-1-53WAC96-W
2 ✓	EBU	Beghelli Canada Inc.	NV12200-2SR7WLED-120277347V
12 13	DRH	Beghelli Canada Inc.	SR2 12V 7WLED
2 ?	DRH WP	Beghelli Canada Inc.	PL-RMT-WP
11 ✓	RM EXIT	Beghelli Canada Inc.	SL-RMSPLU-0LR-M-120347V-90SP
2 ✓	RM EXIT WP	Beghelli Canada Inc.	FTZ-RMSALU-0LR-U-120347V-WW-120SP
13 ✓	CM OCC	Lutron Electronics Canada Inc.	LOS-CDT-2000R-WH
13 ✓	CM OCC	Lutron Electronics Canada Inc.	PP-DV

LIGHT FIXTURES.

Type	Qty.
1	28 ✓
2	23 ✓
2b	
3	11 ✓
4	1 ✓
5(2f)	3 ✓
5(4f)	4 ✓
6	6 ✓
7	9 ✓ (incl. 1 in garage)
8	4 ✓ (incl. 2 in garage)
9	2 ✓



Type Qty

EBU — 2 ✓

DRH — 13

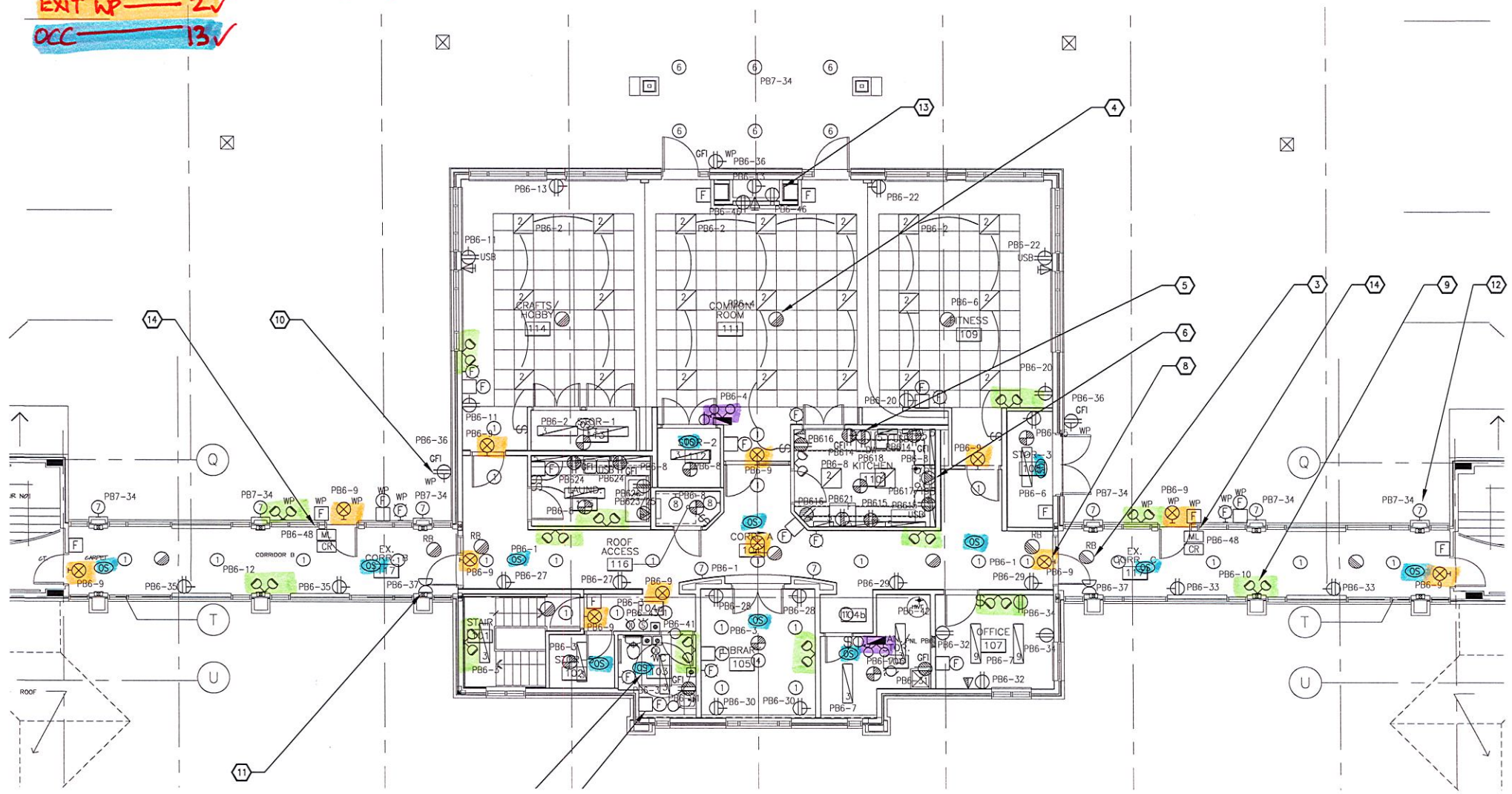
DRH WP — ?

EXIT — 11 (incl. 1 in garage).

EXIT WP — 2 ✓


OCC — 13 ✓

Emergency Lighting / Exits / Occupancy Sensors ETC.



1 Meridian Place
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Fire Restoration

Running Man Exit Sign Weatherproof

	
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REVIEWED <input checked="" type="checkbox"/>	REVISE & RESUBMIT <input type="checkbox"/>
REVIEWED AS NOTED <input type="checkbox"/>	REJECTED <input type="checkbox"/>
For general conformance only. Contractor remains responsible for equipment & system details, performance, accuracy, dimensions and coordination.	Date: July 11, 2019
	GWA #: 2019-148
	SD #: SE16
	By: M.Trottier

Fortezza™ RM Wet Location IP66 & Vandal Resistant Running Man



Job/Location: _____
Contractor: _____ Prepared By: _____
Model Number: _____ Date: _____

AC Only, Self-Powered
or Universal DC

UV resistant
polycarbonate faceplate

Vandal resistant to
withstand extreme abuse



Heavy gauge die-cast
aluminum housing

Surface wall, ceiling
or end mounting



RUNNING MAN SIGNS

INSTALLATION

The **FORTEZZA™** series running man sign is supplied with a universal mounting canopy, optional factory installed canopy and is available for surface ceiling, wall and end mount applications. Suitable for indoor, outdoor, damp or wet location applications.

ELECTRICAL SPECIFICATIONS

The **FORTEZZA™** series is configured with high output LED lamps. LED is standard with 120/347VAC or 120/277VAC input. All LED version consume only 2 watts nominal power.

ORDERING INFORMATION

Series	Operation	LED	Face #	Pictogram	Mounting	Voltage	Options
FTZ-RM	HT (AC only)	L (LED)	1 (Single)	OLR (Universal pictograms)	U (Universal mount)	120/347V	BB (Black body)
	SA (Self-powered)		*2 (Double)	0 (No indicators)	W (Wall - no canopy)	120/277V	WW (White body)
			U	L (Left indicator)			***IH (Internal heater 120, 277 or 347V)
				R (Right indicator)			***FL (Flashing alarm)
				D (Down indicator)			PK (Pendant kit)
				U (Up indicator)			120SA (120 minute emergency)
				UR (45° up right)			AT (Auto-test, SP only)
				DR (45° down right)			*2CK (Dual circuit)
				UL (45° up left)			UDC (6 - 24VDC)
				DL (45° down left)			*120VDC (Specify 2 or 4 wires)
							SW-0L (RM no indicator, left)

NOTE: *Two pictograms or OLR must be ordered - specify

***AC voltage must be specified

[†]With 120VAC only

EXAMPLE: FTZ-RM-HT-L-1-U-W-120/347V

DESCRIPTION: FORTEZZA™ AC only, LED, single face, pictogram with up indicator, wall mount, 120/347VAC

LAMARCHE ELECTRIC INC.

REVIEWED: 2019-03-08

REVIEWED BY: Daniel Denis

ECRA/ESA License 7002052

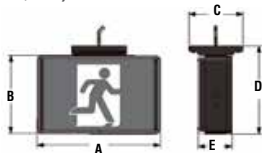
206

www.beghellincanada.com



cCSAus Certified **TECHNICAL**

DIMENSIONS (MM, IN.)



Series	A	B	C	D	E
FTZ-RM	356mm	229mm	157mm	254mm	102mm
	14"	9"	6 1/5"	10"	4"

EXTERNAL SPECIFICATIONS

The **FORTEZZA™** series is constructed from .420" thick, heavy duty cast aluminum. The pictorial insert is protected by high abuse clear polycarbonate, which is recessed into the housing. Tamper resistant screws are standard. The **FORTEZZA™** series comes standard black although colour options are available upon request. Single or double versions must be specified. The self-powered version comes standard with an external LED status indicator and test switch.

INTERNAL SPECIFICATIONS

AC ONLY: STANDARD 120/347VAC or 120/277VAC input.
SELF-POWERED: standard self powered versions use sealed nickel-cadmium batteries to provide a minimum of 30 minutes of emergency duration. Optional 120 minute duration battery is available. An internal heater with thermostat is optional for low temperature installations. Solid state charger, auto-test, and transfer are standard. CSA 22.2 No. 141-10 Performance Certified.

VANDAL RESISTANT DESIGN

The ultra heavy duty design and appearance of the **FORTEZZA™** series sign warns potential vandals that this is no regular sign. The pictogram is protected by a 1/8" thick, impact resistant polycarbonate shield that is recessed into the housing and fastened with 4 tamper resistant screws. The **FORTEZZA™** offers a contemporary look and durability like no other.

MECHANICAL SPECIFICATIONS

The **FORTEZZA™** series is constructed of extra heavy duty cast aluminum with a 1/8" thick polycarbonate protective shield. Tamper resistant screws are standard. The **FORTEZZA™** is standard in an attractive matte black finish. Other colors are available, including custom color matching to meet the customer's needs. The polycarbonate face shield is recessed into the housing making the **FORTEZZA™** series one of the most rigid, yet attractive high abuse signs on the market.

BEGHELLI AUTO-TEST (AT)

The Beghelli auto-test system automatically performs one 5 minute discharge test monthly and every 6 months it performs two 90 minute discharge tests, 24 hours apart. This tests both full battery capacity and recharge capability. The information is communicated simply and intuitively to maintenance personnel via a single multi-colour LED.

SELF-POWERED VERSIONS

The **FORTEZZA-SA** self-powered series is designed to operate on battery power in the event of a power failure. Both battery and charger are completely contained within the standard enclosure. The **FORTEZZA-SA** self-powered series utilize a solid state transfer technology that eliminates the possibility of relay failure due to particle build up on the relay. Status is easily determined via an LED that indicates AC-ON.

BATTERY TECHNOLOGY

The **FORTEZZA-SA** series is designed with a maintenance free, sealed nickel-cadmium battery providing a minimum emergency duration of 30 minutes. An optional 120 minute nickel-cadmium battery is available. Recharge time of the battery is twenty-four [24] hours. The maximum battery operating temperature is +45°C and the minimum is +10°C without internal heater/thermostat option, with the internal heater/thermostat the minimum operating temperature is -20°C .

SANITATION LISTED (SL)

The Beghelli **FORTEZZA™** is sanitation listing approved. The Intertek verified splash zone listing is equivalent to the NSF standard 2, meeting the rigorous sanitation, electrical safety and performance standards of food service environments.

UNIVERSAL PICTOGRAMS

The OLR (Universal) option includes: a pictogram with no directional indicators, a pictogram with a left facing directional indicator and a pictogram with a right facing directional indicator.



FACE OPTIONS

When ordering a single face, choose one pictogram option. When ordering a double face, choose 2 pictogram options.