

PART 1 General

1.1 CONTRACT DOCUMENTS

- .1 This Addendum forms an integral part of the Contract Documents, describing all aspects of the Work and is to be read in conjunction herewith. This document is to be read in conjunction with the drawings and specifications and shall be recognized as a Contract Document. If points arise which are at variance, this Addendum shall take precedence, unless otherwise clarified by the Architect. This Addendum shall be returned with the other bid documents

1.2 ACKNOWLEDGEMENT

- .1 The Bidder is responsible for signifying they have received this Addendum by listing the Addendum number and date in the appropriate space on the Tender Form.

PART 2 BIDDING DOCUMENTS AND GENERAL REQUIREMENTS

2.1 Bid Requirements

- .1 The Closing Date for this tender has been hereby extended and must be submitted before **November 12th 2018 at 2:00:00 PM ET.**
- .2 Refer to the Centre d'excellence en approvisionnement FRANCOachat for all clarification in the bid process.

PART 3 ARCHITECTURAL

3.1 Specifications

- .1 No Items

3.2 Drawings

- .1 No Items

PART 4 STRUCTURAL

4.1 Drawings and Specifications

- .1 Refer to attached Structural Addendum(s) No. SA-05 as prepared by JP2G Consultants Inc., dated November 01, 2018. (5 Page(s)).

PART 5 MECHANICAL

5.1 Drawings and Specifications

- .1 No Items.

PART 6 ELECTRICAL

6.1 Drawings and Specifications

- .1 Refer to attached Electrical Addendum(s) No. EA-01 as prepared by JP2G Consultants Inc., dated November 01, 2018. (2 Page(s)).
- .2 Alternatives for lighting fixtures have been accepted by the Consultants. Refer to attached cut sheets (54 Pages)

PART 7 QUESTIONS

The following items are intended for instructions to bidders on questions which do not affect the Contract Documents and are for information only.

- .1 Exterior Masonry Veneer
 - .1 Question: 'Sections 4/A510 & 1/A510 show the veneer following the same lines as the New Practice room walls. But the elevation drawings show the veneer wall staying in a straight line as the whole way. Which is correct?'
 - .2 Response: Masonry veneer stays in a 'straight line'.
- .2 Exterior Caulking
 - .1 Question: 'Is the Elastomer durometer specified to be used in control joints in the exterior veneer wall? And if so, is it possible to replace it with just backer rod and caulking? This product is extremely difficult to work with and does need to be used in exterior veneer wall applications.'
 - .2 Response: The backer rod and caulking will be accepted.
- .3 Masonry Veneer Ties
 - .1 Question: 'Are BL-407 & BL-607 S.S. ties acceptable in lieu of Bailey ESS-3? The Blok-lok ties meet code and are ½ the price of the specified bailey product.'
 - .2 Response: The alternative block ties will not be accepted.
- .4 Stage Crawl Space
 - .1 Question: 'Please provide details on the type of construction used for the existing stage floor. Please confirm if there is access to the existing crawl space under the raised stage floor. If so, please provide location.'
 - .2 Response: The construction is similar to many school stages. There are concrete block load bearing walls at approximately every 1200mm running perpendicular to the stage opening, which the deck spans between. The gym slab on grade level runs through this crawl space.

- .5 Existing Exterior Masonry Wall
 - .1 Question: Please confirm if the existing exterior masonry cavity wall (in which we are creating a new opening) is in fact load bearing or not. Any 'As-Built' drawings/details that you can provide would be helpful
 - .2 Response: Consider this as load-bearing, with 250mm concrete block, 75mm insulation, 50mm air space and 90 brick veneer.

END OF DOCUMENT

Structural Addendum

Jp2g Consultants Inc.



ENGINEERS • PLANNERS • PROJECT MANAGERS

1150 Morrison Drive, Suite 410, Ottawa, ON K2H 8S9
T 613-828-7800, F 613-828-2600, www.jp2g.com

PROJECT NAME: Civitas - CEPEO École Le Prélude Music Room Addition
ISSUED ONLY TO: CIVITAS GROUP.
ADDENDUM NUMBER: #05
ISSUE DATE: November 1, 2018
ATTENTION: Douglas Rancier

DRancier@civitasgroup.ca

Changes are required to the Structural Drawings previously issued for tender/construction. Details are itemized below. Please issue notification to all concerned. Implementation of any item by the Constructor shall not commence until authorized by Change Order/Project Instruction or Site Instruction.

ITEM NUMBER	ITEM APPEARS ON DRAWING NUMBER	DESCRIPTION
1.1	S-200	Confirm no requirement of Galvanizing Slab-On-Grade Reinforcement. Reason: Documents Coordination
1.2	S-201	Revised Details for Slab Cutting for New Pipe. Reason: Documents Coordination
1.3	S-301	Revised Strengthening of Existing Wall Extending to Top of Foundation Reason: Documents Coordination
1.4	S-302	Revised strengthening of Existing Wall Horizontal Reinforcement Bent at End of Wall. Reason: Documents Coordination

Authorized by:

JP2G CONSULTANTS INC.

Bin Jiang, P.Eng
Senior Structural Engineer

Distribution: DOUGLAS RANCIER – CIVITAS GROUP.

Attachments: Drawing SA5-01, SA5-02, SA5-03, SA5-04 and SA5-05

FOUNDATION AND GROUND FLOOR PLAN

1. SEE GENERAL REQUIREMENTS AND TYPICAL DETAILS ON DRAWINGS S.100, S.101,S102 & S.103.
2. SEE THIS DRAWING FOR FOOTING AND PIER & SCHEDULE.
3. GROUND FLOOR DATUM ELEVATION IS 0.0.
4. UNLESS OTHERWISE NOTED ON PLAN OR DETAILS, THE FOLLOWING DATA APPLIES:
 - 4.1. SLOPE SLAB-ON-GRADE AS REQUIRED, REFER TO ARCHITECTURAL DRAWINGS
 - 4.2. SET TOPS OF EXTERIOR COLUMN FOOTINGS (TOF) AT ELEVATION TO MATCH EXISTING; SET TOP OF INTERIOR COLUMN FOOTINGS (TOF) AT -500.
5. CONCRETE SLAB-ON-GRADE ON PLAN SHOULD BE 125 THK., REINFORCED WITH 152x152 MW18.7/MW18.7 W.W.F. PLACED 50 BELOW TOP OF SLAB. SLOPE SLAB TO DRAINS AS PER ARCHITECTURAL DRAWINGS.
6. "BP_" ON PLAN DENOTES STEEL BASE PLATE, REFER TO BASE PLATE SCHEDULE ON DRAWING S.10.
7. GROUT BASE PLATES AND BEARING PLATES PRIOR TO PLACING LOADS ON STEELWORK.
8. FOOTING BEARING RESISTANCE REFER TO GENERAL NOTES (S-100).
9. CONTRACTOR SHALL SHORE RETAINING WALL DURING BACKFILL AND COMPACTION.

ÉCOLE LE PRÉLUDE MUSIC ROOM

 **Jp2g Consultants Inc.**
ENGINEERS • PLANNERS • PROJECT MANAGERS

DESIGNED BY: B. JIANG

DRAWN BY: YH

APPROVED BY: B. JIANG

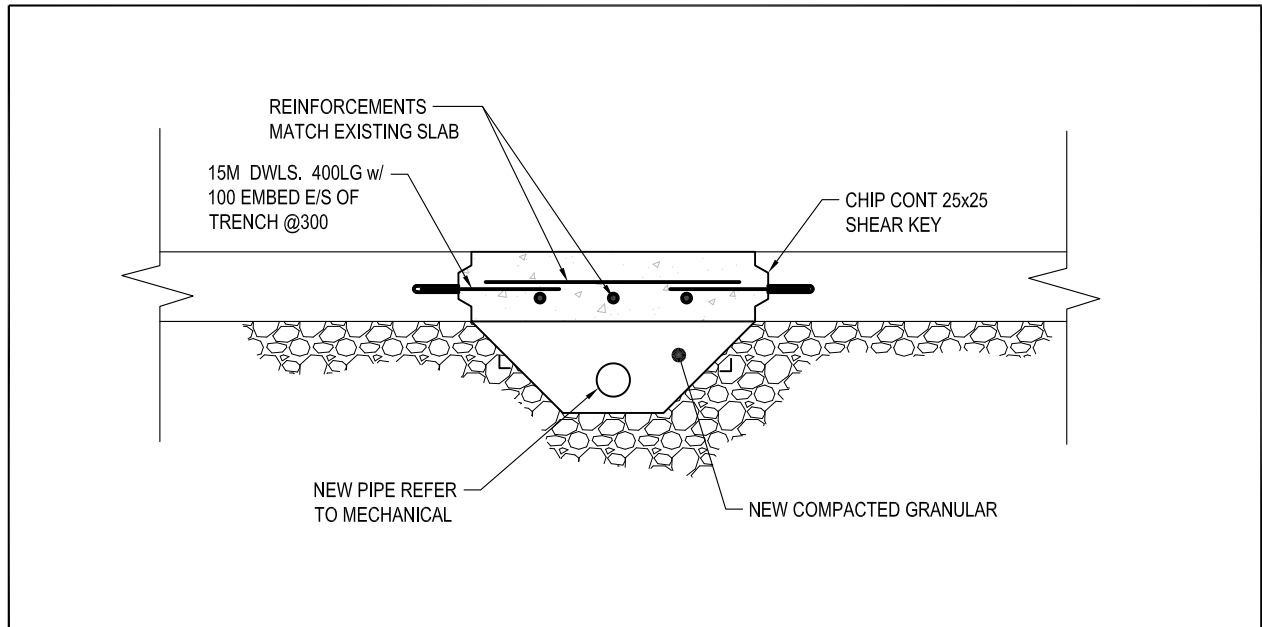
SCALE:

PROJECT No.: 2160398A

DATE: NOV. 01 2018

ISSUED FOR:ADDENDUM 5

SHEET No.: SA5-01



**NEW SLAB @ DRAIN PIPE
(REFER TO MECH. FOR LOCATIONS)**

1
S201

SCALE: 1:20

**ÉCOLE LE PRÉLUDE
MUSIC ROOM**

J2 Jp2g Consultants Inc.
ENGINEERS • PLANNERS • PROJECT MANAGERS

DESIGNED BY: B. JIANG

DRAWN BY: YH

APPROVED BY: B. JIANG

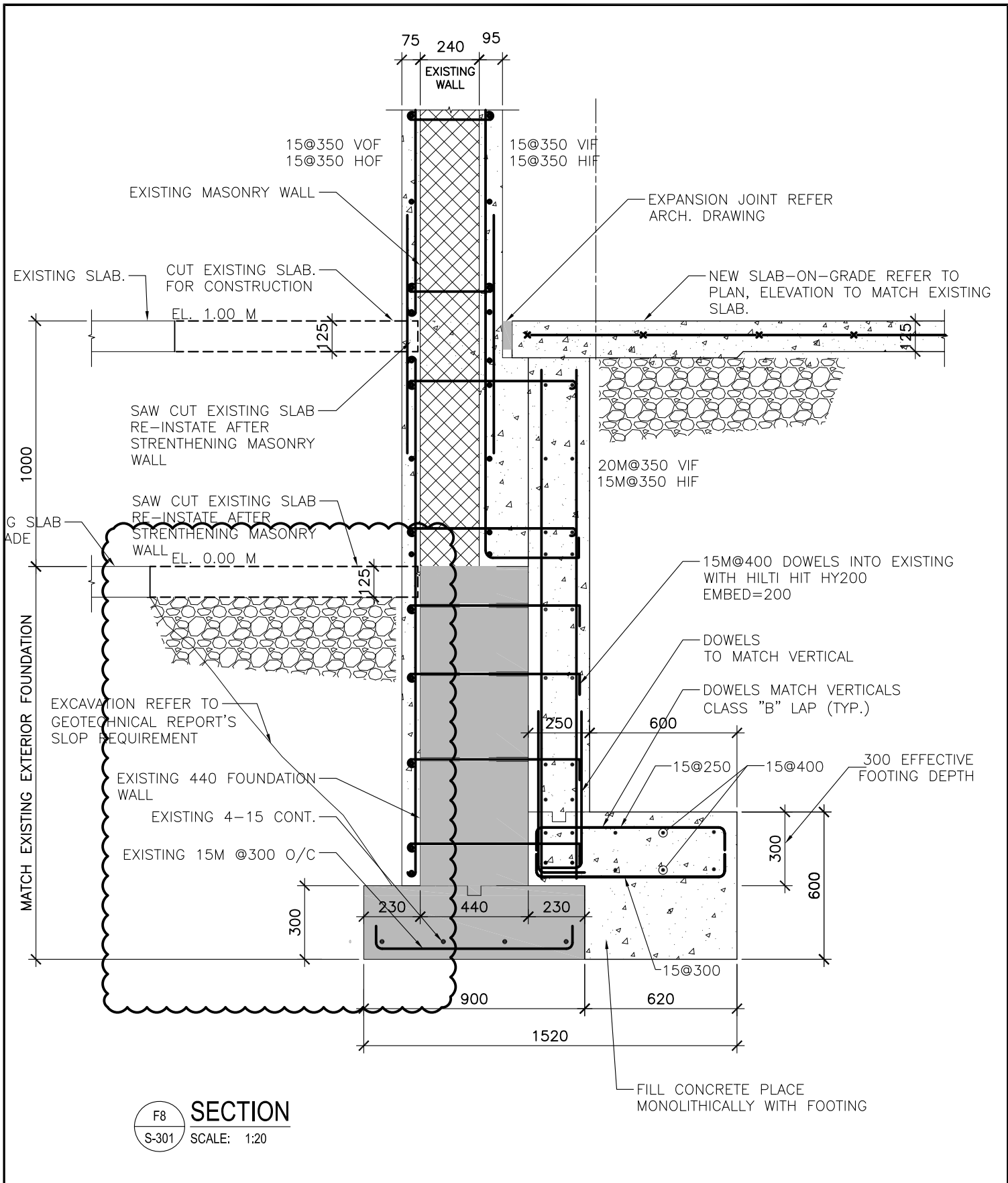
SCALE:

PROJECT No.: 2160398A

DATE: OCT. 01 2018

ISSUED FOR: ADDENDUM 5

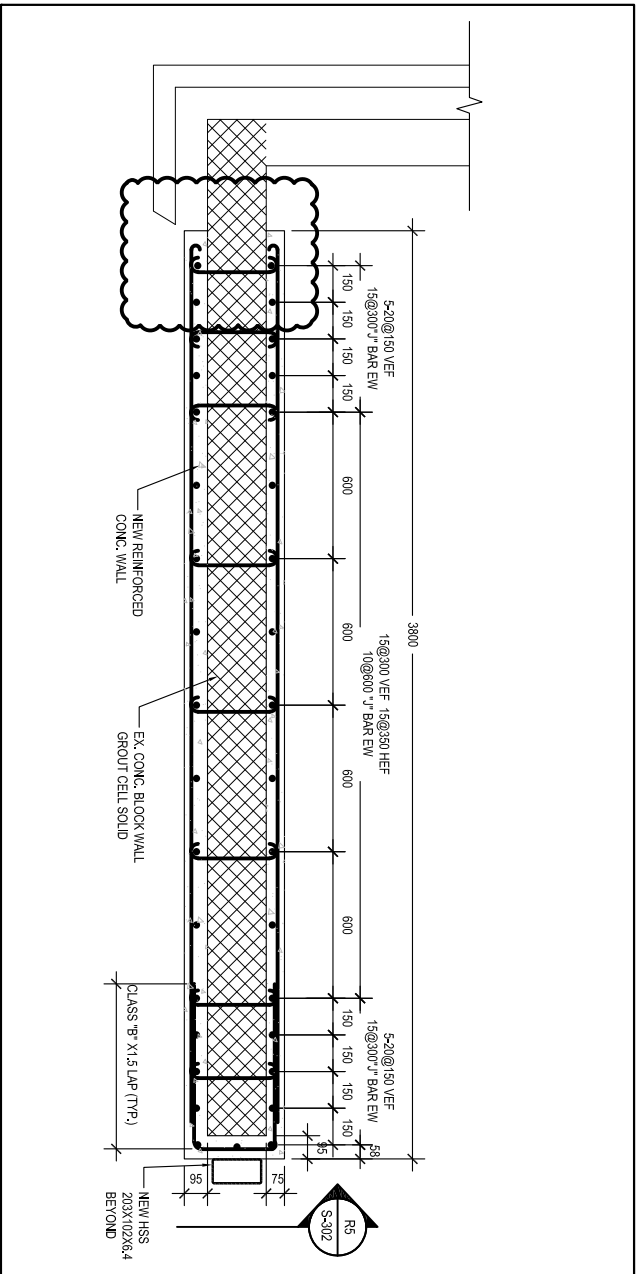
SHEET No.: SA5-02




F8 SECTION
S-301 SCALE: 1:20

**ÉCOLE LE PRÉLUDE
MUSIC ROOM**

DESIGNED BY: B. JIANG	PROJECT No.: 2160398A
DRAWN BY: YH	DATE: NOV. 01 2018
APPROVED BY: B. JIANG	ISSUED FOR: ADDENDUM 5
SCALE:	SHEET No.: SA5-03



DI
S-302
DETAIL
SCALE: 1:20

		Project: ECOLE LE PRELUDE MUSIC ROOM ADDITION 6025 PROMENAGE LONGLEAF ORLEANS, ON	
Drawing: SECTIONS		DESIGNED BY: B.J. DRAWN BY: YH CHECKED BY: B.J. APPROVED BY: B.J.	
PROJECT No.: 2160398A ISSUE DATE: 11/01/2018 ISSUED FOR: ADDENDUM 5 SHEET No.: S4S-04		PROJECT No.: 2160398A ISSUE DATE: 11/01/2018 ISSUED FOR: ADDENDUM 5 SHEET No.: S4S-04	



Addendum No. EA-01

Date	November 1st, 2018	Pages	2 (incl. this page)
To	Douglas Rancier, Project Architect Civitas Group	From	Allan Demmings, P. Eng Patrick Scissons, C.Tech.
Client No.		Jp2g No.	2160398A

Project	Ecole Le Prelude Music Room
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Addendum clarifications, revisions, deletions and inclusions shall be read with, and form part of, the original bid documents. All parties tendering the subject project shall take note of and include for the following revisions and/or information provided which supplement the Drawings and Specifications. Receipt of this addendum shall be acknowledged by inserting the addendum number in the space provided in the Tender Forms.

1.0 Drawings

1.1 Drawing: E-101 Keyplan and Schedules

- 1.1.1 Lighting Schedule Clarifications, refer to attached sketch SKE-101.1;
 - 1.1.1.1 Delete fixture type 'L4'
 - 1.1.1.2 Revise fixture type 'L6' to 'L5' LED cove fixture as shown on Floorplans on drawing E-200.
 - 1.1.1.3 Revise fixture type 'L2' from 359 lumens per ft to 729 lumens per ft.

1.2 Drawing: E-200 Lighting New Work

- 1.2.1 Suspended linear fixtures in classroom shall be suspended at same height as acoustic panels. Bottom of fixture to be flush with bottom of acoustic panel.

End of Addendum No. EA-01

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	CATALOGUE NUMBER	LUMENS	TYPE	WATTS	COLOUR	VOLTS	MOUNTING	REMARKS
L1	6" LED DOWNLIGHT	EATON LIGHTING # PD610D010-EUB51020-8035-6LBM011	1,000	LED	11	3500K	120V	RECESSED	6" RECESSED LED DOWNLIGHT CW GALVANIZED STEEL HOUSING, ONE PIECE PARABOLIC ALUMINUM REFLECTOR, 1,000 LUMEN LED OUTPUT AT 3500K C/W 0-10V CONTINUOUS DIMMING DRIVER. PROVIDE NEW CONSTRUCTION HOUSING AND ACCESSORIES REQUIRED FOR MOUNTING. COORDINATE FINISH COLOUR WITH ARCHITECT.
L2	8FT LED LINEAR SUSPENDED	EATON LIGHTING NEO-RAY DEFINE 4 # S124DP-135-SC-48-JB0096-1D-1HCD-1-W	729 / FT	LED	7.0 / FT	3500K	120V	SUSPENDED	RECTANGULAR 103mm (W) X 130mm(H), EXTRUDED ALUMINIUM HOUSING, LONG LIFE LED SYSTEM 105 LM/W EFFICACY, SNAP IN FLUSH FROSTED LENS, LED DRIVER C/W 0-10 100% TO 1% DIMMING, PF>0.9, PROVIDE 48" WHITE AIR CRAFT CABLE SUSPENSION HARDWARE AND ACCESSORIES, ADJUST TO MOUNTING HEIGHTS SHOWN ON DRAWINGS. 5 YEAR FIXTURE WARRANTY.
L3	4FT LED LINEAR RECESSED	EATON LIGHTING NEO-RAY DEFINE 4 # OS-S124-DR-2-35-GYP-0048-1-U-DD-1-W	1034 / FT	LED	10.7 / FT	3500K	120V	RECESSED	EXTRUDED ALUMINIUM HOUSING, LONG LIFE LED SYSTEM 105 LM/W EFFICACY, SNAP IN FLUSH FROSTED LENS, LED DRIVER C/W 0-10 100% TO 1% DIMMING, PF>0.9, 5 YEAR FIXTURE WARRANTY.
L5	COVE LED LIGHTING	EATON LIGHTING AMETRIX # LC-2-35K-1-D10-120-24-30	765 / FT	LED	9 / FT	3500K	120V	SURFACE	LINE COVE SYSTEM CW INTEGRAL DRIVER AND QUICK CONNECT PLUGS24" LED MODULE CW EXTRUDED ALUMINIUM HEAT SINK, CLEAR ACRYLIC EXTRUDED LENS LED DRIVER C/W 0-10V DIMMING, 5 YEAR FIXTURE WARRANTY.
W1	WALLPACK - FORWARD THROW OPTICS	EATON LIGHTING MCGRAW-EDISON # 1ST-AF-450-LED-347-14FT-AP	3177	LED	25	4000K	347V	SURFACE	DIE CAST ALUMINIUM HOUSING AND DOOR, ELECTRONIC DRIVER, B1-U1-G2, FORWARD THROW DISTRIBUTION AND POWDERCOAT FINISH, COORDINATE FINISH WITH ARCHITECT. 5 YEAR FIXTURE WARRANTY.
W2	STEP LIGHT FIXTURE	LITON # SL700-B-UE-140	1000	LED	11	4000K	120V	RECESSED	DIE CAST ALUMINIUM CW SILICONE GASKET, FACEPLATE ONE-PIECE DIE CAST ALUMINIUM HIGH CORROSION-RESISTANT POWDER COAT FINISH AND SEMI-TRANSLUCENT POLYCARBONATE OPAL LENS AND TAMPER-RESISTANT STAINLESS STEEL SCREWS, LISTED FOR WET LOCATION. 5 YEAR FIXTURE WARRANTY. COORDINATE FINISH WITH ARCHITECT.
W3	6" WALLWASHER DOWNLIGHT	EATON LIGHTING # PD630D010B-PDM6B840-61WMH	3000	LED	27	4000K	120V	RECESSED	6" RECESSED LED DOWNLIGHT CW WALLWASHER REFLECTOR, GALVANIZED STEEL HOUSING, ONE PIECE PARABOLIC ALUMINUM REFLECTOR, 3,000 LUMEN LED OUTPUT AT 4000K C/W 0-10V CONTINUOUS DIMMING DRIVER. PROVIDE NEW CONSTRUCTION HOUSING AND ACCESSORIES REQUIRED FOR MOUNTING. COORDINATE FINISH COLOUR WITH ARCHITECT. CUL LISTED FOR WET LOCATION.



Project:
**ECOLE LE PRELUDE MUSIC ROOM
 ADDITION**
 6025 PROMENAGE LONGLEAF ORLEANS, ON

Drawing:
LUMINAIRE SCHEDULE

DESIGNED BY: P.SCISSONS	PROJECT No.: 2160398A
DRAWN BY: P.SCISSONS	ISSUE DATE:
CHECKED BY: ADEMMINGS	ISSUED FOR: ADDENDUM EA-01
APPROVED BY: ADEMMINGS	SHEET No.: SKE-101.1



Transmittal

Aland Enterprises
 1479 Laperriere Ave.
 Ottawa ON K1Z 7S8
 Phone: (613) 761-1188
From: Phil Giroux

Project Ecole le Prelude - Music Room
Quote# ALAND18-1958
Location Orleans On
To JP2G engineering
 12 International dr.
 Pembroke ON K8A 6W5
 Contact:

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

- | | | |
|--|---|--------|
| <input checked="" type="checkbox"/> Drawings | <input type="checkbox"/> Specifications | Other: |
| <input type="checkbox"/> Prints | <input type="checkbox"/> Information | |
| <input type="checkbox"/> Plans | <input type="checkbox"/> Submittals | |

THESE ARE TRANSMITTED FOR:

- | | | |
|--|---|---------------------------------|
| <input checked="" type="checkbox"/> Prior Approval | <input type="checkbox"/> Resubmittal for Approval | <input type="checkbox"/> Record |
| <input type="checkbox"/> Approval | <input type="checkbox"/> Corrections | Bids due on: |
| <input type="checkbox"/> Approval as Submitted | <input type="checkbox"/> Your Use | Other: |
| <input type="checkbox"/> Approval as Noted | <input type="checkbox"/> Review and Comment | |

Type	MFG	Part
L1	LIGHTOLIER	P6RD10NZ10UVB P6RD835VB P6RDCL
L2	PINNACLE ARCHITECTURAL LIGH	EX4-A-N-835-8-AC48JB-U-OL1-1-0-W
L3	PINNACLE ARCHITECTURAL LIGH	EV3D-A-835VHO-4-FL-U-OL1-1-0-W
L4	CFI	FSS440L835-UNV-DIM FSSWG4
L6	FC LIGHTING	(1) CVL-1-35K-10W-120 (1) SC6 (2) TCAP (1) 10VELVDIM
W1	GARDCO	101L-16L-700-NW-G1-4-HVU-MGY
W2	FC LIGHTING	FCSL201-120V-LED-4K-780-BK
W3	LIGHTOLIER	C6RN C6L35840MZ10U C6RDLCL
DR	LUMACELL	MQM2LD10
EBU	LUMACELL	RG12S1002LD10AT



Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
P6RD10NZ10UVB P6RD835VB
P6RDCL
Notes:

Type:

L1

ALAND18-1958

PHILIPS
LIGHTOLIER

Downlighting

LyteProfile

6" Round downlight
and Lensed wall wash



LyteProfile LED Downlights are designed for new construction and include downlight and wall wash distributions. They are highly energy efficient with up to 100lm/W, provide a full 60° cutoff, and feature an impressively, shallow 4.5" housing.

Complete Product =
Frame-in kit + Light engine + Reflector
(order each separately)

Frame-in kit¹

Example: P6RD15NZ10UVBEM

Series	Style	Lumens	Installation	Dimming	Input voltage	Version	Options
P6R	D		N			VB	
P6R LyteProfile 6" Round	D Downlight	10 1,000 lm	N New construction Non-IC	Z10 0-10V L Lutron	U Universal (120/277v) 3 347V ²	VB Version B	EM Emergency ²
		15 1,500 lm					N New construction Non-IC
		20 2,000 lm					
		25 2,500 lm					

Light engine

Example: P6RD835VB

Series	Style	CRI	CCT	Version	Version
P6R	D			VB	
P6R LyteProfile 6" Round	D Downlight	8 80 CRI	27 2700K	VB Version B	— None
			30 3000K		
			35 3500K		
			40 4000K		
		9 90 CRI	27 2700K	VB Version B	— None
			30 3000K		

Reflector

Example: P6RDCCP

Series	Style	Reflector	Flange
P6R			
P6R LyteProfile 6" Round	D Downlight LW Lensed wall wash	CL Clear	— White (painted)
		CC Comfort clear	P Polished (matches aperture)
		D Clear diffuse (applied)	
		W White (painted)	— White (painted)

1. Mounting Bars need to be ordered separately, see Options and Accessories on page 2 for Mounting Bar options.
2. The 347V configurations are not available with the emergency option.
Note: Refer to page 2 for Energy Star certification details.



Job Name:Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**P6RD10NZ10UVB P6RD835VB
P6RDCL

Notes:

Type:**L1**

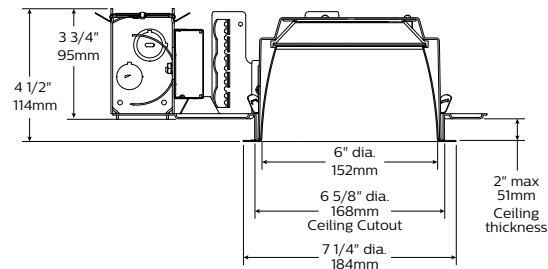
ALAND18-1958

P6R LyteProfile 6" Round

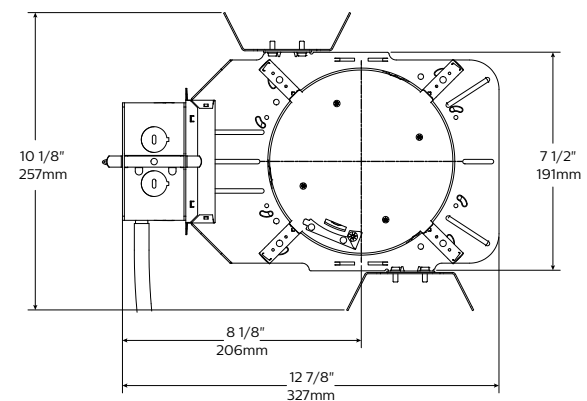
Commercial downlight and lensed wall wash

Frame-in kit

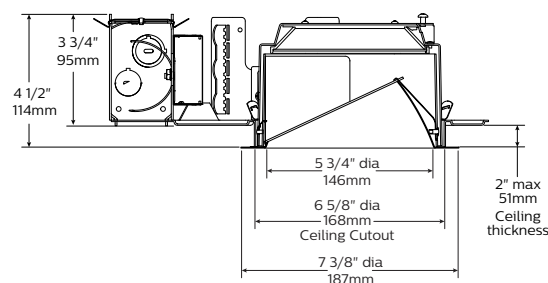
Downlight side view



Top view



Lensed wall wash side view



Features

Ceiling cutout: 6 5/8" (168mm).

Depth: 4 1/2" (114 mm) including light engine.

Power connection: Attaches to light engine via push-in connector (on frame). Removable cover provides access.

Junction box: 2" x 4" x 3 1/2" (22cu. in.) cULus listed for 90°C. Supply conductor .048" thick galvanized steel. Allows inspection from below.

Thermal protector: The 2500 lumen fixture is thermally protected. The 1000, 1500 and 2000 lumen fixtures are inherently protected. Meets NEC & cULus requirements. Do not install insulation above or within 3" of luminaire.

Thermal Management: Thermal design ensures specified performance levels are maintained.

New construction

Mounting frame: Galvanized stamped steel for dry or plaster ceilings.

Mounting brackets: Galvanized Steel. Adjustable through aperture. Use lathing channel (3/4" or 1 1/2"), 1/2" EMT, or optional mounting bars. See Options and Accessories for mounting bar options.

LyteProfile_P6R_Downlight 08/17 page 2 of 8

Options and accessories

Dimming capability: 0-10V dimming. See LED-DIM specification sheet.

Emergency capability: Integral; Add "EM" suffix. See LED-EM spec sheet.

Mounting bars:

1950	18" long (set of 2)
1951	27" long (set of 2)
7994	Wood joist telescoping mounting bars (minimum 13 1/4" and maximum 24 1/2")

T-Bar anchor clips:

1956	Set of 4 for use with 18" or 27" mounting bars
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ENERGY STAR®

All New Construction Non-IC (N) frame-in kit and trims are Energy Star certified with the following exceptions:

- Emergency configurations.
- 347V configurations.
- LC (Chicago Plenum) configurations.
- Lensed Wall Washers.

Quick-ship

Philips is committed to having the most common items in stock, please refer to our Smart Service guide for details.

Electrical

Electronic power supply: RoHS compliant Class 2 power unit for use in a damp or dry location. Class A sound rated unit tolerates sustained open circuit and short circuit output conditions without damage. Complies with FCC rules per Title 47 CFR Part 15 Non-Consumer (Class A) for EMI/RFI (conducted and radiated). Intended for use with 0-10V DC type dimmers. See LED-DIM spec sheet for latest dimming switch compatibility.

Lifetime: Expected lifetime 50,000 hours at L70 and backed by a 5-year limited warranty. (see Philips.com/warranties for details)

Labels

cULus. Suitable for wet location.

P6R LyteProfile 6" Round

Commercial downlight and lensed wall wash

Electrical matrix

Frame-in kit Electrical specifications	Input volts	Input freq.	Input current	LED drive current*	Input power*	LED power	THD factor	Power factor
P6RD10NZ10UVB 1000lm w/0-10V dimming	120V	50/60Hz	0.085	0.236	10	7.7	<20%	>0.9
	277V	50/60Hz	0.041	0.235	10	7.7	<20%	>0.9
P6RD15NZ10UVB 1500lm w/0-10V dimming	120V	50/60Hz	0.131	0.363	15.7	12	<20%	>0.9
	277V	50/60Hz	0.06	0.362	15.6	12	<20%	>0.9
P6RD20NZ10UVB 2000lm w/0-10V dimming	120V	50/60Hz	0.176	0.509	21	17	<20%	>0.9
	277V	50/60Hz	0.079	0.508	21	17	<20%	>0.9
P6RD25NZ101VB 2500lm w/0-10V dimming	120V	50/60Hz	0.243	0.665	29	34.5	<20%	>0.9
P6RD25NZ102VB 2500lm w/0-10V dimming	277V	50/60Hz	0.107	0.663	29	34	<20%	>0.9
P6RD10NZ103VB 1000lm w/0-10v dimming	347V	50/60Hz	0.064	0.243	11.7	8	<20%	>.5
P6RD15NZ103VB 1500lm w/0-10V dimming	347V	50/60Hz	0.085	0.371	16.8	12.6	<20%	>.5
P6RD20NZ103VB 2000lm w/0-10V dimming	347V	50/60Hz	0.107	0.518	22	18	<20%	>.6
P6RD25NZ103VB 2500lm w/0-10V dimming	347V	50/60Hz	0.136	0.677	30.7	24	<20%	>.6
P6RD10NLUVB 1000lm w/Lutron	120V	50/60Hz	0.084	0.214	10	7	<20%	>0.9
	277V	50/60Hz	0.045	0.213	10	7	<20%	>.8
P6RD15NLUVB 1500lm w/Lutron	120V	50/60Hz	0.122	0.328	14.5	10.8	<20%	>.09
	277V	50/60Hz	0.06	0.328	14.8	10.8	<20%	>.8
P6RD20NLUVB 2000lm w/Lutron	120V	50/60Hz	0.167	0.463	20	15.5	<20%	>0.9
	277V	50/60Hz	0.08	0.462	20	15.5	<20%	>.9
P6RD25NL1VB 2500lm w/Lutron	120V	50/60Hz	0.25	0.666	30	22.8	<20%	>.9
P6RD25NL2VB 2500lm w/Lutron	277V	50/60Hz	0.115	0.665	30.6	22.8	<20%	>.9
P6RD10NL3VB 1000lm w/Lutron	347V	50/60Hz	0.058	0.224	12	7	<20%	>.6
P6RD15NL3VB 1500lm w/Lutron	347V	50/60Hz	0.07	0.348	17	11.8	<20%	>.7
P6RD20NL3VB 2000lm w/Lutron	347V	50/60Hz	0.086	0.478	23	16.5	<20%	>.7
P6RD25NL3VB 2500lm w/Lutron	347V	50/60Hz	0.101	0.611	29	21	<20%	>.8

* +/- 10%

Job Name:Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**

P6RD10NZ10UVB P6RD835VB

P6RDCL

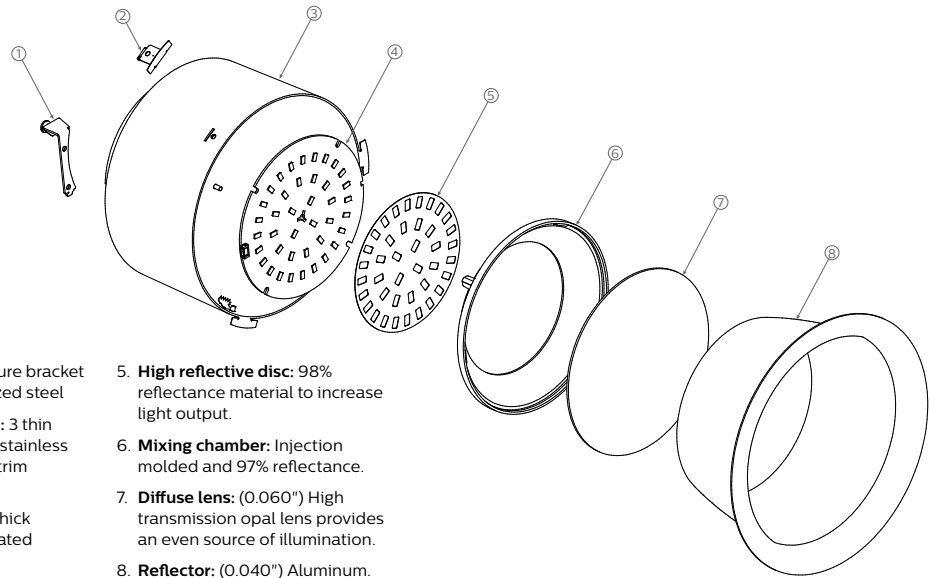
Notes:

Type:**L1**

ALAND18-1958

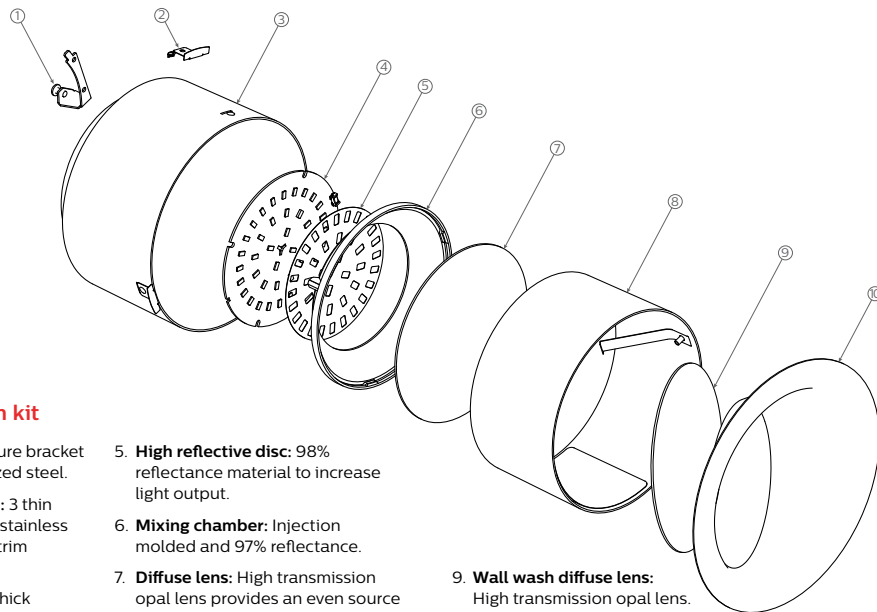
P6R LyteProfile 6" Round

Commercial downlight and lensed wall wash



Downlight trim kit

- Connector mount:** Enclosure bracket base (0.04") thick galvanized steel
- Reflector retaining spring:** 3 thin flanges only (0.012") thick stainless steel, make a clean, flush trim appearance
- Housing:** Formed (0.05") thick aluminum provides integrated thermal management.
- LED Board:** High efficient Philips mid-flux LEDs.
- High reflective disc:** 98% reflectance material to increase light output.
- Mixing chamber:** Injection molded and 97% reflectance.
- Diffuse lens:** (0.060") High transmission opal lens provides an even source of illumination.
- Reflector:** (0.040") Aluminum. Provides 60° cutoff to source.



Lensed wall wash trim kit

- Connector mount:** Enclosure bracket base (0.04") thick galvanized steel.
- Reflector retaining spring:** 3 thin flanges only (0.012") thick stainless steel, make a clean, flush trim appearance.
- Housing:** Formed (0.05") thick aluminum provides integrated thermal management.
- LED Board:** High efficient Philips mid-flux LEDs.
- High reflective disc:** 98% reflectance material to increase light output.
- Mixing chamber:** Injection molded and 97% reflectance.
- Diffuse lens:** High transmission opal lens provides an even source of illumination.
- Kick reflector sleeve:** Aluminum. Lined with a highly reflective material to increase light output.
- Wall wash diffuse lens:** High transmission opal lens.
- Reflector:** (0.040") Aluminum. Provides clean and uniform wall-washing spill.



Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
P6RD10NZ10UVB P6RD835VB
P6RDCL
Notes:

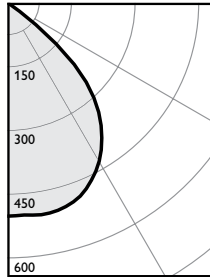
Type:
L1
ALAND18-1958

P6R LyteProfile 6" Round

Commercial downlight

Downlight, 1000lm Engine, 99.3 lm/w

Candela Curve



Frame: **P6RD10NZ10UVB**
Engine: **P6RD835VB**
Trim: **P6RDCL**
Light Engine
Source lumens: 1206 lms
Output lumens: 1013 lms
Input watts: 10.2 W
CRI: 80 min
CCT¹: 3500K
Spacing Crit.: 1.3

Zonal summary

Zone	Lumens	%Luminaire
0-30	416	41.1%
0-40	680	67.1%
0-60	1009	99.6%
0-90	1013	100.0%

Angle	Mean CP	Lumens
0	505	
5	504	48
10	509	
15	508	144
20	501	
25	485	223
30	460	
35	425	265
40	379	
45	318	240
50	227	
55	91	89
60	12	3
65	3	3
70	1	
75	0	1
80	0	
85	0	0
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	20	6.5'
6'	14	7.8'
7'	10	9.1'
8'	8	10.4'
9'	6	11.7'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	44.0	0.45
6'	29.0	0.30
7'	21.0	0.21
8'	17.0	0.18
9'	14.0	0.14

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 99.3 lm/w
Report#: F34232

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	112	109	106	103	107	102	103	98	99	95	91
	2	105	99	94	90	97	89	94	87	91	85	81
	3	98	90	84	79	88	78	86	77	83	76	73
	4	91	82	75	69	80	69	78	68	76	67	65
	5	85	74	67	62	73	61	71	61	70	60	58
	6	79	68	61	55	67	55	65	55	64	54	52
	7	74	62	55	50	62	50	60	49	59	49	47
	8	69	57	50	45	57	45	56	45	54	44	43
	9	65	53	46	41	52	41	51	41	50	40	39
	10	61	49	42	37	49	37	48	37	47	37	35

CRI and CCT adjustment factors

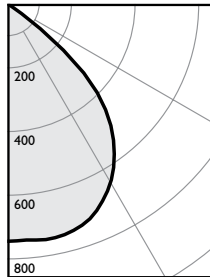
90CRI 2700K = 74%
90CRI 3000K = 78%
80CRI 2700K = 89%
80CRI 3000K = 97%
80CRI 3500K = 100%
80CRI 4000K = 102%

Reflector finish adjustment factors

CL = 100%
CC = 97%
D = 88%
W = 79%

Downlight, 1500lm Engine, 98.1 lm/w

Candela Curve



Frame: **P6RD15NZ10UVB**
Engine: **P6RD835VB**
Trim: **P6RDCL**
Light Engine
Source lumens: 1761 lms
Output lumens: 1501 lms
Input watts: 15.3 W
CRI: 80 min
CCT¹: 3500K
Spacing Crit.: 1.3

Zonal summary

Zone	Lumens	%Luminaire
0-30	613	40.8%
0-40	1004	66.9%
0-60	1492	99.4%
0-90	1501	100.0%

Angle	Mean CP	Lumens
0	746	
5	744	71
10	752	
15	750	212
20	740	
25	716	329
30	678	
35	627	390
40	559	
45	470	356
50	338	
55	137	134
60	18	5
65	4	5
70	3	
75	2	2
80	1	
85	0	1
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	30	6.5'
6'	21	7.8'
7'	15	9.1'
8'	12	10.4'
9'	9	11.7'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	66.0	0.68
6'	43.0	0.45
7'	31.0	0.32
8'	26.0	0.26
9'	21.0	0.21

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 98.1 lm/w
Report#: F34233

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	112	109	106	103	107	102	103	98	99	95	91
	2	105	99	94	90	97	89	94	87	91	85	81
	3	98	90	84	79	88	78	86	77	83	76	73
	4	91	82	75	69	80	69	78	68	76	67	65
	5	85	74	67	62	73	61	71	61	70	60	58
	6	79	68	61	55	67	55	65	55	64	54	52
	7	74	62	55	50	62	50	60	49	59	49	47
	8	69	57	50	45	57	45	56	45	54	44	43
	9	65	53	46	41	52	41	51	41	50	40	39
	10	61	49	42	37	49	37	48	37	47	37	35

CRI and CCT adjustment factors

90CRI 2700K = 74%
90CRI 3000K = 78%
80CRI 2700K = 89%
80CRI 3000K = 97%
80CRI 3500K = 100%
80CRI 4000K = 102%

Reflector finish adjustment factors

CL = 100%
CC = 97%
D = 88%
W = 79%

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.



Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
P6RD10NZ10UVB P6RD835VB
P6RDCL
Notes:

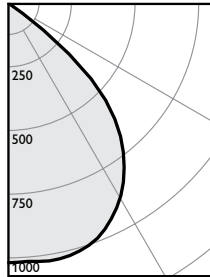
Type:
L1
ALAND18-1958

P6R LyteProfile 6" Round

Commercial downlight

Downlight, 2000lm Engine, 97.9 lm/w

Candela Curve



Frame: **P6RD20NZ10UVB**
Engine: **P6RD835VB**
Trim: **P6RDCL**
Light Engine
Source lumens: 2395 lms
Output lumens: 2027 lms
Input watts: 20.7 W
CRI: 80 min
CCT¹: 3500K
Spacing Crit.: 1.3

Zonal summary

Zone	Lumens	%Luminaire
0-30	827	40.8%
0-40	1355	66.8%
0-60	2017	99.5%
0-90	2027	100.0%

Angle	Mean CP	Lumens
0	1007	
5	1005	96
10	1015	
15	1013	286
20	999	
25	997	445
30	916	
35	847	527
40	756	
45	636	481
50	458	
55	184	181
60	23	
65	5	7
70	3	
75	2	2
80	1	
85	0	0
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	40	6.5'
6'	28	7.8'
7'	21	9.1'
8'	16	10.4'
9'	12	11.7'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	89.0	0.92
6'	58.0	0.60
7'	42.0	0.43
8'	35.0	0.36
9'	28.0	0.29

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 97.9 lm/w
Report#: F34234

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	112	109	106	103	107	102	103	98	99	95	91
	2	105	99	94	90	97	89	94	87	91	85	81
	3	98	90	84	79	88	78	86	77	83	76	72
	4	91	82	75	69	80	69	78	68	76	67	65
	5	85	74	67	62	73	61	71	61	70	60	58
	6	79	68	61	55	67	55	65	55	64	54	52
	7	74	62	55	50	62	50	60	49	59	49	47
	8	69	57	50	45	57	45	56	45	54	44	42
	9	65	53	46	41	52	41	51	41	50	40	39
	10	61	49	42	37	49	37	48	37	47	37	35

CRI and CCT adjustment factors

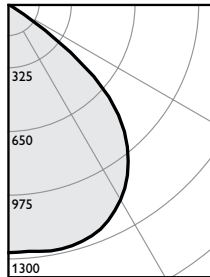
90CRI 2700K = 74%
90CRI 3000K = 78%
80CRI 2700K = 89%
80CRI 3000K = 97%
80CRI 3500K = 100%
80CRI 4000K = 102%

Reflector finish adjustment factors

CL = 100%
CC = 97%
D = 88%
W = 79%

Downlight, 2500lm Engine, 90.4 lm/w

Candela Curve



Frame: **P6RD25NZ10UVB**
Engine: **P6RD835VB**
Trim: **P6RDCL**
Light Engine
Source lumens: 3046 lms
Output lumens: 2566 lms
Input watts: 28.4 W
CRI: 80 min
CCT¹: 3500K
Spacing Crit.: 1.3

Zonal summary

Zone	Lumens	%Luminaire
0-30	1047	40.8%
0-40	1714	66.8%
0-60	2553	99.5%
0-90	2566	100.0%

Angle	Mean CP	Lumens
0	1274	
5	1271	122
10	1284	
15	1281	362
20	1264	
25	1223	563
30	1159	
35	1072	667
40	856	
45	805	609
50	577	
55	236	231
60	32	
65	6	10
70	4	
75	2	3
80	2	
85	1	1
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	51	6.5'
6'	35	7.8'
7'	26	9.1'
8'	20	10.4'
9'	16	11.7'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	112.0	1.26
6'	74.0	0.83
7'	53.0	0.59
8'	44.0	0.49
9'	35.0	0.39

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 90.4 lm/w
Report#: F34235

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	112	109	106	103	107	102	103	98	99	95	91
	2	105	99	94	90	97	89	94	87	91	85	81
	3	98	90	84	79	88	78	86	77	83	76	72
	4	91	82	75	69	80	69	78	68	76	67	65
	5	85	74	67	62	73	61	71	61	70	60	58
	6	79	68	61	55	67	55	65	55	64	54	52
	7	74	62	55	50	62	50	60	49	59	49	47
	8	69	57	50	45	57	45	56	45	54	44	42
	9	65	53	46	41	52	41	51	41	50	40	39
	10	61	49	42	37	49	37	48	37	47	37	35

CRI and CCT adjustment factors

90CRI 2700K = 74%
90CRI 3000K = 78%
80CRI 2700K = 89%
80CRI 3000K = 97%
80CRI 3500K = 100%
80CRI 4000K = 102%

Reflector finish adjustment factors

CL = 100%
CC = 97%
D = 88%
W = 79%

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.



Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
P6RD10NZ10UVB P6RD835VB
P6RDCL
Notes:

Type:
L1
ALAND18-1958

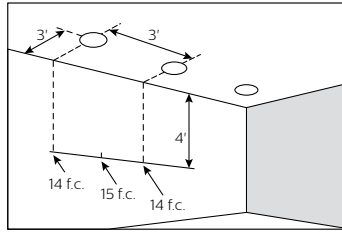
P6R LyteProfile 6" Round

Commercial lensed wall wash

Lensed wall wash

Lighting Data (example)

P6RD10NZ10UVB/P6RD835VB/P6RLWCL
illumination on the wall 4' down from the ceiling
is 14 f.c. beneath and 15 f.c. between fixtures.



CRI and CCT adjustment factors

90CRI 2700K = 74%
90CRI 3000K = 78%
80CRI 2700K = 89%
80CRI 3000K = 97%
80CRI 3500K = 100%
80CRI 4000K = 102%

Reflector finish adjustment factors

CL = 100%
CC = 97%
D = 88%
W = 79%

Lensed wall wash, 1000lm Engine, 71.5 lm/w

Candela Curve



Frame: **P6RD10NZ10UVB**
Engine: **P6RD835VB**
Trim: **P6RLWCL**

Light Engine
Source lumens: 1206 lms
Output lumens: 729 lms
Input watts: 10.2 W
CRI: 80 min
CCT¹: 3500K

Efficacy: 71.5 lm/w
Report#: F34240

Multiple unit data

Footcandles on wall

Distance from ceiling in feet	2' from wall		
	3' on ctr.		
1	18	13	18
2	24	21	24
3	20	20	20
4	15	15	15
5	12	12	12
6	9	9	9
7	7	7	7
8	6	6	6
9	5	5	5
10	4	4	4
12	4	3	4
14	3	3	3

Multiple unit data

Footcandles on wall

Distance from ceiling in feet	3' from wall		
	3' on ctr.		
1	7	8	7
2	13	14	13
3	15	16	15
4	14	15	14
5	12	13	12
6	11	11	11
7	9	9	9
8	8	8	8
9	6	6	6
10	6	6	6
12	5	5	5
14	4	4	4

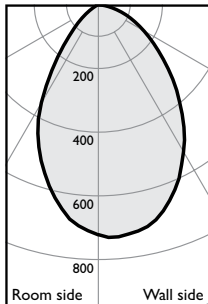
Multiple unit data

Footcandles on wall

Distance from ceiling in feet	3' from wall		
	4' on ctr.		
1	6	5	6
2	11	9	11
3	12	11	12
4	11	11	11
5	9	9	9
6	7	8	7
7	6	6	6
8	5	5	5
9	4	4	4
10	3	4	3
12	3	3	3
14	2	2	2

Lensed wall wash, 1500lm Engine, 71.0 lm/w

Candela Curve



Frame: **P6RD15NZ10UVB**
Engine: **P6RD835VB**
Trim: **P6RLWCL**

Light Engine
Source lumens: 1761 lms
Output lumens: 1087 lms
Input watts: 15.3 W
CRI: 80 min
CCT¹: 3500K

Efficacy: 71.0 lm/w
Report#: F34241

Multiple unit data

Footcandles on wall

Distance from ceiling in feet	2' from wall		
	3' on ctr.		
1	28	20	28
2	37	32	37
3	30	30	30
4	22	23	22
5	17	17	17
6	12	12	12
7	9	9	9
8	7	7	7
9	5	5	5
10	4	4	4
12	3	3	3
14	3	3	3

Multiple unit data

Footcandles on wall

Distance from ceiling in feet	3' from wall		
	3' on ctr.		
1	11	11	11
2	20	20	20
3	22	23	22
4	20	21	20
5	17	18	17
6	14	14	14
7	11	11	11
8	9	9	9
9	7	7	7
10	5	6	5
12	4	4	4
14	4	4	4

Multiple unit data

Footcandles on wall

Distance from ceiling in feet	3' from wall		
	4' on ctr.		
1	9	7	9
2	16	14	16
3	18	17	18
4	16	16	16
5	14	14	14
6	11	11	11
7	9	9	9
8	7	8	7
9	6	6	6
10	5	5	5
12	4	4	4
14	3	4	3

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.



Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
P6RD10NZ10UVB P6RD835VB
P6RDCL
Notes:

Type:
L1
ALAND18-1958

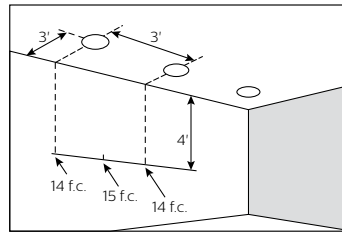
P6R LyteProfile 6" Round

Commercial lensed wall wash

Lensed wall wash

Lighting Data (example)

P6RD10NZ10UVB/P6RD835VB/P6RLWCL
illumination on the wall 4' down from the ceiling
is 14 f.c. beneath and 15 f.c. between fixtures.



CRI and CCT adjustment factors

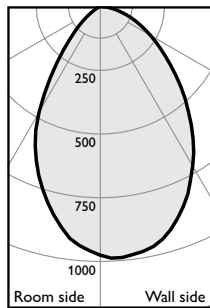
90CRI 2700K = 74%
90CRI 3000K = 78%
80CRI 2700K = 89%
80CRI 3000K = 97%
80CRI 3500K = 100%
80CRI 4000K = 102%

Reflector finish adjustment factors

CL = 100%
CC = 97%
D = 88%
W = 79%

Lensed wall wash, 2000lm Engine, 71.1 lm/w

Candela Curve



Frame: **P6RD20NZ10UVB**
Engine: **P6RD835VB**
Trim: **P6RLWCL**

Light Engine
Source lumens: 2395 lms
Output lumens: 1465 lms
Input watts: 20.6 W
CRI: 80 min
CCT: 3500K

Efficacy: 71.1 lm/w
Report#: F34242

Multiple unit data
Footcandles on wall

Distance from ceiling in feet	2' from wall		
	3' on ctr.	3' on ctr.	3' on ctr.
1	38	27	38
2	49	43	49
3	41	40	41
4	30	31	30
5	22	22	22
6	16	16	16
7	12	12	12
8	9	9	9
9	7	7	7
10	5	5	5
12	4	4	4
14	4	4	4

Multiple unit data
Footcandles on wall

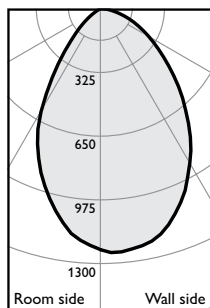
Distance from ceiling in feet	3' from wall		
	3' on ctr.	3' on ctr.	3' on ctr.
1	14	14	14
2	26	27	26
3	30	31	30
4	28	29	28
5	23	24	23
6	18	19	18
7	15	15	15
8	12	12	12
9	9	9	9
10	7	8	7
12	6	6	6
14	5	5	5

Multiple unit data
Footcandles on wall

Distance from ceiling in feet	3' from wall		
	4' on ctr.	4' on ctr.	4' on ctr.
1	12	9	12
2	21	19	21
3	24	23	24
4	22	22	22
5	18	19	18
6	15	15	15
7	12	12	12
8	10	10	10
9	8	8	8
10	6	7	6
12	5	6	5
14	5	5	5

Lensed wall wash, 2500lm Engine, 64.4 lm/w

Candela Curve



Frame: **P6RD25NZ10UVB**
Engine: **P6RD835VB**
Trim: **P6RLWCL**

Light Engine
Source lumens: 3046 lms
Output lumens: 1851 lms
Input watts: 28.3 W
CRI: 80 min
CCT: 3500K

Efficacy: 65.4 lm/w
Report#: F34243

Multiple unit data
Footcandles on wall

Distance from ceiling in feet	2' from wall		
	3' on ctr.	3' on ctr.	3' on ctr.
1	47	34	47
2	62	54	62
3	52	50	52
4	38	39	38
5	28	28	28
6	20	21	20
7	15	15	15
8	11	12	11
9	9	9	9
10	7	7	7
12	5	6	5
14	5	5	5

Multiple unit data
Footcandles on wall

Distance from ceiling in feet	3' from wall		
	3' on ctr.	3' on ctr.	3' on ctr.
1	19	20	19
2	34	35	34
3	39	40	39
4	36	37	36
5	31	32	31
6	25	26	25
7	20	21	20
8	16	17	16
9	13	14	13
10	11	11	11
12	9	10	9
14	8	8	8

Multiple unit data
Footcandles on wall

Distance from ceiling in feet	3' from wall		
	4' on ctr.	4' on ctr.	4' on ctr.
1	15	12	15
2	27	24	27
3	30	28	30
4	27	27	27
5	23	24	23
6	19	19	19
7	15	16	15
8	12	13	12
9	10	10	10
10	8	9	8
12	7	7	7
14	6	6	6

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

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281 Hillmount Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008



Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

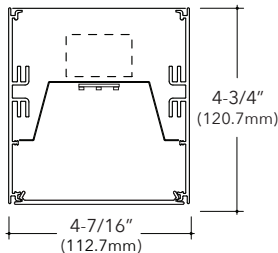
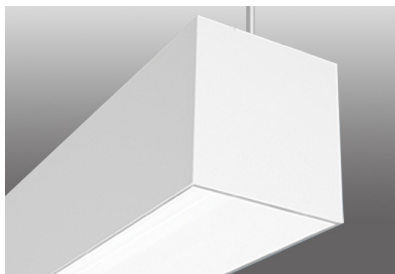
Catalog Number:
EX4-A-N-835-8-AC48JB-U-OL1-1-0-W
Notes:

Type:
L2
ALAND18-1958

PINNACLE
ARCHITECTURAL LIGHTING®

Project Name _____

Date _____ Type _____



EDGE EX4
4" Suspended Direct Linear

Key Features

- 6063-T5 Extruded aluminum housing
- Highly reflective die-formed white painted reflector
- Wiring access available through bottom of housing
- 5-year limited warranty covers LED, driver and fixture
- UL and cUL listed
- Approved for dry/damp location unless otherwise noted
- Maximum weight is 15 lbs. for a standard 4' fixture
- Buy American Act compliant



Example Part #: EX4-A-N-830HO-26'-AC48G1-U-OL1-1-0-W

EX4 - **A** - **N** - _____ - _____ - _____ - _____ - _____ - _____ - _____ - _____ - _____ - _____
DIRECT SHIELDING INDIRECT SHIELDING CRI, CCT & OUTPUT LENGTH OR PATTERN MOUNTING VOLTAGE DRIVER CIRCUITING BATTERY & EMERGENCY FINISH FIXTURE OPTIONS CONTROLS

A	N	-----	----
DIRECT SHIELDING	INDIRECT SHIELDING	CRI, CCT & OUTPUT	LENGTH OR PATTERN¹
A - Satine Lens Shielding pg. 2	N - None Shielding pg. 2	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K CL - Custom Lumens CW - Custom Watts Lumen Output pg. 2 Example: 830HO is 8 = 80 CRI; 30 = 3000K; HO = High Output; Blank = Standard Output	__ - Individual Fixture -- - Continuous Row S - Square R_X - Rectangle L_X - L Shape U_X_X - U-Shape M - Mod Layout Length and Pattern pg. 2-3
-----	-	---	-
MOUNTING²	VOLTAGE	DRIVER	CIRCUITING
AC_G - AC to Grid AC_JB - AC to J Box AC_ST - AC to Structure AC5_G - 5" Non-Power Canopy AC5_JB - 5" Non-Power Canopy SQ_G - 5" Square Canopy SQ_JB - 5" Square Canopy WA - Wall Mount Mounting pg. 3	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V Voltage pg. 4	OL1 - Osram (10%, 0-10v, standard) OL2 - Osram (1%, 0-10v) OL3 - Osram 347v (10%, 0-10v) EE1 - eldoLED ECoDrive (1%, 0-10v) EE3 - eldoLED ECoDrive (1%, DALI) PL2 - Philips Xitanium (1%, 0-10v) PS1 - Philips Xitanium (50%/100%) LH1 - Lutron Hi-lume (1%, EcoSystem) LH3 - Lutron Hi-lume (1%, 3-wire) L51 - Lutron 5-Series (5%, EcoSystem) ND - Non-Dimming Driver pg. 4	1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Circuiting pg. 4
----	--	-----	----
BATTERY & EMERGENCY³	FINISH	FIXTURE OPTIONS	CONTROLS
0 - None P - Philips Bodine 10W Integral I - Iota 10W Integral IC - Iota 10W Integral (CEC Listed) E - Emergency Section N - Night Light Section L - Life Safety Section G - Phipps Bodine GTD Battery and Emergency pg. 4	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color Finish pg. 5	MRA - Adjustable MR16 Halogen LMRA - Adjustable MR16 LED XLED - Fixed Xicato LED CC-C - Custom Color Canopy Fixture Options pg. 5	Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

¹ Individual fixtures come in 2', 3', 4', 5', 6' & 8' lengths. Continuous row come in 1' increments. For Mod layouts Specify pattern shape and overall dimensions. Example: L6x4: L pattern that is 6'x4'. ² Specify AC length standard AC is 48"; Specify grid: G1=15/16"; G9=9/16"; G5=Screw Slot. Example AC48G1. ³ Enter quantity for Battery and Emergency, Example 2P.

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Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
EX4-A-N-835-8-AC48JB-U-OL1-1-0-W
Notes:

Type:
L2

ALAND18-1958

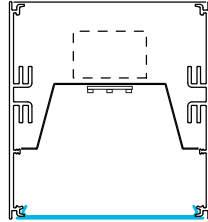
PINNACLE
ARCHITECTURAL LIGHTING®

EDGE EX4 Suspended Linear



Direct Shielding

A
Satine Lens



Indirect Shielding

N
None

Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 80 CRI = R9≥19 and 90 CRI = R9≥61

Custom Output- Lumens OR Wattage

CL_____ Specify CRI, CCT and desired lumens (i.e. CL835500)

Specify lumens between standard offering listed below. Lumens are specified per color temp

CW_____ Specify CRI, CCT and desired wattage (i.e. CW9407)

Specify watts between standard offering listed below

80 CRI

	Color	Output	Watts per foot	Shielding A Satine	
				Lumens/ft	LPW
830	3000K	Standard	4.6	376	81.6
830HO	3000K	High	8.7	687	79.4
835	3500K	Standard	4.6	387	84.0
835HO	3500K	High	8.7	706	81.6
840	4000K	Standard	4.6	394	85.6
840HO	4000K	High	8.7	720	83.2

90 CRI

927	2700K	Standard	4.6	297	64.5
927HO	2700K	High	8.7	543	62.7
930	3000K	Standard	4.6	346	75.2
930HO	3000K	High	8.7	633	73.2
935	3500K	Standard	4.6	348	75.7
935HO	3500K	High	8.7	635	73.4
940	4000K	Standard	4.6	352	76.5
940HO	4000K	High	8.7	643	74.3

Length

- All individual units cannot be joined, SJT and end plates are factory installed and cannot be removed
- For Continuous Runs add 1/16" (1.6mm) for each end plate or 1/8" (3.2mm) to the overall length of the row
- For patterns refer to Pattern section on next page

2	3	4	5	6	8	-
Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run Specify nominal overall row length to the 1'
24-1/8" (612.7mm)	36-1/8" (917.6mm)	48-1/8" (1222.4mm)	60-1/8" (1527.2mm)	72-1/8" (1831.9mm)	96-1/8" (2441.6mm)	

Specify to the 1' >>>

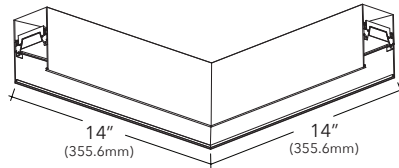
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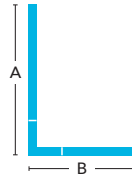
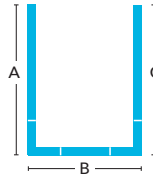
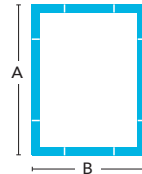
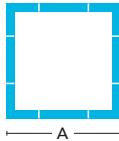
Job Name:Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**EX4-A-N-835-8-AC48JB-U-OL1-1-0-
W
Notes:**Type:****L2**

ALAND18-1958

PINNACLE
ARCHITECTURAL LIGHTING®**EDGE EX4** Suspended Linear**Pattern**

- Specify pattern shape and overall dimensions (includes corner dimensions)
- Refer to dimensions table below for available standard lengths
- All connectors are direct only
- 90 degree horizontal corners are 14"x14" (overall, outside dimension)
- Angles and shapes not shown require Mod Pattern; consult factory

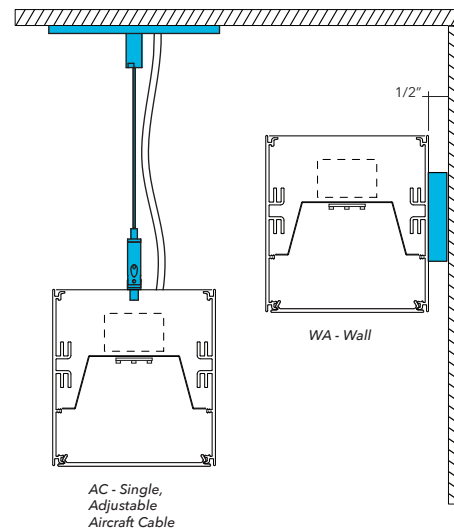
S_	R_x_	U_x_x_	L_x_	M
Square Provide A dimension Example: S4' Nominal Length- 4'x4' Minimum Length- 4'4"x4'4"	Rectangle Provide AxB dimensions Example: R4'x4' Nominal Length- 4'x4' Minimum Length- 4'4"x4'4"	U-Shape Provide AxBxC dimensions Example: U3'x4'x3' Nominal Length- 3'x4'x3' Minimum Length- 3'2"x4'4'x3'2"	L-Shape Provide AxB dimensions Example: L3'x3' Nominal Length- 3'x3' Minimum Length- 3'2"x3'2"	ModLayout For patterns or lengths not shown or standard

**Mounting**

- Specify cable length in ordering code (AC48G1)
- Standard 48" adjustable cable. Specify up to 350"
- End plates and standard white power cord attached at factory
- Aircraft cable (AC) mounts on 4' (1219.2mm) and 8' (2438.4mm) centers
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies

- Canopies are painted white unless otherwise specified
- Canopy color specified in fixture options section
- Approved for dry/damp location unless otherwise noted
- Refer to installation instructions during installation at the job site
- Maximum fixture weight is 15 lbs for a standard 4' fixture

AC_G1	Aircraft Cable 1" (15/16") T-Bar
AC_G9	Aircraft Cable 9/16" T-Bar
AC_G6	Aircraft Cable Screw Slot T-Bar
AC_JB	Aircraft Cable Junction Box
AC_S1	Aircraft Cable Structure
AC5_G	Aircraft Cable 5" (127mm) Non-Power Canopy
AC5_JB	Aircraft Cable 5" (127mm) Non-Power Canopy
SQ_G	Aircraft Cable 5" (127mm) Square Canopy
SQ_JB	Aircraft Cable 5" (127mm) Square Canopy
WA	Wall Mount



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pg. 3

**Job Name:**Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**EX4-A-N-835-8-AC48JB-U-OL1-1-0-W
Notes:**Type:****L2**

ALAND18-1958

PINNACLE
ARCHITECTURAL LIGHTING®**EDGE EX4** Suspended Linear**Voltage**

- Some EX4 configurations will not accommodate all voltage options; consult with factory

U	Universal
1	120 volt
2	277 volt
3	347 volt

Driver

- Standard Driver Option = OL1
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide
- Some EX4 configurations will not accommodate all driver options; consult with factory

OL1	Osram Optotronic 10%, 0-10v
OL2	Osram Optotronic 1%, 0-10v, nominal 1% dimming range
OL3	Osram Optotronic 347v 10%, 0-10v, requires 347v option
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic
EE3	eldoLED ECOdrive 1%, DALI Logarithmic
PL2	Philips Advance Xitanium 1%, 0-10v
PS1	Philips Advance Xitanium Step Dimming 50%/100%
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
LH3	Lutron Hi-lume 1%, 3-wire, Lutron-L3DA3W
L51	Lutron 5-Series 5%, EcoSystem, LDE5
ND	Non-Dimming

How to specify Circuiting, Battery and Emergency**1**

- Select fixture circuiting from options below
- Some EX4 configurations will not accommodate all circuiting options, consult with factory

Circuiting

1	Single Circuit
M	Multi Circuit
E	Emergency Circuit only
N	Night Light Circuit only

2

+

3

- Battery and emergency section options are available in addition to fixture circuit
- Select battery and emergency section options below; factory shop drawing required
- Some EX4 configurations will not accommodate all circuiting options, consult with factory

Battery and/or Emergency *If Required*

0	No battery or specific emergency section required
----------	---

Battery

- Select battery section type if required, indicate total QTY. Example 2P
- 90 minute battery runtime; test button is remote to fixture and requires an additional drop
- No battery option available for 2' lengths
- Entire direct fixture housing is on battery for lengths up to 5'
- Half of direct fixture is on battery for 6' or 8' housing lengths
- For more battery options available, see Pinnacle Resource Guide

0	No battery
_P	Philips Bodine 10w Integral
_I	Iota 10w Integral
_IC	Iota 10w Integral <i>CEC Listed</i>

Emergency

- Select emergency section type if required, indicate total QTY. Example 1E
- Combine battery and emergency section ordering codes if both options are selected

_E	Emergency circuit section
_N	Night Light circuit section
_L	Life Safety circuit section NO THROUGH WIRE
_G	Philips Bodine GTD, Generator Transfer Device section

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- $92.3 \text{ (LPW)} \times 10 \text{ (watts)} = 923 \text{ battery lumen output}$

Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery Ordering Code: 1-1P
- Emergency only, 10w Integral Battery Ordering Code: E-1P
- Single circuit, GTD required Ordering Code: 1-1G

Combination Section Ordering Examples

- Single circuit, (1) 10w battery, (1) emergency section Ordering Code: 1-1P1E
- Multi circuit, (2) 10w battery, (2) emergency sections Ordering Code: M-2P2E
- Single circuit, (1) night light section Ordering Code: 1-1N

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pg. 4

Job Name:Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**EX4-A-N-835-8-AC48JB-U-OL1-1-0-
W
Notes:**Type:****L2**

ALAND18-1958

PINNACLE
ARCHITECTURAL LIGHTING®**EDGE EX4** Suspended Linear**Finish**

- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

W	White
S	Metallic Silver
BL	Textured Black
GR	Graphite
BR	Bronze
CC	Custom Color

Fixture Options

- Additional options to enhance the fixture and finish of the product
- Consult factory for MR16 configurations
- Specify CC-C to match housing. If not specified, canopy will be standard matte white

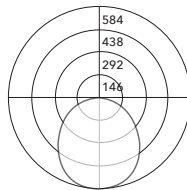
MRA	Adjustable MR16 Halogen
LMRA	Adjustable MR16 LED
XLED	Fixed Xicato LED
CC-C	Custom Canopy Color

Controls

- Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

Photometrics**Satine Lens**

Test # ITL86798
Catalog # EX4-A-N-840-4
Lumens 1575 Lm
Watts 18.4 W
Efficacy 86 LPW

**Candela Distribution**

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	584	584	584	584	584
5	580	581	581	580	580
10	572	570	571	570	570
15	557	553	554	553	551
20	537	530	532	529	526
25	511	502	503	500	497
30	480	472	472	470	466
35	443	437	436	432	429
40	405	399	398	393	391
45	363	360	357	354	352
50	321	319	317	312	311
55	278	275	274	272	270
60	236	233	232	230	228
65	193	191	191	189	189
70	151	149	149	148	147
75	109	109	109	108	108
80	70	70	70	69	70
85	35	34	33	32	32
90	0	0	0	0	0

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3864	3798	3744
55	3653	3599	3546
65	3432	3396	3359
75	3173	3173	3143
85	2994	2818	2730

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EX4_LED_SPEC_AUGUST2017

pg. 5

**Job Name:**Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**EX4-A-N-835-8-AC48JB-U-OL1-1-0-
W
Notes:**Type:**

L2

ALAND18-1958

PINNACLE
ARCHITECTURAL LIGHTING®

EDGE EX4 Suspended Linear



Applications & Certificates

Construction: 6063-T5 Extruded aluminum housing. Highly reflective die-formed white painted reflector.

Shielding: Diffuse snap-in acrylic lens, removable for maintenance.

Mounting: Aircraft cable and wall mount available. The aircraft cable mounts on 4'-0" (1219.2mm) and 8'-0" (2438.4mm) centers. Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies. Refer to installation instructions for appropriate ceiling detail. Canopies are painted white unless otherwise specified. Maximum fixture weight is 15 lbs. per standard 4' fixture.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%. All luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Minimum lifetime greater than 60,000 hours. L70 = 136,200 hours and L90 = 41,100 hours. MacAdam 3-Step Ellipses. Not all products are Lighting Facts listed. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Output: Two lumen packages available. Standard and High (HO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K, and 4000K. 80 CRI = R9≥19 and 90 CRI = R9≥61.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify OL3 in Driver section when 347 volt (3) is selected. Some EX configurations will not accommodate all voltage options; consult with factory.

Driver: Standard Driver Option is Osram 0-10V, 10% = OL1. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 110°F/43°C. For more driver options, see Pinnacle Resource Guide. Some EX configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), Multi circuit - For multiple circuiting and zone control, requires factory shop drawing (M), Emergency circuit (E), Life Safety (L) or Night Light circuit (N). For emergency circuiting situations that require no through wire or

circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some EX configurations will not accommodate all circuiting options; consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is remote to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes. Canopies painted white unless specified differently in the options section of the part number. Contact factory for additional custom color and finish options.

MR16: Ideal for conference rooms, corridors, wall washing, retail spaces and training facilities where accent lighting is required. Fully enclosed compartment eliminates light from entering into our fixture areas. For LED and Halogen lamps (lamps are not included). Consult factory for other lamp types. Standard 60 watt max LED electronic transformer (120v or 277v), 50 watt max halogen lamp electronic transformer (120v or 277v), MR16 installed as an independent circuit. MR16 to match fixture voltage. 277v dimmer must be sourced. Consult factory for available Xicato units. Must specify Xicato series, output, color temperature and beam angle.

Controls: Consult factory.

Labels: UL and cUL Listed. Standard and HO lumen packages are approved for dry/damp location unless otherwise noted.

Fixture Weight: 15 lbs. maximum per standard 4' fixture.

Buy American Act compliant

Warranty: EX LED offered with a 5-year limited warranty. Covers LED, driver and fixture.

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EX4_LED_SPEC_AUGUST2017

pg. 6



Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
EV3D-A-835VHO-4-FL-U-OL1-1-0-W

Type:
L3

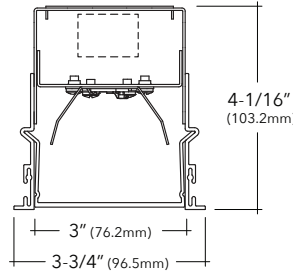
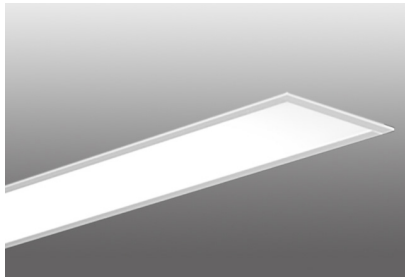
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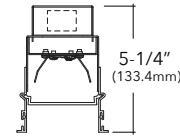
PINNACLE
ARCHITECTURAL LIGHTING®

Project Name _____

Date _____ Type _____



EDGE EV3D
3" Recessed Linear



Key Features

- Extruded aluminum trim with formed cold rolled 18 gauge steel back box housing
- Highly reflective white painted steel reflector
- 5-year limited warranty covers LED, driver and fixture
- UL and cUL listed, IC rated
- Approved for dry/damp location unless otherwise noted
- Maximum fixture weight is 15lbs per 4ft fixture
- Room-Side Maintenance for LED system
- Buy American Act compliant



Example Part #: EV3D-HE-830HO-26'-G1-U-OL1-1-0-W

EV3D - SHIELDING - CRI, CCT & OUTPUT - LENGTH OR PATTERN - MOUNTING - VOLTAGE - DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH - FIXTURE OPTIONS - CONTROLS

SHIELDING	CRI, CCT & OUTPUT ^{QS,1}	LENGTH OR PATTERN ²	MOUNTING ³
A - Satine Lens ^{QS} HE - High Efficiency Lens ^{QS} BW - Batwing ^{QS} WHE - Asymmetric ^{QS} AL - Drop Lens H - Arched Regress Lens R - Regress Lens <i>Shielding pg. 2</i>	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K CL - Custom Lumens CW - Custom Watts <i>Lumen Output pg. 2</i> <i>Example: 830HO is 8 = 80 CRI; 30 = 3000K; HO = High Output; Blank = Standard Output</i>	- Individual Fixture ^{QS} - Continuous Row ^{QS} L_x - L Shape ^{QS} R_x - Rectangle ^{QS} S - Square ^{QS} U_x - U Shape ^{QS} T_x - T Shape X_x_x - X Shape WC_x - Wall to Ceiling ^{QS} M - Mod Layout <i>Length and Pattern pg. 2-3</i>	G1(G) - 1" (15/16") T Bar ^{QS} G9(G) - 9/16" T Bar ^{QS} GB(G) - 9/16" Bevel T Bar ^{QS} GS(G) - Screw Slot T Bar ^{QS} FL(F) - 1/2" Flange ^{QS} NF(N) - Non Flange ^{QS} SF(S) - Spackle Flange <i>Mounting pg. 3</i>

VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY ⁴
U - Universal ^{QS} <i>(120 thru 277V)</i> 1 - 120V ^{QS} 2 - 277V ^{QS} 3 - 347V <i>Voltage pg. 4</i>	OL1 - Osram (10% 0-10v standard) ^{QS} OL2 - Osram (1%, 0-10v) OL3 - Osram 347v (10%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) EE3 - eldoLED ECOdrive (1%, DALI) PL2 - Philips Xitanium (1%, 0-10v) PS1 - Philips Xitanium (50%/100%) ^{QS} LH1 - Lutron Hi-lume (1%, EcoSystem) ^{QS} LH3 - Lutron Hi-lume (1%, 3-wire) L51 - Lutron 5-Series (5%, EcoSystem) ND - Non-Dimming ^{QS} <i>Driver pg. 4</i>	1 - Single Circuit ^{QS} M - Multi Circuit E - Emergency ^{QS} <i>(entire fixture)</i> N - Night Light ^{QS} <i>(entire fixture)</i> <i>Circuiting pg. 4</i>	0 - None ^{QS} P - Philips Bodine 10W I - Iota 10W ^{QS} IC - Iota 10W (CEC Listed) E - Emergency Circuit Section N - Night Light Circuit Section L - Life Safety Circuit Section G - Philips Bodine GTD <i>Battery and Emergency pg. 4</i>

FINISH	FIXTURE OPTIONS ⁵	CONTROLS ⁶
W - White ^{QS} S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 5</i>	QS - Quick Ship ^{QS} CP - Chicago Plenum ^{QS} LMRA - Adjustable MR16 (LED) XLED - Fixed Xicato LED PM - Perimeter Mount RC - Rotating Crossbar GLR - Internal Fast Blow Fuse ^{QS} <i>Fixture Options pg. 5</i>	ED1 - Enlighted Sensor w/Bluetooth ED2 - Enlighted Sensor WO1 - WattStopper Occupancy Sensor WL1 - WattStopperDLM (single RJ45) PE1 - Philips EasySense Basic PE2 - Philips EasySense Advanced PE3 - Philips EasySense Networked <i>Controls pg. 5</i>

¹For Quickship CRI, CCT & Output see chart on page 5 ²Individual fixtures come in 2', 3', 4', 5', 6', 7' & 8' lengths. Continuous row come in 1/8" increments. For Patterns specify pattern shape and overall dimensions. Example: L6x4: L pattern that is 6'x4'. ³Specify mounting for individual or continuous length: G1, G9, GS, FL, NF & SF for continuous rows, G1G, G9G, GSG, FLF, NFN & SFS for individual lengths. ⁴Enter quantity for Battery and Emergency, Example 2P. ⁵QS must be used in fixture options section of part number to qualify. ⁶Pinnacle Lighting can integrate a variety of manufacturer solutions in to our fixtures. If your project has specific control requirements that are not listed below, please contact the factory as we are always willing to look into more options.

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.



Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
EV3D-A-835VHO-4-FL-U-OL1-1-0-W

Notes:

Type:

L3

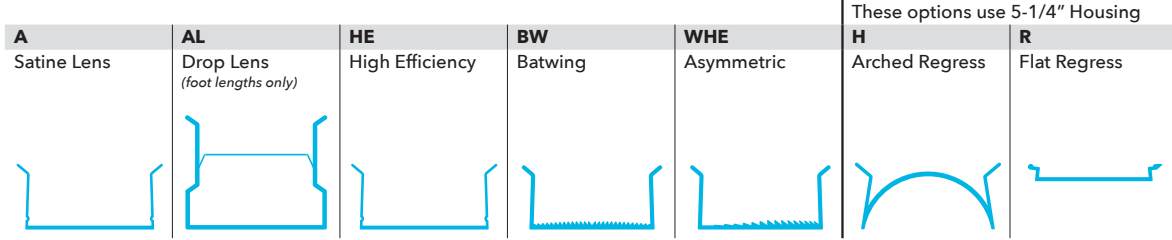
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EDGE EV3D Recessed Linear



Shielding



These options use 5-1/4" Housing

CRI, CCT & Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 80 CRI = R9≥19 and 90 CRI = R9≥61
- QuickShip available for: "A" lens, 80 CRI, all color temperature, and all lumen packages

Custom Output - Lumens OR Wattage

CL _____	Specify CRI, CCT and desired lumens (i.e. CL835500)	Specify lumens between standard offering listed below. Lumens are specified per color temp
CW _____	Specify CRI, CCT and desired wattage (i.e. CW9407)	Specify watts between standard offering listed below

80 CRI

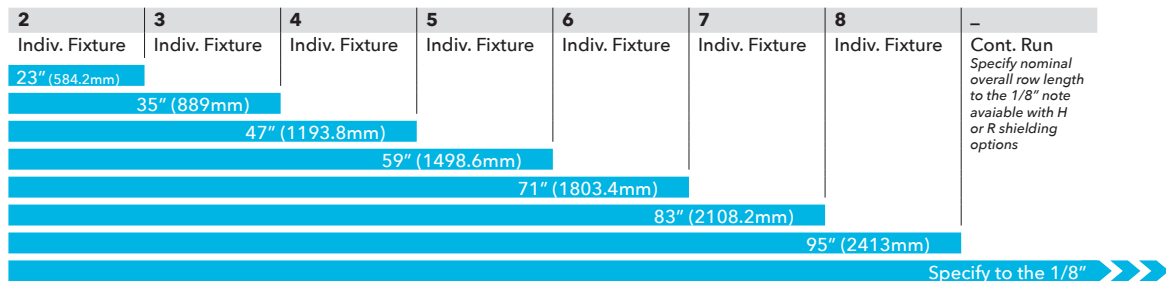
	Color	Lumens per foot	Shielding ¹													
			A		AL		HE		BW		WHE		H		R	
			Satine LPW	Watts/ft	Drop LPW	Watts/ft	High Efficiency LPW	Watts/ft	Batwing LPW	Watts/ft	Asymmetric LPW	Watts/ft	Arched Regress LPW	Watts/ft	Regress LPW	Watts/ft
830	3000K	500	88.4	5.7	105	4.8	103	4.9	102	4.9	97	5.2	75	6.7	66	7.6
830HO	3000K	750	86.2	8.7	103	7.3	101	7.4	99	7.6	94	8.0	73	10.2	N/A	N/A
830VHO	3000K	1000	N/A	N/A	102	9.8	100	10.0	98	10	93	10.7	N/A	N/A	N/A	N/A
835	3500K	500	92.1	5.4	107	4.7	106	4.7	104	4.8	99	5.0	76	6.6	67	7.5
835HO	3500K	750	88.3	8.5	106	7.1	104	7.2	102	7.4	97	7.7	75	10.0	N/A	N/A
835VHO	3500K	1000	N/A	N/A	105	9.5	103	9.7	101	10	96	10.4	N/A	N/A	N/A	N/A
840	4000K	500	93.2	5.4	108	4.6	107	4.7	105	4.7	101	5.0	77	6.5	68	7.4
840HO	4000K	750	89.4	8.4	106	7.1	105	7.1	103	7.3	98	7.6	76	9.8	N/A	N/A
840VHO	4000K	1000	N/A	N/A	106	9.4	104	9.6	102	10	96	10.4	N/A	N/A	N/A	N/A

90 CRI

927	2700K	500	74.6	6.7	87	5.8	85	5.9	84	6.0	81	6.2	63	8.0	54	9.2
927HO	2700K	750	73.6	10.2	85	8.8	84	8.9	82	9.1	78	9.6	N/A	N/A	N/A	N/A
930	3000K	500	76.5	6.5	91	5.5	90	5.6	87	5.8	82	6.1	65	7.7	56	8.9
930HO	3000K	750	76.4	9.8	88	8.5	87	8.6	85	8.8	81	9.3	N/A	N/A	N/A	N/A
935	3500K	500	78.3	6.4	93	5.4	92	5.5	90	5.6	84	5.9	66	7.6	57	8.7
935HO	3500K	750	78.1	9.6	90	8.3	88	8.5	87	8.7	82	9.1	N/A	N/A	N/A	N/A
940	4000K	500	77.7	6.4	92	5.4	91	5.5	88	5.7	84	6.0	66	7.6	57	8.8
940HO	4000K	750	77.5	9.7	89	8.4	88	8.5	86	8.7	82	9.1	N/A	N/A	N/A	N/A

Length

- All individual units cannot be joined, end trims are factory installed and cannot be removed
- Refer to Pattern section for specification and ordering options
- Continuous Rows are made up of even and odd length fixtures; designed to fall on-grid



¹LPW and watts/ft based off 47" fixture size.

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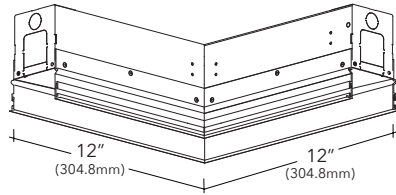
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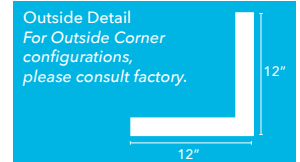
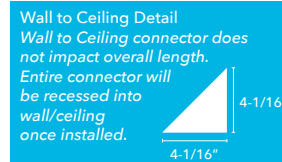
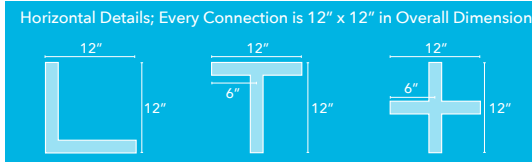
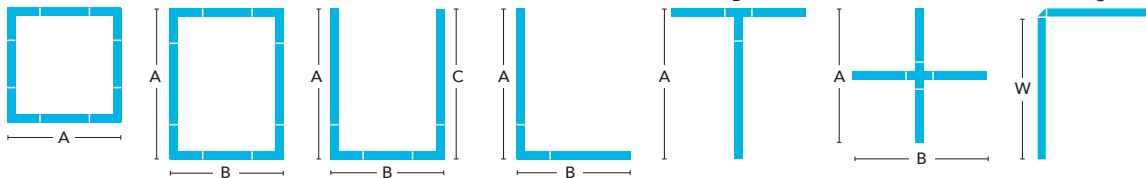


Pattern



- Specify pattern shape and overall dimensions (includes corner dimensions)
- 90 degree horizontal corners are 12"x12" (overall, outside dimension)
- Angles and shapes not shown require Mod Pattern; consult factory
- Only available with A or HE Lenses
- Not all drivers available with all patterns; consult factory

S_	R_x_	U_x_x_	L_x_	T_x_	X_x_	WC_x_	M
Square Provide A dimension Example: S4' Nominal Length-4'x4' Minimum Length-3'11"x3'11"	Rectangle Provide Ax B dimensions Example: R4'x4' Nominal Length-4'x4' Minimum Length-3'11"x3'11"	U-Shape Provide Ax BxC dimensions Example: U3'x4'x3' Nominal Length-3'x4'x3' Minimum Length-2'11"x3'11"x2'11"	L-Shape Provide Ax B dimensions Example: L3'x3' Nominal Length-3'x3' Minimum Length-2'11"x2'11"	T-Shape Provide Ax B dimensions Example: T3'x5' Nominal Length-3'x5' Minimum Length-2'11"x4'10"	X-Shape Provide Ax B dimensions Example: X5'x5' Nominal Length-5'x5' Minimum Length-4'10"x4'10"	Wall to Ceiling Provide WxC dimensions Example: WC2'x2' Nominal Length-2'x2' Minimum Length-1'11"x1'11"	ModLayout For patterns or lengths not shown or standard



Mounting

- Individual Units, specify G_G, FLF, SFS, NFN
- Continuous Units, specify G_FL, SF, NF
- Individual units cannot be joined, end trims are factory installed and cannot be removed
- Designed to install into acoustical grid and inaccessible ceilings
- Grid retention brackets integral to housing and require mechanical attachment
- Each housing contains 4 grid retention brackets
- Tie off fixture to structure with retention wires
- Approved for dry/damp location unless otherwise noted

G1G Individual Unit	G9G	GBG	GSG	FLF	NFN	SFS
G1 Continuous Run or Pattern 1" (15/16") T-Bar Flange to Flange: 3-13/16" (96.8mm)	G9 9/16" T-Bar For regular tile installations, fixture position will not be flush to the bottom of the tile Flange to Flange: 3-13/16" (96.8mm)	GB 9/16" T-Bar Rail has bevel edge details. For regular tile installations, fixture position will be flush to the bottom of the tile Flange to Flange: 3-13/16" (96.8mm)	GS Screw Slot & 9/16" T-Bar For 9/16" installations with regular tile, fixture position will be flush to the bottom of the tile Flange to Flange: 3-13/16" (96.8mm)	FL Exposed Standard 1/2" Flange Detail Flange to Flange: 4-1/8" (104.7mm)	NF Metal Pan or Millwork Flange to Flange: 3-7/16" (87.3mm)	SF Drywall, Flangeless Detail Flange to Flange: 5" (127mm)
					PM Optional Perimeter Mounting Includes bracket and wall rail	

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**Job Name:**Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**

EV3D-A-835VHO-4-FL-U-OL1-1-0-W

Type:**L3**

Notes:

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EDGE EV3D Recessed Linear

**Voltage**

- Some EV3D configurations will not accommodate all voltage options; consult with factory

U	Universal
1	120 volt
2	277 volt
3	347 volt

Driver

- Standard Driver Option = OL1
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options see Pinnacle Resource Guide
- Some EV3D configurations will not accommodate all driver options; consult with factory

OL1	Osram Optotronic 10%, 0-10v
OL2	Osram Optotronic 1%, 0-10v, nominal 1% dimming range
OL3	Osram Optotronic 347v 10%, 0-10v, requires 347v option
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic
EE3	eldoLED ECOdrive 1%, DALI Logarithmic
PL2	Philips Advance Xitanium 1%, 0-10v
PS1	Philips Advance Xitanium Step Dimming 50%/100%
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
LH3	Lutron Hi-lume 1%, 3-wire, Lutron-L3DA3W
L51	Lutron 5-Series 5%, EcoSystem, LDE5
ND	Non-Dimming

How to specify Circuiting, Battery and Emergency**1**

- Select fixture circuiting from options below
- Some EV3D configurations will not accommodate all circuiting options, consult with factory

Circuiting

1	Single Circuit
M	Multi Circuit
E	Emergency Circuit only
N	Night Light Circuit only

2

+

3

- Battery and emergency section options are available in addition to fixture circuit
- Select battery and emergency section options below; factory shop drawing required
- Some EV3D configurations will not accommodate all circuiting options, consult with factory

Battery and/or Emergency *If Required*

0	No battery or specific emergency section required
----------	---

Battery

- Select battery section type if required, indicate total QTY. *Example 2P*
- 90 minute battery runtime; test button is remote
- No battery option available for 2' & 3' lengths
- Entire fixture is on battery for lengths up to 5'
- Half of fixture is on battery for 6' or 8' housing lengths
- For more battery options available, see Pinnacle Resource Guide

0	No battery
_P	Philips Bodine 10w Integral
_I	Iota 10w Integral
_IC	Iota 10w Integral <i>CEC Listed</i>

Emergency

- Select emergency section type if required, indicate total QTY. *Example 1E*
- Combine battery and emergency section ordering codes if both options are selected

_E	Emergency circuit section
_N	Night Light circuit section
_L	Life Safety circuit section NO THROUGH WIRE
_G	Philips Bodine GTD, Generator Transfer Device section

Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery Ordering Code: 1-1P
- Emergency only, 10w Integral Battery Ordering Code: E-1P
- Single circuit, GTD required Ordering Code: 1-1G

Combination Section Ordering Examples

- Single circuit, (1) 10w battery, (1) emergency section Ordering Code: 1-1P1E
- Multi circuit, (2) 10w battery, (2) emergency sections Ordering Code: M-2P2E
- Single circuit, (1) night light section Ordering Code: 1-1N

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 92.3 (LPW) x 10 (watts) = 923 battery lumen output

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pg. 4



Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
EV3D-A-835VHO-4-FL-U-OL1-1-0-W
Notes:

Type:
L3
ALAND18-1958

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EDGE EV3D Recessed Linear



Finish

- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

W	White
S	Metallic Silver
BL	Textured Black
GR	Graphite
BR	Bronze
CC	Custom Color

Fixture Options

- Additional options to enhance the fixture and finish of the product
- Consult factory for MR16 configurations

CP	Chicago Plenum
LMRA	Adjustable MR16 LED <i>(not available with U voltage)</i>
XLED	Fixed Xicato LED
PM	Perimeter Mount <i>(not available in 2' or 3')</i>
RC	Rotating Crossbar
GLR	Internal Fast Blow Fuse

Quick Ship

Shielding | CRI, CCT & Output | Mounting | Voltage | Driver | Circuiting | Battery | Finish | Options

10-Day															
A	80 CRI, all color temperatures, all lumen packages See pg 2	G1(G)	1" T-Bar	U	Universal (120-277)	OL1	Osram 0-10v, 10% Lutron LDE1 Non-dimming	1	Single Circuit Emergency Night Light	0	None Iota 10w Integral	W	White	CP	Chicago Plenum
HE		G9(G)	9/16" T-Bar	1	120V	LH1		E						GLR	Internal Fast Blow Fuse
BW		GS(G)	Screw Slot	2	277V	ND		N							
WHE		FL(F)	1/2" Flange												
		NF(N)	Flangeless												

All lengths and continuous rows up to 1,000 ft OR 150 individual fixtures. Consult factory for larger projects.

Controls

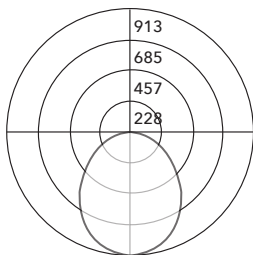
- Some EV3D configurations will not accommodate all control options; consult with factory

ED1	Enlighted Sensor w/bluetooth <i>(requires 0-10v or Osram aux driver)</i>
ED2	Enlighted Sensor <i>(requires Philips Xitanium SR driver)</i>
WO1	WattStopper FS205 Occupancy Sensor
WL1	WattStopper DLM fixture controller and connection <i>(single RJ45)</i>
PE1	Philips EasySense Sensor, Basic Grouping <i>(requires Philips Xitanium SR driver)</i>
PE2	Philips EasySense Sensor, Advanced Grouping <i>(requires Philips Xitanium SR driver)</i>
PE3	Philips EasySense Sensor, Network <i>(requires Philips Xitanium SR driver)</i>

Photometrics

Satine Lens

Test # ITL89785
Catalog # EV3D-HE-840-4
Lumens 2074 lm
Watts 19.4 w
Efficacy 106.9 LPW



Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	913	913	913	913	913
5	905	907	906	906	906
15	862	857	853	842	837
25	777	762	747	726	714
35	657	638	612	581	567
45	520	501	470	439	428
55	378	363	335	309	300
65	244	234	213	196	191
75	122	118	107	99	97
85	29	28	26	24	24
90	0	0	0	0	0

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8077	7300	6648
55	7238	6414	5744
65	6341	5535	4964
75	5177	4540	4116
85	3654	3276	3024

For all available IES files, please visit our website at pinnacle-ltg.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP accredited testing laboratory. Testing conducted at 25°C ambient conditions

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**Job Name:**Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**

EV3D-A-835VHO-4-FL-U-OL1-1-0-W

Type:**L3**

Notes:

ALAND18-1958

P I N N A C L E
ARCHITECTURAL LIGHTING®

EDGE EV3D Recessed Linear



Applications & Certificates

Construction: Formed cold-rolled 18 gauge steel housing. Highly reflective die-formed white painted steel reflector.

Shielding: Diffuse snap-in acrylic lens, removable for maintenance.

Mounting: EDGE is designed to install into acoustical grid and inaccessible ceilings. Specify GXG, FLF, SFS, NFN for individual, unjoinable units (individual units will fall on-grid). Specify GX, FL, SF, NF for continuous runs (runs designed to fall on-grid). Consult factory for detailed installation instructions. Maximum fixture weight is 15lbs per 4' fixture.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%. All luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Minimum lifetime greater than 60,000 hours. Lifetime Projection L70 = 125,600 hours and L90 = 37,400 hours. MacAdam 3-Step Ellipses. Not all products are Lighting Facts listed. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Lumen Output: Three lumen packages available. Standard, High (HO) and Very High (VHO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K, and 4000K. 80 CRI = R9≥19 and 90 CRI = R9≥61.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify OL3 in Driver section when 347 volt (3) is selected. Some EDGE configurations will not accommodate all voltage options; consult with factory.

Driver: Standard Driver Option is Osram 0-10V, 10% = OL1. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 83°F/28°C. For more driver options, see Pinnacle Resource Guide. Some EDGE configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), Multi circuit - For multiple circuiting and zone control, requires factory shop drawing (M), Emergency circuit (E), Life Safety (L) or Night Light circuit (N). For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some EDGE configurations will not accommodate all circuiting options; consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is remote to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes or for additional custom color and finish options.

MR16: Ideal for conference rooms, corridors, wall washing, retail spaces and training facilities where accent lighting is required. Fully enclosed compartment eliminates light from entering into our fixture areas. LED lamps are not included. Consult factory for other lamp types. Standard 60 watt max LED electronic transformer (120v or 277v), MR16 installed as an independent circuit. MR16 to match fixture voltage. 277v dimmer must be sourced. Consult factory for MR16 configurations.

Labels: UL and cUL Listed. Standard, HO and VHO lumen packages are IC Rated, approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is 15lbs per 4' fixture.

Buy American Act Compliant

Warranty: EDGE LED offered with a 5-year limited warranty. Covers LED, driver and fixture.

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pg. 6

Job Name:Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**

FSS440L835-UNV-DIM FSSWG4

Type:**L4**

Notes:

ALAND18-1958

PHILIPS
Day-Brite
CFI

Linear

FluxStream strip

2', 3', 4' and 8'

Available in EZ



Philips Day-Brite / CFI FluxStream LED Strip is a high performing luminaire delivering smooth diffuse light ideal for light industrial, commercial and residential applications with the unparalleled energy efficiency of Philips LED lighting.

Ordering guide**Example: FSS440L840-UNV-DIM**

Series	Length (nominal)	Lumens ² (nominal)	Color temp. (K)	Voltage	Driver	Options
FSS	4	40L	835 ¹ -	347 ² -	DIM ³ -	
FSS FluxStream Strip	2 2' length	20L 2000 lumens 30L 3000 lumens	830 80 CRI, 3000K 835 80 CRI, 3500K	UNV Universal voltage 120-277V 120 ⁴ 120V 277 ⁴ 277V 347 347V	DIM 0-10V 1% dimming SDIM ^{5,6} Step dimming to 40% input power XDIM ^{4,5,6} MarkX phase dimming DALI ⁷ DALI	EMLED ^{5,8} Factory wired Philips Bodine BSL310LP integral emergency pack. Nominal 1100lm LSXR10 120-347V motion sensor, factory installed on end cap LSXR10ADC 120-347V motion sensor with photocell and hi/lo trim dimming, factory installed on end cap DAYOCC ^{9,10} Integral sensor, daylighting and occupancy. Philips EasySense SNS102 PAF Paint after fabrication (white) BK Matte black paint color ST Satin aluminum paint color
	3 3' length	30L 3000 lumens	830 80 CRI, 3000K 835 80 CRI, 3500K	120 ⁴ 120V 277 ⁴ 277V 347 347V		
	4 4' length	40L 4000 lumens 55L 5500 lumens 70L 7000 lumens	840 80 CRI, 4000K 850 ³ 80 CRI, 5000K			
	8 8' length ¹	80L 8000 lumens 110L 11000 lumens 140L 14000 lumens				

- 8' is tandem (2) 4' lenses with single piece 8' body.
- Nominal delivered lumens at 25C ambient.
- Not available in 3' model.
- XDIM option must be specified with 120V or 277V option only.
- Not available in 2' or 3' model.
- Not available in 4' 70L model or 8' 140L model.
- DALI available up to 80L models only, consult factory for other options.
- EMLED on 8' models illuminates 4' section in emergency mode.
- Specify DIM driver with DAYOCC option.
- Not available in 8' 110L or 140L models.

Accessories (order separately)

- FSSD2L - 2' Diffuse replacement lens
- FSSD3L - 3' Diffuse replacement lens
- FSSD4L - 4' Diffuse replacement lens (order two for 8' models)
- FSSWG4 - 4' wire guard (order two for 8' models)
- FSTH - Sliding hanger bracket (set of two)
- LSXR10 - Low bay PIR motion sensor, 120-277V
- LSXR10ADC - Low bay PIR motion sensor with photocell and hi/lo trim dimming, 120-277V

General notes

Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

**Job Name:**

Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:

FSS440L835-UNV-DIM FSSWG4

Notes:

Type:**L4**

ALAND18-1958

FSS FluxStream strip LED

2', 3', 4' and 8'

Features

- Compact design for installation in tight spaces
- Frosted acrylic diffuser provides wide light distribution and superior glare control
- Diffuser and LED plate snap into place allowing tool-free access to LED boards and driver
- 2', 3', 4' and 8' tandem lengths available to accommodate many field applications
- Up to 100,000 hour predicted L70 LED lumen maintenance provides long service life to reduce maintenance costs
- Can be surface mounted on ceilings or walls, or suspended via chain, pendants or cables
- Wall mountable - ADA compliant
- Ideal for cold applications (-20°C)
- Continuous row mounting using standard end caps. No extra parts needed
- 7/8" knock out provided at each end and on base of luminaire
- Multiple driver options available with 0-10v as standard
- Enclosed lens minimizes penetration of dust, insects, and other debris into the LED compartment.
- 8' tandem unit is two 4' optical assemblies with a center mullion on a single full length chassis.
- Integral controls options include sensor mounted in control module extension mounted on fixture end (see dimension drawing). Controls are commissioned via intuitive Philips app on a Droid smartphone either through NFC or an IR blaster.
- Fluxstream luminaires are Designlights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers (<http://www.designlights.org/QPL>).
- 5 year manufacturer's limited warranty Visit www.philips.com/warranties for complete warranty information.

Finish

- Baked white acrylic matte high reflectance paint finish

Shielding

- Contoured frosted acrylic lens

Electrical

- LED boards and drivers are RoHS (Restriction of Hazardous Substances) compliant. Total system life rated at 50,000 hours. Predicted L70 lifetime based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.

Materials

- Heavy gauge cold rolled steel housing, LED plate, and end caps

DAYOCC

- Integrated fixture mount Philips EasySense sensor featuring daylight and PIR occupancy sensing
- Compatibility with Philips Advance Xitanium SR Sensor Ready LED drivers
- Features automatic or manual on/off scenarios for code compliance and to realize full energy savings potential
- Basic grouping to a wireless switch via an IR interface with the Philips Field App
- Self-powered single rocker switch Illumra #ZBT-SIAWH (sourced by others), up to 40 luminaires may be grouped to a single switch
- Recommended maximum spacing of 25ft between luminaires, and closest luminaire to wall switch

Labels

- cETLus listed
- Suitable for damp locations

FSS FluxStream strip LED

2', 3', 4' and 8'

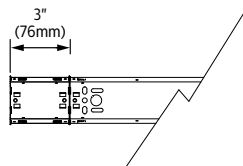
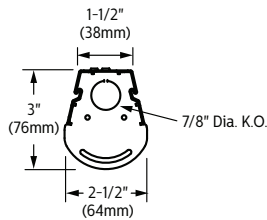
Performance data

Fixture	Lumens	Wattage	Efficacy
FSS220L	2000lm	17W	123lm/w
FSS330L	3000lm	26W	119lm/w
FSS440L	4000lm	31W	133lm/w
FSS455L	5500lm	45W	129lm/w
FSS470L	7000lm	58W	126lm/w

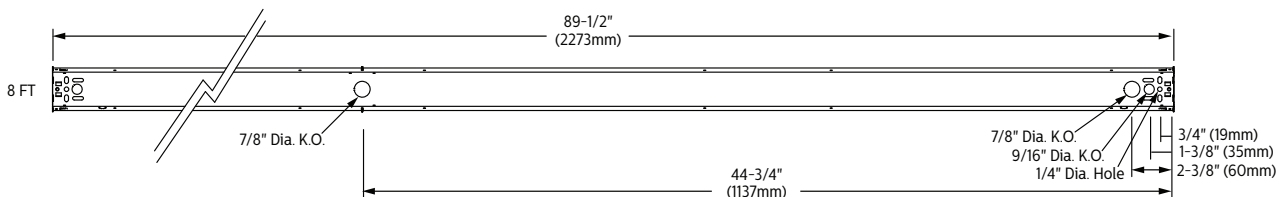
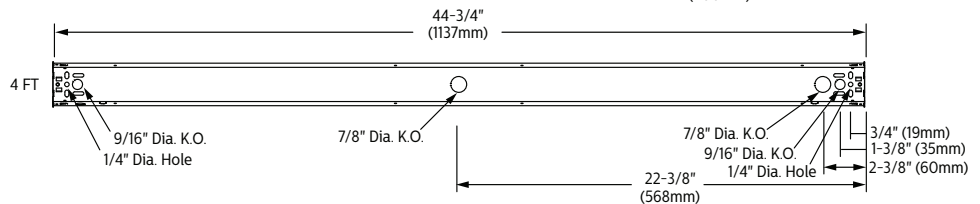
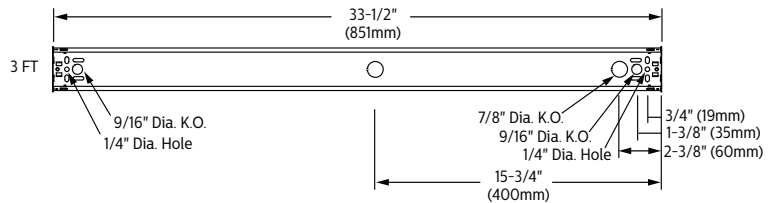
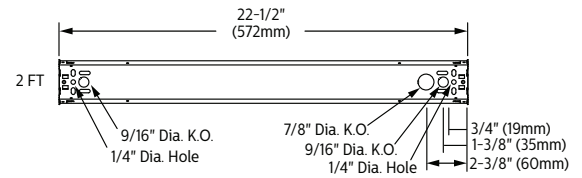
Ambient temperature data

Configuration	Ambient
FSS470L	-20°C to 30°C
FSS8110L	-20°C to 35°C
FSS8140L	-20°C to 25°C
EMLED option	Minimum 0°C
All others	-20°C to 40°C

Dimensions



-DAYOCC control module extension





Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
FSS440L835-UNV-DIM FSSWG4

Notes:

Type:

L4

ALAND18-1958

FSS FluxStream strip LED

2', 3', 4' and 8'

Photometry

2' FluxStream strip LED, 2000 nominal delivered lumens

LER - 123

Catalog No.	FSS220L840-UNV-DIM
Test No.	37164
S/MH	1.2
Lamp Type	LED
Lumens	2034
Input Watts	17

Comparative yearly lighting energy cost per 1000 lumens – **\$1.95** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	644	644	644	644
5	635	641	646	641
15	610	618	626	618
25	520	567	585	567
35	451	474	495	474
45	371	403	432	403
55	284	324	362	324
65	191	243	288	243
75	96	167	218	167
85	18	105	155	105

Light Distribution

Degrees	Lumens	% Luminaire
0-30	493	24.2
0-40	790	38.9
0-60	1391	68.4
0-90	1910	93.9
90-180	124	6.1
0-180	2034	100

Average Luminance

Zone	End	45'	Cross
45	15155	12916	12955
55	14048	11583	11859
65	12449	10173	10781
75	9646	8758	9839
85	4206	7611	9181

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20			70			50		
Ceiling	70	50	30	70	50	30	50	30	
Wall	RCR								
0	118	118	118	114	114	114	108	108	
1	106	100	94	102	96	93	92	88	
2	95	86	79	92	83	77	80	73	
3	86	76	67	83	73	66	69	63	
4	79	67	57	77	65	56	61	55	
5	72	59	50	69	57	50	55	47	
6	67	54	45	65	52	44	50	41	
7	61	48	40	59	47	39	45	38	
8	57	44	35	56	42	34	41	34	
9	54	40	32	53	40	32	38	30	
10	51	38	30	49	37	29	35	29	

3' FluxStream strip LED, 3000 nominal delivered lumens

LER - 119

Catalog No.	FSS330L840-UNV-DIM
Test No.	37132
S/MH	1.3
Lamp Type	LED
Lumens	3045
Input Watts	26

Comparative yearly lighting energy cost per 1000 lumens – **\$2.02** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	982	982	982	982
5	966	978	980	978
15	927	943	948	943
25	849	869	884	869
35	738	772	795	772
45	609	655	690	655
55	435	505	554	505
65	293	356	414	356
75	148	232	301	232
85	28	129	201	129

Light Distribution

Degrees	Lumens	% Luminaire
0-30	759	24.9
0-40	1241	40.8
0-60	2187	71.8
0-90	2918	95.8
90-180	127	4.2
0-180	3045	100

Average Luminance

Zone	End	45'	Cross
45	16859	14162	13823
55	14686	12197	12138
65	13174	10098	10376
75	10412	8269	9110
85	4882	6455	7980

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20			70			50		
Ceiling	70	50	30	70	50	30	50	30	
Wall	RCR								
0	118	118	118	115	115	115	109	109	
1	107	101	96	103	98	93	93	90	
2	96	88	81	93	85	79	81	76	
3	88	77	68	84	75	67	70	65	
4	80	68	58	78	66	57	63	56	
5	73	60	51	70	58	51	56	48	
6	68	55	45	66	53	45	51	44	
7	63	48	40	60	47	40	46	39	
8	58	45	36	56	44	35	42	34	
9	55	40	33	53	40	33	39	32	
10	51	38	30	50	38	30	36	29	



Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
FSS440L835-UNV-DIM FSSWG4

Notes:

Type:

L4

ALAND18-1958

FSS FluxStream strip LED

2', 3', 4' and 8'

Photometry

4' FluxStream strip LED, 4000 nominal delivered lumens

LER - 133

Catalog No. FSS440L840-UNV-DIM
Test No. 37259
S/MH 1.3
Lamp Type LED
Lumens 4130
Input Watts 31

Comparative yearly lighting energy cost per 1000 lumens – **\$1.80** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	1272	1272	1272	1272
5	1250	1265	1277	1265
15	1199	1221	1237	1221
25	1098	1130	1157	1130
35	957	1005	1044	1005
45	791	860	910	860
55	606	690	758	690
65	382	481	598	481
75	194	326	416	326
85	36	196	289	196

Light Distribution

Degrees	Lumens	% Luminaire
0-30	986	23.9
0-40	1614	39.1
0-60	2886	69.9
0-90	3905	94.6
90-180	225	5.4
0-180	4130	100

Average Luminance

Zone	End	45'	Cross
45	16754	14171	13847
55	15678	12712	12618
65	13207	10415	11375
75	10615	8873	9550
85	5052	7511	8720

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20		80		70		50		
Cell	70	50	30	70	50	30	50	30	
Wall									
RCR									
0	118	118	118	114	114	114	108	108	
1	106	101	95	103	97	93	92	89	
2	95	86	80	93	84	78	80	75	
3	86	76	67	83	73	66	69	64	
4	80	67	57	77	65	56	61	55	
5	72	59	51	70	57	50	56	47	
6	68	54	45	65	53	44	50	42	
7	63	48	40	59	47	39	46	38	
8	57	44	35	56	44	34	41	34	
9	54	40	32	53	40	32	38	30	
10	51	38	30	49	37	29	35	28	

4' FluxStream strip LED, 5500 nominal delivered lumens

LER - 129

Catalog No. FSS455L840-UNV-DIM
Test No. 37262
S/MH 1.3
Lamp Type LED
Lumens 5759
Input Watts 45

Comparative yearly lighting energy cost per 1000 lumens – **\$1.86** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	1788	1788	1788	1788
5	1757	1777	1792	1777
15	1685	1715	1736	1715
25	1544	1585	1623	1585
35	1346	1408	1462	1408
45	1113	1202	1271	1202
55	852	960	1055	960
65	575	712	828	712
75	272	443	610	443
85	50	259	389	259

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1384	24
0-40	2264	39.3
0-60	4043	70.2
0-90	5478	95.1
90-180	281	4.9
0-180	5759	100

Average Luminance

Zone	End	45'	Cross
45	23558	19796	19347
55	22047	17697	17574
65	19887	15425	15749
75	14898	12084	14023
85	7023	9926	11749

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20		80		70		50		
Cell	70	50	30	70	50	30	50	30	
Wall									
RCR									
0	118	118	118	115	115	115	108	108	
1	106	101	95	103	97	93	93	89	
2	95	86	80	93	84	78	80	75	
3	86	76	68	83	73	66	69	64	
4	80	67	57	77	66	56	61	55	
5	72	59	51	70	58	50	56	47	
6	68	54	45	65	53	44	50	42	
7	63	48	40	60	47	39	46	38	
8	57	44	35	56	44	34	41	34	
9	54	40	32	53	40	32	38	30	
10	51	38	30	49	37	29	36	29	

FSS FluxStream strip LED

2', 3', 4' and 8'

Photometry

4' FluxStream strip LED, 7000 nominal delivered lumens

LER - 126

Catalog No.	FSS470L840-UNV-DIM
Test No.	37265
S/MH	1.3
Lamp Type	LED
Lumens	7275
Input Watts	58

Comparative yearly lighting energy cost per 1000 lumens – \$1.90 based on 3000 hrs. and \$.08 pwh KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	2211	2211	2211	2211
5	2176	2199	2217	2199
15	2088	2124	2148	2124
25	1914	1966	2010	1966
35	1672	1750	1813	1750
45	1379	1502	1580	1502
55	1058	1204	1317	1204
65	714	898	1041	898
75	339	592	776	592
85	63	344	524	344

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1714	23.6
0-40	2809	38.6
0-60	5028	69.1
0-90	6879	94.6
90-180	396	5.4
0-180	7275	100

Average Luminance

Zone	End	45'	Cross
45	29203	24745	24050
55	27371	22192	21938
65	24688	19451	19793
75	18540	16135	17825
85	8824	13174	15831

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pfc =	20	80	70	50				
Ceiling	70	50	30	70	50	30	50	30
0	118	118	118	114	114	114	108	108
1	106	100	95	103	97	93	92	89
2	95	86	79	92	83	78	80	73
3	86	76	67	83	73	66	69	63
4	79	67	57	77	65	56	61	55
5	72	59	50	69	57	48	55	47
6	67	54	44	63	52	44	50	41
7	61	47	40	59	46	39	45	38
8	57	44	35	56	42	34	40	34
9	54	40	32	52	40	32	38	30
10	51	37	29	49	37	29	35	28

Accessories



Accessory Catalog Code	Description
FSTH	Sliding hanger bracket (pair)
SV5F12	12" Stem and canopy kit
SV5F18	18" Stem and canopy kit
SV5F24	24" Stem and canopy kit
SV5F36	36" Stem and canopy kit
SV5F48	48" Stem and canopy kit
FKR-126	Chain hanger set (pair)
DACHxx	Adjustable cable hanger kit (single)
DACHxx-1-SC	Adjustable cable hanger kit with white straight 18/3 cord (single)
DACHxx-1-CC	Adjustable cable hanger kit with white coiled 18/3 cord (single)
DACHxx-2-SC	Adjustable cable hanger kit with white straight 18/4 cord (single)
DACHxx-2-CC	Adjustable cable hanger kit with white coiled 18/4 cord (single)
DACHxx-ID-SC	Adjustable cable hanger kit with white straight 18/5 cord with dimming leads (single)
LSXR10	Low bay pir motion sensor (120-277v)
LSXR10ADC	Low bay pir motion sensor with photocell and hi/lo trim dimming (120-277v)
FSSWG4	4' Wire guard (order two for 8' models)
FSSD2L	2' Diffuse replacement lens
FSSD3L	3' Diffuse replacement lens
FSSD4L	4' Diffuse replacement lens (order two for 8' models)

White stem and canopy kit, 1/4" trade size (1/2" O.D.) locknuts included. Works with 9/16" k.O. on base of housing.

Includes two 5' heavy duty link chains with "V" hooks. Attaches to base of housing.

Works with 1/4" hole on base of housing or FSTH hanger bracket.

xx=cable length in inches, enter 48" to 180" lengths in 12" increments

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philips.com/luminaires

FluxStream_Strip 02/17 page 6 of 6



Philips Lighting North America Corporation
 200 Franklin Square Drive, Somerset, NJ 08873
 Tel. 855-486-2216

Philips Lighting Canada Ltd.
 281 Hillmount Rd, Markham, ON, Canada L6C 2S3
 Tel. 800-668-9008


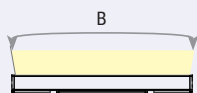
Job Name:Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**(1) CVL-1-35K-10W-120 (1) SC6 (2)
TCAP (1) 10VELVDIM
Notes:**Type:****L6**

ALAND18-1958

**COVELINE****Type:****Fixture:****Project:****Approved:**The **COVELINE** is a powerful and versatile cove luminaire with seven optical solutions.**COVELINE** is available in a 1 ft or 4 ft nominal lengths and offers 27K, 3K, 35K or 4K color temperatures. The housing is constructed of extruded aluminum with tooled end caps and is IP20 rated for interior use only. Features Plug N' Play connectors for easy installation. Flicker free dimmable to 3% full brightness with ELV trailing edge dimming.

This product has Quick Ship options available. Click to view the FC|SSL Quick Ship catalog.

SPECIFICATIONS**PHYSICAL**

beam spread (a), (axb)	 	10° 25° 40° 120° 10° x 40° 30° x 60° 67° x 140°
LEDs per foot	7 per foot	
weight	1 foot (1 lbs) / 4 foot (4 lbs)	
housing	extruded aluminum housing with tooled end caps	
lens	etched polycarbonate	
mounting	standard: surface mount bracket with (+/- 15° standard) optional: ADB2 full 180° rotation (+/- 90° from center)	
ingress protection	dry interior locations IP20 rated	
fixture connections	daisy chain with male and female, 3-PIN, plug-n-play connectors	

PERFORMANCE

color temperature	2700K	3000K	3500K	4000K
lumen output [all on]	700 Lms / ft	750 Lms / ft	875 Lms / ft	930 Lms / ft
lumen maintenance	≥ 70,000 hours / L70			
temperature	operating: -4°F to 104°F (-20°C to 40°C) start up: -4°F to 104°F (-20°C to 40°C) storage: -40°F to 176°F (-40°C to 80°C)			
color consistency	Step 3 McAdams Ellipse / CRI ≥ 87 CRI optional			
junction temperature	75°C @ T ^a 25°C			
warranty	5 year limited warranty (refer to website for details)			

ELECTRICAL

input voltage	Universal 120–277V AC
power supply	integral Class II, electronic high-power factor 94% @ 120V
interface	dimmable to 3% full brightness, (ELV) electronic low-voltage trailing edge, synchronized w/ soft shut-off
certification	ETL / cETL or CE,
standards	UL-Class I / IES LM-79 / LM-80
power consumption	1 ft @ full power (10W) 4 ft @ full power (40W)

INSTALLATION

link	http://tinyurl.com/jy9dawn
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Expanded Disclaimer: Due to continuous development and improvements, specifications are subject to change without notice. Solid State Luminaires reserves the right to change lab test details or specifications without notice. Product use certifies agreement to Solid State Luminaires terms and conditions.





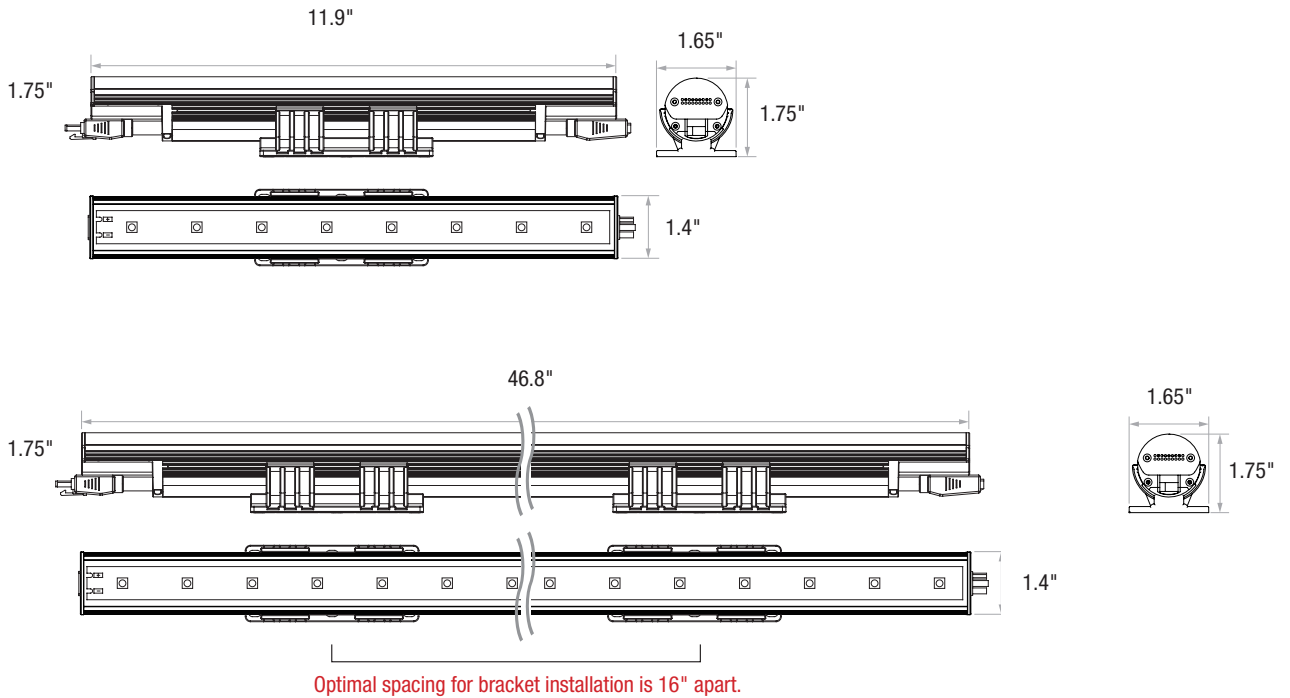
Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
(1) CVL-1-35K-10W-120 (1) SC6 (2)
TCAP (1) 10VELVDIM
Notes:

Type:
L6
ALAND18-1958

Standard Dimensions

DIMENSIONS WITH STANDARD BRACKET



TO PREVENT VOIDING THE WARRANTY, DO NOT INSTALL BRACKETS WITHIN 2" OF THE ENDS OF FIXTURE.

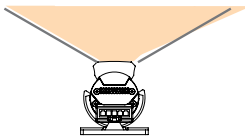


Photometry

COVELINE

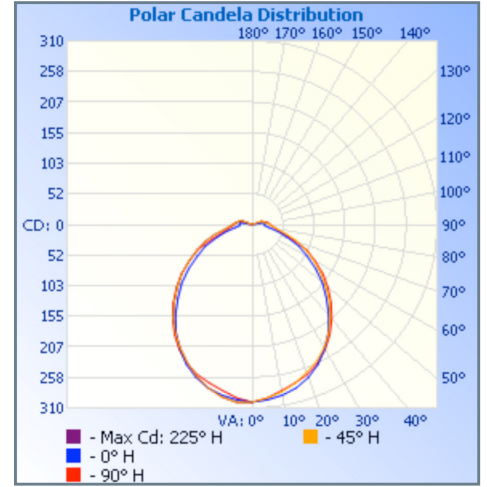


CVL 1FT 4K 120°

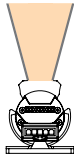


	Illuminance at a Distance	
	Center Beam fc	Beam Width
1.7ft	104 fc	4.2 ft 4.6 ft
3.3ft	27.5 fc	8.1 ft 8.9 ft
5.0ft	12.0 fc	12.3 ft 13.5 ft
6.7ft	6.68 fc	16.5 ft 18.1 ft
8.3ft	4.35 fc	20.4 ft 22.5 ft
10.0ft	3.00 fc	24.6 ft 27.1 ft

■ Vert. Spread: 101.8°
■ Horiz. Spread: 107.0°

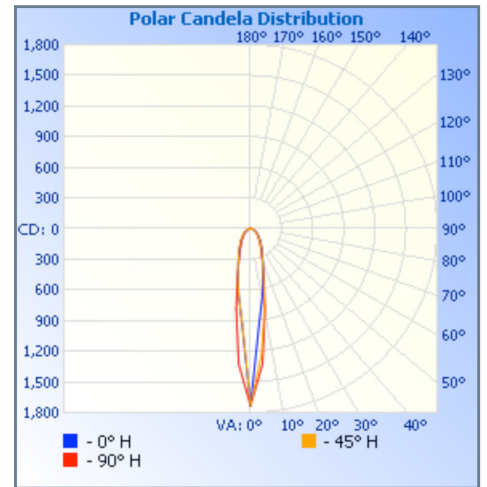


CVL 1FT 4K 25°



	Illuminance at a Distance	
	Center Beam fc	Beam Width
1.7ft	600 fc	0.4 ft 0.6 ft
3.3ft	159 fc	0.7 ft 1.1 ft
5.0ft	69.4 fc	1.1 ft 1.6 ft
6.7ft	38.6 fc	1.5 ft 2.2 ft
8.3ft	25.2 fc	1.8 ft 2.7 ft
10.0ft	17.3 fc	2.2 ft 3.3 ft

■ Vert. Spread: 12.6°
■ Horiz. Spread: 18.7°





Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
(1) CVL-1-35K-10W-120 (1) SC6 (2)
TCAP (1) 10VELVDIM
Notes:

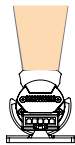
Type:
L6
ALAND18-1958

Photometry

COVELINE



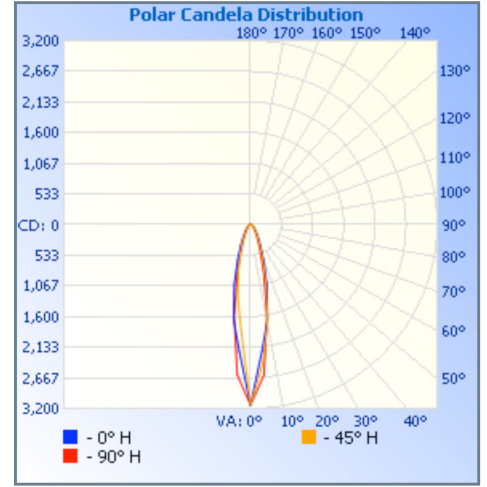
CVL 1FT 4K 10° x 40°



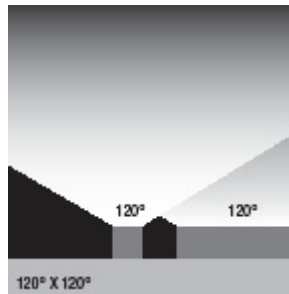
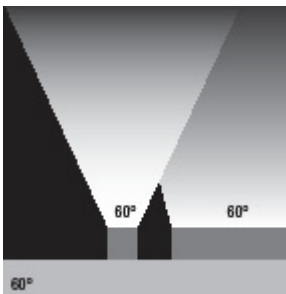
Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	1,087 fc	0.7 ft	0.6 ft
3.3ft	288 fc	1.3 ft	1.2 ft
5.0ft	126 fc	1.9 ft	1.8 ft
6.7ft	70.0 fc	2.6 ft	2.4 ft
8.3ft	45.6 fc	3.2 ft	3.0 ft
10.0ft	31.4 fc	3.8 ft	3.6 ft

■ Vert. Spread: 21.8°
■ Horiz. Spread: 20.6°



CVLX AVAILABLE OPTICS FIND IES FILES ON SOLIDSTATELUMINAIRES.COM



PERFORMANCE

Model	Connected		Delivered Lumens			
	Wattage	2700K	3000K	3500K	4000K	
CVL-1	10	700	750	875	930	
CVL-4	40	2800	3000	3500	3720	



US Commercial Lighting Manufacturer Since 1982



Specification Sheet

JS Rev. 10/10/2018

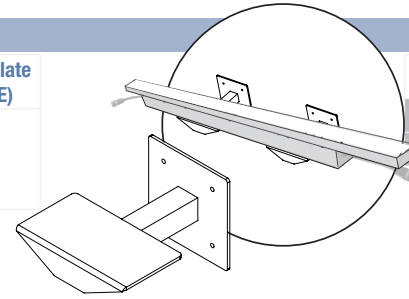
Mounting Options

COVELINE

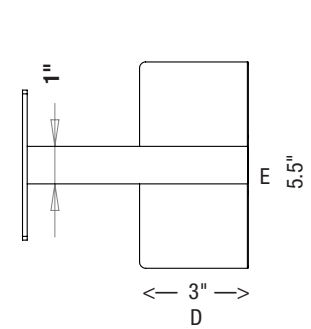
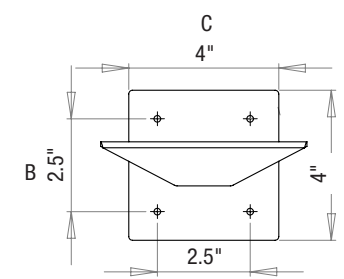
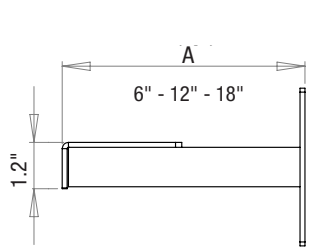


CANTILEVER ARM - Available in 3 Lengths

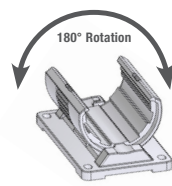
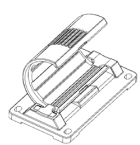
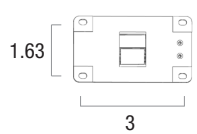
CA2	(A) arm length	mounting height (B)	mounting width (C)	bracket plate length (D)	bracket plate width (E)
CA2/6	6"	4"	4"	3"	5.5"
CA2/12	12"				
CA2/18	18"				



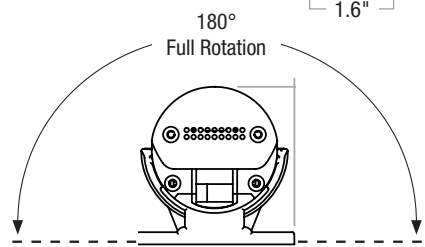
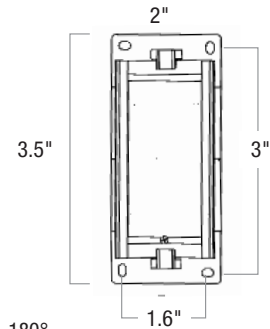
CLGR	CA2 Requirement
1'	1
4'	2



OPTIONAL ADJUSTABLE BRACKET (ADB2)

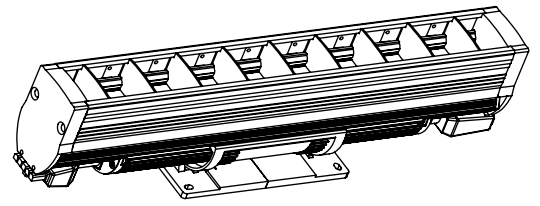
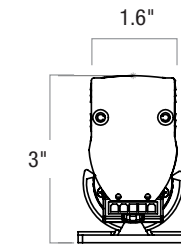
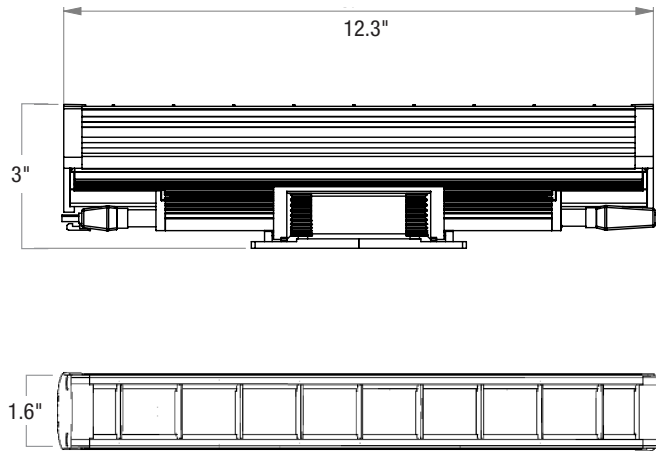


Multi-Directional.
- Adjusts +/-90°
- Mounts to horizontal or vertical surfaces
- Easy installation w/fixture in position

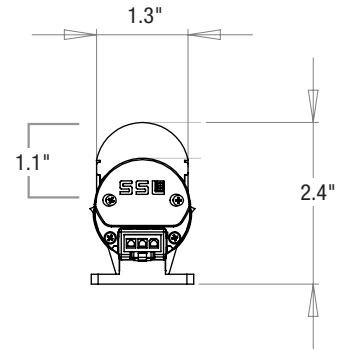


Accessories

BLACK LOUVRE - BL (INSTALLED DIMENSIONS)	1FT	4FT
height	3"	3"
length	12.3"	48"
width	1.6"	1.6"

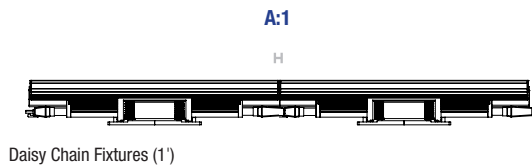


DIRECT DIFFUSER LENS - DVL	1FT	4FT
total height	2.4"	2.4"
diffuser height	1.1"	1.1"
length	11.9"	46.8"
width	1.3"	1.3"



Connectivity Options

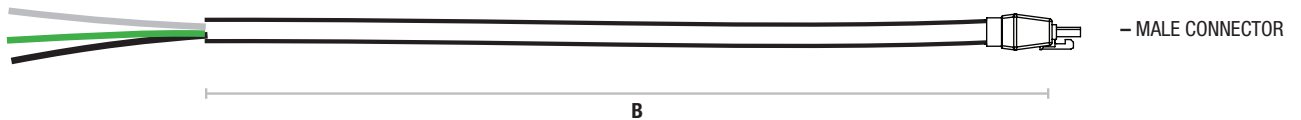
CONNECTIONS & CABLES



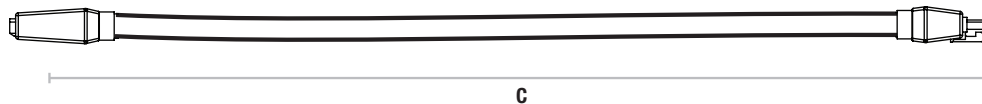
- A1:** MIN/.5" - MAX/.8" between fixtures
- A4:** MIN/0" - MAX/.6" between fixtures
- B:** SC6 - 6ft Starter Cord
- C:** EC6 12 in. Extension Cord
- C:** EC12 12 in. Extension Cord
- C:** EC24 24 in. Extension Cord
- C:** EC60 60 in. Extension Cord
- D:** TCAP 1.13" Terminator Cap

B: STARTER CABLES

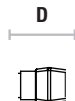
INSURE FIRST FIXTURE IS ORIENTED TO ACCEPT MALE CONNECTOR STARTER CABLE



C: EXTENSION CABLES

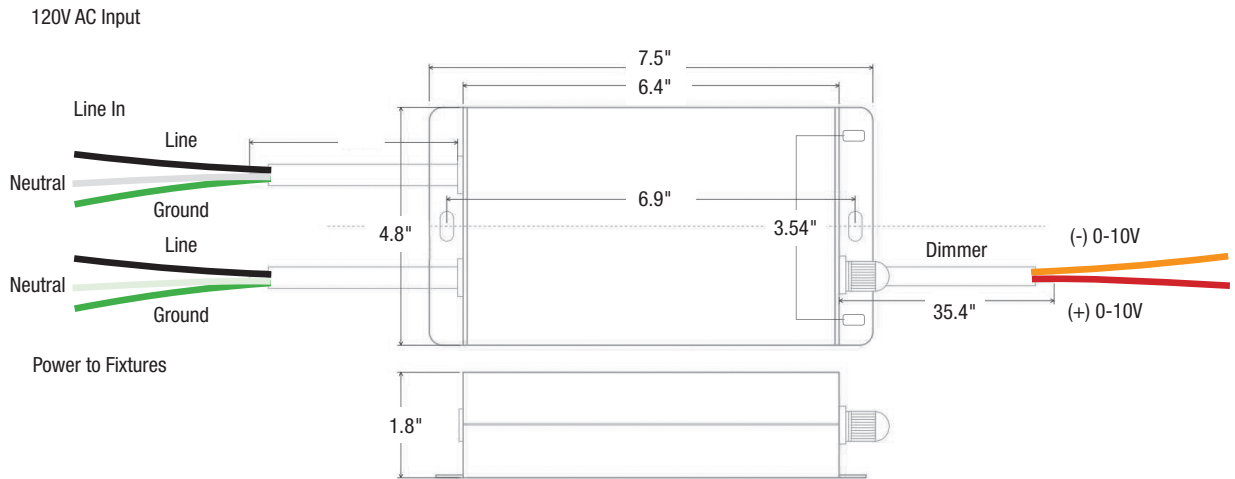


**D: TERMINATOR CAP
TCAP**

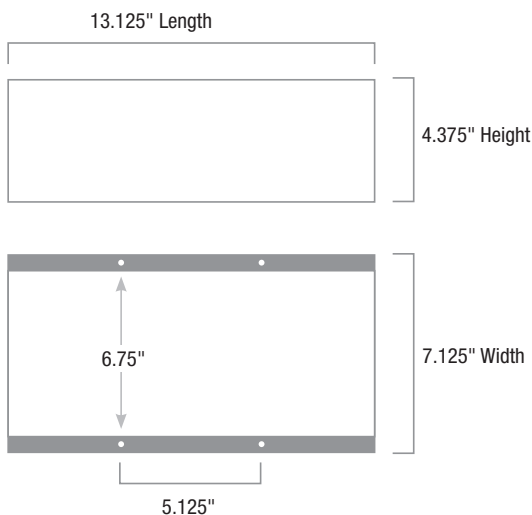


Control Components

0-10V ELV DIMMING MODULE (10VELV DIM)



ENCLOSURE DIMENSIONS



DIMMING

0-10V DIMMING

Model	Description
IP710-LFZ	Leviton 0-10V Dimmer
DVSTV	Lutron Diva 0-10V Dimmer



Dimmers are sold by others. FC|SSL does not recommend dimmers that have not been tested with their fixtures.

TRIAC, REVERSE PHASE DIMMING

Model	Description
DELV	Lutron Diva Dimmer 300P
SELV	Lutron Skylark Dimmer 153P
SCL	Lutron Skylark Dimmer 300P



Dimmers are sold by others. FC|SSL does not recommend dimmers that have not been tested with their fixtures.

**Job Name:**Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**(1) CVL-1-35K-10W-120 (1) SC6 (2)
TCAP (1) 10VELVDIM

Notes:

Type:**L6**

ALAND18-1958

Ordering Information

PART NUMBERS

COVELINE							
model		length	CCT		optics	options	
CVL	COVELINE	1 12 in. [305 mm]	27K 2700K	10	10° beam	CVLL-1	coveline louvre (1ft)
		4 46.8 in. [1219 mm]	3K 3000K	25	25° beam	CVLL-4	coveline louvre (4ft)
			35K 3500K	40	40° beam	DVL-1	direct view lens (1ft)
			4K 4000K	120	120° beam	DVL-4	direct view lens (4ft)
				1040	10° x 40° beam	DVL-ENDCAP	direct view lens end cap (pair) <i>must have 1 pair for every DVL</i>
				3060	30° x 60° beam		
				67140	67° x 140° beam		

Cable Accessories (Indicate the quantity needed for each item.)

REQUIRED: Starter Cable (SC6) and Terminator Cap (TCAP) for every run. **Maximum Run Length** = 120 feet

 SC6 6 ft. Starter Connection Cord

 EC06 6 in. Extension Cord

 TCAP Terminator Cap

 EC12 12 in. Extension Cord

 EC24 24 in. Extension Cord

 EC60 60 in. Extension Cord

Mounting Options (Indicate the quantity needed for each item.)

 ADB2 180° Adjustable Bracket

 CA2/6 Cantilever Arm - 6"

 CA2/12 Cantilever Arm - 12"

 CA2/18 Cantilever Arm - 18"

Control Components (Indicate the quantity needed for each item.)

model	
10VELVDIM	0-10V ELV Dim Module (1 module per run)
MC-10VELDIM	0-10V ELV Dim Module w/Interior Rated Enclosure (1 module per run)





Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
101L-16L-700-NW-G1-4-HVU-MGY

Type:
W1

Notes:

ALAND18-1958



Project: _____
Location: _____
Cat.No: _____
Type: _____
Qty: _____
Notes: _____

Philips Gardco 101 LED wall sconces feature a low-profile design that provides wide flexibility in high performance exterior wall illumination. Full cutoff performance, usable illumination patterns, and powerful wattages combine into a compact and architecturally pleasing design. 101L sconces are available in Type 2, 3, and 4 distributions, and provide output of up to 9500 lumens. Energy saving control options increase energy savings and offer California Title 24 compliance. Emergency Battery Backup option available for path of egress.

Ordering guide

example: 101L-32L-700-NW-G1-3-120-IMRI2-BZ

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Distribution	Emergency	Voltage	Options		
							Controls	Electrical	Finish
101L									
101L 101L LED Wall Sconce	16L 16 LEDs (1 module)	530 530mA 650 650mA ¹ 700 700mA 1000 1000mA 1200 1200mA	CW-G1 Cool White 5700K, 70CRI Generation 1 NW-G1 Neutral White 4000K, 70CRI Generation 1 WW-G1 Warm White 3000K, 70CRI Generation 1	2 Type 2 3 Type 3 4 Type 4	EBPC Emergency Battery Pack Cold Weather ^{3,4,5,12} Leave blank to omit an emergency option	UNV 120-277V HVU 347-480V 120 120V 208 208V 240 240V 277 277V 347 347V 480 480V	DD 0-10V Dimming Driver ^{5,6} DCC Dual Circuit Control ^{6,7,8} DynaDimmer: Automatic Profile Dimming CS50 Safety 50% Dimming (7 hours) ^{7,9,10} CM50 Median 50% Dimming (8 hours) ^{7,9,10} CE50 Economy 50% Dimming (9 hours) ^{7,9,10} DA50 All Night 50% Dimming ^{7,9,10} Photoelectric/Receptacle systems (Twist Lock Receptacle) PCB Photocontrol Button ^{9,10,11,12} TLRD5 Twist Lock Receptacle 5-Pin ¹³ TLRD7 Twist Lock Receptacle 7-Pin ¹³ TLRPC Twist Lock Receptacle w/PhotoCell ^{11,12,16} Infrared Motion Response systems IMRI2 Integral with #2 lens ^{9,12,14} IMRI3 Integral with #4 lens ^{9,12,14} Network system (SiteWise) SW SW Integral module ^{4,17} Wireless system LLC2 Integral module with #2 lens ^{5,7,9,15} LLC3 Integral module with #3 lens ^{5,7,9,15}	Fusing F1 Single (120, 277, 347VAC) ¹² F2 Double (208, 240, 480VAC) ¹² F3 Canadian Double Pull (208, 240, 480VAC) ¹²	Textured BK Black WH White BZ Bronze DCY Dark Gray MGY Medium Gray Customer specified RAL Specify optional color or RAL (ex: OC-LGP or OC-RAL7024) CC Custom color (Must supply color chip for required factory quote)

- 650mA only available with Emergency Battery Pack Cold Rated (EBPC) option
- 32L rated for 30°C at 1000mA
- Available for use with 16L and 32L in 530mA or 650mA only. Rated for -20°C to 35°C.
- Available in 120 or 277V only.
- Not available with Dual Circuit Control (DCC) option.
- EBPC is not available with DCC.
- Not available with Dimming Driver (DD) option.
- Available in 32L with 530mA. Consult technical support center for use with photocell and CS/CM/CE/DA.
- Available in 120-277V (UNV) only.
- Not available with LLC, TLR and DCC.
- Not available with 480V.
- Must specify input voltage.
- TLRD5/7 option not available with LLC, PCB, DCC. Works with 3 or 5 pin NEMA photocell dimming. Dimming will not be connected to TLR if ordering with DD, CS/CM/CE/DA and IMRI.
- Not available with DD, DCC or LLC.
- LLC2/3 Not available with TLR, PCB, IMRI, CS/CM/CE/DA. Ships with WS accessory attached to wireless module. Not for use with LLCR accessory.
- Not available with PCB, TLRD5/7, DCC, LLC.
- SW option is not available with any other control options with the exception of IMRI2, IMRI3 motion response options.

Job Name:Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**

101L-16L-700-NW-G1-4-HVU-MGY

Type:**W1**

Notes:

ALAND18-1958

101L Sconce LED

Wall Mount

Luminaire Accessories (order separately)

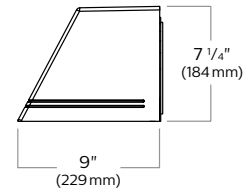
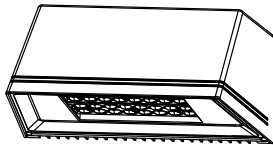
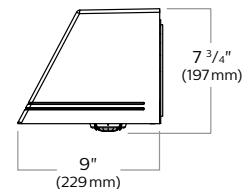
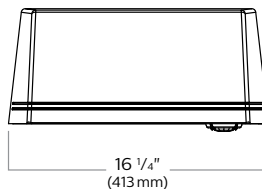
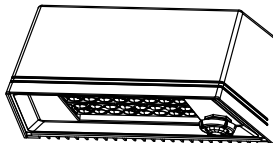
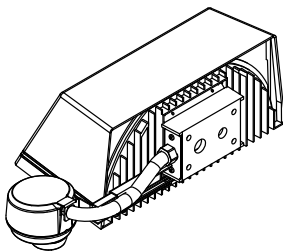
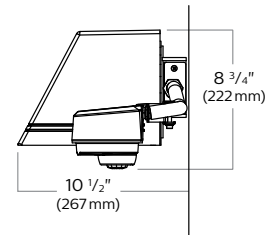
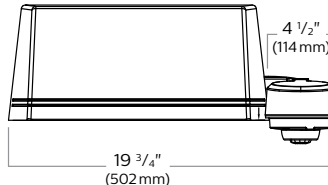
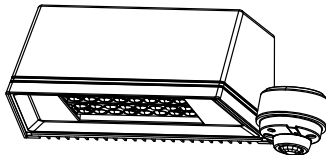
Mounting accessories**Wall Mount****WS** Wall Mounted Box for Surface Conduit**System accessories****Wireless system remote mount module****LLCR2-(F)** #2 lens - specify finish in place of (F)
LLCR3-(F) #3 lens - specify finish in place of (F)**Central Remote Motion Response**

(used connected to SiteWise main panel)

MS2-A-FVR-3**MS2-A-FVR-7****Wireless system remote controller accessory**

Wireless system offers a remote radio/sensor module that allows to connected to a Limelight system (sold by other). Remote module can be mounted to wall or pole with j-box supplied. May be specified by choosing one of two different lenses to accommodate a variety of mounting heights/sensor detection ranges. Must specify option DD on luminaires that are planned to be used with remote mount controllers. See page 4 for Wireless system details.

Dimensions

**Motion Response****Wireless Controls****Luminaire Weights**

LED Wall Sconce 101L	Weight
Luminaire	13.5 lbs
Luminaire - EBPC (EM battery pack)	17.0 lbs
Luminaire - Integrated system controls	16.3 lbs

101L Sconce LED

Wall Mount

LED Wattage and Lumen Values

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts ¹	Type 2			Type 3			Type 4		
					Lumen Output ^{1,2}	BUG Rating	Efficacy (LPW)	Lumen Output ^{1,2}	BUG Rating	Efficacy (LPW)	Lumen Output ^{1,2}	BUG Rating	Efficacy (LPW)
101L-16L-530-NW-G1	16	530	4000K	28	2944	B1-U0-G0	106	2687	B1-U0-G1	97	2747	B1-U0-G1	99
101L-16L-700-NW-G1	16	700	4000K	37	3789	B1-U0-G1	103	3458	B1-U0-G1	94	3535	B1-U0-G1	96
101L-16L-1000-NW-G1	16	1000	4000K	55	5050	B1-U0-G1	92	4609	B1-U0-G1	84	4712	B1-U0-G1	86
101L-16L-1200-NW-G1	16	1200	4000K	65	5744	B2-U0-G1	89	5242	B1-U0-G2	81	5359	B1-U0-G2	83
101L-32L-530-NW-G1	32	530	4000K	52	5698	B2-U0-G1	110	5200	B1-U0-G2	100	5316	B1-U0-G2	102
101L-32L-700-NW-G1	32	700	4000K	70	7242	B2-U0-G1	103	6609	B1-U0-G2	94	6757	B1-U0-G2	96
101L-32L-1000-NW-G1	32	1000	4000K	107	9797	B2-U0-G1	92	8941	B2-U0-G2	84	9140	B2-U0-G2	86

LED Wattage and Lumen Values (Emergency Mode)³

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Ave. System Watts (charging mode)	Type 2	Type 3	Type 4
101L-16L-NW-EBPC	16	N/A	4000K	14	1345	1228	1255
101L-32L-NW-EBPC	32	N/A	4000K	14	1754	1600	1636

1. Wattage and lumen output may vary by +/- 8% due to LED manufacturer forward volt specification and ambient temperature. Wattage shown is average for 120V through 277V input. Actual wattage may vary by an additional +/- 10% due to actual input voltage.
2. Lumen values based on photometric tests performed in compliance with IESNA LM-79.
3. For emergency EBPC option, publish values are based on initial lumens.

Luminaire options

DD: 0-10V dimming driver with leads supplied through back of luminaire (for secondary dimming controls by others).

Dynadimmer Automatic Profile Dimming: Automatic dimming profiles (CS50/CM50/CE50) offer safety, median, or economy settings, for shorter or longer duration. Dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. 50% dimming is standard. DA50 offers 50% instantaneous dimming all night (during all dark hours). Other dimming settings are also available if different light levels are required (contact Technical Support for details).

Profile	Dimming		
	Schedule	Duration	Level
Economy	9 PM - 6 AM	9 hours	50%
Median	10 PM - 6 AM	8 hours	50%
Safety	11 PM - 6 AM	7 hours	50%
Reactive 50	all night	dynamic	50%

TLRD5: Twist Lock Receptacle with 5 pins enabling dimming, can be used with a twistlock photoelectric cell or a shorting cap. Can also be used with Philips or third party control system.

TLRD7: Twist Lock Receptacle with 7 pins enabling dimming and additional functionality, can be used with twistlock photoelectric cell or a shorting cap. Can also be used with Philips or third party control system.

TLRDPC: Receptacle with twistlock photoelectric cell (must specify voltage). Receptacle located on top of luminaire housing.

IMRI2, IMRI3: Infrared Motion Response Integral (IMRI). IMRI module is mounted integral to the luminaire door and is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges (see charts for approximate detection patterns). Motion response used in combination of Dynadimmer and SiteWise are not programmable and used to override controllers schedule when motion is detected. When used not combined with any controller, IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to 100% light output. Dimming on low is factory set to 50% with 5 minute default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50% of the normal constant wattage reducing the light level. IMRI can also be specified with automatic profile dimming for the added benefit of a combined dimming profile with sensor detection, where the PIR sensor will override the dimming profile when occupancy is detected. Passive infrared (PIR) motion sensor, WattStopper FSP-211, equipped with lens choice specified. Available from 120V to 277V input only. Motion sensor off state power is 0.0 watts. The FSP-211 can also be reprogrammed with WattStopper's FS1R-100 remote programming tool accessory.

DCC: Dual Circuit Control permits separate switching of 32L models only, where a quantity of (2) 16 LED modules are controlled independently by use of two sets of leads, one for each module.

SW

SiteWise option is a fully integrated controller that connects to Philips SiteWise system in order to offer a complete area lighting management system. The communication signal is based on Philips patented central dimming technology. SiteWise delivers it deliver optimal energy savings using your site's existing cabling. No additional wiring required, installation and commissioning are simple. An intuitive, mobile app makes it easy for authorized users to set schedules to meet site specific lighting needs, local regulations, and energy codes

Wireless system: 101L luminaires are available with optional wireless controllers ready to be connected to a Limelight system (sold by other). The system allows you to Wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely. Based on a high density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless System can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor.

101L Sconce LED

Wall Mount

Luminaire options (continued)

F1: Fusing Single (for 120, 277 or 347VAC)

F2: Fusing Double (for 208, 240 or 480VAC)

F3: Fusing Canadian Double Pull (for 208, 240 or 480VAC)

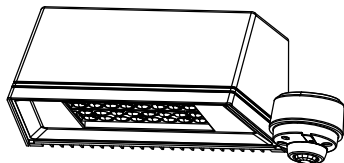
EBPC: Emergency battery pack is cold weather rated down to -20C (-4F) and integral to the luminaire, allowing for a consistent look between emergency and non-emergency sconces. A separate surface mount accessory box is not required. Dual light engines (32L) are wired in parallel, both operating in emergency mode to meet various redundancy lamp

requirements. Also available with single light engine (16L). Secondary driver with relay immediately detects AC power loss and powers luminaire for a minimum of 90 minutes from the time power is lost.

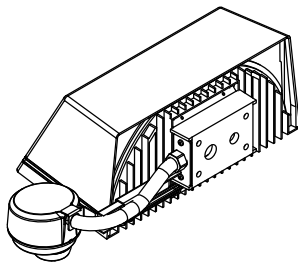
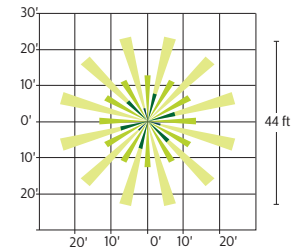
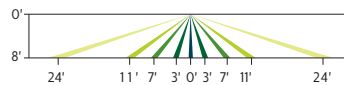
Infrared Motion Response and Wireless system sensor coverage patterns

LLC2/3 Luminaire mounted controller

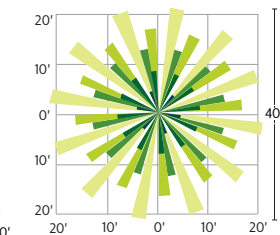
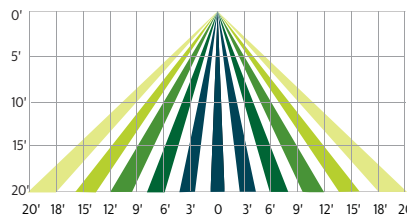
Controller attached to luminaire and Includes radio, photocell and motion sensor with #2 or #3 lens for 8-20' mounting heights.



IMRI2/LLC2/LLCR2

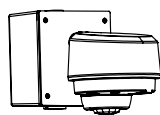


IMRI3/LLC3/LLCR3

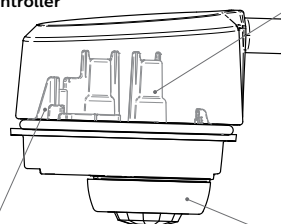


Remote Mount Wireless Controller

Used to extend the communication on site, to extend motion response and add other luminaires that are not pole mounted. Consult factory for more information.



Controller



Wireless Radio

- 1.8 Watts max (no load draw)
- Operating voltage 120-277 VAC RMS
- Communicates using the ZigBee protocol
- Carries out dimming commands from Gateway
- Reports ambient light readings to 1500 Ft-Cd
- Transmission Systems Operating within the band 2400-2483.5Mhz
- ROHS Compliant

Photocell

- Ambient light photocell on every wireless radio that averages the light levels of up to 5 controllers for an accurate reading and optimal light harvesting activity.
- Reports ambient light readings to 1500 Fc.

Motion Response

- Detects motion through passive infrared sensing technology with three different lens configurations
- Motion sensor coverage can be adjusted from a narrow to a wide detection range, which helps reduce false triggers to further increase energy savings.
- Sensing profiles can be updated to adapt to activity levels in the environment, such as occupancy level, wind, and mounting height

101L Sconce LED

Wall Mount

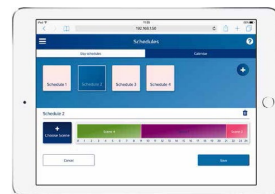
SiteWise system

SiteWise is a complete area lighting management system including a luminaire integrated controller, dimming signal transmitter cabinet, and locally accessible user interface. Installation and commissioning are simple. The cabinet communicates with the Philips luminaires using a patented central dimming technology. The control signal is embedded on the existing electrical line – no new cabling is required. An intuitive, locally accessible interface makes it easy for authorized users to set schedules in order to meet site specific lighting needs, local regulations, and energy codes.

SiteWise system diagram



SiteWise system interface



SiteWise has an intuitive user interface that makes it easy to plan, edit, and implement lighting schedules for your site. Authorized users can access the interface via a local app.

To ensure that only authorized users can access your lighting, SiteWise offers two user types, each with different permissions. An advanced user, or administrator, can set and edit schedules using the ten pre-set scenes, assign those schedules to calendar days, and check system status.

For everyday use, a basic user can manually override a schedule that is currently running but cannot create or edit schedules.

SiteWise system specifications

The SiteWise system includes both luminaires and controls. The controls used for SiteWise are circuit load dependent. Required for a complete installation are the following Philips SiteWise components: user interface, control kit, dimming signal transmitter cabinet, and dimming signal receiver located in the Philips luminaire (**SW** option). Optional luminaire-integrated or external motion sensors may also be specified as required. Within the electrical closet, the control kit and dimming signal transmitter cabinet are installed into the electrical system between the existing breaker panel and the site luminaires. New LED luminaires containing the dimming signal receiver are installed on the site. Once completed, use of the interface allows for scheduling and override capabilities. Wireless access point and tablet should be supplied by others. Complete information on the control system can be found on the SiteWise website at philips.com/sitewise

Job Name:Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**

101L-16L-700-NW-G1-4-HVU-MGY

Notes:

Type:**W1**

ALAND18-1958

101L Sconce LED

Wall Mount

Specifications

Housing

Main body cast housing and back plate made of a low copper die cast Aluminum alloy for a high resistance to corrosion, 0.100" (2.5mm) minimum thickness. Hinged door allows access to driver and LED compartment.

Mounting

Mounting is completed through integral back plate that features a separate recessed feature for hook and lock quick mount plate that secures with two set screws from bottom of luminaire. Mounting plate is located in the center of the luminaire width and 3.5" above the luminaire bottom (lens down position). Luminaire ships fully assembled, ready to install.

Light Engine

Composed of 4 main components: Heat Sink / LED Module / Optical System / Driver. Electrical components are RoHS compliant. IP66 sealed light engines. LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan.

Heat Sink

Integral door/heat sink design made of low copper die cast Aluminum alloy for a high resistance to corrosion.

LED Module

Composed of high performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 4000K nominal (+/- 275K), CRI 70 Min. Available in other color temperatures including Cool White, 5700K and Warm White, 3000K.

SiteWise Network System

SiteWise system includes a controller fully integrated in the luminaire that enables the luminaires to communicate with a dimming signal transmitter cabinet located on site using Philips patented central dimming technology. A locally accessible mobile app allows users to access the system and set functionalities such as ON/OFF, dimming levels and scheduling. SiteWise is available with motion response options in order to bring the light back to 100% when motion is detected. Additional functionalities are available such as communication with indoor lighting and connection to BMS systems.

Hardware

All exposed screws shall be stainless and/or corrosion resistant and captive.

Optical System

The advanced LED optical systems provide IES Types 2, 3, 4. Composed of high performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. Dark sky compliant with 0% uplight and U0 per IESNA TM-15.

Driver

High power factor of 90% min. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277 VAC or 347 to 480 VAC rated for both application line to line or line to neutral, Class I, THD of 20% max. The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built in driver surge protection of 2.5kV (min).

Surge Protection

Each luminaire is provided as standard with surge protector (Philips designed SPI) tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario 1 Category C High Exposure 10kV/5kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid State Street Lighting Consortium) Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High Test Level 10kV / 5kA.

Wiring (supplied by others)

Splices must be made in the junction box.

Finish

Five standard colors offered in textured black, white, bronze, dark gray and medium gray. Color in accordance with the AAMA 2604 standard. Application of polyester powder coat paint 2.5 mils minimum. The thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard. RAL and custom color matching available.

LED Products Manufacturing Standard

The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with EC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

LED Useful Life

Luminaire Useful Life accounts for LED lumen maintenance. Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in situ thermal testing in accordance with UL1598 and UL8750, LED LM-80/TM-21, expected to reach 100,000 + hours with >L70 lumen maintenance @ 25°C.

Certifications and Compliance

cULus Listed for Canada and USA suitable for wet locations when mounted downward facing. cULus Listed for Canada and USA suitable for damp locations when inverted upward facing when mounted in covered ceiling application. Emergency Battery Pack option is tested and listed to UL924 and CSA C22.2 No. 141-10 DesignLights Consortium qualified on models as listed on DLC QPL. Luminaire is rated for operation in ambient temperature of -40°C (-40°F) up to +40°C (+104°F).

Limited Warranty

5-year limited warranty. See philips.com/warranties for details and restrictions. Visit our eCatalog or contact your local sales representative for more information.

**Job Name:**Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**

101L-16L-700-NW-G1-4-HVU-MGY

Notes:

Type:**W1**

ALAND18-1958

101L Sconce LED

Wall Mount

LED Performance

Predicted lumen depreciation data ¹				
Ambient Temperature (°C)	Driver mA	Calculated L ₇₀ hours ^{1,2}	L ₇₀ per TM-21 ^{2,3}	Lumen Maintenance % @ 60,000 hours
25°C	up to 1200 mA	>100,000	>60,000	88%

1. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.
2. L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output.
3. Calculated per IESNA TM21-11. Published L₇₀ hours limited to 6 times actual LED test hours.

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philips.com/luminaires

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200 Franklin Square Drive, Somerset, NJ 08873
Tel. 855-486-2216

Philips Lighting Canada Ltd.
281 Hillmount Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008

Job Name:Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**

FCSL201-120V-LED-4K-780-BK

Notes:

Type:**W2**

ALAND18-1958


Date:**Approved:****Type:****Fixture:****Project:****FCSL201**Exterior Die-Cast 12" Step Light with
Heavy Walled Die-Cast Faceplate.

FCSL201

ORDERING**EXAMPLE:** FCSL201-120V-4K-780-BK-LD

SERIES	VOLTAGE	SOURCE/TEMPERATURE	LED Lumens	FINISH	ACCESSORIES
FCSL201	120V 277V	LED 27K 3K 35K 4K PL 13Q 26Q	780 Lumens (17W)	BK Black BZ Bronze CC Custom Color WH White SL Silver	HB Hanger Bracket OPC Opal Polycarbonate Lens BBU Battery Backup, Remote

SPECIFICATION**MOUNTING**

- Concrete pour standard. Built-in drywall clamps on backbox for drywall applications. Optional Hanger Bracket (**HB**) available.
- Installation:** <http://tinyurl.com/j4gmzsx>

CONSTRUCTION

- Marine grade, corrosion resistant, heavy walled, high pressure die-cast aluminum construction.
- Opal, tempered glass lens. Optional opal polycarbonate lens (OPCL) accessory. Precision formed semi-specular aluminum reflector.
- Neoprene continuous closed cell urethane 'O' ring gasket. Captive and recessed stainless steel, tamper resistant hex socket screws.

LED

- Lumens stated are the minimum delivered out of the luminaire. LED lifetime is greater than or equal to 70,000 hours with the lumen depreciation greater than L70. All of our luminaires are LM-80 tested and are \geq CRI80, with a 4-step MacAdam Ellipse color consistency. Integral power supply standard. Input voltage 120V or 277V standard.

FINISH

- Six stage chemical pre-treatment process that includes iron phosphate, to prepare the substrate for a UV stable, super durable standard polyester powder coat.

ELECTRICAL

- Socket** PL: Four pin plug-in type compact fluorescent lamp holder (*lamp by others*).
- Ballast** UL listed electronic ballast standard with 5 year manufacturers warranty.
- Dimming** Fixtures come standard with 0-10V dimming driver.

LISTING

- ETL, U.S. and CA listed for interior and exterior wet locations. IP65 rating.

* Terms & Conditions for our Go Green Speed, quick ship program are located on our website: fclighting.com

FC Lighting, Inc. reserves the right to change lab details or specifications without notice. Product use certifies agreement to FC Lighting's terms and conditions.

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RF Rev. 1217

Submitted by Aland Enterprises



Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
FCSL201-120V-LED-4K-780-BK

Notes:

Type:
W2

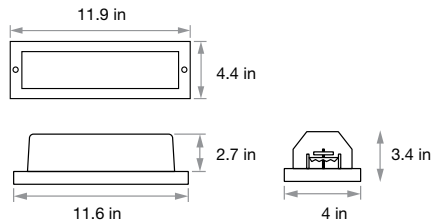
ALAND18-1958



PHOTOMETRY

DIMENSIONS

FCSL201



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Rev. 615



Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
C6RN C6L35840MZ10U C6RDLCL

Type:
W3

Notes:

ALAND18-1958

**PHILIPS
LIGHTOLIER**

Downlighting

Calculite LED gen 3

6" round downlight,
1000 - 6000lm



Calculite LED 6" generation 3 features industry leading visual comfort, excellent uniform illumination over time, and patented installation flexibility.

Complete luminaire = Frame + Engine + Trim + Accessories (optional)

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

Frame

example: C6RN

Series	Aperture	Installation	Voltage/Options
C6	R		
C6 Calculite LED 6" aperture	R Round	N New construction ¹ R Remodeler	— Universal 120V/277V (specify for Power Over Ethernet configurations) S 347 V (not compatible with ELV dimming) EM Emergency ^{1,2} LC Chicago Plenum ¹

Engine

example: C6L15835NZ10U

Series	Lumens	CRI	CCT	Beam	Dimming	Voltage
C6L						
C6L Calculite LED 6" aperture	10 1000lm 15 1500lm 20 2000lm 25 2500lm 35 3500lm 48 4800lm ³ 60 6000lm ³	8 80CRI 9 90CRI	27 2700K 30 3000K 35 3500K 40 4000K	N Narrow (40°) M Medium (55°) W Wide (72°)	Z10 0-10V 1% ³ SOL EldoLED Solo 0-10V 0.1% D Dali L Lutron LDE1 EcoSystem (fade-to-black) E ELV (120V dimming only) ⁴ P Power over Ethernet (PoE)	U Universal 120/277/347V 1 Universal 120V/277V E Ethernet 48V DC Only compatible with 1000 (10) to 2500 (25) lumen configurations.

Trim

example: C6RDLCCP

Series	Aperture	Style	Finish	Flange
C6	R	DL		
C6 Calculite LED 6" aperture	R Round	DL Downlight	BK Black (matte) CL Specular clear WH White (matte) SL Non-conductive ⁶	CC Comfort clear CD Comfort clear diffuse CZ Champagne bronze — White (matte) F Flangeless F Flangeless — Not applicable

Accessories

- CA6RFT** Mud-in ring for use with flangeless installations (ordered with a flangeless trim)
- CAEM** Field installable EM pack
- C6RVPWH** IP65 rated vandal proof matte white accessory that mounts onto a flangeless trim
- AMS** ActiLume multi-sensor (optional accessory for Power Over Ethernet configurations)
- SWZDT** SpaceWise wireless controller with dwell time functionality⁵

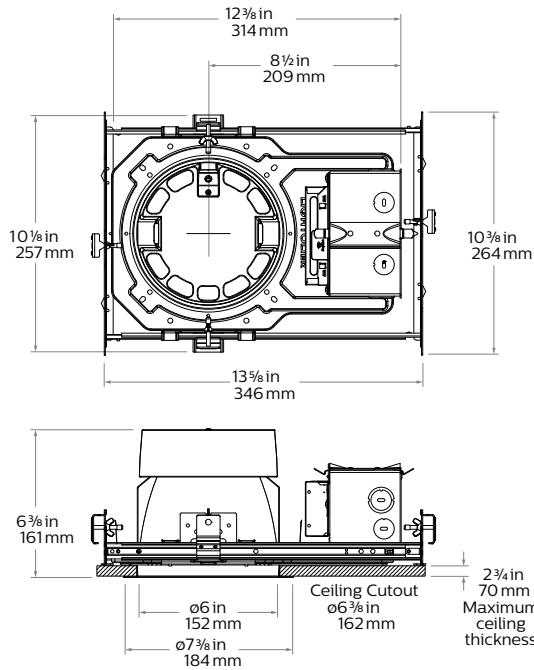
1. Emergency (EM) and Chicago Plenum (LC) options are only available with New construction (N) installations.
2. Emergency (EM) frame comes with emergency battery pack and ceiling mountable test switch. Reflector mounted test switch requires above ceiling access. For reflector mounted test switch, order emergency frame and add "EM" suffix to reflector (example: C6RDLCCEM).
3. The 4800lm (48) and 6000lm (60) packages are only available with 0-10V (Z10) dimming and have marked spacing requirements (see page 3).
4. ELV (E) dimming is only compatible with up to 2500lm (25) configurations.
5. SpaceWise is compatible with all 0-10V configurations (for details see "SWZDT" spec sheet).
6. Non-conductive flush mount lens with pre-installed gasket (matte white non-conductive flange with diffuse lens that is flush with the flange).



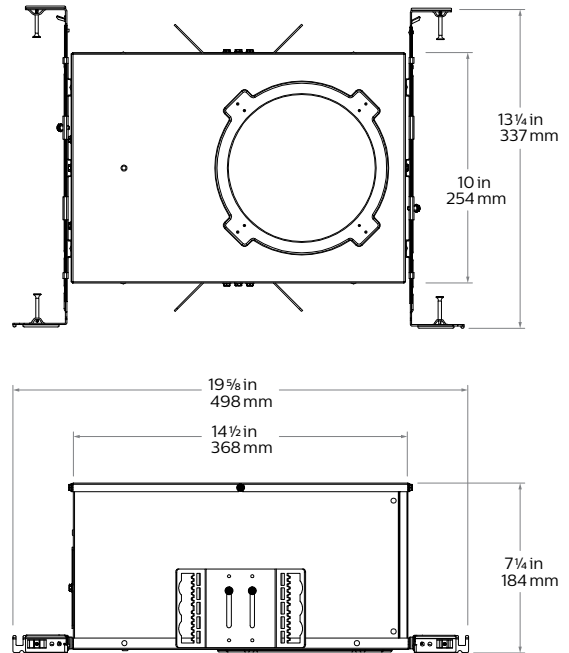
C6RDL Calculite LED generation 3

6" round downlight

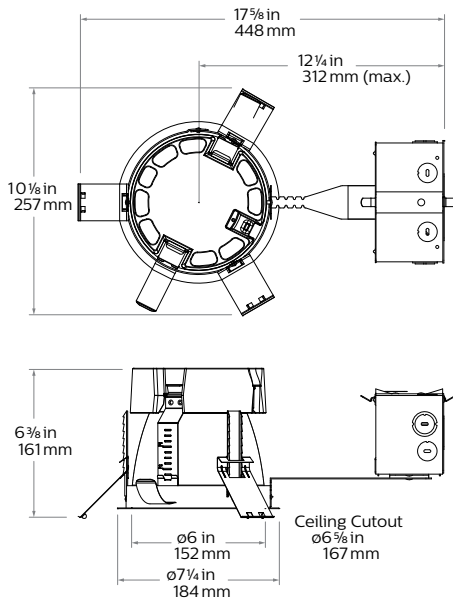
New Construction (N)



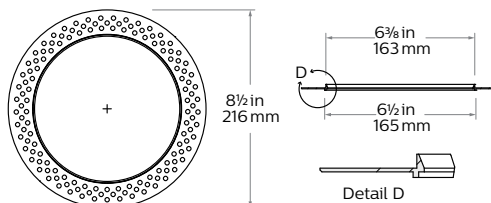
Chicago Plenum (LC)



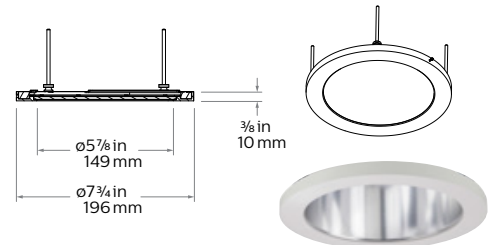
Remodeler (R)



Flangeless mud-in ring (CA6RFT) accessory

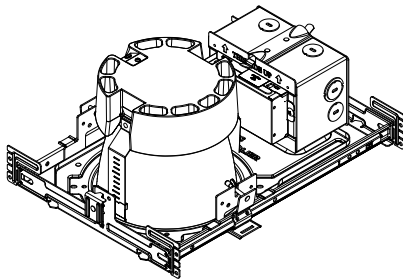


Vandal Proof (VP) accessory



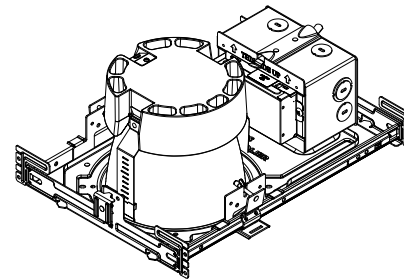
C6RDL Calculite LED generation 3

6" round downlight



Narrow

Light engine	Input volts	Input freq	Input current	Drive current	Input power	LED power	THD power	Power factor
C6L10_NZ10U	120V	50/60Hz	0.08	230 mA	9W	8W	<15%	>0.95
	277V		0.04				<20%	>0.95
C6L15_NZ10U	120V	50/60Hz	0.11	340 mA	15W	11W	<10%	>0.95
	277V		0.05				<15%	>0.95
C6L20_NZ10U	120V	50/60Hz	0.16	460 mA	22W	16W	<10%	>0.95
	277V		0.08				<15%	>0.95
C6L25_NZ10U	120V	50/60Hz	0.20	590 mA	25W	21W	<10%	>0.95
	277V		0.10				<15%	>0.95
C6L35_NZ10U	120V	50/60Hz	0.30	900 mA	36W	30W	<10%	>0.95
	277V		0.14				<15%	>0.95
C6L48_NZ10U	120V	50/60Hz	0.42	1250 mA	51W	44W	<10%	>0.95
	277V		0.19				<15%	>0.95
C6L60_NZ10U	120V	50/60Hz	0.48	1400 mA	57W	50W	<10%	>0.95
	277V		0.21				<15%	>0.95



Medium/Wide

Light engine	Input volts	Input freq	Input current	Drive current	Input power	LED power	THD power	Power factor
C6L10_MZ10U	120V	50/60Hz	0.08	210 mA	9W	8W	<15%	>0.95
	277V		0.04				<20%	>0.95
C6L15_MZ10U	120V	50/60Hz	0.11	320 mA	15W	11W	<10%	>0.95
	277V		0.05				<15%	>0.95
C6L20_MZ10U	120V	50/60Hz	0.15	430 mA	19W	15W	<10%	>0.95
	277V		0.07				<15%	>0.95
C6L25_MZ10U	120V	50/60Hz	0.19	550 mA	23W	19W	<10%	>0.95
	277V		0.09				<15%	>0.95
C6L35_MZ10U	120V	50/60Hz	0.25	570 mA	30W	25W	<10%	>0.95
	277V		0.11				<15%	>0.95
C6L48_MZ10U	120V	50/60Hz	0.36	810 mA	40W	34W	<10%	>0.95
	277V		0.16				<15%	>0.95
C6L60_MZ10U	120V	50/60Hz	0.50	1130 mA	57W	50W	<10%	>0.95
	277V		0.22				<15%	>0.95

Narrow (Power over Ethernet)

Light engine	Input				
	Volts ¹	Voltage ²	Freq	Current	Power
C6L10___NPE	53V	51-54V	DC	160 mA	8.9 W
C6L15___NPE	53V	51-54V	DC	250 mA	13.7 W
C6L20___NPE	53V	51-54V	DC	330 mA	17.7 W
C6L25___NPE	53V	51-54V	DC	420 mA	22.8 W

Medium (Power over Ethernet)

Light engine	Input				
	Volts ¹	Voltage ²	Freq	Current	Power
C6L10___MPE	53V	51-54V	DC	160 mA	8.4 W
C6L15___MPE	53V	51-54V	DC	230 mA	12.5 W
C6L20___MPE	53V	51-54V	DC	310 mA	16.7 W
C6L25___MPE	53V	51-54V	DC	390 mA	21.4 W

Wide (Power over Ethernet)

Light engine	Input				
	Volts ¹	Voltage ²	Freq	Current	Power
C6L10___WPE	53V	51-54V	DC	160 mA	8.4 W
C6L15___WPE	53V	51-54V	DC	230 mA	12.5 W
C6L20___WPE	53V	51-54V	DC	310 mA	16.7 W
C6L25___WPE	53V	51-54V	DC	390 mA	21.4 W

1. Nominal input volts.

2. Preferred volt range.

Marked spacing applications

Light engine	4800lm	6000lm
C6L_Z10U series	X	X
C6L_LU series	—	—
C6L_DU series	—	—

Modules marked with an X require marked spacing:
 - Center-to-center of adjacent luminaires: 24" (610mm)
 - Luminaire center to side building member: 12" (305mm)

Lifetime (TM-21) data

Lumens	Narrow beam	Medium/Wide beam*
1000lm	L90 @ 60,000hrs.	L90 @ 60,000hrs.
1500lm		
2000lm		
2500lm		
3500lm*		
4800lm	L90 @ 60,000hrs.	L80 @ 60,000hrs.
6000lm		

* Lutron 3500lm with Medium/Wide beam is L85 @ 60,000hrs.

Job Name:Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**

C6RN C6L35840MZ10U C6RDLCL

Notes:

Type:**W3**

ALAND18-1958

C6RDL Calculite LED generation 3

6" round downlight

Reflector



Specular clear (CL): Most specular and most efficient finish, delivers maximum photometric performance but can produce a mirror image effect of the interior space.



Comfort clear (CC): Semi-specular finish that softens the light at the source of the reflector and creates a subtle, even luminance from the reflector cone.



Comfort clear diffuse (CD): Slightly diffuse clear finish, that eliminates iridescence and reduces the mirror image effect inherent with specular finishes.



Champagne bronze (CZ): Semi-specular finish that softens light at the source of the reflector while providing a warmer reflector appearance (slightly warmer).



White (WH): (matte) Brightest illuminated aperture and provides the smoothest transition to most ceilings when off (white is only available with a white flange).



Black (BK): (matte) Specular finish that provides the lowest aperture brightness possible and significantly reduces source identification in a ceiling.

Flange



White (-): (matte) Provides the smoothest transition to ceilings when off.



Polished (P): (matches aperture) Produces a continuous look throughout the reflector (aperture matching).



Flangeless (F): (flush-mount) Creates a flush, virtually seamless transition from aperture to ceiling.

Frame-in-kits

New Construction

Galvanized stamped steel for dry or plaster ceilings. Preinstalled telescoping mounting bars from 13" to 24". For 4' distances, use 1/2" EMT, 1-1/2" x 1/2" U or C channel.

Max ceiling thickness is 2-3/4"

Patented install Mounting frame

With no driver attached, this versatile frame is independent of driver accommodating a wide range of lumen packages, driver types and CCTs, including 120V and 277V inputs.

Pre-installed mounting bars allow for fast and tool-less installation into T-grid and hat channel ceilings.

Close-cut aperture design eliminates the possibility of undesired gap between ceiling opening and reflector flange.

Separate wiring compartment for wiring frame to building allows inspection prior to light engine installation.

Simple plug-and-play connection between the frame and light engine from below the ceiling eliminates the need for wiring between frame and LED driver, and also saves time during installation and future replacements/upgrades. Plug-and-play receptacle accommodates technology upgrade of light engines and replacements for the life of the building.

Drivers

- Advance 0-10V 1% dimming
- Lutron Hi-lume EcoSystem H Series 1% dimming
- EldoLED ECOdrive Dali 1% dimming
- EldoLED SOLOdrive 0-10V 0.1% dimming
- ELV dimming

Power over Ethernet

Powered via Philips PoE lighting controller: complies with FCC rules per Title 47 part 15 (Class A) for EMI / RFI (conducted & radiated). PoE lighting controller accessible from below ceiling.

Rated life: 60,000 hrs at 70% lumen maintenance based on IES LM-80-08 and TM-21-11.

Optical systems

Comfort throughout the space: Patented optical system combines primary and secondary optics to provide a true 50° physical cutoff and 45° reflected cutoff virtually eliminating the view of the light source and bright spots in the reflector. A new reflector curve reduces reflector brightness by up to 50% compared to existing products, allowing for the use of higher lumen packages in smaller apertures without creating bright spots in the ceiling.

Quality of light: 2 SDCM ensures color consistency from fixture to fixture and over the luminaire's long lifetime. Proprietary optical grade silicone lens with patterned surface provides soft, even beam diffusion without hotspots or dark rings.

Light Engine

Quick connect power pack comprised of light source and driver allow for easy installation and replacement from below ceiling with no need for additional wiring. This allows for

- Frame and ceiling installation to be performed while still finalizing details such as lumen packages, CCT and control type.
- Easy replacement of electronics at end of life with minimal wasted material and labor required.
- Ease and upgradability of technology.

Options and Accessories

Flangeless mud-in ring: Use **CA6RFT** for use with flangeless plaster installations.

Sloped ceilings: Compatible with sloped ceiling adapters (see **SCA** spec sheet).

Vandal Proof: Use **C6RVPWH** for an IP65 rated vandal proof matte white accessory. Must be ordered with a flangeless trim.

ENERGY STAR® exceptions

90 CRI configurations
Champagne Bronze and Black finishes
347V & Emergency voltage/options
Dali, EldoLED Solo & PoE drivers

Title 24 exceptions

1000lm configurations
Champagne Bronze and Black finishes

Labels and Listings

cULus listed for wet location
ENERGY STAR®, RoHS & CEC Title 24 JA8 certified
CCEA (frames with *LC suffix)
IP65 rated with vandal proof accessory
IBEW Union made (light engines & reflectors)

Warranty

5 year warranty on complete system.

Complete warranty available at: http://images.philips.com/is/content/PhilipsConsumer/PDFDownloads/United%20States/ODL120150930_003-UPD-en_US-Philips-warranty-indoor-PLS-us.pdf





Job Name:
Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)

Catalog Number:
C6RN C6L35840MZ10U C6RDLCL

Type:
W3

Notes:

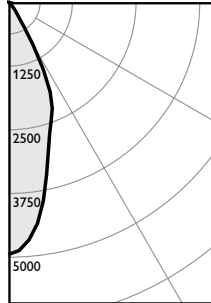
ALAND18-1958

C6RDL Calculite LED generation 3

6" round downlight

Narrow beam, 2500lm Engine, 103.0 lm/W or 108.0 lm/W at 22.8W (Power over Ethernet)

Candela Curve



Frame: **C6RN**
Engine: **C6L25835NZ10U**
Trim: **C6RDLCL**

Output lumens: 2462 lms
Input watts: 23.9 W
CRI: 80 min
CCT¹: 3500K
Spacing Crit.: 0.6
Beam Angle: 40°

Zonal summary

Zone	Lumens	%Luminaire
0-30	2113	85.8%
0-40	2383	96.8%
0-60	2459	99.9%
0-90	2462	100.0%

Angle	Mean CP	Lumens
0	4938	
5	4667	423
10	3948	
15	3027	856
20	2456	
25	1936	834
30	977	
35	352	270
40	205	
45	87	72
50	13	
55	4	4
60	3	
65	2	2
70	1	
75	1	1
80	0	
85	1	0
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	198	3.0'
6'	137	3.6'
7'	101	4.2'
8'	77	4.8'
9'	61	5.4'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	114.3	1.06
6'	75.0	0.70
7'	53.6	0.50
8'	44.7	0.41
9'	35.7	0.33

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 103.0 lm/w
Report#: F37145

Adjustment factors

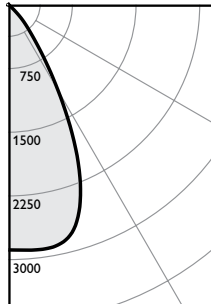
Finish	CCT	Lumens
CL = 100%	80CRI 4000K = 103%	6000lm = 202%
CC = 95%	80CRI 3500K = 100%	4800lm = 192%
CD = 87%	80CRI 3000K = 95%	3500lm = 140%
CZ = 63%	80CRI 2700K = 93%	2500lm = 100%
WH = 87%	90CRI 3000K = 83%	2000lm = 80%
BK = 57%	90CRI 2700K = 78%	1500lm = 60%
		1000lm = 40%

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 - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	114	112	109	107	110	106	105	102	102	99	95
	2	109	105	101	98	103	97	100	95	97	93	90
	3	105	99	95	91	98	90	95	89	93	88	85
	4	100	94	89	85	93	85	90	84	88	83	80
	5	96	89	84	80	88	79	86	79	84	78	76
	6	92	84	79	75	83	75	82	74	81	74	72
	7	88	80	75	71	79	71	78	71	77	70	69
	8	85	76	71	67	76	67	75	67	74	67	65
	9	81	73	68	64	72	64	72	64	71	64	62
	10	78	70	65	61	69	61	68	61	68	61	59

Medium beam, 2500lm Engine, 115.2 lm/W or 114.7 lm/W at 21.4W (Power over Ethernet)

Candela Curve



Frame: **C6RN**
Engine: **C6L25835MZ10U**
Trim: **C6RDLCL**

Output lumens: 2454 lms
Input watts: 21.3 W
CRI: 80 min
CCT¹: 3500K
Spacing Crit.: 0.8
Beam Angle: 55°

Zonal summary

Zone	Lumens	%Luminaire
0-30	1896	77.2%
0-40	2319	94.5%
0-60	2450	99.8%
0-90	2454	100.0%

Angle	Mean CP	Lumens
0	2886	
5	2900	277
10	2903	
15	2809	777
20	2472	
25	1880	842
30	1178	
35	644	423
40	347	
45	153	124
50	23	
55	6	8
60	4	
65	3	3
70	2	
75	1	1
80	1	
85	1	0
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	115	4.0'
6'	80	4.8'
7'	59	5.6'
8'	45	6.4'
9'	36	7.2'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	112.7	0.94
6'	74.0	0.62
7'	52.8	0.44
8'	44.0	0.37
9'	35.2	0.30

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 115.2 lm/w
Report#: F37135

Adjustment factors

Finish	CCT	Lumens
CL = 100%	80CRI 4000K = 102%	6000lm = 240%
CC = 95%	80CRI 3500K = 100%	4800lm = 192%
CD = 87%	80CRI 3000K = 97%	3500lm = 140%
CZ = 63%	80CRI 2700K = 87%	2500lm = 100%
WH = 87%	90CRI 3000K = 77%	2000lm = 80%
BK = 57%	90CRI 2700K = 73%	1500lm = 60%
		1000lm = 40%

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 - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	114	111	109	107	109	105	105	102	101	99	94
	2	108	104	100	97	102	96	99	94	96	92	88
	3	103	97	92	89	96	88	93	87	91	85	82
	4	98	91	86	82	90	81	88	80	86	79	77
	5	94	86	80	76	85	76	83	75	81	74	72
	6	89	81	75	71	80	71	78	70	77	70	68
	7	85	76	70	66	76	66	74	66	73	66	64
	8	81	72	66	62	71	62	70	62	69	62	60
	9	77	68	63	59	68	59	67	58	66	58	57
	10	74	65	59	55	64	55	63	55	63	55	54

1. Correlated Color Temperature within specs as defined in ANSI, NEMA, ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

Job Name:Ecole le Prelude - Music Room
Engineer: JP2G engineering (Pembroke)**Catalog Number:**

C6RN C6L35840MZ10U C6RDLCL

Type:**W3**

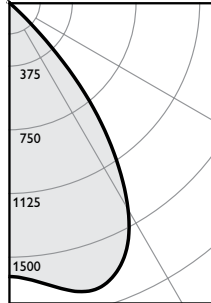
Notes:

ALAND18-1958

C6RDL Calculite LED generation 3

6" round downlight

Wide beam, 2500lm Engine, 108.3 lm/W or 107.8 lm/W at 21.4W (Power over Ethernet)

Candela Curve

Frame: **C6RN**
Engine: **C6L25835WZ10U**
Trim: **C6RDLCL**

Output lumens: 2307 lms
Input watts: 21.3 W
CRI: 80 min
CCT¹: 3500K
Spacing Crit.: 1.1
Beam Angle: 72°

Zonal summary

Zone	Lumens	%Luminaire
0-30	1394	60.4%
0-40	2059	89.2%
0-60	2302	99.8%
0-90	2307	100.0%

Angle	Mean CP	Lumens
0	1612	
5	1641	159
10	1705	
15	1760	495
20	1740	
25	1629	740
30	1408	
35	1083	665
40	700	
45	270	232
50	39	
55	9	12
60	5	
65	3	3
70	2	
75	1	1
80	1	
85	1	1
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	64	5.5'
6'	45	6.6'
7'	33	7.7'
8'	25	8.8'
9'	20	9.9'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	104.1	0.94
6'	68.3	0.62
7'	48.8	0.44
8'	40.7	0.37
9'	32.5	0.30

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 108.3 lm/w
Report²: F37140

Adjustment factors

Finish	CCT	Lumens
CL = 100%	80CRI 4000K = 102%	6000lm = 240%
CC = 95%	80CRI 3500K = 100%	4800lm = 192%
CD = 87%	80CRI 3000K = 97%	3500lm = 140%
CZ = 63%	80CRI 2700K = 87%	2500lm = 100%
WH = 87%	90CRI 3000K = 77%	2000lm = 80%
BK = 57%	90CRI 2700K = 73%	1500lm = 60%
		1000lm = 40%

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 - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
1	113	110	108	105	100	108	104	104	100	100	97	93
2	107	102	98	94	90	93	93	97	91	94	89	85
3	101	94	89	85	80	84	84	90	83	88	81	79
4	95	87	81	77	75	76	76	84	76	82	75	72
5	90	81	75	70	70	70	70	78	69	77	69	66
6	85	75	69	64	64	64	64	73	64	72	63	61
7	80	70	64	59	59	59	59	68	59	67	58	57
8	76	66	59	55	55	55	55	64	54	63	54	52
9	72	61	55	51	51	51	51	60	50	59	50	49
10	68	57	51	47	47	47	47	56	47	55	47	45

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

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philips.com/luminaires

CalculiteLEDgen3_6in_Downlight_C6RDL 09/17 page 6 of 6



Philips Lighting, North America Corporation
200 Franklin Square Drive, Somerset, NJ 08873
Tel. 855-486-2216

Philips Lighting Canada Ltd.
281 Hillmount Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008

MT/MQ/MQM Series

Micro tungsten lamps,
micro-quartz lamps
or MR16 lamps



FEATURES

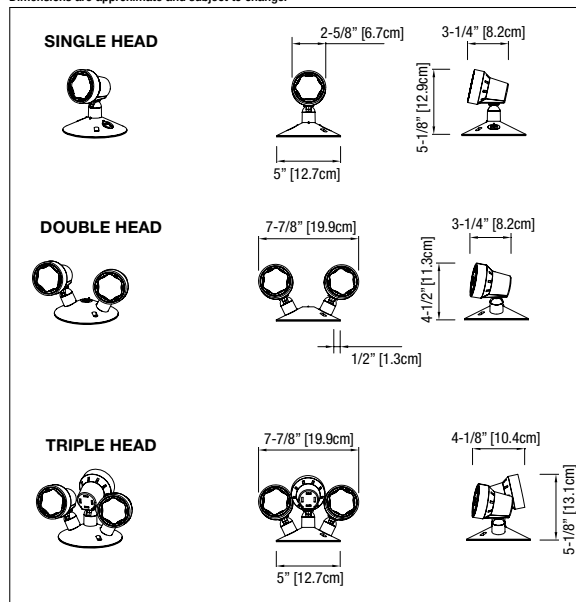
- 6, 12 and 24V with various wattages
- Fire-retardant thermoplastic
- Available with tungsten,
- 300° rotation
- CSA certified to C22.2 No.141-15

See warranty details at: www.tnb.ca/en/brands/lumacell



DIMENSIONS

Dimensions are approximate and subject to change.



TYPICAL SPECIFICATIONS

Lamp head and stem shall be injection molded, impact resistant, flame retardant thermoplastic and shall require no tool for aiming or adjustment. The lens shall be inverse concave design and fully adjustable for aisle or area distribution during installation without the need to energize the lamp. Visual identification of distribution shall be provided through position of adjustment pins.

Fixture shall be supplied with a canopy for installation on any four inch octagon box. Housing shall be designed to allow for lamp replacement if required.

The remote fixtures shall be certified to CSA 22.2 No.141-15.

The remote unit shall be the Lumacell® model: _____

WIRE GUARDS

460.0029-L	Wall ceiling Mount
------------	--------------------

REPLACEMENT LAMPS

MODEL	AC SPECS	DC SPECS
580.0015-L	Halogen (quartz)	12V-12W
580.0097-L	MR16 LED	6V-4W
580.0093-L	MR16 LED	12V-4W
580.0104-L	MR16 LED	24V-4W
580.0098-L	MR16 LED	12V-5W
580.0106-L	MR16 LED	12V-6W
580.0100-L	MR16 LED	24V-6W

See the complete list p. 152-154.

ORDERING INFORMATION

SERIES	LAMP TYPE	NUMBER OF HEADS	VOLTAGE/WATTAGE/LAMP TYPE	COLOURS	
M= micro, PAR 18	T= tungsten, wedge base Q= halogen, bi-pin QM= halogen, MR16 LED	1= single head 2= double head 3= triple head	LD1= MR16 LED, 6V-4W LD7= MR16 LED, 12V-4W LD9= MR16 LED, 12V-5W LD10= MR16 LED, 12V-6W LD13= MR16 LED, 24V-4W LD14= MR16 LED, 24V-6W 6V6W= MR16 halogen, 6V-6W 6V9W= 6V-9W, wedge base 6V10W= MR16 halogen, 6V-10W 12V12W= MR16 halogen, 12V-12W 12V20W= MR16 halogen, 12V-20W 24V12W= MR16 halogen, 24V-12W 24V20W= MR16 halogen, 24V-20W	12V9W= 12V-9W, wedge base 12V18W= 12V-18, wedge base 24V9W= 24V-9, wedge base 24V18W= 24V-18W, wedge base 6V8W= halogen, 6V-8W, bi-pin 6V12W= halogen, 6V-12W, bi-pin 12V8W= halogen, 12V-8W, bi-pin 12V12W= halogen, 12V-12W, bi-pin	Blank= factory white BK= black

EXAMPLE: MT16V9W



RGS Series

6, 12 and 24V

10-year life expectancy, maintenance-free emergency lighting units.

The **RGS Series** battery units combine long-life expectancy, high performance design and a reasonable initial cost outlay. Ideally suited for a range of commercial applications, the long-life lead acid battery is specifically recommended for environments where the unit will be exposed to large variances in ambient temperature.

FEATURES

- Rugged steel cabinet with corrosion-resistant undercoating
- Removable front panel on cabinet provides easy access and allows the unit to be mounted at ceiling height
- Solid-state pulse-type charger – current-limited, temperature-compensated, short-circuit proof and reverse-polarity protected.
- Unit comes standard with electronic lockout and brownout circuits
- Sealed dust-proof transfer relay, test switch and LED indicator lights
- Long-life, maintenance-free Lead-Acid battery
- Standard 120/347VAC input voltage with line cord kit
- Meets exceeds CSA C22.2 No. 141-15

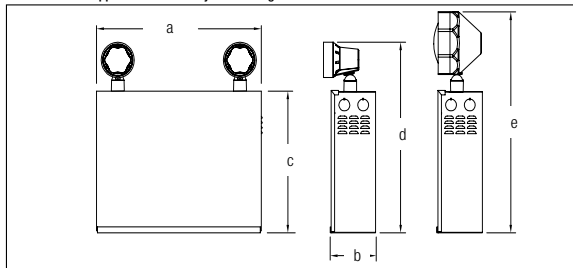
See warranty details at: www.tnb.ca/en/brands/lumacell



CABINET	DIMENSIONS				
	A	B	C	D	E
A	13-1/4" (33.7 cm)	3-5/8" (9.2 cm)	10-1/2" (26.7 cm)	14-1/4" (36.2 cm)	16-1/2" (41.9 cm)
B	16-1/8" (40.9 cm)	5-1/2" (13.9 cm)	10-1/4" (26.0 cm)	13-7/8" (35.2 cm)	16-1/8" (41.0 cm)
C	23-1/8" (58.7 cm)	5-1/2" (13.9 cm)	10-1/4" (26.0 cm)	13-7/8" (35.2 cm)	16-1/8" (41.0 cm)

DIMENSIONS

Dimensions are approximate and subject to change.



TYPICAL SPECIFICATIONS

Supply and install a complete emergency lighting system as described herein and shown on the drawings.

The **Lumacell® Smart Diagnostic** micro-controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120V or 347V, 60 Hz and be CSA listed. The unit shall have an output of: _____V and _____W.

The charger shall be fully computer tested and its charge voltage factory set to ± 1% tolerance. Chargers with field-adjusted potentiometers are not acceptable. A pulse-type charger shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, when the battery is at full capacity, the charger will shut-off.

Periodically the charger shall provide a pulse of energy to keep the battery topped off. The pulse charger shall be precisely regulated and shall charge the battery in relation to its temperature, state or charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected.

The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load when the battery reaches the end of discharge. The unit shall self-test for 1 minute every 30 days, 10 minutes on the 6th month and 30 minutes every 12 months. The unit shall be capable of full recharge in compliance with CSA specifications. The unit shall be furnished with sealed dust tight relay, a test switch and diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnected, Charger Failure, Lamp Failure, Service Alarm, AC "ON", Charger High Rate. The emergency lighting heads shall require no tools for orientation.

The unit shall be CSA 22.2 No.141-15 certified.

The unit shall be **Lumacell®** model: _____

WIRE GUARDS

460.0078-L	Wall Mount	"A" Cabinet
460.0081-L	Wall Mount	"B" Cabinet
460.0034-L	Wall Mount	"C" Cabinet

REPLACEMENT LAMPS

ORDERING CODE	LAMP TYPE	VOLTAGE/WATTAGE
570.0016-L	Mini tungsten (MT9W)	6V-9W
570.0025-L	Mini tungsten (MT9W)	12V-9W
570.0045-L	Mini tungsten (MT9W)	24V-9W
580.0093-L	MR16 LED	12V-4W
580.0104-L	MR16 LED	12V-5W
580.0098-L	MR16 LED	24V-4W
580.0100-L	MR16 LED	24V-6W
580.0106-L	MR16 LED	12V-6W

For the complete list, please see the lamp chart on page 152-154.



Job Name:
Ecole le Prelude - Music Room
Engineer: JPG engineering (Pembroke)

Catalog Number:
RG12S1002LD10AT

Notes:

Type:

EBU

ALAND18-1958



RGS Series
6, 12 and 24V

POWER CONSUMPTION AND UNIT RATING

MODEL	AC SPECS	WATTAGE CAPACITY				
		30 MIN	1H00	1H30	2H00	4H00
RGS36	0.10/0.04A	36	21	15	12	6
RGS72	0.22/0.08A	72	42	30	24	12
RGS108	0.22/0.08A	108	63	45	36	18
RGS180	0.22/0.08A	180	105	75	60	30
RG12S36	0.09/0.03A	36	21	15	12	6
RG12S72	0.15/0.06A	72	42	30	24	12
RG12S100	0.34/0.12A	100	58	42	33	17
RG12S144	0.40/0.14A	144	84	60	48	24
RG12S200	0.41/0.14A	200	117	83	67	33
RG12S250	0.41/0.14A	250	144	100	83	42
RG12S360	0.43/0.15A	360	200	144	108	60
RG24S144	0.55/0.20A	144	84	60	48	24
RG24S200	0.67/0.23A	200	117	83	67	33
RG24S288	0.67/0.23A	288	168	120	96	48
RG24S350	0.67/0.23A	350	200	144	120	60
RG24S432	0.67/0.23A	432	250	180	144	72
RG24S550	0.88/0.33A	550	320	230	180	90
RG24S720	0.88/0.33A	720	420	300	240	120

Note: Units provide higher power for minimum one hour of emergency lighting.

ORDERING INFORMATION

SERIES	CAPACITY & CABINET SIZE*	# OF HEADS	HEADS STYLE/WATTAGE	COLOUR	AC VOLTAGE	OPTIONS
RGS= 6V	36= 36W (A) 72= 72W (A) 108= 108W (A) 180= 180W (B)	Blank= no heads 1= one head 2= two heads 3= three heads	LD1= MR16 LED, 6V-4W LD7= MR16 LED, 12V-4W LD9= MR16 LED, 12V-5W LD10= MR16 LED, 12V-6W LD13= MR16 LED, 24V-4W LD14= MR16 LED, 24V-6W MQM6W= MR16 halogen, 6V-6W MQM10W= MR16 halogen, 6V-10W MQM12W= MR16 halogen, 12V, 24V-12W MQM20W= MR16 halogen, 12V, 24V-20W LH9W= large tungsten, 6V, 12V, 24V-9W, wedge base LH18W= large tungsten, 12V, 24V-18W, wedge base LH25W= large tungsten, 6V, 12V, 24V-25W, DCB MT9W= mini tungsten, 6V, 12V, 24V-9W, wedge base MT18W= mini tungsten, 12V, 24V-18W, wedge base MQ8W= mini halogen, 6V, 12V-8W, bi-pin MQ12W= mini halogen, 6V, 12V, 24V-12W, bi-pin LHQ8W= large halogen, 6V, 12V-8W, bi-pin LHQ12W= large halogen, 6V, 12V-12W, bi-pin LHQ20W= large halogen, 6V, 12V, 24V-20W, bi-pin LHQ55W= large halogen, 12V-55W, H3 LHQ70W= large halogen, 24V-70W, H3 SB8W= large tungsten, 6V-8W, sealed beam SB18W= large tungsten, 6V, 12V-18W, sealed beam SB25W= large tungsten, 6V, 12V-25W, sealed beam QSB8W= large halogen, 6V, 12V-8W, sealed beam QSB12W= large halogen, 6V, 12V-12W, sealed beam QSB20W= large halogen, 6V-20W, sealed beam	Blank= factory white BK= black	Blank= 120/347VAC input ZC= 277VAC input	AT= auto-test* AIN= auto-test, non-audible* NEX= NEXUS® system interface* NEXRF= wireless NEXUS® system interface* V= voltmeter A= ammeter CPS3= constant power supply 3Amps, 24V only (N) CT= cab-tire DPF6= 6cct. fuse panel** LD= lamp disconnect LTS= light activated test switch RFI= radio frequency interference filter, 120VAC (N) RF3= radio frequency interference filter, 347VAC (N) RR2= remote test receiver*** TD= time delay (programmable) TL= cord and twist lock plug (120V only)*** TMBB= AC/DC terminal block TMBD= DC terminal block TMBK= AC terminal block VSR= voltage sensing relay***** (N) * Minimum lamp load required: 20% of unit capacity. * Not all options are available with NEXUS® system. Consult your sales representative. ** Cabinet size may vary, not available with terminal block *** HH2= remote test transmitter (sold separately) **** 120V is standard ***** See voltage sensing relay in battery unit section, B & C cabinet only.
RG12S= 12V	36= 36W (A) 72= 72W (A) 100= 100W (A) 144= 144W (A) 200= 200W (B) 250= 250W (B) 360= 360W (B)					
RG24S= 24V	144= 144W (A) 200= 200W (B) 288= 288W (B) 350= 350W (C) 432= 432W (C) 550= 550W (C) 720= 720W (C)					

EXAMPLE: RGS362MT9W