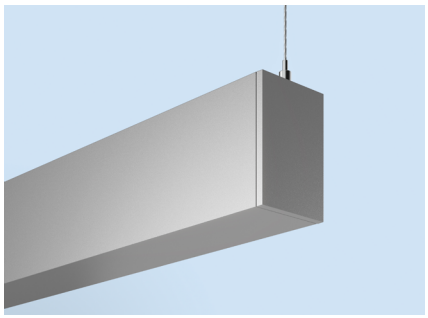
MARK ARCHITECTURAL LIGHTING

SPECIFICATIONS

TYPE:

PROJECT:



SLOT 2

PENDANT INDIRECT

HIGHLIGHTS

- 300 to 1500 lumens per foot Indirect
- Up to 163 Lumens per Watt
- 3 indirect distributons: Lambertian, Batwing or Asymmetric
- Optional Top Glow lens treatment
- Integrated control with optional nLight or nLight Air for system networking
- Driver options for Dim to Dark, 1% or 10% minimum dimming
- White, black or silver paint with satin finish
- Declare listed
- UGR is less than 10 for fixtures with 100% indirect only optics per CIE 117-1995 Discomfort Glare in Interior Lighting.

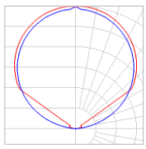
FIXTURE PERFORMANCE

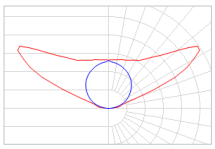
	Indirect							
Nominal Lumens/Foot	300LMF	400LMF	600LMF	800LMF	1000LMF	1200LMF	1400LMF	1500LMF
Delivered Lumens/Foot	315	394	594	788	990	1183	1388	1530
Input Watts/Foot	1.95	2.56	3.82	4.84	6.17	7.51	8.94	9.75
Lumens/Watt	162	154	156	163	160	158	155	157

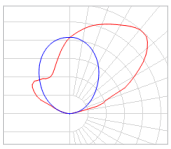
Based on a 4ft 35K fixture with standard lambertian distribution

BAA BABA LOW DGR Declare. nLIGHT eldoLED

INDIRECT DISTRIBUTION

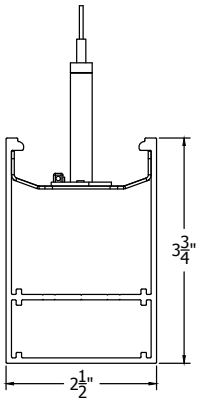

Lambertian (No Optic)


Batwing (BW)

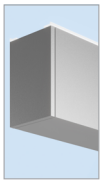

Asymmetric (AS)

DIMENSIONS

See page 5 for additional details.



DIFFUSERS/SHIELDING


Top Glow (TGLD)

AcuityBrands.

MARK ARCHITECTURAL LIGHTING™

Slot 2
Pendant Indirect

ORDERING

Example: S2PI LLP 32FT MSL8 I90CRI I35K I1200LMF MIN1 FLL SCT MVOLT WHTT ZT F1/36A RDCY WHTCY WCRD

Series

S2PI	Slot 2 Pendant Indirect (Formerly S2LI)

Linear Plan

LLP	Linear Longest Possible
LCB	Linear Center Balanced
LSL	Longest Same Length

For more information on linear plans, see page 4.

Total Run Length

_FT	Specify Continuous Run Length (in 1" increments, 2' minimum)

Unit length may affect available options.

For runs longer than 8FT: ALWAYS order the run by the TOTAL RUN LENGTH. Ordering the sections individually will not provide the correct joining hardware to allow connection in the field.

Max Section Length

MSL2	2FT Length
MSL3	3FT Length
MSL4	4FT Length
MSL5	5FT Length
MSL6	6FT Length
MSL7	7FT Length
MSL8	8FT Length

Indirect Light Source Color Rendering

I80CRI	80CRI
I90CRI	90CRI

Indirect LED Color Temp

I27K	2700K
I30K	3000K
I35K	3500K
I40K	4000K
I50K	5000K

Indirect Lumen Output

I300LMF	300 Lumens per FT
I400LMF	400 Lumens per FT
I600LMF	600 Lumens per FT
I800LMF	800 Lumens per FT
I1000LMF	1000 Lumens per FT
I1200LMF	1200 Lumens per FT
I1400LMF	1400 Lumens per FT
I1500LMF	1500 Lumens per FT
_LMF	Specify Lumens between 300LMF - 1500LMF in 50LMF increments

Indirect Distribution

(blank)	Lambertian
BW	Batwing Distribution
AS	Asymmetrical Distribution

Indirect Distribution options are only available in whole foot increments. They are not available with E10WLCP, GTD or sensors.

Switching

SCT	Single Circuit

Minimum Dimming Level

NODIM[1]	Non Dimming
MIN1	Constant Current, Dimming To 1%
MIN10[2]	Constant Current, Dimming To 10%
DARK	Constant Current, Dimming To 0.1%

1. Not available with Control Input options.
2. MIN10 is not available with DALI, ECOD or ECOD2.

Indirect Shielding

(blank)	No Indirect Shielding
TGLD[1]	Top Glow Lens
DC	Dust Cover, Clear
DCF	Dust Cover, Frosted

1. TGLD is only available in whole foot increments. It's not available with E10WLCP or NLTAIR2.

Voltage

MVOLT	Multi-Volt, 120-277
120	120V
277	277V
347[1]	347V

1. 347 & DCT are not available under 4'. 347 is only available with ZT. 347 is not available with emergency options or sensors.

Finish

WHTT	White (Satin)
BLKT	Black (Satin)
SLVT	Silver (Satin)
RALTBD[1]	RAL Paint Finish

RALTBD is for pricing only. Replace with applicable RAL number & finish when placing order.

Secondary Power Options

(blank)	No Secondary Power Options
_E10WLCP[1]	# of 10W Battery Packs, Constant Power, Self Diagnostics, T20 Compliant
WEC	Emergency Circuit for Entire Run
_EC[2]	# of Emergency Circuits
GTD[3]	Generator Transfer Device (Remote mounted)

1. E10WLCP is not available in units under 4'. E10WLCP with NLTAIR2 is only available in units 7'-8'.
2. EC powers entire unit.
3. GTD is remote mounted. (See more information on page 9.) GTD is not available with MVOLT or 347.

Control Input

(blank)	Non-Dimming
ZT	0-10V
NLIGHT	nLight Wired
NLTAIR2[1]	nLight Air 2 Wireless Enabled
DALI[2]	DALI
ECOD[3]	Lutron EcoSystem Digital Driver

1. NLTAIR2 can be used as a normal power sensing device for nLight Air devices and luminaires with EM emergency options. It is not available with NODIM. NLTAIR2 with DCT fixtures cannot be less than 4'.
2. DALI is only available with DARK.
3. ECOD is only available with MIN1. It is not available with E10WLCP & sensors. It is only available with 300LMF, 600LMF, 1000LMF or 1500LMF.

Mounting Type

F1/	T-Bar Ceiling with Universal Mounting Bracket
F1A/	T-Bar Ceiling with Universal Mounting Bracket & Integrated J-Box
F2/	Hard Ceiling

Suspension Length

36A	36" Adjustable
72A	72" Adjustable
144A	144" Adjustable
240A	240" Adjustable
300A	300" Adjustable

Canopy Form

RDCY	Round Canopy
SQCY	Square Canopy

Canopy Color

BLKCY	Black Canopy
WHTCY	White Canopy
SLVCY	Silver Canopy

Cord Color

WCRD	White Cord
BCRD[1]	Black Cord

CAT5 cord, when included, will be white.
1. Black cord is not available with 300A.

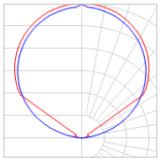
Options

(blank)	No Options
MCS	Matching Support Canopy
PIF[1]	Feed Cord Installed
BAA	Buy America(n) Act and/or Build America Buy America Qualified

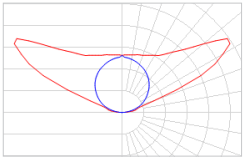
1. Cord length will match overall suspension length specified.

NOTE: *Unit length and lumen outputs may affect available options.*

PHOTOMETRICS



Test Report: ISF 221790P181
IES LM79-08
S2PI U4 I80CRI I35K I1000LMF
Lumens: 4106.6
Wattage: 24.76
Efficacy: 165.86



Test Report: ISF 221784P181
IES LM79-08
S2PI U4 I80CRI I35K I1000LMF BW
Lumens: 2915.9
Wattage: 24.67
Efficacy: 118.20

EXPECTED LIFE: L90 @ 60,000 HOURS
CALCULATED LIFE: L80 @ 120,000 HOURS

CCT SCALING CHART

CCT	CRI	MULTIPLIER
27K	80CRI	0.94
30K	80CRI	0.97
35K	80CRI	1.00
40K	80CRI	1.02
50K	80CRI	1.03
27K	90CRI	0.79
30K	90CRI	0.81
35K	90CRI	0.83
40K	90CRI	0.84
50K	90CRI	0.89

Lumen scaling charts can be used to approximate the lumen values at different Kelvin temperatures, color rendering indices, optics or sheilding.
Example: Find base lumen value x multiplier value = new lumen value

OPTICAL SCALING CHARTS

UPLIGHT	
DISTRIBUTIONS	**MULTIPLIER**
BW	0.74
AS	0.79
SHIELDING	**MULTIPLIER**
TGLD	0.9
DC	0.88
DCF	0.86

LINEAR PLAN

Mark Lighting offers the ability to provide a continuous run plan to suit your requirements by optionally offering three different methods of configuration.

LLP- Linear Longest Possible

In this configuration, the longest length available is optimized, resulting in the fewest segments and mounting locations. Caution should be used where balanced appearance is a concern. Example: 20 FT run would have 2, 8 FT segments and 1, 4 FT segment at the end of the run.

LLP	8 FT	8 FT	4FT

LCB- Linear Center Balanced:

This configuration incorporates the longest center segment(s) along with any additional lengths required to fill the run length, added to the run ends. Example: 16 FT run would have 2, 4 FT segments (one at each end) and 1, 8 FT segment in the center.

LCB	4 FT	8 FT	4FT

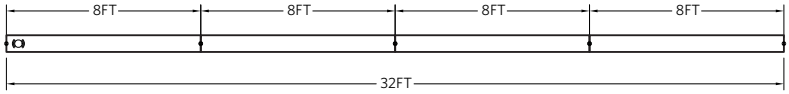
LSL- Linear Same Length:

In this configuration, each segment is the same length and is standardized based on the longest length available and is the only option provided. Because it is dependent on one segment length and there are mathematical limitations on what overall row lengths can be achieved. Example: 20 FT row would be achieved with 5, 4 FT long segments equaling 20 FT (nominal).

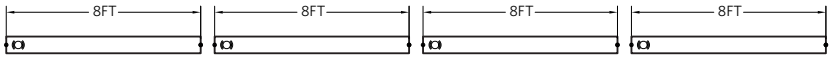
LSL	4FT	4FT	4FT	4FT	4FT

Total Run Length

This system is not modular. Runs longer that 8FT will be automatically configured with left, intermediate and right sections, based on how you specify the TOTAL RUN LENGTH and MAXIMUM SECTION LENGTH parameters in the ordering information. Always order the total run length, not the individual sections.



Example: This run must be ordered as 1pc "S2PI LLP 32FT MSL8..."

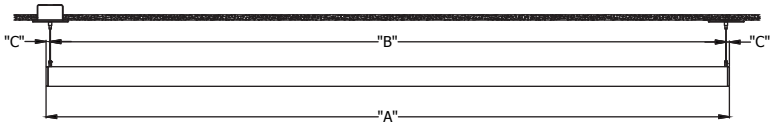


Example: If you order as 4pcs "S2PI LLP 8FT MSL8... you will receive these INDIVIDUAL sections that cannot be joined together

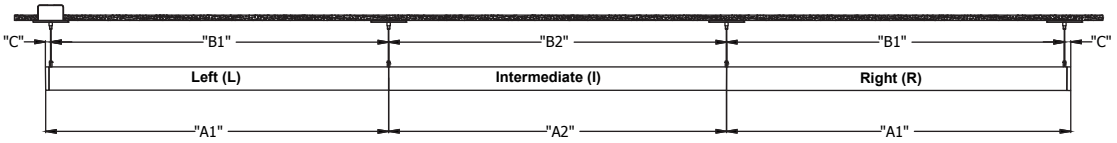
Maximum Section Length

The run will be broken out using as many sections at the chosen maximum section length as possible. Shorter sections will then complete the desired run length.

Examples:
S2PI LLP 21FT MSL5... = 5FT / 4FT / 4FT / 4FT / 4FT
S2PI LLP 21FT MSL6... = 6FT / 6FT / 5FT / 4FT
S2PI LLP 21FT MSL7... = 7FT / 7FT / 7FT
S2PI LLP 21FT MSL8... = 8FT / 8FT / 5FT



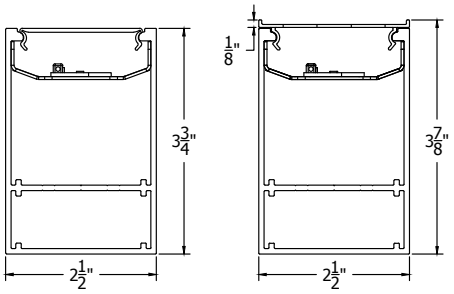
INDIVIDUAL FIXTURES				
ORDERED LENGTH	"A" O.A.L.	"B" O.C.	"C" FROM END	APPROX. WEIGHT
2FT	2'- 0 9/16"	1'- 11 13/16"	3/8"	1.6 LBS
3FT	3'- 0 9/16"	2'- 11 13/16"	3/8"	2.4 LBS
4FT	4'- 0 9/16"	3'- 11 13/16"	3/8"	3.2 LBS
5FT	5'- 0 9/16"	4'- 11 13/16"	3/8"	4 LBS
6FT	6'- 0 9/16"	5'- 11 13/16"	3/8"	4.8 LBS
7FT	7'- 0 9/16"	6'- 11 13/16"	3/8"	5.6 LBS
8FT	8'- 0 9/16"	7'- 11 13/16"	3/8"	6.4 LBS



RUN LAYOUT						
ORDERED LENGTH	"A1" O.A.L.	"A2" O.A.L.	"B1" O.C.	"B2" O.C.	"C" FROM END	APPROX. WEIGHT
4FT	4'- 0 1/4"	4'-0"	3'- 11 15/16"	4'-0"	3/8"	3.2 LBS
5FT	5'- 0 1/4"	5'-0"	4'- 11 15/16"	5'-0"	3/8"	4 LBS
6FT	6'- 0 1/4"	6'-0"	5'- 11 15/16"	6'-0"	3/8"	4.8 LBS
7FT	7'- 0 1/4"	7'-0"	6'- 11 15/16"	7'-0"	3/8"	5.6 LBS
8FT	8'- 0 1/4"	8'-0"	7'- 11 15/16"	8'-0"	3/8"	6.4 LBS

SHIELDING, OPTICS & CONNECTORS

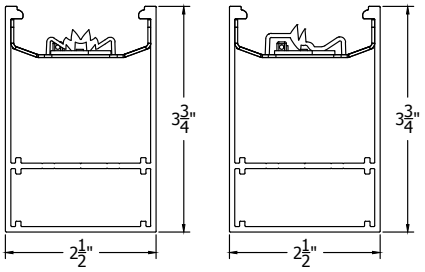
Indirect Shielding



Dust Cover (DC, DCF)

Top Glow (TGLD)

Indirect Optics

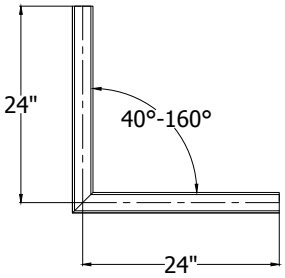


Batwing (BW)

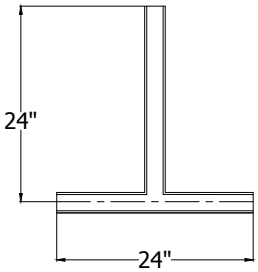
Asymmetric (AS)

Run Patterns, Corners and Junction

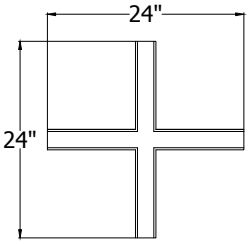
Patterns can be configured in 1' increments with illuminated L, T & X connectors with standard 2' corner. L connectors are available in 40-160 degrees in 1 degree increments. T & X connectors available in 90 degrees. For custom angles, corner or junction lengths, consult factory.
See separate pattern spec sheet for more details.



L Connector



T Connector



X Connector

MOST COMMON MOUNTING TYPES AND OPTIONS
Options available for this specific luminaire are checked in the boxes below.

Mounting Type

F1/ For use with most T-Bar and screw slot grid ceilings. Designed for on-grid and off-grid applications. (J-box by others)

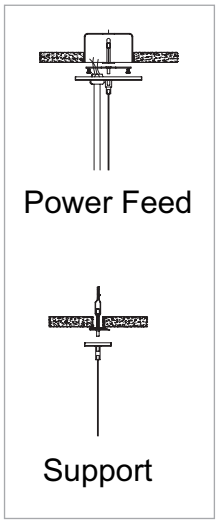
F1A/ For use with most T-Bar grid ceilings. Designed for on-grid applications. *Comes complete with J-box with built-in cutout to go over grid*

F2/ For use with recessed or surface mount horizontal J-box applications. (J-box by others)

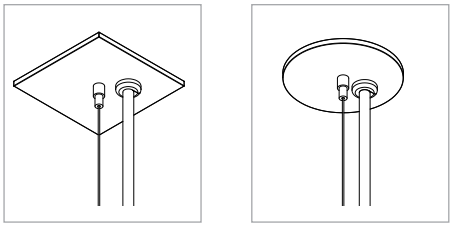
Mounting Options

MCS MCS canopy supplies 5" canopy to match feed point canopy size. Matching canopy at support for aesthetics.

PIF Feed cord installed in fixture.

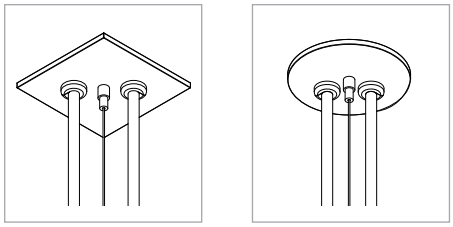


Mounting with Feed (SPSW1FK)



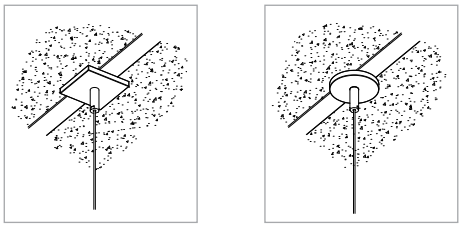
5" Square 5" Round

Mounting with Dual Feed (SPSW2FK)



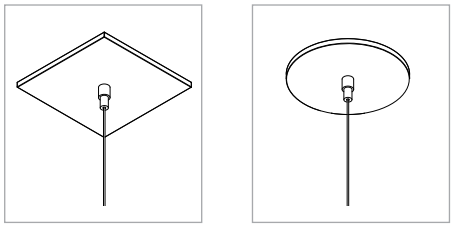
5" Square 5" Round

Mounting Support (SPSWSK)



2" Square 2" Round

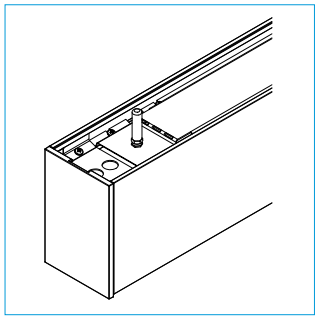
MCS Option



5" Square 5" Round

nLight Air Wireless Antenna Location

Note: Antenna will be shipped separately and will need to be attached to the coax connector.



INTELLIGENT LUMINAIRE TECHNOLOGY GUIDE

Choose nomenclature from these columns

Driver Configurations

Minimum Dimming Level		Control Input	Dimming Range	Notes
NO DIM	+	(blank)	-	No 0-10V leads from the driver.
MIN10	+	ZT	100 to 10%	
MIN1	+	ZT	100 to 1%	
MIN1	+	NLIGHT	100 to 1%	
MIN1		ECOD	100 to 1%	Lutron Hi-lume 1% EcoSystem LED Driver with Soft-on, Fade-to-Black (model LDE1)
DARK		ZT	100 to 0.1%	
DARK		NLIGHT	100 to 0.1%	
DARK		DALI	100 to 0.1%	"Compatible with DALI. Formerly (EDB & EDAB) nomenclature." Logarithmic dimming

Choose nomenclature from these columns

Control / Sensor Configurations

Control Input		Sensor		Sensor	Notes
ZT	+	ADC	=	MSD ADC	Automatic dimming control integral photocell.
ZT	+	PDT	=	MSD PDT 7	Dual technology integral occupany sensor.
ZT	+	APIR	=	MSD 7 ADC	PIR integral occupancy sensor with automatic dimming control photocell.
ZT	+	APDT	=	MSD PDT 7 ADC	Dual technology integral occupany sensor with automatic dimming control photocell.
NLIGHT	+	(blank)	=	nIO EZ PH	nLight enabled only. No onboard sensor.
NLIGHT	+	ADC	=	nIO EZ PH + nES ADCX	Automatic dimming control integral photocell. nLight enabled.
NLIGHT	+	PDT	=	nIO EZ PH + nES PDT 7	360° Dual technology integral occupany sensor. nLight enabled.
NLIGHT	+	APIR	=	nIO EZ PH + nES 7 ADCX	360° PIR integral occupancy sensor with automatic dimming control photocell. nLight enabled.
NLIGHT	+	APDT	=	nIO EZ PH + nES PDT 7 ADCX	360° Dual technology integral occupany sensor with automatic dimming control photocell. nLight enabled.
NLTAIR2	+	(blank)	=	RIO EZDL EXT900 ACWH 90D G2	nLight AIR enabled only. No onboard sensor.
NLTAIR2	+	APIR	=	RES7 EXT900 ACWH 90D G2	PIR integral occupancy sensor with automatic dimming control photocell. nLight AIR enabled.
NLTAIR2	+	APDT	=	RES7 PDT EXT900 ACWH 90D G2	Dual technology integral occupany sensor with automatic dimming control photocell. nLight AIR enabled.

For more information, please consult our technical guides for nLight or nLight Air.

UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CL**AIR**ITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

nLight® Wired Control Accessories
Order as separate catalog number

Wall Switches	Model Number
On/Off single pole	nPODMA (color)
On/Off two pole	nPODMA 2P (color)
On/Off single pole, dimming	nPODMA DX (color)
On/Off two pole, dimming	nPODMA 2P DX (color)
On/Off, two level	nPODMA 2L (color)
Graphic touchscreen	nPOD TOUCH (color)

For more information see nPOD and nPOD TOUCH spec sheets

nLight AIR® Control Accessories
Order as separate catalog number

Wall Switches	Model Number
On/Off single pole	rPODBA (color)
On/Off two pole	rPODBA 2P (color)
On/Off single pole, dimming	rPODBA DX (color)
On/Off two pole, dimming	rPODBA 2P DX (color)
On/Off, 4 scene control	rPODBA 4S (color)

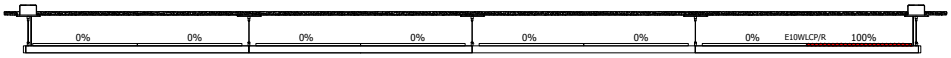
For more information see rPOD spec sheets

SECONDARY POWER OPTION

Battery Packs

The PS1055LCP battery is integral to the fixture and comes standard with a remote test switch and self-diagnostics.
Only direct light portion operated by emergency, as indicated below.

E10WLCP

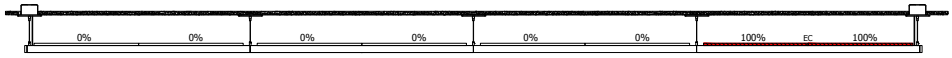


(DEFAULT LOCATION OF E10WLCP IS THE LAST 3' OR 4' SECTION IN RUN)

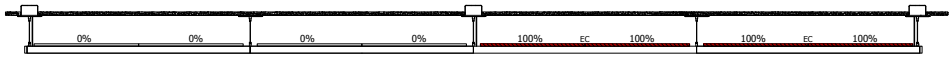
Multiple E10WLCP

Secondary Circuits

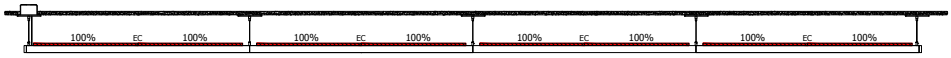
EC



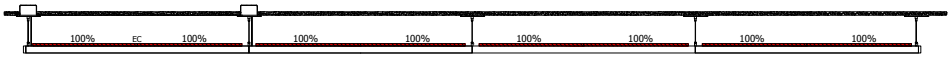
Multiple EC



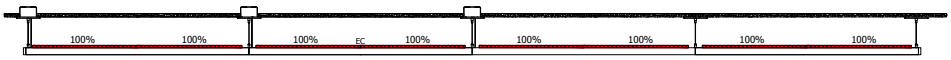
WEC



(WHOLE RUN ON SECONDARY POWER)



(WHOLE RUN ON SECONDARY POWER NLIGHT PP IN FIRST FIXTURE)



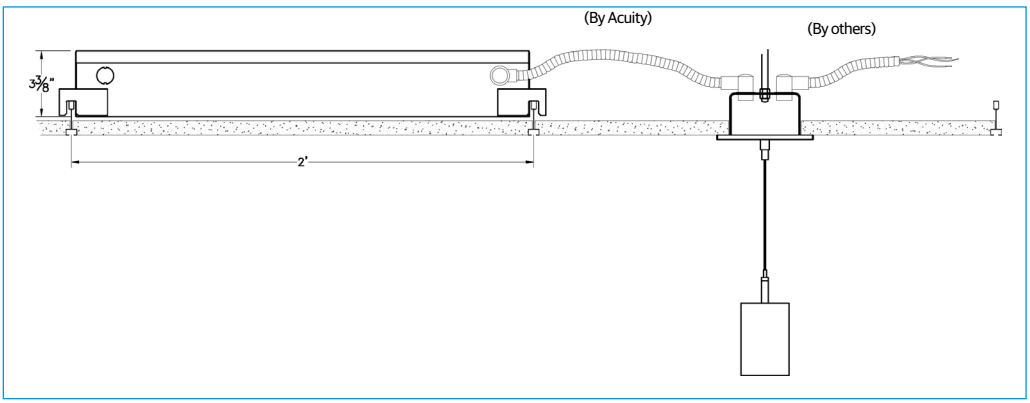
(WHOLE RUN ON SECONDARY POWER NLIGHT PP IN SECOND FIXTURE)

How to Estimate Delivered Lumens in Emergency Mode
Use the formula below to estimate the delivered lumens in emergency mode
Delivered Lumens = 1.25 x P x LPW
P = 10W for PS1055LCP
LPW = Lumen per watt rating of the luminaire This information is available on page 1 of this spec sheet or appropriate IES file.

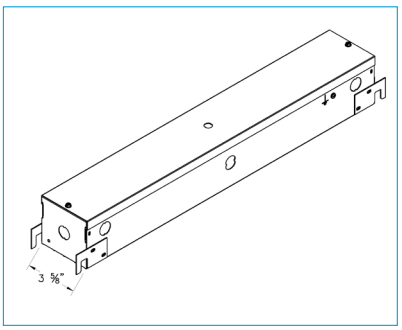
Section Length	E10WLCP	EC
U2	None	Entire unit
U3	None	Entire unit
U4	Entire unit	Entire unit
U5	Last 3'	Entire unit
U6	Last 3'	Entire unit
U7	Last 4'	Entire unit
U8	Last 4'	Entire unit

Remote GTD Mounting Option

Recessed in ceiling. Consult factory for other ceiling types or canopy options.
6 foot flexible conduit included, GTD option should be mounted within 6 feet of junction box above fixture.



Accessible Ceiling



SPECIFICATIONS

Housing
One-piece extruded aluminum housing

Finish
Standard colors for fixtures and end caps are polyester powder coated white, black, or silver with satin sheen. Consult factory for custom colors and RAL color options.

Optics (Distribution)
Indirect batwing (BW) and Asymmetric (AS) distributions incorporate injection molded, optical grade, UV-resistant acrylic optic.

Lenses/Shielding
Indirect: Clear acrylic, dust cover (DC), frosted, acrylic dust cover (DCF), Extruded acrylic top glow lens (TGLD).

LED Components
Multiple lumen packages available with 2700K, 3000K, 3500K, 4000K and 5000K CCT. The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. The color a variation of no greater than a 2.5 Step MacAdam (2.55DECM) along the black body locus from board to board.

Electrical
Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 90% LED lumen maintenance at 60,000 hours (L90/60,000).

Controls System Networking Options
Optional integrated nLight® controls make each fixture addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors, and photocontrols. Connection to nLight is simple. It can be accomplished with remote nLight AIR wireless or through standard Cat-5 cabling. (cabling "by others") nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other, while nLight AIR is commissioned easily through an intuitive mobile app.

Battery (Optional)
Integral emergency battery (E10WLCP) for 90 minutes of operation. Emergency battery pack, 10W, Linear Constant Power Certified in CA Title 20 MAEDBS.

Remote generator transfer device (GTD) works in conjunction with an auxiliary generator or a central inverter system to power fixtures for safe egress lighting.

Dimming Drivers
Factory tuned constant current electronic dimming driver is standard. Flicker free dimming available down to <1%. LED drivers perform within the recommended operating areas for flicker as a function of frequency and modulation (%) IEEE Standard 1789-2015 (IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers), in typical operating conditions at representative dimming levels. Electrical specifications at maximum driver load: PF > 0.9 and THD <20%. Meets FCC Title 47 Class A or Class B. Other available drivers include Lutron and DALI protocol drivers. All drivers are RoHS compliant.

Environment
Suitable for damp location. Indoor use only.

Certification
CSA certified to meet U.S. and Canadian standards (UL1598 and UL8750).

Ambient Operating Temperature
-20°C (-4° F) to +25°C (+77°F).

Government Procurement
BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

Fixture Weight
0.8 lbs per foot, less packaging.

Warranty
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: *Actual performance may differ as a result of end-user environment and application.*
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

