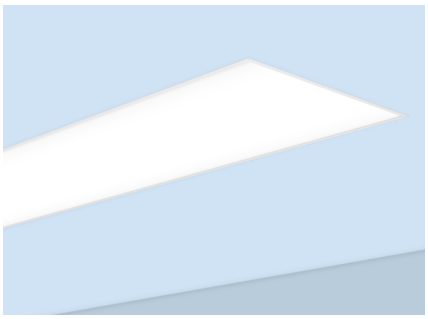
MARK ARCHITECTURAL LIGHTING

SPECIFICATIONS

TYPE:

PROJECT:



SLOT 6

RECESSED
TUNABLE WHITE

HIGHLIGHTS

- 300 to 1300 lumens per foot Direct
- Two lens depths: 0D (Flush) and 1D (1" Regress)
- 3 direct distributions: Lambertian, Batwing, or Asymmetric
- Two lens treatment options: Continuous and Flush
- Mainstream Dynamic Tunable White with nTune™ Technology
- White, black or silver paint with satin finish
- UGR data available on page 4.

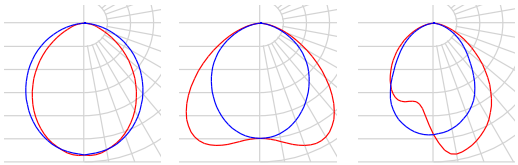
FIXTURE PERFORMANCE

	Direct											
Nominal Lumens/Foot	300LMF			400LMF			600LMF			800LMF		
CCT	27K	46K	65K	27K	46K	65K	27K	46K	65K	27K	46K	65K
Delivered Lumens/Foot	277	250	292	393	350	393	595	549	595	797	747	797
Input Watts/Foot	2.52	2.50	2.50	3.52	3.28	3.28	5.51	4.84	4.84	7.50	6.41	6.41
Lumens/Watt	110	100	117	112	107	120	108	113	123	106	117	124

	Direct								
Nominal Lumens/Foot	1000LMF			1200LMF			1300LMF		
CCT	27K	46K	65K	27K	46K	65K	27K	46K	65K
Delivered Lumens/Foot	997	946	999	1186	1145	1184	1280	1244	1276
Input Watts/Foot	9.09	7.82	8.84	11.40	9.78	11.03	12.56	10.77	12.13
Lumens/Watt	110	121	113	104	117	107	102	116	105

Based on a 4FT 90CRI TUWH RHYR (27K-65K) fixture with 0" depth lens regress (OD), standard lambertian distribution, and flush lens (FLL)

DIRECT DISTRIBUTION

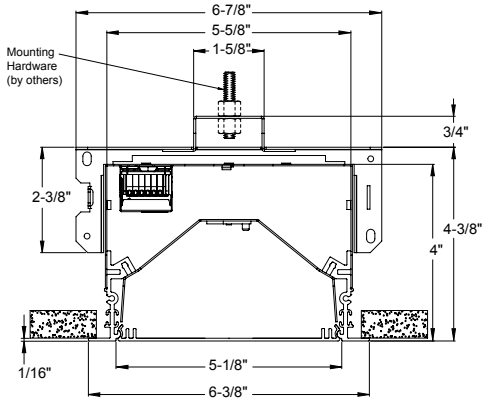


Lambertian (no optic) | Batwing (DBW) | Asymmetric (DAS)

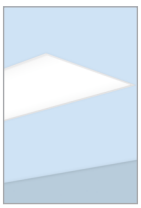
DIMENSIONS

Section View

FL Trim with OD Lens Regress



DIFFUSERS/SHIELDING



Flush Lens (FLL)

Continuous Lens (CLL) *40-foot maximum uninterrupted length

MARK ARCHITECTURAL LIGHTING™

Slot 6
Recessed
Tunable White

ORDERING

Example: S6RD LOP 12FT3.75 1D FL 90CRI TUWH RHYR 1000LMF SCT DARK CLL MVOLT BLKT NLT CP

Series
S6RD Slot 6 Recessed Direct

Linear Plan
LOP Optimized Length

Total Run Length
_FT_ Specify continuous linear feet to nearest 1/8" increments starting at 2FT (Example 24' - 6 1/8" = 24FT6.125)

_FT[1] Specify continuous linear feet to whole foot increments starting at 2FT (Example: 24' = 24FT)

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 run connections in the field.

1. Use whole foot increment when using sensors or zoning options.

Lens Regress Depth
0D 0" Depth

1D[1,2,3] 1" Depth

1. Available with FLL or CLL Optional Shielding only.
2. Not available with Direct Distribution options.
3. Not available with FLINB or GBINB.

Ceiling Type
FL 5/8IN Flange (sheetrock)

GB Gypsum Board (sheetrock)

FLINB 5/8IN Flange (sheetrock) Install From Below

GBINB Gypsum Board (sheetrock) Install From Below

TG Grid Ceiling: 9/16" Flat Tee with Lay-In Tile, 9/16" Flat Tee with Tegular Tile, 9/16" Slot Tee with Tegular Tile, 15/16" Flat Tee with Lay-In Tile, & 15/16" Flat Tee with Tegular Tile

FLW[1] 5/8IN Flange (sheetrock) Wall Mounted

GBW[1] Gypsum Board (sheetrock) Wall Mounted

1. When using FLW or GBW options, FLW will change to FL & GBW will change to GB for shipping lines to designate same fixture as ceiling mounted units.

*For compatibility with metal pans, hardwood, or other ceiling types, consult technical support.

Direct Light Source Color Rendering
90CRI 90CRI

Direct Dynamic Feature
TUWH Tunable White

Direct Dynamic Range
RHYR Rhythm Range (2700K-6500K)

Direct LED Light Output
300LMF 300 Lumens per Foot

400LMF 400 Lumens per Foot

600LMF 600 Lumens per Foot

800LMF 800 Lumens per Foot

1000LMF 1,000 Lumens per Foot

1200LMF 1,200 Lumens per Foot

1300LMF 1,300 Lumens per Foot

_LMF Specify Lumens between 300LMF and 1300LMF in 50LMF increments

Direct Distribution[1]
<blank> Lambertian

DAS Direct asymmetric distribution

DBW Direct Batwing Distribution

1. Direct Distribution options are only available with FLL Direct Shielding and OD Lens Regress Depth option.

Switching
SCT Single Circuit

Minimum Dimming Level
DARK Constant Current, Dimming to 0.1%

Optional Shielding
CLL[1,3] Continuous Flush Lens

FLL[2] Flush Lens

1. CLL is not available with DAS or DBW distributions.
2. When using distribution options, FLL will change to FLLC to designate a co-extruded lens with white and clear material.
3. 40-foot maximum uninterrupted length.

Voltage
MVOLT 120-277V

120[1] 120V

277[1] 277V

1. Required with GTD option.

Finish
WHTT White (Satin)

AMF Antimicrobial White

BLKT Black (Satin)

SLVT Silver (Satin)

RALTBD[1] RAL Paint Finish

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

Emergency Options
<blank> No Emergency Option

_E10WLCP[1] Total number of 10W Battery Packs, Constant Power, Self Diagnostic, T20 Compliant

_RE10WLCP Total Number of Remote 10W Battery Packs, Constant Power, Self Diagnostics, T20 Compliant

_EC Total Number of Emergency Circuits

GTD[2] Generic Transfer Device

1. E10WLCP is not available in units 2' to 3'-11-7/8", 4'-0-1/8" to 4-11-7/8", or with 1D, LVRR, LVRRA, DRP05, DRP1, or DRP15 options.
2. GTD is remote mounted. GTD is not available with CP option and requires 120 or 277 voltage specified.
3) Available with maximum 1000LMF for complete linear run.

Control Input
NLT nLight nTune Device

Primary Sensor or Zone[1,2]
<blank> No Sensor or Primary Zone Option

NS_ Primary Zone with No Sensor (Specify zone length in feet.)

ADC_ Daylight Dimming Sensor with Primary Zone Length (Specify zone length in feet.)

PDT_ Dual Technology Occupancy Sensor, PIR and Microphonics Sensor with Primary Zone Length (Specify zone length in feet.)

APIR_ Passive Infrared Occupancy and Daylight Dimming Sensor (Specify total zone length in feet.)

APDT_ Dual Technology Occupancy and Daylight Dimming Sensor (Specify total zone length in feet.)

1. Sensors are only available with OD and FLL.
2. Available with FLINB & GBINB in maximum 1000LMF.

Secondary Sensor or Zone[1,2]
<blank> No Sensor or Secondary Zone Option

SNS_ Secondary Zone with No Sensor (Specify zone length in feet.)

SADC_ Daylight Dimming Sensor with Secondary Zone (Specify zone length in feet.)

SPDT_ Dual Technology Occupancy Sensor, PIR and Microphonics Sensor with Secondary Zone (Specify zone length in feet.)

SAPIR_ Passive Infrared Occupancy and Daylight Dimming Sensor (Specify total zone length in feet.)

SAPDT_ Dual Technology Occupancy and Daylight Dimming Sensor (Specify total zone length in feet.)

1. Sensors are only available with OD and FLL.
2. Available with FLINB & GBINB in maximum 1000LMF.

Tertiary Zone Indicator
<blank> No Tertiary Zone

TNS_ Tertiary Zone (Specify zone length in feet.)

Options
<blank> No Options

WL[1,2,3,4] Wet Location

CP Chicago Plenum

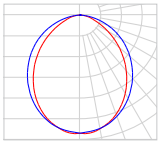
BAA Buy America(n) Act and/or Build America Buy America Qualified

1. Lens is not sealed or gasketed.
2. Not available for vertical surface installation.
3. Available as individual fixture sections, starting at 2FT through 8FT maximum run length.
4. Not available with E10WLCP.

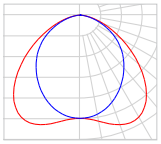
MARK ARCHITECTURAL LIGHTING™

Slot 6
Recessed
Tunable White

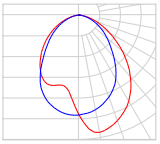
PHOTOMETRICS



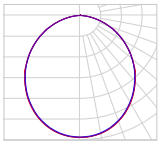
Test Report: ISF25 000625AP8131
IES LM79-08
Catalog #: S6RD 4FT OD 90CRI TUWH RHYR @46K 1000LMF STD FLL
Lumens: 3784
Wattage: 31.29
Efficacy: 120.93



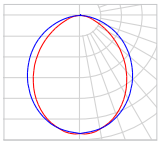
Test Report: ISF25 036529P1205
IES LM79-08
Catalog #: S6RD 4FT OD 90CRI TUWH RHYR @46K 1000LMF DBW FLLC
Lumens: 3764
Wattage: 31.29
Efficacy: 120.29



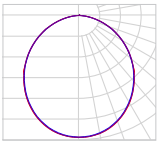
Test Report: ISF25 024633P2220
IES LM79-08
Catalog #: S6RD 4FT OD 90CRI TUWH RHYR @46K 1000LMF DAS FLLC
Lumens: 4114
Wattage: 31.29
Efficacy: 131.48



Test Report: ISF25 024629P3207
IES LM79-08
Catalog #: S6RD 4FT OD 90CRI TUWH RHYR @46K 1000LMF STD CLL
Lumens: 3751
Wattage: 31.29
Efficacy: 119.88



Test Report: ISF25 000770P5364
IES LM79-08
Catalog #: S6RD 4FT 1D 90CRI TUWH RHYR @46K 1000LMF STD FLL
Lumens: 3574
Wattage: 31.29
Efficacy: 114.22



Test Report: ISF25 024629P3282
IES LM79-08
Catalog #: S6RD 4FT 1D 90CRI TUWH RHYR @46K 1000LMF STD CLL
Lumens: 3541
Wattage: 31.29
Efficacy: 113.17

PROJECT LED LUMEN MAINTENANCE

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	10,000	60,000	100,000
Lumen Maintenance Factor	1	0.98	0.84	0.75

REGRESS DEPTH SCALING CHART

LENS REGRESS DEPTH	MULTIPLIER
0D	1.00
1D	0.94

**Base fixture with Lambertian distribution, 0" depth lens regress (OD), and flush lens (FLL)*

OPTICAL SCALING CHARTS

DISTRIBUTIONS	MULTIPLIER
LAMBERTIAN	1.00
DBW	0.99
DAS	1.09
SHIELDING	**MULTIPLIER**
CLL	0.99
FLL	1.00

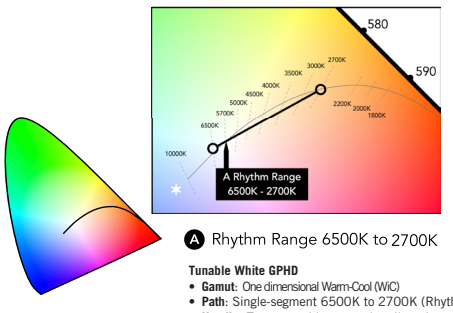
**Base fixture with Lambertian distribution and flush lens (FLL)*

50LMF INCREMENT SCALING CHART

	LUMEN	WATTAGE
NOMINAL LMF	MULTIPLIER	MULTIPLIER
300LMF	0.31	0.30
350LMF	0.36	0.35
400LMF	0.41	0.40
450LMF	0.46	0.45
500LMF	0.52	0.50
550LMF	0.57	0.54
600LMF	0.62	0.59
650LMF	0.67	0.64
700LMF	0.72	0.69
750LMF	0.76	0.75
800LMF	0.81	0.80
850LMF	0.86	0.85
900LMF	0.91	0.90
950LMF	0.96	0.95
1000LMF	1.00	1.00
1050LMF	1.06	1.05
1100LMF	1.11	1.10
1150LMF	1.16	1.17
1200LMF	1.21	1.24
1250LMF	1.25	1.30
1300LMF	1.30	1.37

**Base fixture with 0" depth lens regress (OD), standard lambertian distribution, flush lens (FLL), and 1000LMF*

TUNABLE WHITE GAMUT AND RANGE



A Rhythm Range 6500K to 2700K

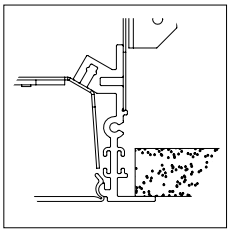
Tunable White GPHD
- **Gamut:** One dimensional Warm-Cool (WiC)
- **Path:** Single-segment 6500K to 2700K (Rhythm Range)
- **Handle:** Two natural language handles: Intensity and CCT
- **Data:** nLight with nTune technology for both handles of control

UGR CHART

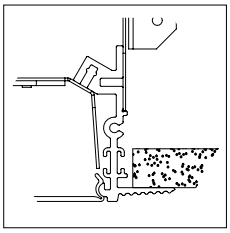
Lumen Package	UGR (70% 50% 20% reflectance using a 4H x 8H room size)					
	Crosswise					
	OD FLL Lambertian	OD CLL Lambertian	OD DBW	OD DAS	1D FLL Lambertian	1D CLL Lambertian
300LMF	19.3	19.3	17.4	16.8	19.1	19.1
400LMF	20.3	20.3	18.4	17.8	20.1	20.1
600LMF	21.7	21.7	19.8	19.2	21.5	21.5
800LMF	22.6	22.7	20.7	20.2	22.4	22.5
1000LMF	23.4	23.4	21.5	20.9	23.2	23.2
1200LMF	24	24	22.1	21.6	23.8	23.8
	Endwise					
	OD FLL Lambertian	OD CLL Lambertian	OD DBW	OD DAS	1D FLL Lambertian	1D CLL Lambertian
300LMF	16.7	18.9	18.5	18.5	16.5	18.7
400LMF	17.7	19.9	19.4	19.5	17.5	19.7
600LMF	19.1	21.3	20.9	20.9	18.9	21.1
800LMF	20	22.3	21.8	21.9	19.8	22.1
1000LMF	20.8	23	22.5	22.6	20.6	22.8
1200LMF	21.4	23.7	23.2	23.3	21.2	23.5

*UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR" and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application.
**Click here for more information on: UGR FAQ

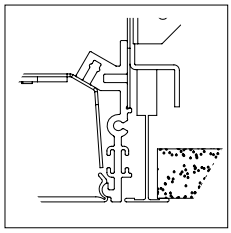
CEILING TRIMS



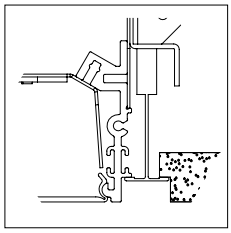
FL
5/8IN Flange (sheetrock)
Install Before Sheetrock



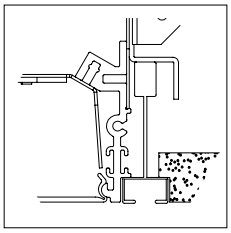
GB
Gypsum Board (sheetrock)
Install Before Sheetrock



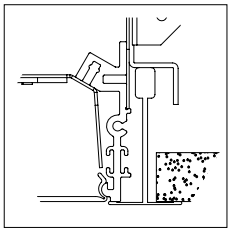
TG
9/16" Flat Tee w/ Lay-in Tile



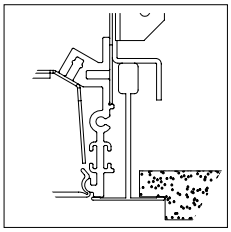
TG
9/16" Flat Tee w/ Tegular Tile



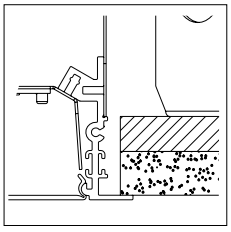
TG
9/16" Slot Tee w/ Tegular Tile



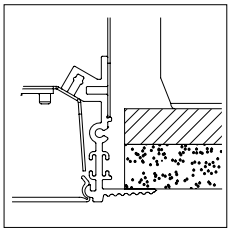
TG
15/16" Flat Tee w/ Lay-in Tile



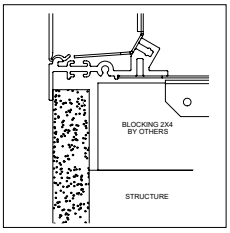
TG
15/16" Flat Tee w/ Tegular Tile



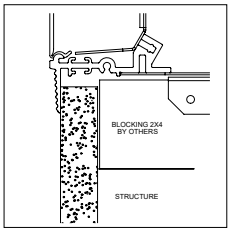
FLINB
5/8IN Flange (sheetrock)
Install From Below



GBINB
Gypsum Board (sheetrock)
Install From Below



FLW
5/8IN Flange (sheetrock)
Wall Mounted



GBW
Gypsum Board (sheetrock)
Wall Mounted

*For compatibility with metal pans, hardwood, or other ceiling types, consult technical support.

*TG ceiling trim types are compatible with Armstrong 6" TECHZONE ceiling grid.

LINEAR PLAN

Mark Lighting calculates a continuous run based on optimizing fixture section length and options selected.

LOP- Linear Optimized Length

This linear plan supplies the run length based on defined length combinations, resulting in an optimized solution with the fewest segments.

LOP	8FT	4FT	3FT

Total Run Length

This system is not modular. Runs longer than 8FT will be automatically configured with left, intermediate, and right sections based on nomenclature ordered. Always order the total run length required and not individual sections.

Example: This run to be ordered as one 32FT run.

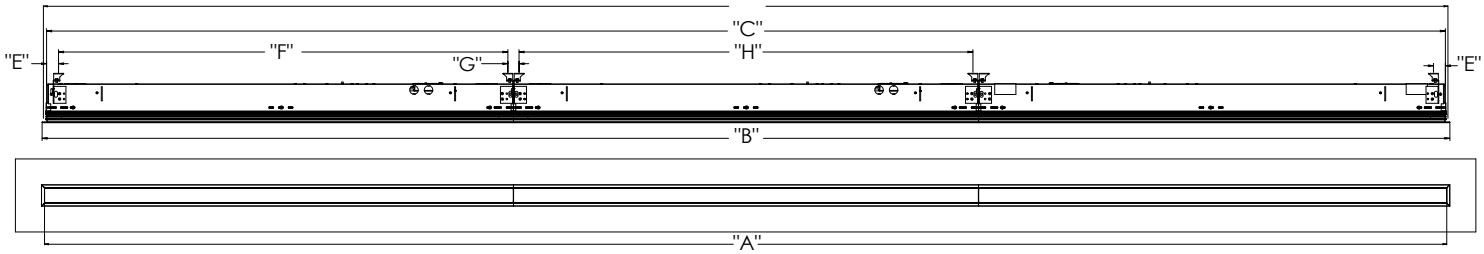
8FT	8FT	8FT	8FT

Example: This run to be ordered as four 8FT runs. Note: Individual fixtures sections cannot be joined together in the field.

8FT	8FT	8FT	8FT

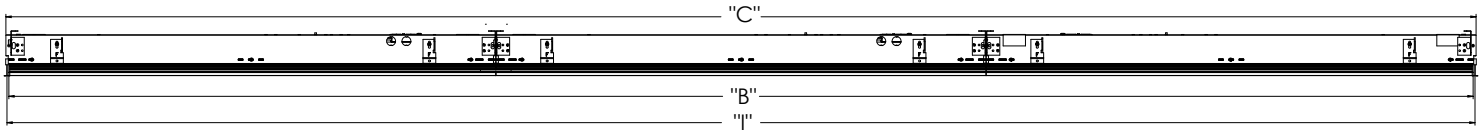
MOUNTING

FL and GB Trim Run



FL Run Configurations							
"A" (Illuminated Lenth)	"B" (Trim Length)	"C" (Housing Lenth)	"D" (Cut Opening Lenth)	"E" (End Mounting Location	"F" (End Fixture Middle Mounting Point)	"G" (Mounting Point to Mounting Point)	"H" (Mounting Point to Mounting Point Intermediate Fixtures)
Order Length	Ordered Length + 1 5/16" (FL) + 1 13/16" (GB)	Order length + 9/16"	Order length + 13/16"	1 1/4"	Fixture length -1 1/2"	1 1/16"	Fixture length -1 1/16"

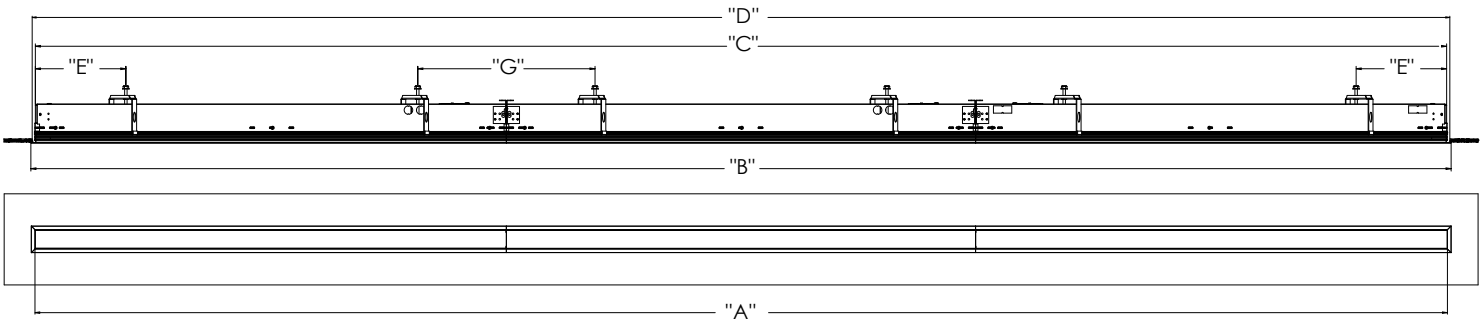
TG Trim Run



Grid Run Configurations			
"A" (Illuminated Lenth)	**"B" (Trim Length)**	**"C" (Housing Lenth)**	**"I" (Grid Center to Center)**
Order Length -13/16"	Ordered Length -5/8"	Order length -1/32"	Order length + 13/16"

MOUNTING (continued)

FLINB and GBINB Trim Run



FL Run Configurations					
"A" (Illuminated Length)	"B" (Trim Length)	"C" (Housing Length)	"D" (Cut Opening Length)	"E" (End Mounting Location)	"G" (Mounting Point to Mounting Point)
Order Length	Order Length + 1 5/16"(FLINB) + 1 13/16"(GBINB)	Order length +9/16"	Order length +13/16"	6 1/4" 9 1/4"	1' 0 1/2" 1' 3 1/2" 1' 6 1/2"

NOTE: Dimension "E" depends on length (inconsistent across family). **NOTE:** Dimension "G" depends on fixture combination.

Ceiling Cut Out Dimensions

		2-Foot	3-Foot	4-Foot	5-Foot	6-Foot	7-Foot	8-Foot
TG	GRID CL LENGTH(IN)	24	36	48	60	72	84	96
	GRID CL WIDTH(IN)	6	6	6	6	6	6	6
FL or FLINB	LENGTH(IN)	24.813	36.813	48.81	60.813	72.813	84.81	96.813
	WIDTH(IN)	5.885	5.885	5.89	5.885	5.885	5.89	5.885
GB or GBINB	LENGTH(IN)	24.813	36.813	48.81	60.813	72.813	84.81	96.813
	WIDTH(IN)	5.885	5.885	5.89	5.885	5.885	5.89	5.885

CEILING OPENING DIMENSIONS FOR INSTALLATION, +/-0.13"

MOUNTING (continued)

FIXTURE DIMENSIONS AND WEIGHTS

			2-Foot	3-Foot	4-Foot	5-Foot	6-Foot	7-Foot	8-Foot
TG	Individual	GRID CL (IN)	24	36	48	60	72	84	96
		OVERALL LENGTH (IN)	23.375	35.375	47.375	59.375	71.375	83.375	95.375
		HOUSING LENGTH (IN)	23.938	35.938	47.938	59.938	71.938	83.938	95.938
		APERTURE (IN)	23.125	35.125	47.125	59.125	71.125	83.128	95.125
	Left or Right		2-Foot	3-Foot	4-Foot	5-Foot	6-Foot	7-Foot	8-Foot
		GRID CL(IN)	24	36	48	60	72	84	96
		PRODUCT LENGTH(IN)	23.688	35.688	47.688	59.688	71.688	83.688	95.688
		HOUSING LENGTH(IN)	23.938	35.938	47.938	59.938	71.938	83.938	95.938
		APERTURE(IN)	23.563	35.563	47.563	59.563	71.563	83.563	95.563
	Intermediate		2-Foot	3-Foot	4-Foot	5-Foot	6-Foot	7-Foot	8-Foot
		GRID CL(IN)	24	36	48	60	72	84	96
		PRODUCT LENGTH(IN)	24	36	48	60	72	84	96
		HOUSING LENGTH(IN)	23.938	35.938	47.938	59.938	71.938	83.938	95.938
		APERTURE(IN)	24	36	48	60	72	84	96

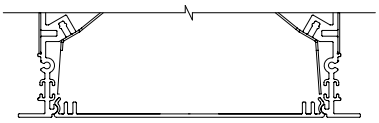
			2-Foot	3-Foot	4-Foot	5-Foot	6-Foot	7-Foot	8-Foot
FL or FLINB	Individual	APERTURE(IN)	24	36	48	60	72	84	96
		PRODUCT LENGTH(IN)	25.250	37.250	49.250	61.250	73.250	85.250	97.250
		HOUSING LENGTH(IN)	24.563	36.563	48.563	60.563	72.563	84.563	96.563
	Left or Right		2-Foot	3-Foot	4-Foot	5-Foot	6-Foot	7-Foot	8-Foot
		APERTURE(IN)	24	36	48	60	72	84	96
		PRODUCT LENGTH(IN)	24.625	36.625	48.625	60.625	72.625	84.625	96.625
		HOUSING LENGTH(IN)	24.250	36.250	48.250	60.250	72.250	84.250	96.250
	Intermediate		2-Foot	3-Foot	4-Foot	5-Foot	6-Foot	7-Foot	8-Foot
		APERTURE(IN)	24	36	48	60	72	84	96
		PRODUCT LENGTH(IN)	24	36	48	60	72	84	96
		HOUSING LENGTH(IN)	23.938	35.938	47.938	59.938	71.938	83.938	95.938

			2-Foot	3-Foot	4-Foot	5-Foot	6-Foot	7-Foot	8-Foot
GB or GBINB		APERTURE(IN)	24	36	48	60	72	84	96
		PRODUCT LENGTH(IN)	25.750	37.750	49.750	61.750	73.750	85.750	97.750
		HOUSING LENGTH(IN)	24.563	36.563	48.563	60.563	72.563	84.563	96.563
		APERTURE(IN)	24	36	48	60	72	84	96
		PRODUCT LENGTH(IN)	24.875	36.875	48.875	60.875	72.875	84.875	96.875
		HOUSING LENGTH(IN)	24.250	36.250	48.250	60.250	72.250	84.250	96.250
			2-Foot	3-Foot	4-Foot	5-Foot	6-Foot	7-Foot	8-Foot
		APERTURE(IN)	24	36	48	60	72	84	96
		PRODUCT LENGTH(IN)	24	36	48	60	72	84	96
		HOUSING LENGTH(IN)	23.938	35.938	47.938	59.938	71.938	83.938	95.938

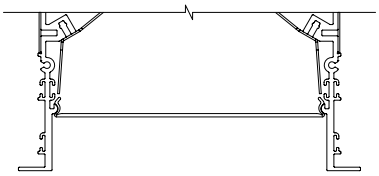
*All values rounded to +/- 1/16"

		2-Foot	3-Foot	4-Foot	5-Foot	6-Foot	7-Foot	8-Foot
Approximate Fixture Section Weights	WEIGHT(LBS)	12	15	18	27	30	33	36

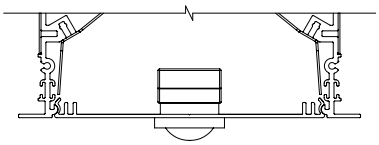
DIRECT SHIELDING & OPTIONS



Flush Lens (FLL)
Continuous Lens (CLL)



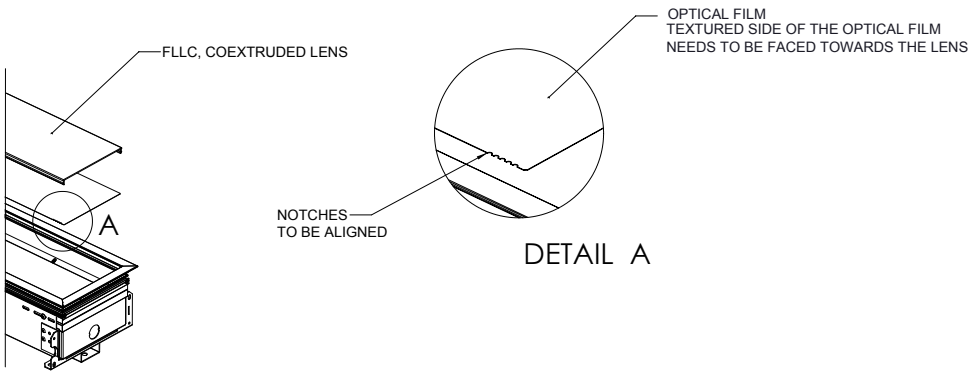
1" Regress with
FLL or CLL



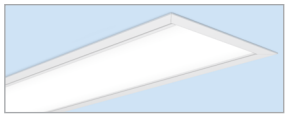
Sensor

DIRECT DISTRIBUTION

Optical Film for DAS and DBW distributions with co-extruded lens standard.
Direction of light for DAS distribution will be in the direction of the notches on the film.



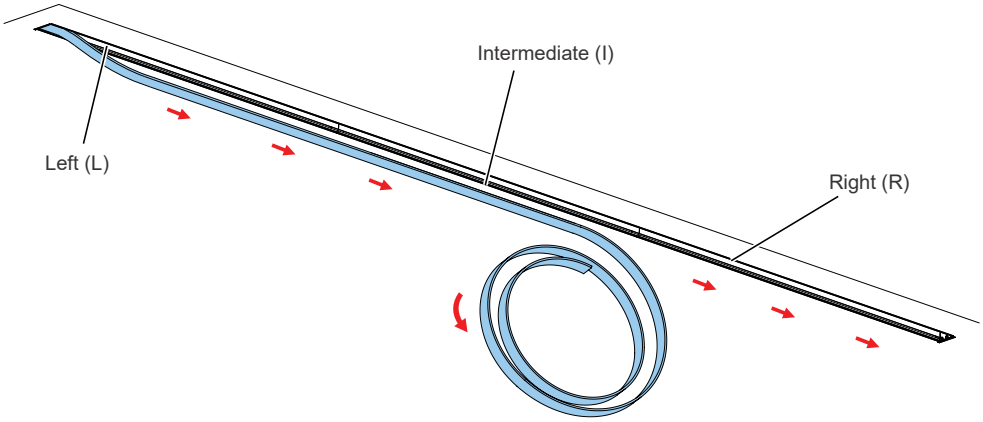
Optical Film	Number of Notches
Diffuser	4
Direct Asymmetric (DAS)	1
Direct Batwing (DBW)	2

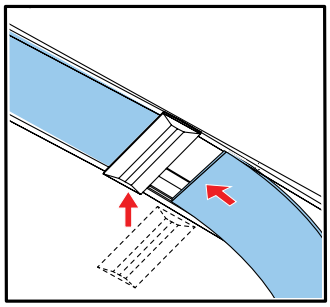


When ordering distribution options, use FLL designation. FLL will automatically change to FLLC on shipped product, to designate this co-extruded lens with white and clear material.

CONTINUOUS LENS

40-foot maximum uninterrupted length. From 40-foot 1/8-inch to 106-foot,visible joiner required and supplied with lens rolls. Joiner will match color of trim. Continuous lens and joiners, if required, ship separate from the fixture. Reference installation instructions for further details and steps.



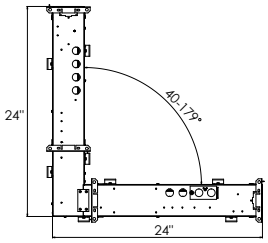


Continuous Lens Joiner Detail

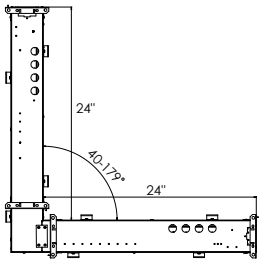
RUN PATTERNS, CORNERS,& JUNCTIONS

Patterns can be configured in 1' increments with illuminated L (corner), X, Y, & T connectors. Standard corner has 2' leg segments. Standard L (corner) connector angles are available in 40-179 degrees in 1 degree increments. Standard T & Y connector angles are available in 40-179 degrees in 1 degree increments. Standard X connector angle available in 40-90 degrees in 1 degree increments.

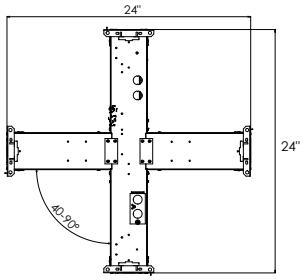
See separate pattern spec sheet for more details.



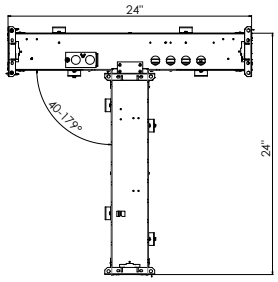
90GDO (Grid Outside Leg at 24")
90C (Sheetrock)



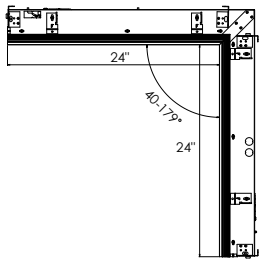
90 GDI (Grid Inside Leg at 24")



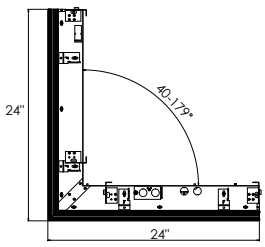
90X



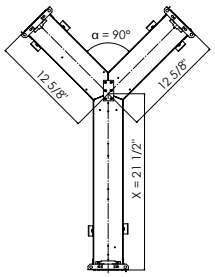
90T



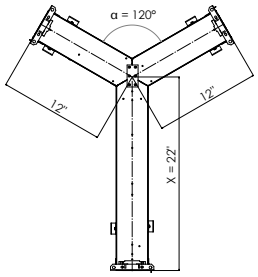
90VIC (Vertical Inside Leg at 24")



90VOC (Vertical Outside Leg at 24")



90Y



120Y

NOTE: For Y intersections, dimension X varies depending on the angle α. Angle α can be in a range of 40-179°.

INTELLIGENT LUMINAIRE GUIDE

Choose nomenclature from these columns

Control / Sensor Configurations

Control Input		Sensor		Sensor*	Notes
NLT	+	<blank>	=	None	None
NLT	+	ADC	=	NES ADCX	Automatic dimming control integral photocell.
NLT	+	PDT	=	NES PDT 7	360° Dual technology integral occupany sensor.
NLT	+	APIR	=	NES 7 ADCX	360° PIR integral occupancy sensor with automatic dimming control photocell.
NLT	+	APDT	=	NES PDT 7 ADCX	360° Dual technology integral occupany sensor with automatic dimming control photocell.

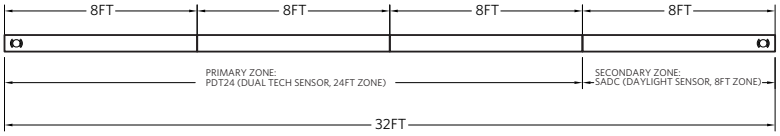
*Note: Only one sensor per zone allowed.

INTEGRATED SENSOR & LAYOUT

Only one sensor per zone allowed. At the most, the entire run can only have 2 sensors designated. Sensor zone cannot split a fixture section or overlap of zones. Sensors will be located on a Left end or Right end of fixture section. Default location for first sensor is Left end and default location for second sensor is Right end.

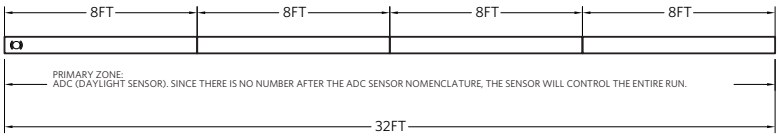
CORRECT:

32FT RUN WITH 2 SENSORS WITH PRIMARY ZONE 24FT AND SECONDARY ZONE 8FT -- PDT24 SADC8



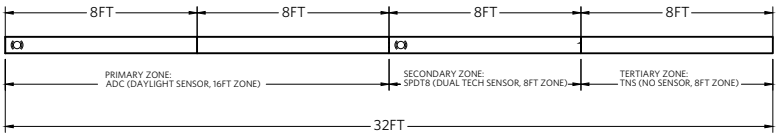
Total Run Length to Order

32FT RUN WITH 1 SENSOR ALL ONE ZONE -- ADC



Total Run Length to Order

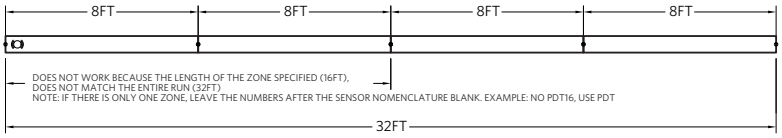
32FT RUN WITH 2 SENSORS WITH PRIMARY ZONE 16FT, SECONDARY ZONE 8FT, AND TERTIARY ZONE 8FT-- ADC16 SPDT8 TNS8



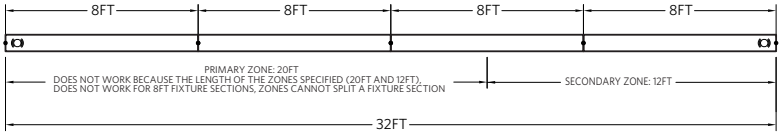
Total Run Length to Order

INCORRECT:

32FT RUN WITH 1 SENSOR ALL ONE ZONE -- PDT16



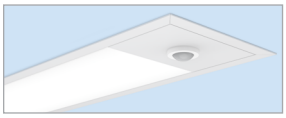
32FT RUN WITH 2 SENSORS WITH PRIMARY ZONE 20FT AND SECONDARY ZONE 12FT -- PDT20 SADC12

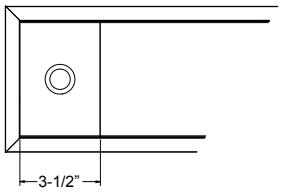


For runs longer than 8FT:

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.

SENSOR & SENSOR PLATE DETAIL





	Control Input
Sensor	**NLT**
ADC	NES ADCX
APDT	NES PDT 7 ADCX
APIR	NES 7 ADCX
PDT	NES PDT 7

OCCUPANCY DETECTION COVERAGE

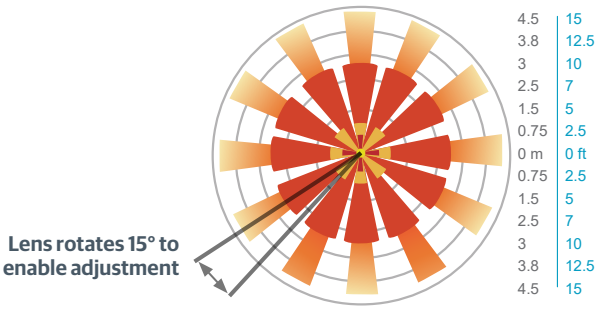
At the 7.5 ft (2.29 m) hanging height of a typical pendant mount fixture the sensor provides 10 ft (3.05 m) radial detection of small motion. At a 9 ft (2.74 m) hanging height the radius is 12 ft (3.66 m) for small motion.

Adequate for walking motion detection from mounting heights between 7.5 ft (2.29 m) and 20 ft (6.10 m).

Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.

Initial detection of walking motion into long coverage segment will occur at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m). Lens assembly rotates 15° to enable adjustment in order to line up long segments.

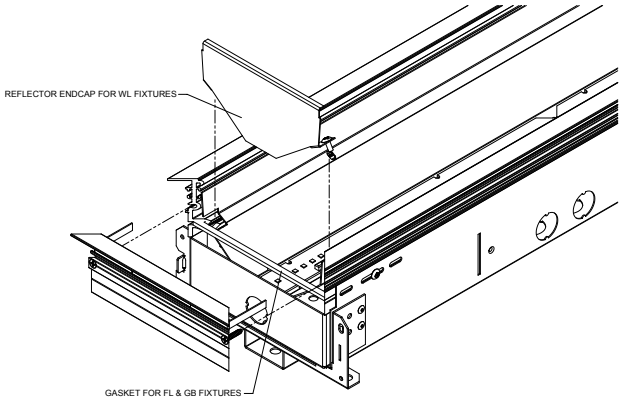
Tested to NEMA WD 7-2011



ADDITIONAL OPTIONS

Wet Location (WL)

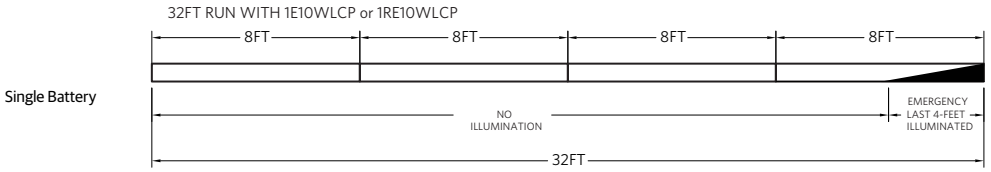
* Wet location fixtures can be recognized by the reflector end cap which is already installed into the fixture.
* Wet location fixtures are available as individual fixture sections starting at 2FT through 8FT maximum run length.
* Wet location is suitable for covered ceiling mount installation only, where any water exposure is from beneath the non-porous mount surface.
* Lens is not sealed or gasketed.

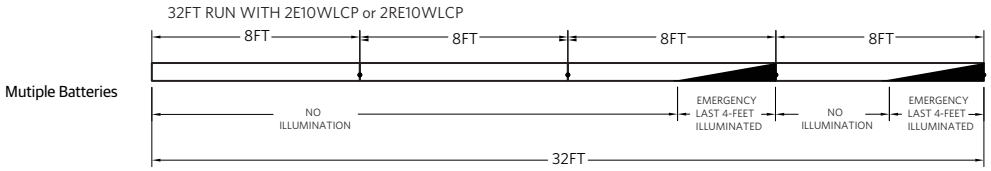


EMERGENCY OPTIONS

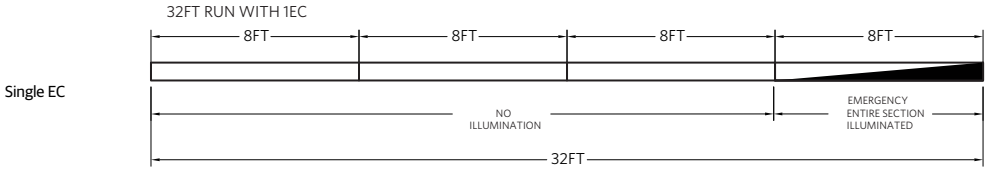
Emergency Battery Pack

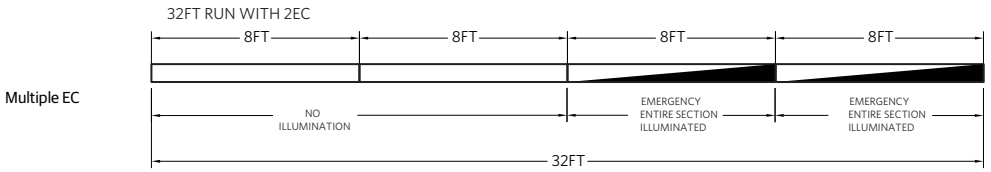
The PS1055LCP battery is integral or remote to the fixture and comes standard with test switch and self-diagnostics. Standard emergency operation as indicated below.





Emergency Circuits





How to Estimate Delivered Lumens in Emergency Mode (E10WLCP or RE10WLCP)
Use the formula below to estimate the delivered lumens in emergency mode

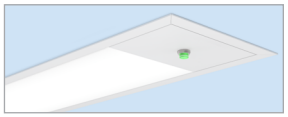
Delivered Lumens = 1.25 x P x LPW
P = 10W for PS1055LCP
LPW = Lumen per watt rating of the luminaire (Available on page 1 of this spec sheet or appropriate IES file.)

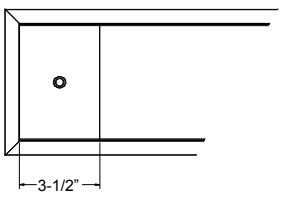
(Available on page 1 of this spec sheet or appropriate IES file.)

Per tested performance data, maximum mount height of 17-feet calculated to achieve 1 footcandle (10.8 lux) of illumination below emergency battery powered fixture on the path of egress. (Based on fixture tested with 90CRI 27K LED.)

	Control Input		
Section Length	**Integral (E10WLCP)**	**Remote (RE10WLCP)**	**EC**
U2-U2/11.875	n/a	Entire Section Length	Entire Section Length
U3-U3/11.875	n/a	Entire Section Length	Entire Section Length
U4	Entire Section Length	Entire Section Length	Entire Section Length
U4/0.125-U4-11.875	n/a	Last 2-feet of Section Length	Entire Section Length
U5-U5/11.875	Last 3-feet of Section Length	Last 3-feet of Section Length	Entire Section Length
U6-U6/11.875	Last 3-feet of Section Length	Last 3-feet of Section Length	Entire Section Length
U7-U7/11.875	Last 4-feet of Section Length	Last 4-feet of Section Length	Entire Section Length
U8	Last 4-feet of Section Length	Last 4-feet of Section Length	Entire Section Length

Integral Emergency Test Switch





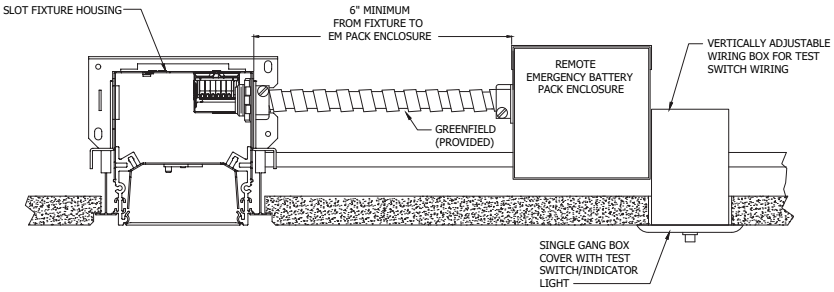
EMERGENCY OPTIONS (Continued)

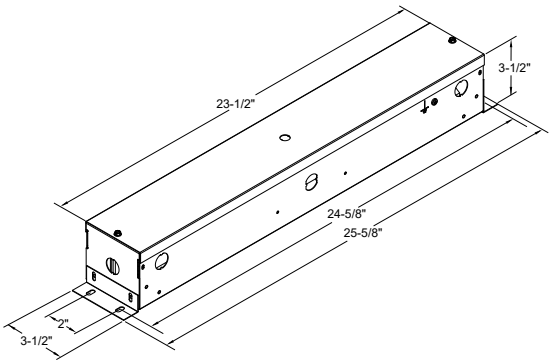
Remote Emergency Battery Pack

10w linear constant power emergency LED driver is remote mounted from the luminaire. The emergency driver switches power from the normal AC driver and operates the fixture for 90 minutes in the emergency mode from the unit's battery supply. Consists of (1) emergency LED driver within (1) remote mounting enclosure, flexible conduit, test switch, indicator light, cover plate and junction box supplied.

Maximum remote mounting distance from test switch to fixture not to exceed 25-feet.

The maximum emergency remote distance recommended by the manufacturer is 25-feet with 18 AWG wires.

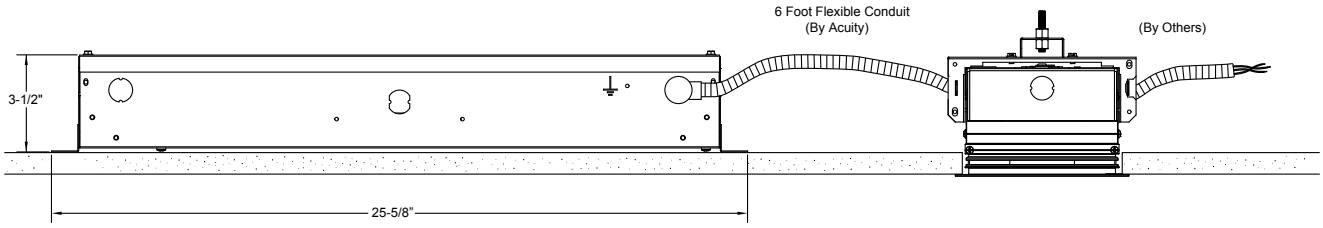


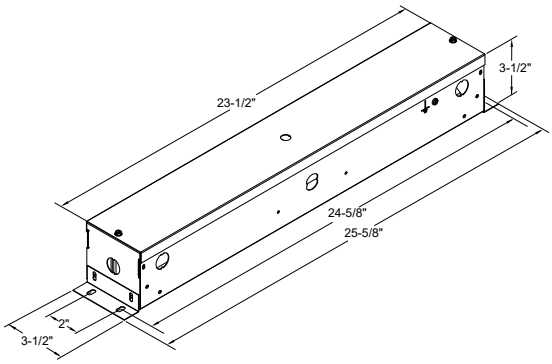


Remote GTD Mounting Option

Emergency generator transfer device is remote mounted from the luminaire. The generator transfer device senses the loss of normal AC power and switches the LED driver input power connection to an unswitched, generator (or central inverter) supplied lighting circuit bypassing the fixture wall switch. Consists of (1) emergency generator transfer device within (1) remote mounting enclosure with 6-foot long flexible conduit.

Maximum remote mounting distance is 6 feet from fixture.





SPECIFICATIONS

Housing
Nominal 6" x 2', 3', 4', 5', 6', 7', 8' and continuous rows in 1/8" increments starting at 2', as standard. Upper housing fabricated from cold-rolled steel with extruded aluminum ceiling trim.

Finish
Standard colors for fixture trims are polyester powder coated white, anti-microbial white, black, or silver with satin sheen. Consult factory for custom colors or specify RAL colors from Architectural brochure.

Reflector
Precision-formed steel; high reflectance matte white powder coat; 93% reflectivity.

Optics (Distribution)
Direct Batwing (DBW) and Direct Asymmetric (DAS) incorporate co-extruded lenses and films.

Lenses/Shielding
Extruded acrylic lens, (CLL, FLL).

Mounting
Sheetrock: Recessed ceiling only to accommodate sheetrock, ½" minimum to 1-1/2" maximum depth for FL, GB, FLINB or GBINB trim options. Grid: To accommodate 9/16" Flat Tee with Lay-In Tile, 9/16" Flat Tee with Tegular Tile, 9/16" Slot Tee with Tegular Tile, 15/16" Flat Tee with Lay-In Tile, & 15/16" Flat Tee with Tegular Tile.

LED Source
Multiple lumen packages available in Rhythm Range (2700K-6500K) in 90CRI. 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. Color 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).

Circuits
Single switching option only.

Dimming Driver
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. All drivers are RoHS compliant.

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. Wired networking through standard Cat-5 cabling. (cabling "by others")

Mainstream Dynamic with nTune Technology
This luminaire is enabled with nTune technology, meaning it has the ability to communicate digitally over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of timeclock control, remote status monitoring, and control via SensorView software.

Emergency Battery (Optional)
Integral emergency battery (E10WLCP) for 90 minutes of operation. Emergency battery pack, 10W, Linear Constant Power Certified in CA Title 20 MAEDBS. Integrated test switch and indicator light. Remote emergency battery (RE10WLCP) for 90 minutes of operation. Emergency battery pack, 10W, Linear Constant Power Certified in CA Title 20 MAEDBS. Remote enclosure,flexible conduit, test switch, indicator light, cover plate and junction box supplied. Remote generator transfer device (GTD) works in conjunction with an auxiliary generator or a central inverter system to power fixtures for safe egress lighting.

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

Environment
Suitable for damp location. Indoor use only. Optional Wet (WL) location exterior use available with specified nomenclature.

Certification
CSA certified to meet U.S. and Canadian standards (UL1598 and UL8750). This product is IC rated. Optional Wet (WL) location listing available with specified nomenclature. Wet location listing is suitable for covered ceiling mount installation only, where any water exposure is beneath the non-porous mount surface.

Fixture Weight
Approximately 6.0 lbs per foot, less packaging.

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.

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

Notes: *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

