



ASCENT

ARCHITECTURAL LIGHTING

PROJECT

DATE

COMMENTS



IN STOCK



ENERGY CHART				
LENGTH feet	OPTICS	DELIVERED LUMENS (3000K / 3500K / 4000K)	WATTAGE	EFFICACY lm/w
4	Diffuser	4000 / 4400 / 4400	40	100
6	Diffuser	6000 / 6600 / 6600	60	100
8	Diffuser	8000 / 8800 / 8800	80	100

GLACIER TASK EDGE-LIT ARCHITECTURAL LINEAR LED

Glacier Task is an attractive architectural linear luminaire utilizing ultra-thin semi-transparent optics within a signature sloping silhouette where the frame meets the lightguide. Advanced precision optics deliver visually comfortable illumination and superior light uniformity. Glacier Task is intended for suspended applications where direct lighting is required. Glacier Task is available with a diffuser optic and field selectable CCT.

- Commercial Office
- Classrooms
- Civic & Transportation

PHYSICAL

Material	Extruded Aluminum
Mounting	Suspended
Optics	Diffuser
Finish	Powder Coat White or Powder Coat Black

PERFORMANCE

Warranty	5 years
Certifications	Damp Location, UL, cULus
Rated Life	50,000 hours
CCT	Field Selectable: 3000K, 3500K, 4000K
CRI	80+
Delivered Lumens	1000lm/ft - 3000K, 1100lm/ft - 3500/4000K
THD	<20%

ELECTRICAL

Wattage	40W – 4ft, 60W – 6ft
Voltage	110-277V
Power Factor	>0.9
LED Driver	Class 2 High Efficiency
Dimming	0-10V to 10% or 1%

SEE ORDERING LOGIC ON PAGE 2





ORDERING LOGIC

EX: GLACIER-T-4-DF-F-RWH-C05WH

FAMILY		LENGTH				OPTICS		CEILING TYPE		FINISH		DRIVER	
GLACIER-T						DF							
	4	4'	24	24'	DF	Diffuser	F	9/16" or 15/16" Flat	(blank)	White	(blank)	110-277V AC Dims to 10%	
	6	6'	28	28'			S916	9/16" Slot	BK	Black	D01	110-277V AC Dims to 1%	
	8	8'	32	32'			S1516	15/16" Slot					
	12	12'	36	36'			D	Drywall					
	16	16'	40	40'									
	20	20'											
CANOPY TYPE				CORD + CABLE									
RWH	Round White Finish				C05WH	5ft White Power Cord, 5ft Aircraft Cable							
RBK	Round Black Finish				C12WH	12ft White Power Cord, 12ft Aircraft Cable							
SWH	Square White Finish				C05BK	5ft Black Power Cord, 5ft Aircraft Cable							
SBK	Square Black Finish				C12BK	12ft Black Power Cord, 12ft Aircraft Cable							

ACCESSORIES ORDERING LOGIC (ORDER SEPARATELY)

EX: GLACIER-T-EM8

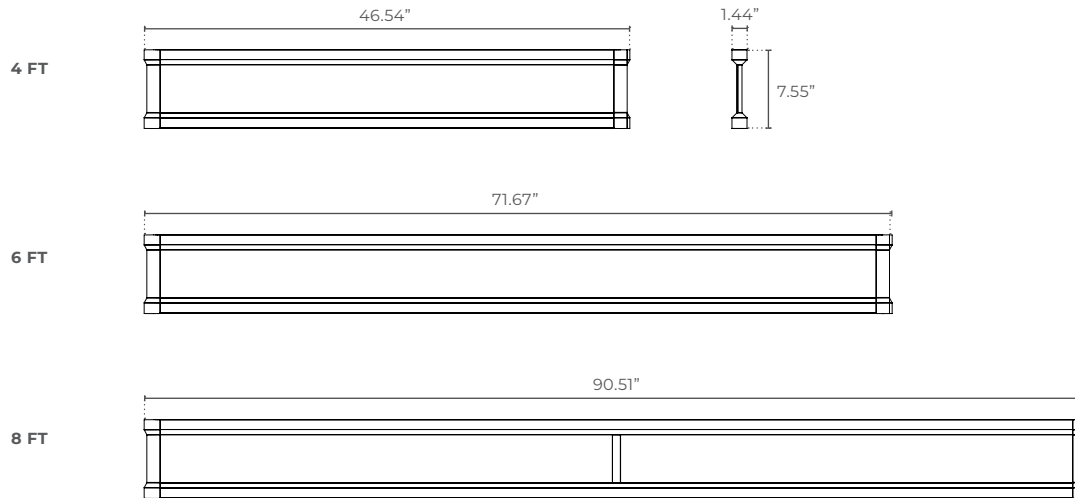
FAMILY	ACCESSORIES
GLACIER-T	
	EM8 8W Emergency Battery
	EM25 25W Emergency Battery
	OS Occupancy Sensor

SPECIFICATIONS

<p>OPTICS</p> <p>Ultra-thin semi-transparent optics enveloped in a signature sloping silhouette where the frame meets the optics. Direct lighting component available with diffuser optics.</p>	<p>THD: <20%</p> <p>Power Factor: >0.9</p> <p>Input Voltage: 110-277V</p>
<p>CONSTRUCTION</p> <p>Extruded aluminum housing</p>	<p>LED SYSTEM</p> <p>CRI: Minimum 80 color rendering index</p> <p>CCT: Field selectable CCT by dip switch includes 3000K, 3500K, and 4000K</p> <p>LED: Rated life is 50,000h with 87.8% of lumen maintenance in 25°C (77°F) ambient temperature, in compliance with IES LM-80 testing measurements.</p>
<p>FINISH</p> <p>Powder coat white finish or powder coat black finish</p>	<p>APPROVALS</p> <ul style="list-style-type: none">cULus listedSuitable for damp locationsDesigned for indoor use only5 years limited warranty
<p>ELECTRICAL</p> <p>LED Driver: Class 2 high efficiency LED driver with 0-10V continuous dimming to 10% that works with many types of controls. Compatible with the following types of controls:</p> <ul style="list-style-type: none">Leviton IP710-DLLeviton IP710-LFLutron PowPak 0-10V DimmingLutron Diva-DvtvHubbell NX Distributed Room ControlCooper Greengate Room ControllernLight nPP16DWattstopper DLM	<p>OPTIONAL FUNCTION</p> <p>Emergency Option: Optional 8W emergency LED driver can be provided. When AC power fails, it immediately switches to the emergency mode, operating for up to 120 minutes. When AC power is restored, it automatically returns to the charging mode which meets critical life-safety lighting requirements.</p>



DIMENSIONS



CONTINUOUS RUNS

- Simple and intuitive assembly in the field without additional joiner
- One power feed up to 40ft for 120V or 80ft for 277V
- Drywall or T-Grid drop ceiling compatible



Take end caps off

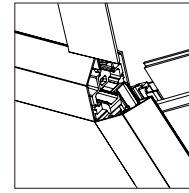


Slide fixture together
and connect the
connectors

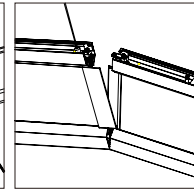


Secure cover plates
and complete

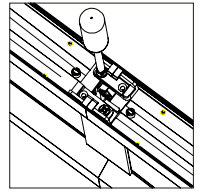
The maximum connection of each input line is less than 40FT in 120AC, less than 100FT in 277AC.



Align position



Slide fixtures together

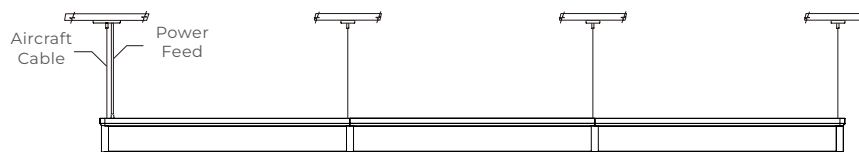


Secure fixtures
together via
screwdriver

STANDARD LINE RUNS IN 120V

LUMINAIRE RUN LENGTH feet	RUN CONFIGURATION	5' POWER CABLE	5' AIRCRAFT CABLE	CANOPY
4	4'	1	2	2
8	4' + 4'	1	3	3
12	4' + 4' + 4'	1	4	4
16	4' + 4' + 4' + 4'	1	5	5
20	4' + 4' + 4' + 4' + 4'	1	6	6
24	4' + 4' + 4' + 4' + 4' + 4'	1	7	7
28	4' + 4' + 4' + 4' + 4' + 4' + 4'	1	8	8
32	4' + 4' + 4' + 4' + 4' + 4' + 4' + 4'	1	9	9
36	4' + 4' + 4' + 4' + 4' + 4' + 4' + 4' + 4'	1	10	10
40	4' + 4' + 4' + 4' + 4' + 4' + 4' + 4' + 4' + 4'	1	11	11

Note: 4.5" canopy is designed for power cable





MOUNTING

CANOPY STYLE

Available in Black & White



1.6" Round
(Non Power Feed)



4.5" Round
(Power Feed)



**4.5" Round with
Emergency Driver**
(Non Power Feed)



**5.8" Round with
Occupancy Driver**
(Power Feed)



1.6" Square
(Non Power Feed)



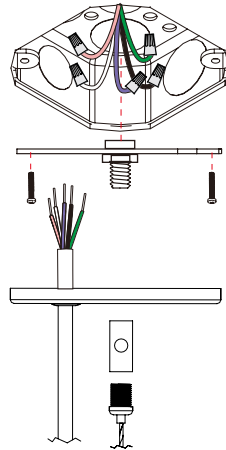
4.5" Square
(Power Feed)



**4.5" Square with
Emergency Driver**
(Non Power Feed)

DRY CEILING

"Various Hard Ceilings" (Mount to J-Box)



DROP CEILING

Suspending the luminaire in the T-grid. Compatible for various T-grid, including 9/16" Flat, 9/16" Slot, 15/16" Flat.



* Please see the installation instruction for more details.



9/16" Flat Ceiling



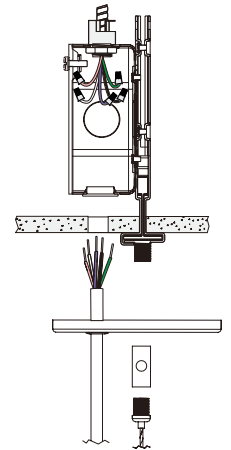
15/16" Flat Ceiling



9/16" Slot Ceiling



15/16" Slot Ceiling



PENDANT ACCESSORIES FOR DRY CEILING

CANOPY KITS



POWER CORD KITS



4 FT Standard
(12 FT Available)

AIRCRAFT CABLE KITS



5 FT Standard
(12 FT Available)

PENDANT ACCESSORIES FOR DROP CEILING

CANOPY KITS



JUNCTION BOX



POWER CORD KITS



4 FT Standard
(12 FT Available)

AIRCRAFT CABLE KITS



5 FT Standard
(12 FT Available)

T-GRID CLIPS



For 9/16" and 15/16"
Flat Ceiling
(2 Clips/Set)



For 9/16" Slot
Ceiling
(2 Clips/Set)



For 15/16" Slot
Ceiling
(2 Clips/Set)





EMERGENCY OPTION

Ascent Architectural Lighting offers UL & CEC Listed LED emergency drivers. They could be factory installed or field installed. When AC power fails it, immediately switches to the emergency mode operating for lighting minimum 90 minutes. When AC power is restored it, automatically returns to the charging mode which meets critical life-safety lighting requirements.



EM8/EM25

8W or 25W Emergency Battery

Optional 8w or 25w high voltage LED emergency driver can be provided if you need and do it wiring in field. For more info or spec sheet please visit our contact sales.

CODE REQUIRED TESTING

Initial Self-Test After Installation

It will perform a functional test in 3 seconds after the driver installed to check the wiring and battery output when work. The indicator LED will be off or flicker in case of a failure or an error.

Second Self-Test In 120 Minutes

It will perform second test in 120 minutes to check again. Upgrade in Gen 3: Repeat 4 times in every 120 minutes if fail in the second test.

Monthly Self-Test

It will automatically perform a test every 30 days with a duration of 3 seconds, in which the wiring and battery output are checked. In case of a failure or an error, the indicator LED will be off or flicker.

OCCUPANCY SENSOR



OS-R

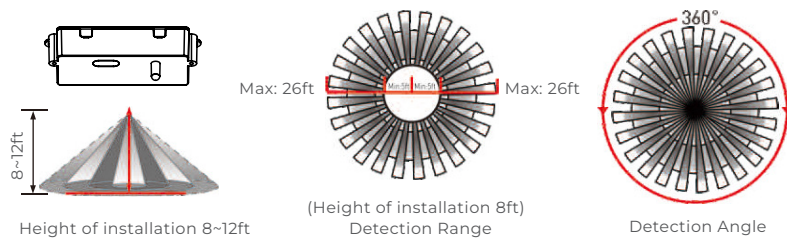
Integral Occupancy Sensor

Factory-installed integrated sensor system for multi-level control based on motion and/or daylight contribution with BRI810-B-D level & daylight harvest microwave sensor from SHARKWARD. For more info or spec sheet , please contact sales.

SPECIFICATION

Power Supply	120/277 VAC 50/60Hz
Maximum load @ -40°F~-158°F (-40°C~+70°C)	Resistive/ Tungsten-600W@120V Electronic Ballast(LED)-800VA@120V/1200VA@277V
HF System	5.8GHz CW
Dim Control Output	0-10V, max. 25mA sinking current
Detection Radius/angle	Max 26ft.(8m)/360
Mounting Height	Max 12ft
Humidity	Max.95% RH
Temperature	-40°F to 158°F (-40°C to 70°C)

SENSOR COVERAGE



ADDITIONAL IMAGERY

BLACK FINISH



WHITE FINISH



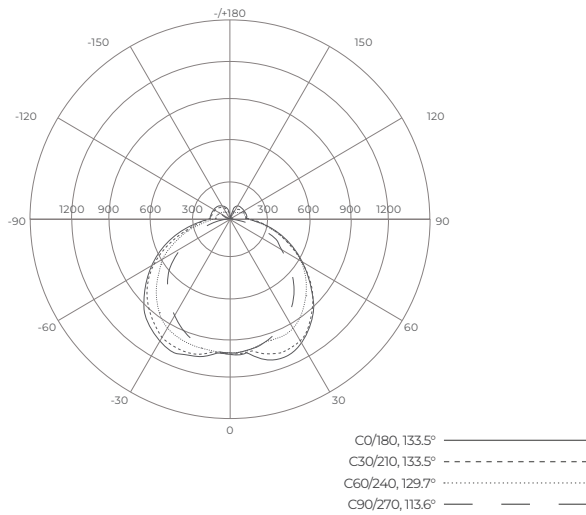
FIELD SELECTABLE CCT SWITCH





PHOTOMETRICS - Diffuser-4000K-Direct

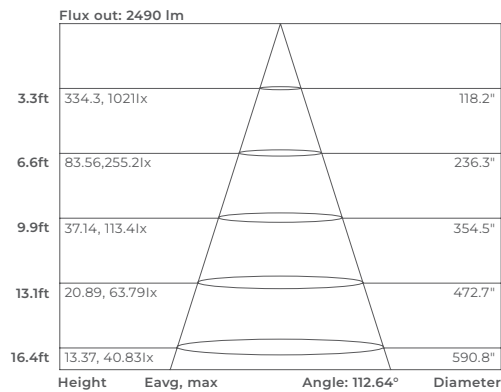
AVERAGE BEAM ANGLE (50%): 127.6°



ZONAL FLUX DIAGRAM

T	C0	C45	C90	C135	C180	C225	C270	C315
10°	1053	996.2	987.9	1012	1043	1016	988.9	992.1
20°	1112	1025	935.3	1018	1084	1024	937.0	1019
30°	1075	1000	851.2	979.0	1066	987.6	853.9	997.5
40°	952.5	915.2	739.6	893.5	983.6	903.6	742.9	915.1
50°	787.0	783.7	604.5	766.6	847.0	777.7	608.3	785.6
60°	604.9	620.6	449.1	605.5	672.5	617.4	453.3	624.2
70°	416.6	440.5	278.3	424.8	478.8	435.4	282.5	444.9
80°	242.5	258.5	110.0	247.3	289.8	255.7	112.3	264.1
90°	123.9	130.3	2.740	143.7	159.0	145.4	2.733	131.9
DEG	LUMINOUS INTENSITY: cd							

Average Illuminance Curve



ZONAL LUMEN SUMMARY

T	φ ZONE	φ TOTAL	LUMEN/LAMP percentage
0-10	96.00	96.00	2.28,2.28
10-20	288.0	384.0	9.13,9.13
20-30	462.1	846.1	20.1,20.1
30-40	584.5	1431	34,34
40-50	631.9	2063	49,49
50-60	599.1	2662	63.3,63.3
60-70	493.3	3155	75,75
70-80	335.7	3491	83,83
80-90	177.8	3668	87.2,87.2
UNIT: lm			

NOTE

The curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

COEFFICIENTS OF UTILIZATION

ppc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR: Room Cavity Ratio (CU)															
0.0	116	116	116	112	112	112	104	104	104	97	97	97	90	90	90	87
1.0	99	94	90	95	91	87	89	85	82	83	80	77	77	75	73	70
2.0	85	78	72	82	76	70	77	71	66	71	67	63	67	63	60	57
3.0	74	66	59	72	64	58	67	60	55	62	57	52	58	54	50	47
4.0	65	56	49	63	55	48	59	52	46	55	49	44	52	46	42	40
5.0	58	49	42	56	48	41	53	45	40	49	43	38	46	41	36	34
6.0	52	43	36	50	42	36	47	40	34	44	38	33	42	36	32	29
7.0	47	38	32	46	37	31	43	35	30	40	34	29	38	32	28	26
8.0	43	34	28	41	33	28	39	32	27	37	30	26	35	29	25	23
9.0	39	31	25	38	30	25	36	29	24	34	28	23	32	26	22	20
10.0	36	28	23	35	27	22	33	26	21	31	25	21	30	24	20	18

