

CATALOG NUMBER	
PROJECT NAME	TYPE
VOLTAGE	LAMPS



CAVERN & CAVERN LITE

ULTRASONIC STAIRWELL

SPECIFICATIONS

- Internal Linear Ribbed, Radial Lens Design
- Impact Resistant 25% DR Acrylic Lens
- Specification Grade for New Construction
- Durable Design

Cavern Housing

- .060" Aluminum Body
- .200" 6061 Machined Aluminum End Plates
- .500" Threaded End Plugs
- Baked on Enamel Powder Coat Finish

Cavern Lite Housing

- .040 Aluminum Housing
- Baked on Pre-Paint Enamel

OPTIONS

- Tamper Resistant Fasteners (Optional)
- Ultrasonic Sensor
- Bi-Level Dimming or Lamp Switching
- Battery Back-Up for Emergency Lighting
- User Selectable Dimming (DIM) Features a Fully Controllable Bi-Level Dim
- Internal Tamper Proof User Selectable Bi-Level Dim Control (INDIM)



Cavern



Cavern Lite



ORDERING GUIDE:

C4 - 2T8 - NS50 - BRP - US

SERIES	LAMP	BALLAST	COLOR	OPTIONS
<input type="checkbox"/> C2 - 2 ft Cavern	<input type="checkbox"/> 1T5	<input type="checkbox"/> ISL - Instant Start, Low Ballast Factor	<input type="checkbox"/> WHP - White	<input type="checkbox"/> INDIM - Internal Tamper Proof Selectable Dim
<input type="checkbox"/> C4 - 4 ft Cavern	<input type="checkbox"/> 2T5	<input type="checkbox"/> ISN - Instant Start, Normal Ballast Factor	<input type="checkbox"/> BRP - Bronze	<input type="checkbox"/> US - Ultrasonic Sensor
<input type="checkbox"/> CL2 - 2 ft Cavern Lite	<input type="checkbox"/> 1T8	<input type="checkbox"/> ISH - Instant Start, High Ballast Factor	<input type="checkbox"/> C - Custom	<input type="checkbox"/> F17 - 2 ft Night Light, IS ballast
<input type="checkbox"/> CL4 - 4 ft Cavern Lite	<input type="checkbox"/> 2T8	<input type="checkbox"/> PSL - Program Start, Low Ballast Factor		<input type="checkbox"/> EB - Extra Ballast, Not on Sensor
		<input type="checkbox"/> PSN - Program Start, Normal Ballast Factor		<input type="checkbox"/> CORDX - Cord X = Spec Length
		<input type="checkbox"/> PSH - Program Start, High Ballast Factor		<input type="checkbox"/> PLUG - Specified Type
		<input type="checkbox"/> HO - T5 High Output		<input type="checkbox"/> LIXX - Lamps Installed XX = lamp color (ex. LI50 = 5000K)
		<input type="checkbox"/> F28 - F28 T5 Ballast		<input type="checkbox"/> TP - Tamper Proof Screws
		<input type="checkbox"/> HS60 - 2T8 GE 1.15 / .71 Step Dim		<input type="checkbox"/> XXXXBBY - Battery Backup, XXXX = Total Lms Y = Lamps
		<input type="checkbox"/> NS50 - 2T8 ULT .87 / .34 Step Dim		
		<input type="checkbox"/> DM95 - ULT .95 / .34 Step Dim (F28T5)		
		<input type="checkbox"/> DM115 - ULT 115 / .51 Step Dim (F28T5)		
		<input type="checkbox"/> DIM - User Selectable Dimming		

(Consult the factory for a complete list of available batteries and lamp compatibility)



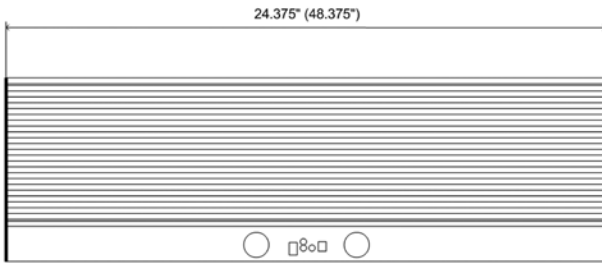
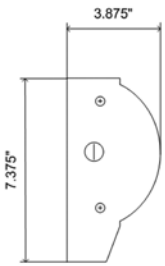
CATALOG NUMBER	
PROJECT NAME	TYPE
VOLTAGE	LAMPS

CAVERN & CAVERN LITE

ULTRASONIC STAIRWELL



EASILY ADJUST DIM THROUGH BOTTOM ACCESS PORT



USER SELECTABLE DIMMING (DIM)

User selectable bi-level dimming gives the user the ability to adjust the light level of the unoccupied mode by simply turning an exterior control.

- Dimmable Between 5% and 100%
- Exterior control can be accessed without disassembling the fixture.
- INDIM offers dimming control from interior of the fixture.

ALWAYS ON LAMP OPTION

- Extra ballast option can be selected where one lamp bypasses the sensor and is powered by a separate ballast.
- F17 lamp option can be selected to add a single F17 lamp to a fixture that is always on. This can be done on any size fixture.

WATTSTOPPER ULTRASONIC SENSOR CONTROL

Wattstopper Ultrasonic Sensor Control is installed when US option is ordered. Instructions can be down loaded from the Cavern web page.

- Lamp conditioning can be activated to run the lamps at 100% for 72 hours before allowing the control to switch them.
- Fail on mode can be set to ensure the lamps come on to 100% in the event of a control failure.
- Override and test modes are available for installation and servicing.

C4-2T8-UH

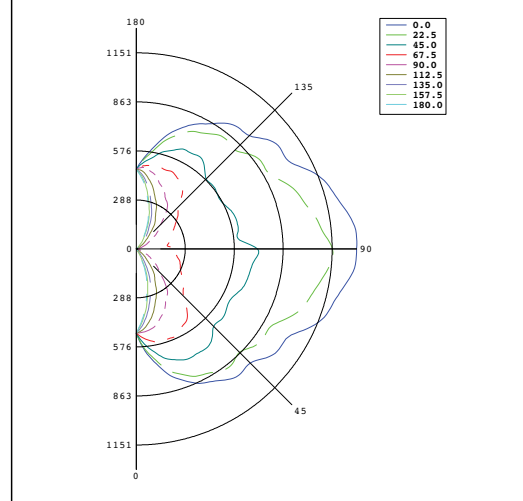
Luminaire Properties

Number of Lamps:	2
Lumens Per Lamp:	2950
Input Watts:	55
Distribution:	Direct-Indirect
Symmetry:	Bilateral 0-180
Photometric Type:	Type C
Luminous Shape:	Rectangle
Units:	Feet
Luminous Dimensions:	
0-180 Axis:	0.17
90-270 Axis:	4.0
Height:	0.44

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	390	7	9
0-40	634	11	15
0-60	1182	20	27
0-90	2210	37	51
90-120	979	17	23
90-150	1751	30	40
90-180	2122	36	49
0-180	4332	73	100

Candela Plot



Coefficients of Utilization

pf=	0.20																	
pcc->	0.80																	
pw->	0.70	0.50	0.30	0.10	0.70	0.50	0.30	0.10	0.50	0.30	0.10	0.50	0.30	0.10	0.00	0.00	0.00	
RCR																		
0	79	79	79	79	73	73	73	73	62	62	62	51	51	51	42	42	42	42
1	69	65	61	57	63	59	56	53	50	47	45	41	39	37	29	29	29	29
2	62	55	50	45	57	51	46	41	42	38	35	34	32	29	22	22	22	22
3	56	48	41	36	51	44	38	34	37	32	29	30	26	24	18	18	18	18
4	51	42	35	30	46	39	33	28	32	28	24	26	23	20	15	15	15	15
5	47	37	30	26	43	34	28	24	29	24	20	23	20	17	12	12	12	12
6	43	33	27	22	39	31	25	20	26	21	17	21	17	15	11	11	11	11
7	40	30	23	19	36	28	22	18	23	19	15	19	15	13	9	9	9	9
8	37	27	21	17	34	25	19	16	21	17	13	17	14	11	8	8	8	8
9	34	25	19	15	31	23	17	14	19	15	12	16	13	10	7	7	7	7
10	32	23	17	13	29	21	16	12	18	14	11	15	11	9	7	7	7	7