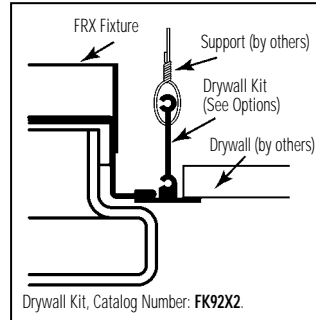
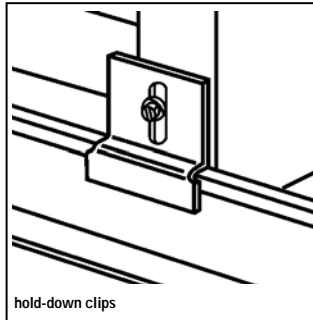
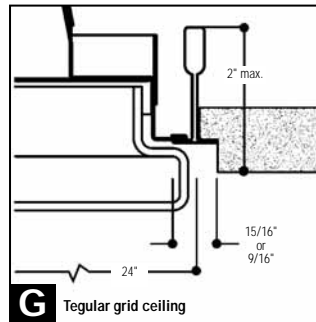
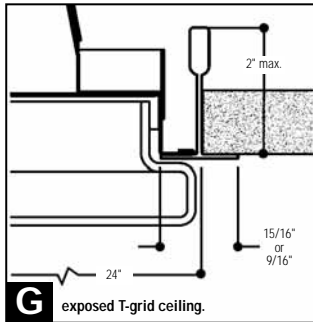


Features

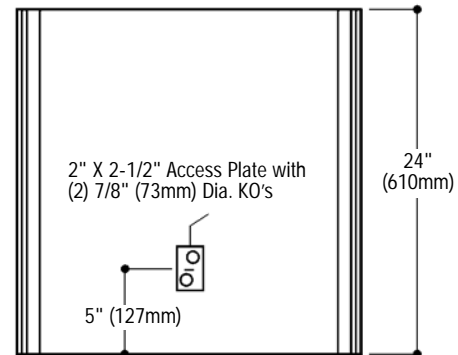
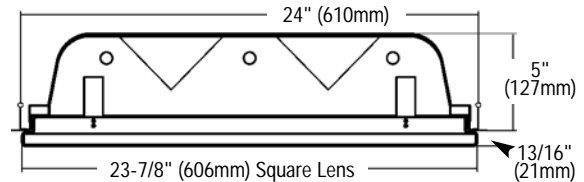
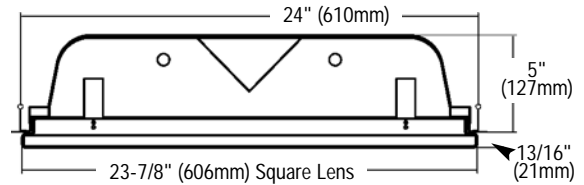
- Ideal for boardrooms, entrances and other spaces seeking a clean architectural look.
- Frost White DR acrylic lens.
- Can be mounted in patterns, end to end or side to side.
- Blends in with regular flat-edge and aesthetic recessed-edge ceiling tiles.
- 70.0% efficient (3 Lamp 24 watt T5HO)
- 66.0% efficient (2 Lamp 24 watt T5HO)
- 5" deep body.
- One piece housing.
- Black exterior for cooler ballast operating temperature.
- Built-in earthquake clips (patent no. 5,072,344).
- Spring loaded latches/hinge.
- Lens encloses lamp compartment.
- Lens opens from either side.
- Ballast accessible from room side.
- Wiring access plate standard.
- Construction to meet NYC Code or Chicago Plenum available.



Mounting Methods



Dimensions



Job Information

Type:

Job Name:

Cat. No.:

Lamp(s):

Volts/Ballast:

For Factory Technical Information: (978) 657-7600 • Fax (978) 658-0595
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11/08

Section 5/Folio MA10-11

Architectural Recessed Fluorescent 2' x 2' with Frost White Acrylic Lens, 2 or 3 Lamp T5HO

Model No. FRS2GFW224UNVPG

LER = FP - 42.0 IW - 50.8 BF - 0.88
Comparative yearly lighting energy cost per 1000 lumens = \$5.71

Report Number: G2008268
Catalog Number: FRS2GFW224UNVPG
Lamps: (2) F25T5HO
Luminaire: FRX Architectural Recessed
2' x 2' fixture with acrylic lens.
Ballast: ICN-2S24
Report is based on 1836 Lumens per lamp.
Efficiency: 66.0%
CIE Type-Direct-Indirect
Plane: 0-Deg 90-Deg
Spacing Criteria: 1.2 1.2
Shielding Angles: 90 90
Plane: 0-Deg 90-Deg
Luminous Length: 21.600 21.600

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	869	869	869	
5	862	862	862	82
15	825	824	825	233
25	760	758	758	350
35	673	669	668	419
45	656	560	556	432
55	440	435	427	388
65	303	298	287	293
75	160	162	144	168
85	48	51	37	56
90	33	34	20	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	665	18.1	27.4
0- 40	1084	29.5	44.7
0- 60	1904	51.9	78.6
0- 90	2422	66.0	100.0
90-180	0	0.0	0.0
0-180	2422	66.0	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	2568.	2545.	2527.
55	2432.	2404.	2360.
65	2222.	2185.	2105.
75	1826.	1849.	1643.
85	1324.	1407.	1021.

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80	50	30
RW 70	50	30	10
1	72	68	66
2	65	60	55
3	59	52	47
4	54	46	40
5	50	41	35
6	46	37	31
7	43	34	28
8	40	31	25
9	37	28	23
10	35	26	21

Model No. FRS2GFW324UNVPG

LER = FP - 48.3 IW - 78.3 BF - 1.0
Comparative yearly lighting energy cost per 1000 lumens = \$4.97

Report Number: G2008286
Catalog Number: FRS2GFW324UNVPG
Lamps: (3) F24T5HO/835/ALTO/PLPS
Luminaire: FRX Architectural Recessed
2' x 2' fixture with acrylic lens.
Ballast: ICN-2S-24
Report is based on 1800 Lumens per lamp.
Efficiency: 70.0%
CIE Type-Direct-Indirect
Plane: 0-Deg 90-Deg
Spacing Criteria: 1.2 1.2
Shielding Angles: 90 90
Plane: 0-Deg 90-Deg
Luminous Length: 21.600 21.600

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	1328	1328	1328	
5	1321	1319	1320	125
15	1267	1265	1265	358
25	1171	1168	1167	539
35	1040	1035	1030	648
45	878	870	862	671
55	691	681	667	608
65	482	473	454	466
75	264	263	237	273
85	82	87	65	94
90	49	51	30	

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80	50	30
RW 70	50	30	10
1	76	72	69
2	69	63	58
3	63	55	49
4	57	49	43
5	53	44	37
6	49	39	33
7	45	36	29
8	42	33	27
9	39	30	24
10	37	28	22

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1022	18.9	27.0
0- 40	1670	30.9	44.2
0- 60	2950	54.6	78.0
0- 90	3782	70.0	100.0
90-180	0	0.0	0.0
0-180	3782	70.0	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	3991.	3954.	3918.
55	3819.	3764.	3686.
65	3535.	3469.	3330.
75	3013.	3001.	2705.
85	2263.	2400.	1793.

Ordering Information

Explanation of Catalog Number: Example: FRS2GFW224UNVPG

FRX Architectural Recessed Fluorescent	S Body Style: S = Static	2 Fixture Width	G Ceiling Type: G = Standard Grid	F Lens: F = Frost White Acrylic Lens	W Reflector: White	24 Lamp: (By Others) 24 = T5HO 24w (Nominal 24")	120, 277 or UNV=120-277 Voltage:	Ballast Type: <20THD <10THD	Options: Add appropriate suffix to catalog no., ie: (A)
FR Standard FRX								1 & 2 Lamp Elec. T5HO (24 Watt, 3 lamps, 2 ballasts)	PG ††
FY For NYC Code - I.B.E.W. Manufactured								2 Lamp Elec. T5HO (24 Watt)	PG ††
FN For NYC Code - Local 3 Manufactured 5½" Deep Body								††Program Rapid Start (UNV only)	

Options/Accessories

Fusing: Internal fast blow fusing: SUFFIX: **A**.
Internal slow blow fusing: SUFFIX: **C**.
Drywall Kit: Order Catalog Number: **FK92X2**.
Electrical Wiring Options: Consult factory.
For motion or light sensor: See Folio OA20-10 and OA30-10.

Specifications

Performance: In an installation of 2 lamp 24W luminaires in a room cavity ratio of 1, with reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .68. To reduce glare the average brightness at 65° shall not exceed 2222 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 72.6%.
Lamp Shield: Frost white DR acrylic lens.
Materials: Chassis parts are die-formed code gauge cold rolled steel. Housing is ribbed for rigidity with side rails hemmed over and housing ends turned-in for safe handling.
Finish: Chassis exterior-black baked polyester enamel. Cavity-white baked polyester enamel minimum 86% reflectance. Rust preventative undercoating.

Specifications (continued)

Electrical: Thermally protected class "P" ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°. UL Listed for damp locations.
Labels: I.B.E.W./UL and ULc Listed.
This product may have a mercury containing lamp. Manage in accord with Disposal Laws.
See: www.lamprecycle.org

Job Information Type:

For Factory Technical Information: (978) 657-7600 • Fax (978) 658-0595
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