

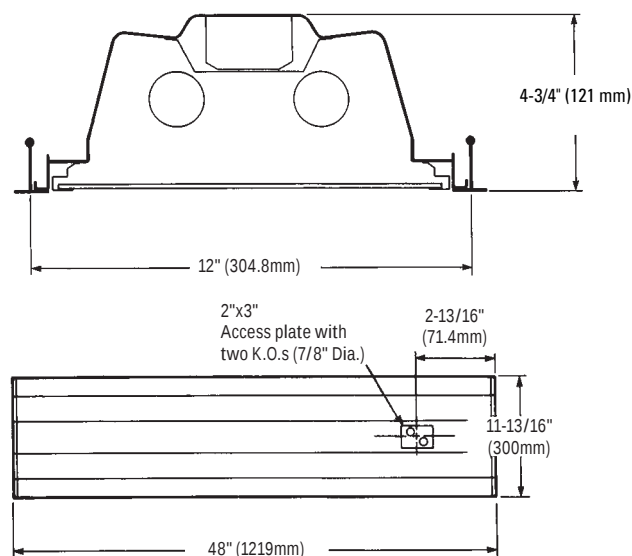


Guardsman **GVS SERIES 1x4**

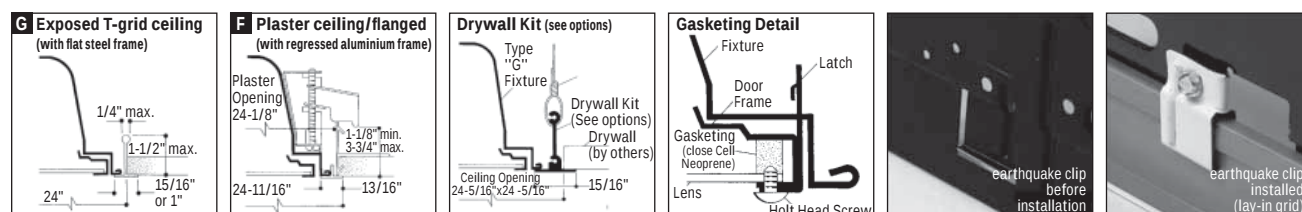
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Vandal Resistant 1'x4' Recessed Fluorescent
Static 1 or 2 Lamp T-8

Dimensions



Mounting Methods



Features

- Excellent for locations where vandal resistance is required
- Prismatic lens (VL) is 3/16" thick pattern 12, minimum impact strength, 130 foot pounds
- Prismatic lens (VK) is 9/64" thick pattern 12, minimum impact strength, 80 foot pounds
- Full perimeter gasketing (closed cell Neoprene) between door frame and lens
- Tamper resistant holt head screws secure lens to housing
- 4-3/4" deep body
- 62.2% efficient (T-8)
- Turned up edges for safe handling
- Black housing exterior for cooler ballast operating temperature
- Spring loaded rooster head latches
- 18 gauge steel hinges

Options & Accessories

Screwdriver: For holt head screw. Order Catalog Number **OP23622**.

Access Plate: Top wiring access plate is shipped with fixture as standard.

Electrical/Wiring Options: Consult factory.

Seismic Hold-Down Clip: For type G troffers.

Suffix: 2HD.

Fusing: Internal fast-blow fusing. Suffix: F.

Drywall Kit: Order Catalog Number: **FK91X4**. Request Folio OA30-10.

Job Information

Type:

Job Name:

Cat. No.:

Lamp(s):

Notes:

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Guardsman GVS SERIES 1x4

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Vandal Resistant 1'x4' Recessed Fluorescent
Static 1 or 2 Lamp T-8

Model No. GVS1GFSVK232120SO

Report Number: G01007
Catalog Number:
GVS1GFSVK232120SO
Lamps: 2 F32/T-8 TL841,
each rated 2850 lumens.
Luminaire: Vandal resistant troffer with
FS frame and VK lens
0.49 AMPS - 58.8 watts
Moto M2-RN-T8-1LL-120
Efficiency: 62.2%
Total reflectance of paint: 90.0-%
CIE Type-Direct
Plane: 0-Deg 90-Deg
Spacing Criteria: 1.2 1.3
Plane: 0-Deg 90-Deg
Luminous Length: 9.960 45.960

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	1486	1486	1486	1486	1486	
5	1470	1477	1481	1489	1493	141
15	1413	1426	1444	1467	1477	409
25	1302	1328	1369	1407	1421	630
35	1133	1175	1228	1260	1270	759
45	883	883	884	908	920	687
55	508	494	490	491	490	448
65	266	269	252	250	249	259
75	144	141	142	153	154	155
85	50	54	53	62	62	60
90	0	0	0	0	0	

Coefficients of utilization – zonal cavity method

	RF	20	20	20	20	20	20	20	20
	RC	80	50	30	10	50	30	10	50
	RW	70	50	30	10	50	30	10	50
room cavity ratio	1	68	66	63	62	60	58	59	58
	2	63	58	54	55	52	49	53	51
	3	58	52	47	49	46	42	47	44
	4	53	47	42	44	40	37	43	39
	5	49	42	37	40	36	32	39	35
	6	46	38	33	36	32	29	35	31
	7	43	35	30	33	29	26	32	28
	8	40	32	27	31	26	23	30	26
	9	37	29	24	28	24	21	28	24
	10	35	27	22	26	22	19	26	22

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1180	20.7	33.3
0- 40	1939	34.0	54.7
0- 60	3074	53.9	86.7
0- 90	3547	62.2	100.0
90-180	0	0.0	0.0
0-180	3547	62.29	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	4227.	4232.	4404.
55	2998.	2892.	2892.
65	2130.	2018.	1994.
75	1883.	1857.	2014.
85	1942.	2058.	2408.

Visual comfort probability

Room size		Ceiling height				Ceiling height			
W	L	8.5	10.0	13.0	16.0	8.5	10.0	18.0	16.0
20	20	59	63	69	74	59	63	69	73
20	30	52	56	60	65	51	56	61	65
20	40	48	51	55	59	47	50	55	59
20	60	45	48	51	54	43	47	50	54
30	20	60	64	69	73	60	65	69	73
30	30	53	56	60	64	52	56	61	64
30	40	48	51	54	57	47	50	54	58
30	60	45	48	49	53	43	46	49	53
30	80	44	46	46	50	41	44	45	49
40	20	61	66	70	74	62	66	70	73
40	30	54	58	61	65	53	57	61	65
40	40	49	52	55	58	48	51	55	58
40	60	45	48	49	52	43	46	49	52
40	80	44	46	46	49	41	44	45	48
40	100	43	45	44	47	41	42	43	46
60	30	55	59	62	66	54	58	62	66
60	40	50	53	55	58	49	52	55	59
60	60	46	48	49	53	44	47	48	52
60	80	44	46	46	49	42	44	45	48
60	100	43	45	44	46	41	42	42	45
100	40	53	55	57	61	52	55	57	61
100	60	49	50	51	54	47	49	50	54
100	80	46	48	47	50	44	46	46	49
100	100	45	46	45	47	43	44	43	45

Ordering Information

Explanation of Catalog Number. Example: GVB1SFSVL232120SO

GV	S	1	G	FS	VK	2	32	120	SO	
GUARDSMAN VANDAL RESISTANT	Static	Fixture Width	Ceiling Type: G = Grid (lay-in T bar)	Lens Frame: FS = Flat steel frame	Lens Shielding Type: VK = High impact .140 thick Prismatic Lens VL = High impact .187 thick Prismatic Lens	Lamp Quantity: 1 or 2 lamps	Lamp/Fixture Length: 32 = T-8 (Nominal 48")	Voltage: 120 or 277	Ballast Type: <20THD SO* HI* PS - *Instant Start Standard	Options: Add appropriate suffix to catalog no. 2 Lamp Elec. T-8 LOL Dimming (T-8)

Specifications

Performance: In an installation of 2 lamp 32W luminaires in a room cavity ratio of 1, with reflectance of 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .66. To prevent glare the VCP shall not be less than 44 either lengthwise or crosswise (at 100fc level) and the average brightness at 65° shall not exceed 2130 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 66.4%.

Materials: Chassis parts are die-formed code gauge cold rolled steel.

Housing is contoured for rigidity with all edges turned up for safe handling.

Finish: Chassis exterior – black baked polyester enamel. Cavity – white baked polyester enamel minimum 86% reflectance. Phosphate undercoating.

Lens: (VL) Prismatic lens is 3/16" thick, pattern 12, minimum impact strength, 130 foot pounds. (VK) Prismatic lens is 9/64" thick, pattern 12, minimum impact strength, 80 foot pounds.

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°.

Labels: I.B.E.W./UL and C-UL.

Job Information

Type:

Job Name:

Cat. No.:

Lamp(s):

Notes:

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