

**2 Lamp Over and Under
T8
Specular or Semi-Specular**

These fixtures meet the basic requirements of IESNA RP-1 for use in spaces containing Video Display Terminals.

APPLICATION

- Select one of the four air handling functions:
 - Static; non-air handling.
 - Heat transfer; air return through lamp compartment.
 - Air supply; (or air return) through side slots.
 - Combination; both heat transfer and air supply features listed above.
- Adjustable pattern control blades are optional.
- Air boots by others

CONSTRUCTION/FINISH

- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Access plate (2 K.O.'s) factory installed includes grounding screw.
- T Bar grid clips (UL listed, patent 436537) built into fixture end plates, no extra parts required.

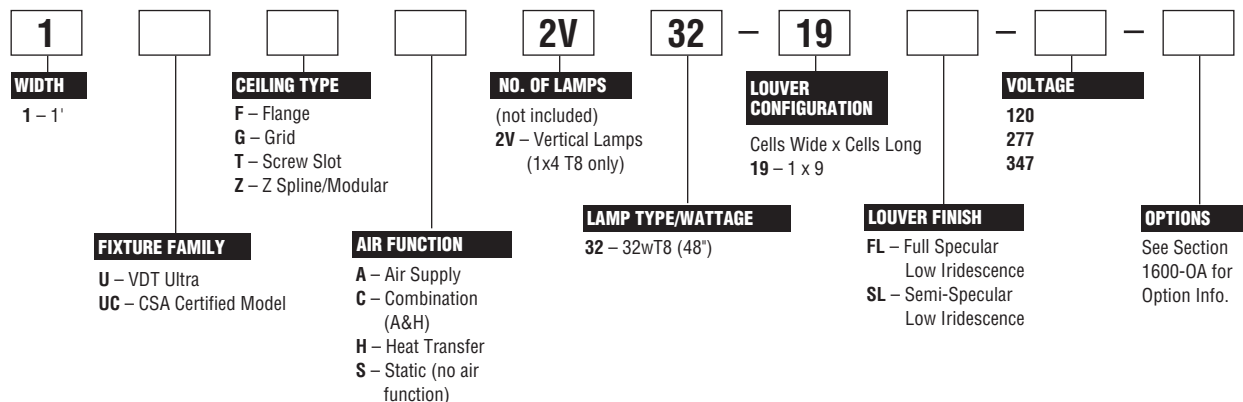
ELECTRICAL

- Class P, HPF, CBM certified ballasts comply with ©Federal Ballast Law (Public Law 100-357,1988).
- UL listed for damp locations. C.S.A. certified optional.
- Self-contained fluorescent emergency power pack (DEB-7B) can be incorporated.

ENCLOSURES

- Black reveal produces floating door appearance.
- Specular low iridescence anodized aluminum is standard for maximum brightness control and uniform appearance.
- Low iridescence aluminum minimizes the “rainbow effect” that can occur with Octron and other tri-phosphor lamps.
- Maximum average brightness meets the basic requirements of IESNA standard (Recommended Practice #1) for spaces with VDT's.
- Lamp shielding angles (F32 T8) of 38° crosswise and 37° lengthwise control brightness above 55° from nadir.
- Shipped with plastic film to keep out construction dirt.

CATALOG NUMBER



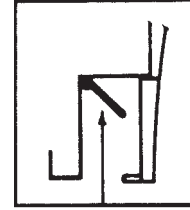
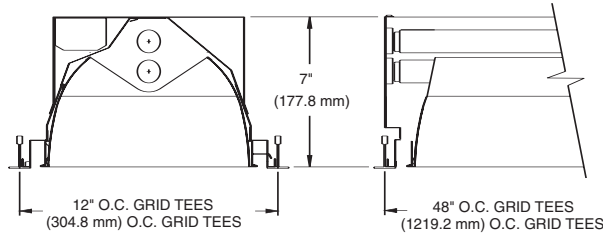
NOTES:

- With generic Electronic Ballasts (Brand selected by Day-Brite)
Suffix Catalog # with – **Ballast Quantity** – / – **EB** **Lamps Per Ballast.**

Example: –1/2-EB = One 2 Lamp Electronic Ballast.

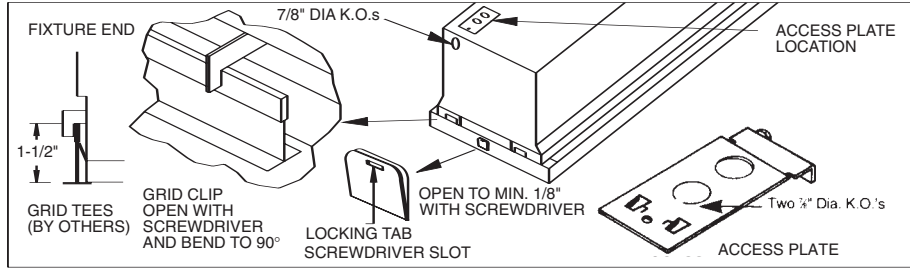
1' x 4' VDT ULTRA 2 LAMP

DIMENSIONS



Optional Air Pattern Control
(on Air and Combination Units)

- Fully adjustable
 - Closed= Static
 - 45°= Horizontal Air Supply
 - 90°= (fully open) – Vertical Air Supply
- Side Slots may also be used for Return Air to Plenum



PHOTOMETRIC DATA

CATALOG # 1UGS2V32-19FL-1/2-EB LAMPS = F32 T8
TEST #16381 S/MH=1.3 BALLAST = ELECTRONIC

INPUT WATTS = 59
BALLAST FACTOR = .92

LER = FP-54

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$4.44 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 60.0%

CANDLEPOWER				
Angle	End	45	Cross	
0	2063	2063	2063	
5	2061	2085	2088	
10	2035	2142	2209	
15	1982	2156	2164	
20	1917	2072	1977	
25	1818	1889	1920	
30	1636	1767	1928	
35	1413	1665	1686	
40	1108	1437	1362	
45	731	1049	877	
50	296	590	255	
55	30	166	30	
60	6	12	5	
65	4	3	3	
70	2	1	2	
75	2	1	1	
80	0	0	1	
85	0	0	0	

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.76 2900 Lumens/Lamp very clean
- Room width divided by room height = 5 or more, 2 or 1

Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
1' X 4'	5	–	97	58	41	–
2 Lamp	2	–	74	45	32	–
	1	–	58	35	–	–

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	3764	5402	4516
55	190	1054	190
65	34	26	26
75	28	14	14
85	0	0	0

TYPICAL V.C.P.'s

Room Size	Mounting Height			
	Lengthwise		Crosswise	
	8.5	10	8.5	10
30x30	99	98	99	98
40x40	99	99	100	99
60x30	99	99	100	99
60x60	100	99	100	99
100x100	100	100	100	100

COEFFICIENT OF UTILIZATION

pfc pcc pw RCR	20			70			50		
	70	50	30	70	50	30	50	30	50
0	70	70	70	69	69	69	67	67	67
1	68	66	64	66	64	63	61	60	60
2	64	59	56	61	58	56	56	55	55
3	59	55	52	57	54	51	53	50	50
4	56	50	46	55	50	46	47	45	45
5	52	46	41	51	46	41	45	40	40
6	48	42	38	47	41	38	40	38	38
7	46	39	34	45	39	34	38	34	34
8	42	35	32	41	35	32	34	32	32
9	40	34	29	40	33	29	33	28	28
10	38	30	27	38	30	27	30	27	27

LIGHT DISTRIBUTION

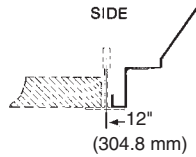
DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1668	28.8	48.0
0-40	2657	45.8	76.4
0-60	3473	59.9	99.9
0-90	3478	60.0	100.0

LLF = .76 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.88 @ 40% RATED LAMP LIFE BF = 0.92 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

1 U G S 2V 32

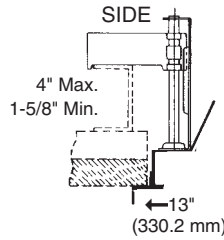
CEILING TYPE

G = GRID (NEMA G)



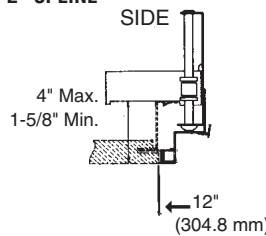
(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with tees for fixtures on 12" x 48" spacing.

F = FLANGE (NEMA F)



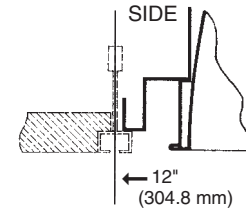
(NEMA Type F)
Flange for acoustical ceilings using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 4" max. and 1-5/8" min.

Z = (NEMA M/Z) MODULAR AND "Z" SPLINE



(NEMA M/Z)
Modular and "Z" Spline using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 4" max. and 1-5/8" min.

T = SCREW SLOT (NEMA SS)



Louvered fixture with louvers at the ceiling plane.
(NEMA Type SS)
Typical Screw Slot Ceiling System. Bottom of louver is flush with ceiling plane.

PHOTOMETRIC DATA

CATALOG # 1UGS2V32-19SL-1/2-EB
TEST # 16385 **S/MH**=1.3

LAMPS = F32 T8
BALLAST = ELECTRONIC

INPUT WATTS = 59
BALLAST FACTOR = .92

LER = FP-52

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **\$4.62** BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 57.4%

CANDLEPOWER				
Angle	End	45	Cross	
0	1937	1937	1937	
5	1942	1957	1964	
10	1913	1997	2062	
15	1856	2003	2024	
20	1779	1916	1907	
25	1670	1782	1843	
30	1507	1656	1818	
35	1299	1522	1617	
40	1034	1316	1301	
45	704	983	903	
50	344	590	334	
55	73	207	69	
60	29	38	25	
65	16	15	15	
70	9	9	9	
75	5	5	5	
80	2	3	2	
85	1	1	1	

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.76 2900 Lumens/Lamp very clean
- Room width divided by room height = 5 or more, 2 or 1

Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture			
		10 ft-c	30 ft-c	50 ft-c	70 ft-c
1' X 4' 2 Lamp	5	-	92	55	40
	2	-	71	42	30
	1	-	55	33	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS				
ANGLE	END	45°	CROSS	
45	3625	5062	4650	
55	463	1314	438	
65	138	129	129	
75	70	70	70	
85	42	42	42	

Room Mounting Height Size	TYPICAL V.C.P.'s Lengthwise Crosswise			
	8.5	10	8.5	10
30x30	98	97	99	97
40x40	99	98	99	98
60x30	99	98	99	98
60x60	99	99	100	99
100x100	100	99	100	99

COEFFICIENT OF UTILIZATION									
pfc	20			70			50		
	70	50	30	70	50	30	50	30	50
RCR									
0	68	68	68	67	67	67	64	64	64
1	65	63	60	63	60	59	58	57	57
2	60	56	55	58	56	54	54	52	52
3	56	52	48	56	52	47	50	46	46
4	53	47	44	52	46	44	46	42	42
5	50	44	40	48	42	40	41	39	39
6	46	40	35	46	40	35	39	35	35
7	44	36	33	42	36	33	35	33	33
8	40	34	29	40	34	29	33	29	29
9	38	32	28	38	32	28	30	28	28
10	35	29	26	35	28	26	28	25	25

LIGHT DISTRIBUTION			
DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1560	26.9	46.9
0-40	2479	42.7	74.5
0-60	3304	57.0	99.3
0-90	3327	57.4	100.0

LLF = .76 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90 LLD = 0.88 @ 40% RATED LAMP LIFE BF = 0.92 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

