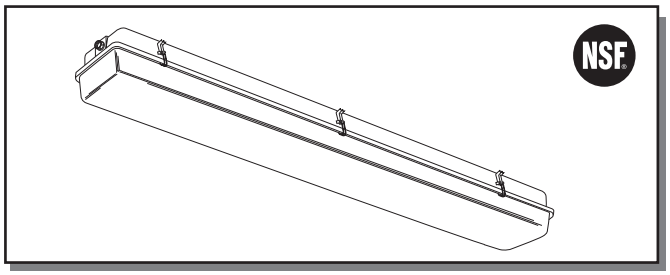
Day-Brite® Lighting

4' SPECIFICATION VAPORLUME



1, 2 or 3 Lamp T5, T5HO, T8, T12, Slimline, or High Output T8(380mA) or T12(800mA)

NSF Certified for Non-Food Zone Installations.

APPLICATION

- Acceptable for outdoor as well as indoor installations.
- **Wet Location**-Areas of high humidity, water vapor, rain, incidental water spray, or other non-corrosive or non-flammable liquid.
- IP67 rating standard.
- **Mounting brackets available, order separately.**
- High ambient models (28wT5/32wT8 only) rated for use in 130˚F ambient. Standard models carry the standard UL indoor rating of 25˚C (77˚F) ambient.
- IP67 rating.

CONSTRUCTION/FINISH

- Non-conductive, non-corrosive housing.
- Smooth exterior surface for easy cleaning.
- White molded fiberflass reinforced polyester body.
- High impact DR acrylic molded lens.
- Continuous closed cell, foam in-place gasket.
- Stainless steel cam action latches.
- Lighting channel painted after fabrication with polyester powder coating.
- Two gasketed threaded (1/2" trade size) wet location hubs installed on ends as standard, also available on top of housing.

ELECTRICAL

- Class P, HPF, CBM certified ballasts.
- Electronic ballasts are standard on high ambient and high output (44HO and 48HO) models, please include EB ballast designator in catalog number. Magnetic HO ballasts are more expensive than electronic and are suitable for cold ambient applications only.
- Self-contained fluorescent emergency ballasts available: Wet location only, use DEB-7W or DEB-5W.
- UL/cUL listed.
- Wet Location UL 1598, also suitable for damp locations.
- Day-Brite's standard luminaires for high output T8 (380mA) or T12 (800mA) include ballasts rated for -20°F starting temperature where available.

ACCESSORIES

- **TBK** – Stainless Steel Top Surface Mounting Brackets (pair)
- **EBK** – Stainless Steel End Surface Mounting Brackets (pair)
- **WBK** – Wraparound stainless steel brackets (pair) for surface or chain mounting
- **FKR-126** – Chain Hanger Set (requires TBK or TBKG)
- **TPDTH** – Tamperproof driver, Torx head pin drive (required with TR option)

CATALOG NUMBER

[ ] W [ ] [ ] [ ] [ ] – [ ] – [ ]

FAMILY
- **V2** – Vaporlume
- ***V2H** – Vaporlume High Ambient (130° F)

LENS
- **A** – DR Acrylic
- **P** – Polycarbonate

NO. OF LAMPS PER CROSS SECTION
- (not included)
- **1**
- **2**
- **3** (28wT5/32wT8 only)

VOLTAGE
- **120**
- **277**
- **347**
- **UNV -** Universal Voltage, 120-277 volt (28, 32, 54HO lamp types)

UL/cUL LISTED
- **W** – WET LOCATION

HUBS INSTALLED
- **E** – Ends (Standard)
- **B** – Both Ends & Top
- **T** – Top Only

LAMP TYPE/WATTAGE
- **28** – 28wT5 (46")
- **32** – 32wT8 (48")
- **40** – 40wT12 (48")
- **48** – 38wT12 Slimline (48")
- **44HO** – 44wT8 380 mA (48")
- **48HO** – 60wT12 800mA (48")
- **54HO** – 54wT5HO (46")

OPTIONS
- **1/2** – One 2-lamp ballast (electronic or non-standard)
- **1/3** – One 3-lamp ballast (electronic)
- **EB** – Electronic ballast, <20% THD
- **EBH** – High ballast factor electronic ballast (F32T8 only)
- **EB10I** – Electronic ballast, instant start, <10% THD (F32T8 only)
- **EB10R** – Electronic ballast, program rapid start, <10% THD (F32T8 only, std. for T5/T5HO)
- **E1** – DEB-1 emerg. ballast, T8, 350-450 lumens, UL dry loc.
- **E7** – DEB-7 emerg. ballast, 600-700 lumens, UL dry loc.
- **E5** – DEB-5 emerg. ballast, 1100-1400 lumens, UL dry loc.
- **E7W** – DEB-7W emerg. ballast, 600-700 lumens, UL wet loc.
- **E5W** – DEB-5W emerg. ballast, 1100-1400 lumens, UL wet loc.
- **GLR#** – Fusing, fast blow (# = number of ballasts)
- **LT** – Low temperature (0°F) start ballast (standard on T5/T5HO, F17T8, F32T8, HO, VHO)
- **TR** – Tamper resistant stainless steel latches (TPDTH tamperproof driver required)

*** 32 or 40 lamps only.**

See section 1600-OA for option info.

JOB INFORMATION

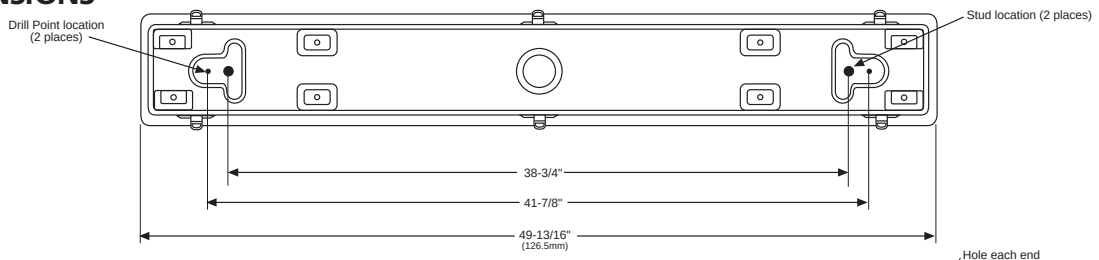
1504.4-PF

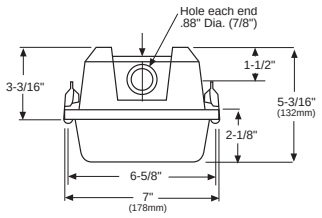
Job Name:
Type:

4' SPECIFICATION VAPORLUME

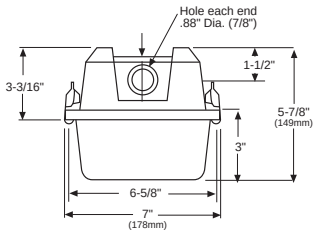
Day-Brite® Lighting

DIMENSIONS





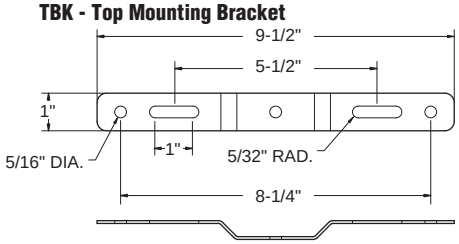
SHALLOW LENS VERSION (STANDARD)



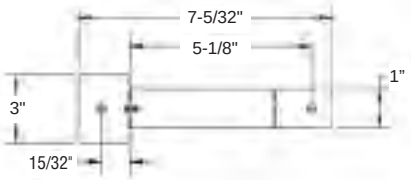
DEEP LENS VERSION FOR HIGH AMBIENT, OR WHEN 800mA LAMPS ARE OPERATED ON MAGNETIC BALLASTS.

MOUNTING BRACKETS

TBK - Top Mounting Bracket



EBK - End Mounting Bracket



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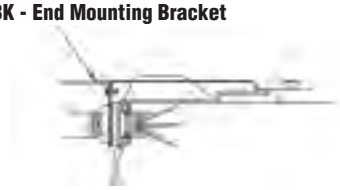

PHOTOMETRIC DATA

CATALOG # V2WAE232-120-1/2-EB **LAMPS =** F32T8 **INPUT WATTS =** 54
TEST #20017 **S/MH=**1.5 **BALLAST =** ELECTRONIC **BALLAST FACTOR =** .88

LER = F-79

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **$3.04** BASED ON 3000 HRS. AND $.08 PER KWH.

FIXTURE EFFICIENCY= 85.1%

CANDLEPOWER

Angle	End	45	Cross
0	1109	1109	1109
5	1102	1105	1104
15	1066	1096	1116
25	988	1063	1117
35	871	1007	1110
45	717	921	1065
55	528	796	973
65	336	661	867
75	174	552	739
85	53	369	511
95	19	199	323
105	15	112	190
115	7	56	83
125	3	28	39
135	2	13	23
145	4	7	13
155	4	4	6
165	5	5	7
175	6	7	8

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.75 2850 Lumens/Lamp 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
2-Lamp F32 T8	5	-	119	71	51	36
	2	-	77	46	33	-
	1	-	55	33	-	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2850 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	5162	5457	5986
55	4608	5337	6090
65	3872	5287	6339
75	3090	5685	6743
85	2194	5573	6459

TYPICAL V.C.P.'s

Room Size	Mounting Height Lengthwise 8.5	Lengthwise 10	Crosswise 8.5	Crosswise 10
30x30	30	37	24	30
40x40	26	30	21	25
60x30	31	36	27	33
60x60	24	26	19	21
100x100	22	23	18	19

COEFFICIENT OF UTILIZATION

pfc	20							
pcc	80			70			50	
pw	70	50	30	70	50	30	50	30
RCR								
0	100	100	100	95	95	95	91	91
1	88	82	78	84	80	76	75	71
2	79	70	64	76	68	61	64	58
3	70	60	53	68	58	52	56	48
4	65	54	45	61	52	44	48	41
5	58	47	39	56	46	38	42	36
6	55	42	34	53	40	34	39	32
7	51	38	29	48	36	29	34	28
8	46	34	27	45	34	27	32	26
9	44	32	25	41	30	23	28	23
10	40	28	22	40	28	22	27	20

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	905	15.9	18.7
0-40	1532	26.9	31.6
0-60	2923	51.3	60.3
0-90	4438	77.9	91.5
90-180	412	7.2	8.5
0-180	4850	85.1	100.0

LLF = .75 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.91 @ 40% RATED LAMP LIFE BF = 0.88 ELECTRONIC BALLAST &T8 LAMP (RELAMP AT 70% LAMP LIFE)

DAY-BRITE LIGHTING • www.daybritelighting.com
776 South Green Street • Tupelo, Mississippi 38804 • PH: (662) 842-7212 • FAX: (662) 841-5501
CANADIAN DIVISION
189 Bullock Drive • Markham, Ontario L3P 1W4 • PH: (905) 294-9570 • FAX: (905) 294-9811

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PHILIPS