

Product Information

Project Name	Type
Catalog Number	Date

SPECIFICATIONS

Features

- Hose down & wet location fixture is IP66 rated (Sensored units are IP65 rated).
- Poured in place gasket seals the enclosure from most hostile environments.
- Vandal resistant diffuser reduces replacement and maintenance costs.
- UL Sanitation Certified per NSF Standards.
- Economical mounting options can provide dramatic savings on the installation labor.
- Stainless steel mounting hardware options for cable & ceiling mount systems.
- Available in 4' and 8' lengths.
- Compact size with excellent light distribution.
- Superior color rendering (82 CRI, versus 65-70 for metal halide).
- Made In USA. Meets ARRA & Buy American requirements.

Construction

- Fiberglass housing & injection molded impact resistant acrylic lens
- Housing and lens are made with flame retardant 5VA (f1) fire rated materials
- Certain airborne contaminants can diminish integrity of acrylic. Consult factory for chemical compatibility.
- Stainless steel mounting brackets standard
- Secure locking plastic latches standard, tamper resistance ready
- Stainless steel latches optional, tamper resistance ready
- Tamper proof stainless steel screws optional
- Weight: 1x2-5 lbs. 1x4-8 lbs. 1x8-17 lbs.

Electrical

- Input Voltage Range: 100-277 VAC Nom. (90-305 V Min/Max)
- Lamp frequency: > 42 kHz
- Power Factor: >0.9% @ full load, 100V through 277V
- Harmonic Distortion: THD < 20% @ full load
- Protection: Over-Voltage, Over-Current & Short Circuit with self-recovery
- Compliant to FCC 47CFR Part 18 Non-consumer Class A Sound Rating
- Optional emergency battery backup
- Optional step down transformer, drops 480 VAC to 277 VAC



Certifications

- UL 1598 listed for Canada and U.S.
- Luminaires bear appropriate listing labels.
- Emergency-equipped fixtures labeled UL 924.
- UL Sanitation Certified per NSF Standards.

Mounting

- Use flexible conduit only.

Application

- Suitable up to 40°C/104°F, consult factory for additional environments.
- Suitable for use with most wired or wireless lighting control systems
- Suitable for wet locations such as:
 - Livestock containment buildings
 - Food processing facilities
 - Commercial kitchen
 - Industrial facilities
 - Under awnings
 - Cold storage
 - Car washes
 - Breweries

ORDERING INFORMATION

EXAMPLE VTG-1X4-2L-T5HO-UL1-MN-PS-ST-GT-SSL-RA-VAB

MODEL	LAMP QTY	BALLAST VOLTAGE ¹	BALLAST STARTING ³	REFLECTOR MATERIAL	CORD PLUG ⁵	OCC SENSOR ⁶	OTHER
VTG Vaportight	1L 1 Lamp (1x2, 1x4) 2L 2 Lamp (1x2, 1x4) 3L 3 Lamp (1x2, 1x4, T8 only) 4L 4 Lamp (1x8) 6L 6 Lamp (1x8, T8 Only)	ULx Universal 120-277 VAC UHx 347-480 VAC BALLAST FACTOR² LP Low Power (.75-.78) MP Medium Power (.85-.88) MN Neutral Power (.97-1.04) HP High Power (1.15-1.20)	IS Instant Start ISD Instant Start Step Dimming PS Programmed Start BALLAST GRADE ST Standard Grade UE Ultra Efficient T8	GT Standard Gear Tray, No Reflector EA Enhanced Aluminum 95% WA White Aluminum Reflector 90-91% OTHER SSL Stainless Steel Latches TP Tamper Proof SS Screws DCL Default Center Lamp ⁴ TRS Step Down Transformer (Takes 480 to 277 VAC) PC1 Photocell, 120 Volt Dedicated PC2 Photocell, 277 Volt Dedicated	C6 6' Cord, No Plug C6/L715 6' Cord & Plug (L7-15P) C6/515 6' Cord & Plug (515P)	WHx Wet Location High-Bay Sensor WLx Wet Location Low-Bay Sensor LENS TYPE RA Ribbed Acrylic, Impact Resistant (standard) RFA Ribbed Frosted Acrylic, Impact Resistant RP Ribbed Polycarbonate ⁷ RFP Ribbed Frosted Polycarbonate ⁷ DCA Deep Clear Acrylic ⁸ DFA Deep Frosted Acrylic ⁸	VAB VTG 45° Angled Brackets VTV Mini Bail V-Hangers EB Emergency Battery Backup 1PK Individually Boxed Fixture

FOOTNOTES

1. Numeral indicates number of ballasts per fixture.
2. "MN" Ballast factor not for use with T8/ISD or T8/PS.
3. When using UL2, identify number of lamps powered by each ballast before starting method. Largest number first. Ex: 33IS = 6LT8.
4. Requires occupancy sensor. See RWS spec sheet for details on DCL option High-Low Controls.
5. Contact factory for additional cord and mounting options.
6. Numeral indicates number of lamps controlled, HBA is std. For Wattstopper, specify -WS after sensor option.
7. Polycarbonate lenses available on 2' and 4' only.
8. 4' and 8' only.

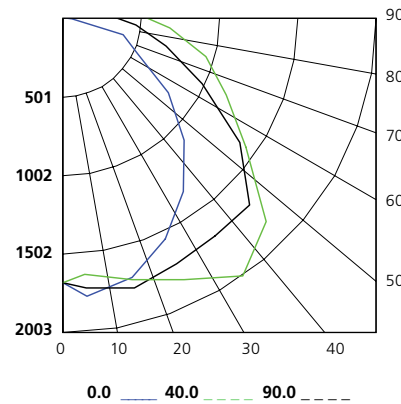
PHOTOMETRIC DATA

PHOTOMETRIC DATA: VTG-1X4-2L-T5HO-UL1-MN-PS-ST-EA

LUMINAIRE DATA

Luminaire	VTG-1X4-2L-T5HO-UL1-MN-PS-ST-EA 1X4 Vaportight
Ballast	ICN-2S54
Ballast Factor	1.00
Lamp	F54
Fixture Lumens	7433
Watts	103
Fixture Efficiency	74%
Mounting	Suspended & Ceiling
Shielding Angle	N.A.
Spacing Criterion	0° = 1.28 90° = 1.72
Luminous Opening in feet	Length: 4.19 Width: 0.49 Height: 0.16

INDOOR CANDELA PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1019	10	14
0-40	1953	20	26
0-60	4278	43	58
0-90	6971	69	93

AVG. LUMINANCE (Candela/Sq. M.)

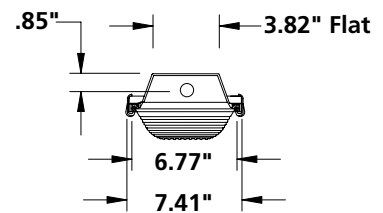
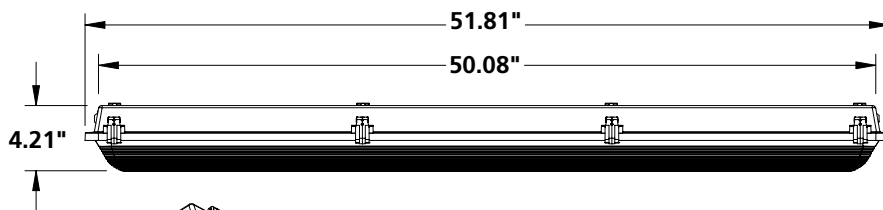
	0.0	22.5	45.0	67.5	90
Average Luminance Angle	0	1688	1688	1688	1688
	5	1781	1762	1725	1665
	15	1709	1742	1778	1744
	25	1551	1642	1726	1814
	35	1345	1477	1694	1933
	45	1099	1289	1685	1813
	55	825	1052	1380	1422
	65	527	795	982	1114
	75	400	434	681	875
	85	61	222	470	627

COEFFICIENTS OF UTILIZATION (%)

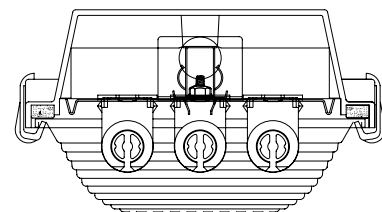
RC	RW	80				70				50			0
		70	50	30	10	70	50	30	10	50	30	10	0
0	87	87	87	87	85	85	85	85	80	80	80	69	
1	76	71	67	63	73	69	65	61	65	61	58	51	
2	68	60	54	48	65	58	52	47	54	49	45	39	
3	61	51	44	38	58	50	43	38	47	41	36	31	
4	55	45	37	31	53	43	36	31	41	35	30	26	
5	50	39	32	26	48	38	31	26	36	30	25	21	
6	46	35	27	22	44	34	27	22	32	26	21	18	
7	42	31	24	19	41	30	23	19	29	22	18	15	
8	39	28	21	16	38	27	21	16	26	20	16	13	
9	36	25	19	14	35	25	18	14	24	18	14	12	
10	34	23	17	13	33	23	17	13	22	16	12	10	

RCR = Room Cavity Ratio RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

FIXTURE DIMENSIONS



3 LAMP CROSS SECTION



*Drawings N.T.S.

EXISTING VS. PROPOSED SYSTEM

Existing Lamp/Ballast System	Lamp Quantity & Type	Mean Lumens Per Lamp	Mean Lumens Per Fixture	Ballast Factor	Net Lumens Per Fixture	Input Watts	Net Lumens Per Watt
2L40-T12 Mag	2 F32T8/741	2,660	4,560	0.88	4,013	72	56
3L40-T12 Mag	3 F40/T12/WM	2,280	6,840	0.88	6,019	115	52
4L40-T12 Mag	4 F40/T12/WM	2,280	9,120	0.88	8,026	144	56
1L96-T12 Mag	1 F96/T12/ES	4,750	4,750	0.88	4,180	76	55
2L96-T12 Mag	2 F96/T12/ES	4,750	9,500	0.88	8,360	126	66
1L96-T12HO Mag	1 F96/T12HO/ES	6,950	6,950	0.95	6,603	125	53
2L96-T12HO Mag	2 F96/T12HO/ES	6,950	13,900	0.93	12,927	210	62

Proposed Lamp/Ballast System	Lamp Quantity & Type	Mean Lumens Per Lamp	Mean Lumens Per Fixture	Ballast Factor	Net Lumens Per Fixture	Input Watts	Net Lumens Per Watt
1L32-T8-MP-Elec	1 F32T8/841	2,800	2,800	0.87	2,436	28	87
2L32-T8-LP Elec	2 F32T8/841	2,800	5,600	0.77	4,312	48	90
2L32-T8-MP Elec	2 F32T8/841	2,800	5,600	0.87	4,872	53	92
2L32-T8-HP Elec	2 F32T8/841	2,800	5,600	1.15	6,440	73	88
2L28-T5-MN Elec	2 F28T5/841	2,660	5,320	0.96	5,107	59	87
2L54-T5HO-MN Elec	2 F54T5HO/841	4,600	9,200	1.00	9,200	114	81

*Lamp/ballast system values shown are a general reference intended to supply a quick comparison of several common lamp/ballast systems, the associated energy consumption, and net lumen output.

*Values shown are based on normal operating temperatures (25°C T8 and 35°C T5) and at 277 volts.

*Fixture efficiency percentages are generally representative of each system type, actual values will vary.

*There are many operating variables that affect system output, in addition to rating variances from brand to brand.

*All T8 electronic ballast values shown are based on Ultra Efficient (aka 3rd Generation) T8 ballasts.

*All T5 and T8 lamp values shown are for basic grade lamps. Extended life and higher lumen lamp types are available.

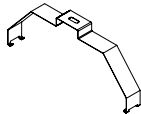
*In addition to those shown, there are a wide variety of systems to choose from, each with distinct features and cost points.

*Please consult the lamp/ballast manufacturer's catalogs for the detailed information required to model your system.

MOUNTING OPTIONS

SUSPENDED

VMB-VAPORTIGHT MOUNTING BRACKETS
Included

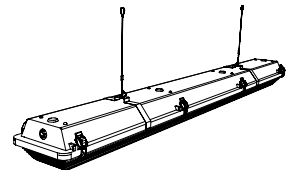


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GRIPPLE LOOP
Order Separately

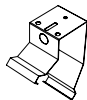


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SUSPENDED

VAB-VTG 45° ANGLED BRACKET
Optional

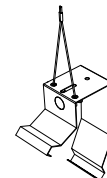


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GRIPPLE Y-TOGGLE
Order Separately

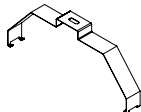


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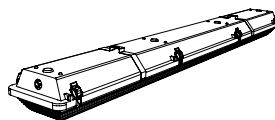


SURFACE

VMB-VAPORTIGHT MOUNTING BRACKETS
Included



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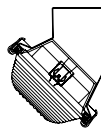


SURFACE

VAB-VTG 45° ANGLED BRACKET
Optional



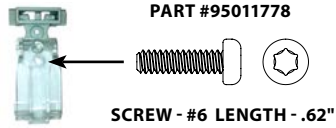
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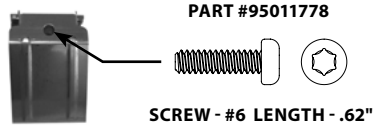
*Contact the Service Hub for additional mounting options including stainless steel availability.

TAMPER RESISTANT LATCHES

**PLASTIC LATCHES:
TAMPER RESISTANT SCREWS (OPTIONAL)**



**STAINLESS STEEL LATCHES:
TAMPER RESISTANT SCREWS (OPTIONAL)**



NOTES:
*Torx screwdriver required for tamper resistant screws.
*Images N.T.S.