



# TMU125050CL8TWH



## 22" 6-CCT SELECTABLE LINEARHO DC MODULE, 1250mA MAX CURRENT

- 27K/30K/35K/40K/45K/50K 6-CCT Selectable
- Extruded Aluminum material for thermal management
- Magnets pre-mounted, for ease of installation
- High lumen, high efficacy, suitable for DLC 6.0
- Accessories: Diffused lens and End-Caps available
- For use in UL Class 2 lighting systems
- Suitable for DLC applications: L70>60,000hrs / L90>60,000hrs
- Meets UL8750 recognized
- RoHS compliant
- The module is supplied by short circuit proof SELV controlgear

### General Specifications

	2700K/80CRI	3000K/80CRI	3500K/80CRI	4000K/80CRI	4500K/80CRI	5000K/80CRI
Input Voltage <sup>①</sup>	34.5VDC	34.5VDC	34.5VDC	34.5VDC	34.5VDC	34.5VDC
Input Current <sup>①</sup>	1250mA(Max.)	1250mA(Max.)	1250mA(Max.)	1250mA(Max.)	1250mA(Max.)	1250mA(Max.)
Input Power <sup>①</sup>	43.2W	43.2W	43.2W	43.2W	43.2W	43.2W
Initial Lumens	7,181 lumens	7,387 lumens	7,593 lumens	7,791 lumens	7,948 lumens	8,078 lumens
Initial Lm/W	166 lm/W	171 lm/W	176 lm/W	180 lm/W	184 lm/W	187 lm/W
Beam Angle	120°					
CRI	80CRI Standard; 90CRI Optional					
Storage Temperature Range	-40°C to 100°C / -40°F to 212°F					
Operating Temperature Range (ta)	-40°C to 55°C / -40°F to 131°F					
Maximum Case Temperature (Tc)	L70: Tc max 105°C/ L90: Tc max 105°C					
Estimated Lumen Maintenance <sup>②</sup>	L70: >60,000Hrs / L90: >60,000Hrs					
Color Consistency	Binning per ANSI C78.377-2015 @ 25°C; 3 SDCM Typ.; 6 SDCM Max.					
Overall Size	22" x 1.73" x 0.453" (560mm x 44mm x 11.5mm)					
PCB Material / Thermal Conductivity	FR4 1.0W/mK					
Extruded Material / Finish	Aluminum/surface treatment with Anodic Oxidation					
LED Quantity	96pcs CW + 96pcs WW					
Module Weight	110g / 0.24lb.					
PCB Part Number	PTL099C01F4					
Magnets Quantity / Magnetic Force	2 / 2N (.45lbf) per magnet					
Maximum Screw Installation Torque	25 inch - ounces					
Connector Type	WAGO #744-392 (2 pin connector)					
Packaging: Master Carton	20pcs.					
Thermal Feedback	Not Available					
Safety/Compliance	cURus (File # E351548) Suitable for UL Class 2 Lighting Systems RoHS Compliant Dry and Damp Location CE (IEC 62031: 2008. AMD1: 2012, AMD2: 2014) SELV					
Energy Efficiency Label (EEI-Label)	C					
Warranty	5 years @ Max. Tc from the date of manufacture					

<sup>①</sup>Nominal ratings. Performance based on Tc mod = 25°C. See thermal de-rating chart (pg. 6) for higher temperature operation.

<sup>②</sup>TM-21 Reported Numbers

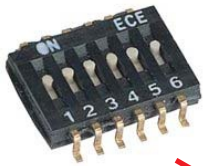


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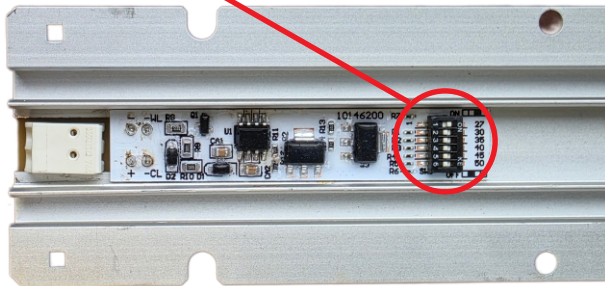
## CCT Selection Indication

1. The VividHorse LinearHO DC Module is a dual-channel LED product that allows for CCT selection via a dip switch on the PCB. Available CCTs include 2700K, 3000K, 3500K, 4000K, 4500K and 5000K.
2. A pre-set CCT will come from the factory. Check the product label or packaging to see the pre-set level.
3. Change the CCT dip switch to set the desired CCT level.

**NOTE: This is a Field Adjustable Color Temperature (FACT) product that enables the user to make adjustments to the Correlated Color Temperature (CCT) at the time of installation. Field adjustable parameters are not intended to be changed in the normal course of luminaire operation.**



CCT Selection Dip Switch



CCT Indication Table

	1	2	3	4	5	6
2700K	ON	OFF	OFF	OFF	OFF	OFF
3000K	OFF	ON	OFF	OFF	OFF	OFF
3500K	OFF	OFF	ON	OFF	OFF	OFF
4000K	OFF	OFF	OFF	ON	OFF	OFF
4500K	OFF	OFF	OFF	OFF	ON	OFF
5000K	OFF	OFF	OFF	OFF	OFF	ON

2700K

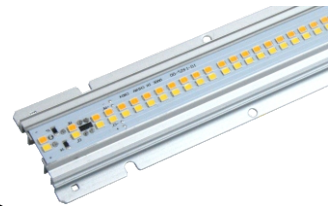
3000K

3500K

4000K

4500K

5000K



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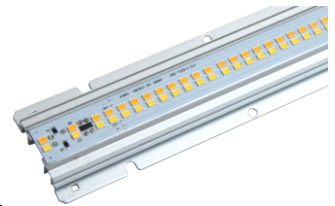
## Electrical and Optical Specifications

### 2700K CCT

LED Module Part Number	Number of LED	Input Current	Nom. Forward Voltage	Nom. Rated Power	Max. Fwd. Voltage	Max. Rated Power	Nom. Lum. Flux @2700K/80 CRI	Nom. Efficacy @2700K/80 CRI	Nom. Lum. Flux per foot @2700K/80CRI	Nom. Lum. Flux per string @2700K/80CRI
TMU125050CL8TWH (22")	96+96	200 mA	31.7 V	6.3 W	34 V	7 W	1192 lm	188 lm/W	650 lm/ft	149 lm/string
		250 mA	31.9 V	8.0 W	34 V	9 W	1491 lm	187 lm/W	813 lm/ft	186 lm/string
		300 mA	32.0 V	9.6 W	34 V	10 W	1789 lm	186 lm/W	976 lm/ft	224 lm/string
		350 mA	32.2 V	11.3 W	34 V	12 W	2086 lm	185 lm/W	1138 lm/ft	261 lm/string
		400 mA	32.4 V	13.0 W	35 V	14 W	2382 lm	184 lm/W	1299 lm/ft	298 lm/string
		450 mA	32.5 V	14.6 W	35 V	16 W	2677 lm	183 lm/W	1460 lm/ft	335 lm/string
		500 mA	32.7 V	16.3 W	35 V	18 W	2970 lm	182 lm/W	1620 lm/ft	371 lm/string
		550 mA	32.8 V	18.1 W	35 V	19 W	3262 lm	181 lm/W	1779 lm/ft	408 lm/string
		600 mA	33.0 V	19.8 W	35 V	21 W	3553 lm	180 lm/W	1938 lm/ft	444 lm/string
		650 mA	33.1 V	21.5 W	35 V	23 W	3842 lm	179 lm/W	2096 lm/ft	480 lm/string
		700 mA	33.2 V	23.3 W	36 V	25 W	4130 lm	178 lm/W	2252 lm/ft	516 lm/string
		750 mA	33.4 V	25.0 W	36 V	27 W	4416 lm	177 lm/W	2409 lm/ft	552 lm/string
		800 mA	33.5 V	26.8 W	36 V	29 W	4700 lm	176 lm/W	2564 lm/ft	588 lm/string
		850 mA	33.6 V	28.6 W	36 V	31 W	4983 lm	175 lm/W	2718 lm/ft	623 lm/string
		900 mA	33.7 V	30.3 W	36 V	32 W	5264 lm	174 lm/W	2871 lm/ft	658 lm/string
		950 mA	33.8 V	32.1 W	36 V	34 W	5544 lm	173 lm/W	3024 lm/ft	693 lm/string
		1000 mA	33.9 V	33.9 W	36 V	36 W	5821 lm	172 lm/W	3175 lm/ft	728 lm/string
1050 mA	34.1 V	35.8 W	36 V	38 W	6097 lm	171 lm/W	3326 lm/ft	762 lm/string		
1100 mA	34.2 V	37.6 W	37 V	41 W	6371 lm	169 lm/W	3475 lm/ft	796 lm/string		
1150 mA	34.3 V	39.4 W	37 V	43 W	6643 lm	168 lm/W	3623 lm/ft	830 lm/string		
1200 mA	34.4 V	41.3 W	37 V	44 W	6913 lm	167 lm/W	3771 lm/ft	864 lm/string		
1250 mA*	34.5 V	43.2 W	37 V	46 W	7181 lm	166 lm/W	3917 lm/ft	898 lm/string		

### 3000K CCT

LED Module Part Number	Number of LED	Input Current	Nom. Forward Voltage	Nom. Rated Power	Max. Fwd. Voltage	Max. Rated Power	Nom. Lum. Flux @3000K/80 CRI	Nom. Efficacy @3000K/80 CRI	Nom. Lum. Flux per foot @3000K/80CRI	Nom. Lum. Flux per string @3000K/80CRI
TMU125050CL8TWH (22")	96+96	200 mA	31.7 V	6.3 W	34 V	7 W	1226 lm	194 lm/W	669 lm/ft	153 lm/string
		250 mA	31.9 V	8.0 W	34 V	9 W	1534 lm	193 lm/W	837 lm/ft	192 lm/string
		300 mA	32.0 V	9.6 W	34 V	10 W	1841 lm	191 lm/W	1004 lm/ft	230 lm/string
		350 mA	32.2 V	11.3 W	34 V	12 W	2146 lm	190 lm/W	1171 lm/ft	268 lm/string
		400 mA	32.4 V	13.0 W	35 V	14 W	2451 lm	189 lm/W	1337 lm/ft	306 lm/string
		450 mA	32.5 V	14.6 W	35 V	16 W	2754 lm	188 lm/W	1502 lm/ft	344 lm/string
		500 mA	32.7 V	16.3 W	35 V	18 W	3056 lm	187 lm/W	1667 lm/ft	382 lm/string
		550 mA	32.8 V	18.1 W	35 V	19 W	3356 lm	186 lm/W	1831 lm/ft	419 lm/string
		600 mA	33.0 V	19.8 W	35 V	21 W	3655 lm	185 lm/W	1994 lm/ft	457 lm/string
		650 mA	33.1 V	21.5 W	35 V	23 W	3952 lm	184 lm/W	2156 lm/ft	494 lm/string
		700 mA	33.2 V	23.3 W	36 V	25 W	4248 lm	183 lm/W	2317 lm/ft	531 lm/string
		750 mA	33.4 V	25.0 W	36 V	27 W	4543 lm	182 lm/W	2478 lm/ft	568 lm/string
		800 mA	33.5 V	26.8 W	36 V	29 W	4835 lm	181 lm/W	2637 lm/ft	604 lm/string
		850 mA	33.6 V	28.6 W	36 V	31 W	5126 lm	180 lm/W	2796 lm/ft	641 lm/string
		900 mA	33.7 V	30.3 W	36 V	32 W	5415 lm	179 lm/W	2954 lm/ft	677 lm/string
		950 mA	33.8 V	32.1 W	36 V	34 W	5703 lm	177 lm/W	3111 lm/ft	713 lm/string
		1000 mA	33.9 V	33.9 W	36 V	36 W	5989 lm	176 lm/W	3266 lm/ft	749 lm/string
1050 mA	34.1 V	35.8 W	36 V	38 W	6272 lm	175 lm/W	3421 lm/ft	784 lm/string		
1100 mA	34.2 V	37.6 W	37 V	41 W	6554 lm	174 lm/W	3575 lm/ft	819 lm/string		
1150 mA	34.3 V	39.4 W	37 V	43 W	6834 lm	173 lm/W	3727 lm/ft	854 lm/string		
1200 mA	34.4 V	41.3 W	37 V	44 W	7111 lm	172 lm/W	3879 lm/ft	889 lm/string		
1250 mA*	34.5 V	43.2 W	37 V	46 W	7387 lm	171 lm/W	4029 lm/ft	923 lm/string		



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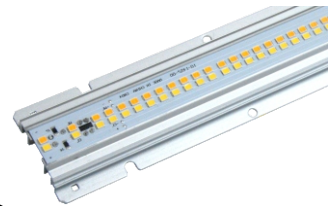
## Electrical and Optical Specifications

### 3500K CCT

LED Module Part Number	Number of LED	Input Current	Nom. Forward Voltage	Nom. Rated Power	Max. Fwd. Voltage	Max. Rated Power	Nom. Lum. Flux @3500K/80 CRI	Nom. Efficacy @3500K/80 CRI	Nom. Lum. Flux per foot @3500K/80CRI	Nom. Lum. Flux per string @3500K/80CRI
TMU125050CL8TWH (22")	96+96	200 mA	31.7 V	6.3 W	34 V	7 W	1260 lm	199 lm/W	687 lm/ft	158 lm/string
		250 mA	31.9 V	8.0 W	34 V	9 W	1577 lm	198 lm/W	860 lm/ft	197 lm/string
		300 mA	32.0 V	9.6 W	34 V	10 W	1892 lm	197 lm/W	1032 lm/ft	237 lm/string
		350 mA	32.2 V	11.3 W	34 V	12 W	2206 lm	196 lm/W	1203 lm/ft	276 lm/string
		400 mA	32.4 V	13.0 W	35 V	14 W	2519 lm	194 lm/W	1374 lm/ft	315 lm/string
		450 mA	32.5 V	14.6 W	35 V	16 W	2831 lm	193 lm/W	1544 lm/ft	354 lm/string
		500 mA	32.7 V	16.3 W	35 V	18 W	3141 lm	192 lm/W	1713 lm/ft	393 lm/string
		550 mA	32.8 V	18.1 W	35 V	19 W	3450 lm	191 lm/W	1882 lm/ft	431 lm/string
		600 mA	33.0 V	19.8 W	35 V	21 W	3757 lm	190 lm/W	2049 lm/ft	470 lm/string
		650 mA	33.1 V	21.5 W	35 V	23 W	4063 lm	189 lm/W	2216 lm/ft	508 lm/string
		700 mA	33.2 V	23.3 W	36 V	25 W	4367 lm	188 lm/W	2382 lm/ft	546 lm/string
		750 mA	33.4 V	25.0 W	36 V	27 W	4670 lm	187 lm/W	2547 lm/ft	584 lm/string
		800 mA	33.5 V	26.8 W	36 V	29 W	4970 lm	186 lm/W	2711 lm/ft	621 lm/string
		850 mA	33.6 V	28.6 W	36 V	31 W	5269 lm	185 lm/W	2874 lm/ft	659 lm/string
		900 mA	33.7 V	30.3 W	36 V	32 W	5567 lm	184 lm/W	3036 lm/ft	696 lm/string
		950 mA	33.8 V	32.1 W	36 V	34 W	5862 lm	182 lm/W	3198 lm/ft	733 lm/string
		1000 mA	33.9 V	33.9 W	36 V	36 W	6156 lm	181 lm/W	3358 lm/ft	769 lm/string
1050 mA	34.1 V	35.8 W	36 V	38 W	6447 lm	180 lm/W	3517 lm/ft	806 lm/string		
1100 mA	34.2 V	37.6 W	37 V	41 W	6737 lm	179 lm/W	3675 lm/ft	842 lm/string		
1150 mA	34.3 V	39.4 W	37 V	43 W	7025 lm	178 lm/W	3832 lm/ft	878 lm/string		
1200 mA	34.4 V	41.3 W	37 V	44 W	7310 lm	177 lm/W	3987 lm/ft	914 lm/string		
1250 mA*	34.5 V	43.2 W	37 V	46 W	7593 lm	176 lm/W	4142 lm/ft	949 lm/string		

### 4000K CCT

LED Module Part Number	Number of LED	Input Current	Nom. Forward Voltage	Nom. Rated Power	Max. Fwd. Voltage	Max. Rated Power	Nom. Lum. Flux @4000K/80 CRI	Nom. Efficacy @4000K/80 CRI	Nom. Lum. Flux per foot @4000K/80CRI	Nom. Lum. Flux per string @4000K/80CRI
TMU125050CL8TWH (22")	96+96	200 mA	31.7 V	6.3 W	34 V	7 W	1293 lm	204 lm/W	705 lm/ft	162 lm/string
		250 mA	31.9 V	8.0 W	34 V	9 W	1618 lm	203 lm/W	882 lm/ft	202 lm/string
		300 mA	32.0 V	9.6 W	34 V	10 W	1941 lm	202 lm/W	1059 lm/ft	243 lm/string
		350 mA	32.2 V	11.3 W	34 V	12 W	2264 lm	201 lm/W	1235 lm/ft	283 lm/string
		400 mA	32.4 V	13.0 W	35 V	14 W	2585 lm	200 lm/W	1410 lm/ft	323 lm/string
		450 mA	32.5 V	14.6 W	35 V	16 W	2904 lm	198 lm/W	1584 lm/ft	363 lm/string
		500 mA	32.7 V	16.3 W	35 V	18 W	3223 lm	197 lm/W	1758 lm/ft	403 lm/string
		550 mA	32.8 V	18.1 W	35 V	19 W	3539 lm	196 lm/W	1931 lm/ft	442 lm/string
		600 mA	33.0 V	19.8 W	35 V	21 W	3855 lm	195 lm/W	2103 lm/ft	482 lm/string
		650 mA	33.1 V	21.5 W	35 V	23 W	4168 lm	194 lm/W	2274 lm/ft	521 lm/string
		700 mA	33.2 V	23.3 W	36 V	25 W	4481 lm	193 lm/W	2444 lm/ft	560 lm/string
		750 mA	33.4 V	25.0 W	36 V	27 W	4791 lm	192 lm/W	2613 lm/ft	599 lm/string
		800 mA	33.5 V	26.8 W	36 V	29 W	5100 lm	190 lm/W	2782 lm/ft	637 lm/string
		850 mA	33.6 V	28.6 W	36 V	31 W	5407 lm	189 lm/W	2949 lm/ft	676 lm/string
		900 mA	33.7 V	30.3 W	36 V	32 W	5712 lm	188 lm/W	3115 lm/ft	714 lm/string
		950 mA	33.8 V	32.1 W	36 V	34 W	6015 lm	187 lm/W	3281 lm/ft	752 lm/string
		1000 mA	33.9 V	33.9 W	36 V	36 W	6316 lm	186 lm/W	3445 lm/ft	789 lm/string
1050 mA	34.1 V	35.8 W	36 V	38 W	6615 lm	185 lm/W	3608 lm/ft	827 lm/string		
1100 mA	34.2 V	37.6 W	37 V	41 W	6912 lm	184 lm/W	3770 lm/ft	864 lm/string		
1150 mA	34.3 V	39.4 W	37 V	43 W	7207 lm	183 lm/W	3931 lm/ft	901 lm/string		
1200 mA	34.4 V	41.3 W	37 V	44 W	7500 lm	182 lm/W	4091 lm/ft	938 lm/string		
1250 mA*	34.5 V	43.2 W	37 V	46 W	7791 lm	180 lm/W	4250 lm/ft	974 lm/string		



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## Electrical and Optical Specifications

### 4500K CCT

LED Module Part Number	Number of LED	Input Current	Nom. Forward Voltage	Nom. Rated Power	Max. Fwd. Voltage	Max. Rated Power	Nom. Lum. Flux @4500K/80 CRI	Nom. Efficacy @4500K/80 CRI	Nom. Lum. Flux per foot @4500K/80CRI	Nom. Lum. Flux per string @4500K/80CRI
TMU125050CL8TWH (22")	96+96	200 mA	31.7 V	6.3 W	34 V	7 W	1319 lm	208 lm/W	719 lm/ft	165 lm/string
		250 mA	31.9 V	8.0 W	34 V	9 W	1650 lm	207 lm/W	900 lm/ft	206 lm/string
		300 mA	32.0 V	9.6 W	34 V	10 W	1980 lm	206 lm/W	1080 lm/ft	248 lm/string
		350 mA	32.2 V	11.3 W	34 V	12 W	2309 lm	205 lm/W	1260 lm/ft	289 lm/string
		400 mA	32.4 V	13.0 W	35 V	14 W	2637 lm	204 lm/W	1438 lm/ft	330 lm/string
		450 mA	32.5 V	14.6 W	35 V	16 W	2963 lm	202 lm/W	1616 lm/ft	370 lm/string
		500 mA	32.7 V	16.3 W	35 V	18 W	3288 lm	201 lm/W	1793 lm/ft	411 lm/string
		550 mA	32.8 V	18.1 W	35 V	19 W	3611 lm	200 lm/W	1970 lm/ft	451 lm/string
		600 mA	33.0 V	19.8 W	35 V	21 W	3932 lm	199 lm/W	2145 lm/ft	492 lm/string
		650 mA	33.1 V	21.5 W	35 V	23 W	4252 lm	198 lm/W	2320 lm/ft	532 lm/string
		700 mA	33.2 V	23.3 W	36 V	25 W	4571 lm	197 lm/W	2493 lm/ft	571 lm/string
		750 mA	33.4 V	25.0 W	36 V	27 W	4888 lm	195 lm/W	2666 lm/ft	611 lm/string
		800 mA	33.5 V	26.8 W	36 V	29 W	5202 lm	194 lm/W	2838 lm/ft	650 lm/string
		850 mA	33.6 V	28.6 W	36 V	31 W	5516 lm	193 lm/W	3008 lm/ft	689 lm/string
		900 mA	33.7 V	30.3 W	36 V	32 W	5827 lm	192 lm/W	3178 lm/ft	728 lm/string
		950 mA	33.8 V	32.1 W	36 V	34 W	6136 lm	191 lm/W	3347 lm/ft	767 lm/string
		1000 mA	33.9 V	33.9 W	36 V	36 W	6443 lm	190 lm/W	3515 lm/ft	805 lm/string
1050 mA	34.1 V	35.8 W	36 V	38 W	6749 lm	189 lm/W	3681 lm/ft	844 lm/string		
1100 mA	34.2 V	37.6 W	37 V	41 W	7052 lm	188 lm/W	3846 lm/ft	881 lm/string		
1150 mA	34.3 V	39.4 W	37 V	43 W	7353 lm	186 lm/W	4011 lm/ft	919 lm/string		
1200 mA	34.4 V	41.3 W	37 V	44 W	7651 lm	185 lm/W	4174 lm/ft	956 lm/string		
1250 mA*	34.5 V	43.2 W	37 V	46 W	7948 lm	184 lm/W	4335 lm/ft	993 lm/string		

### 5000K CCT

LED Module Part Number	Number of LED	Input Current	Nom. Forward Voltage	Nom. Rated Power	Max. Fwd. Voltage	Max. Rated Power	Nom. Lum. Flux @5000K/80 CRI	Nom. Efficacy @5000K/80 CRI	Nom. Lum. Flux per foot @5000K/80CRI	Nom. Lum. Flux per string @5000K/80CRI
TMU125050CL8TWH (22")	96+96	200 mA	31.7 V	6.3 W	34 V	7 W	1340 lm	212 lm/W	731 lm/ft	168 lm/string
		250 mA	31.9 V	8.0 W	34 V	9 W	1677 lm	211 lm/W	915 lm/ft	210 lm/string
		300 mA	32.0 V	9.6 W	34 V	10 W	2013 lm	209 lm/W	1098 lm/ft	252 lm/string
		350 mA	32.2 V	11.3 W	34 V	12 W	2347 lm	208 lm/W	1280 lm/ft	293 lm/string
		400 mA	32.4 V	13.0 W	35 V	14 W	2680 lm	207 lm/W	1462 lm/ft	335 lm/string
		450 mA	32.5 V	14.6 W	35 V	16 W	3011 lm	206 lm/W	1643 lm/ft	376 lm/string
		500 mA	32.7 V	16.3 W	35 V	18 W	3341 lm	204 lm/W	1823 lm/ft	418 lm/string
		550 mA	32.8 V	18.1 W	35 V	19 W	3670 lm	203 lm/W	2002 lm/ft	459 lm/string
		600 mA	33.0 V	19.8 W	35 V	21 W	3997 lm	202 lm/W	2180 lm/ft	500 lm/string
		650 mA	33.1 V	21.5 W	35 V	23 W	4322 lm	201 lm/W	2358 lm/ft	540 lm/string
		700 mA	33.2 V	23.3 W	36 V	25 W	4646 lm	200 lm/W	2534 lm/ft	581 lm/string
		750 mA	33.4 V	25.0 W	36 V	27 W	4968 lm	199 lm/W	2710 lm/ft	621 lm/string
		800 mA	33.5 V	26.8 W	36 V	29 W	5288 lm	197 lm/W	2884 lm/ft	661 lm/string
		850 mA	33.6 V	28.6 W	36 V	31 W	5606 lm	196 lm/W	3058 lm/ft	701 lm/string
		900 mA	33.7 V	30.3 W	36 V	32 W	5922 lm	195 lm/W	3230 lm/ft	740 lm/string
		950 mA	33.8 V	32.1 W	36 V	34 W	6236 lm	194 lm/W	3402 lm/ft	780 lm/string
		1000 mA	33.9 V	33.9 W	36 V	36 W	6549 lm	193 lm/W	3572 lm/ft	819 lm/string
1050 mA	34.1 V	35.8 W	36 V	38 W	6859 lm	192 lm/W	3741 lm/ft	857 lm/string		
1100 mA	34.2 V	37.6 W	37 V	41 W	7167 lm	191 lm/W	3909 lm/ft	896 lm/string		
1150 mA	34.3 V	39.4 W	37 V	43 W	7473 lm	190 lm/W	4076 lm/ft	934 lm/string		
1200 mA	34.4 V	41.3 W	37 V	44 W	7777 lm	188 lm/W	4242 lm/ft	972 lm/string		
1250 mA*	34.5 V	43.2 W	37 V	46 W	8078 lm	187 lm/W	4406 lm/ft	1010 lm/string		



# TMU125050CL8TWH



## Thermal Specifications

### LinearHO Module

Storage Temperature Range	-40 to +100°C / -40 to +212°F
Operating Ambient Temperature Range (ta)	-40 to 55°C / -40 to 131°F
Maximum Case Temperature (Tc)	L70 = 105°C (221°F) / L90 = 105°C (221°F)

## Thermal De-Rating:

### Tc vs. Luminous Flux vs. Forward Voltage

Module Case Temperature (Tc)	Total Vf Multiplier	Luminous Flux Multiplier
25°C	1.000	1.000
30°C	0.998	0.995
35°C	0.996	0.990
40°C	0.994	0.985
45°C	0.992	0.979
50°C	0.990	0.974
55°C	0.988	0.968
60°C	0.986	0.962
65°C	0.985	0.956
70°C	0.983	0.950
75°C	0.981	0.944
80°C	0.979	0.938
85°C	0.977	0.931
90°C	0.975	0.925
95°C	0.974	0.918
100°C	0.972	0.911
105°C	0.970	0.904

## Luminous Flux De-Rating: CRI Multipliers

CRI 80(R9> 0)	1.00
CRI 90(R9>50)	0.85

### NOTES:

- 1) Performance based on Tc mod = 25°C. See thermal de-rating chart (pg. 6) for higher temperature operation
- 2) Standard lumen output and efficacy is calculated for standard options. Reference CCT & CRI vs Luminous Flux chart for lumen ratio calculation.
- 3) Specifications are subject to change without notice.
- 4) The LED DC Module can be configure with different LED chip quantities, series and parallel design configurations to meet a specific design requirement. Contact Fulham for further assistance.
- 5) \* Indicates maximum rated current. Modules may be operated at a current less than or equal to this value, below the Tc rating.
- 6) 70CRI is NOT available.



# TMU125050CL8TWH



## Certification Chart

Classification	Model	TMU125050CL8TWH
		YES
		YES
		YES
Energy Efficiency Label (EEL-Label)		C
Suitable for UL Class 2 Lighting System		YES

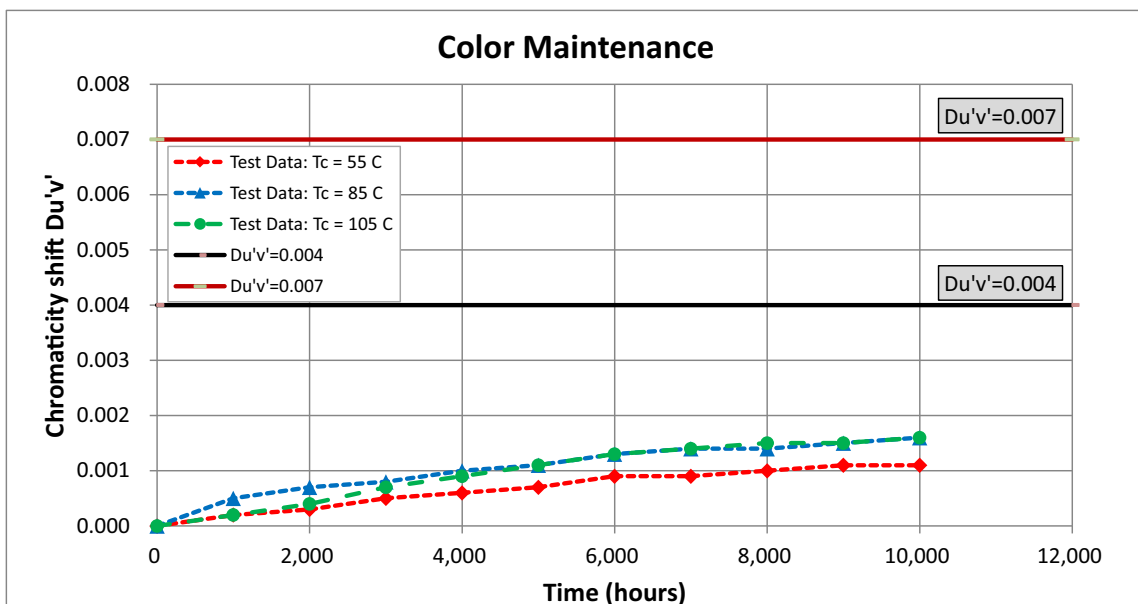
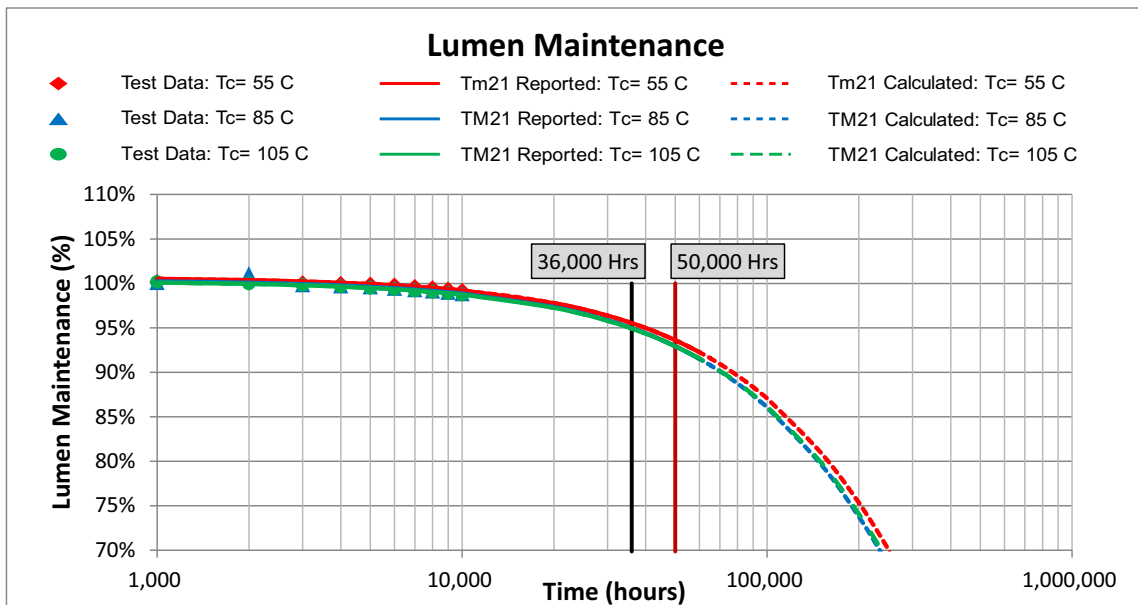
## Energy Star™ TM-21 Calculator Data

Tc Module	Reported L70	Reported L90
55°C	>60,000 Hrs	>60,000 Hrs
85°C	>60,000 Hrs	>60,000 Hrs
105°C	>60,000 Hrs	>60,000 Hrs

Tc Module	Calculated L70	Calculated L90
55°C	250,000 Hrs	77,000 Hrs
85°C	234,000 Hrs	70,000 Hrs
105°C	237,000 Hrs	71,000 Hrs

## LED Lumen & Color Maintenance Data per LM-80 report and TM-21 Calculator

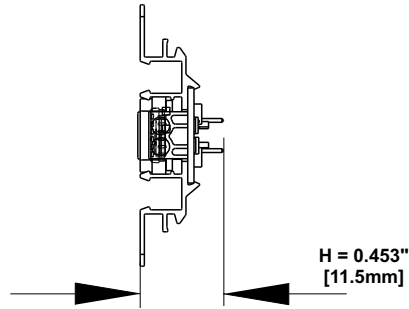




# TMU125050CL8TWH

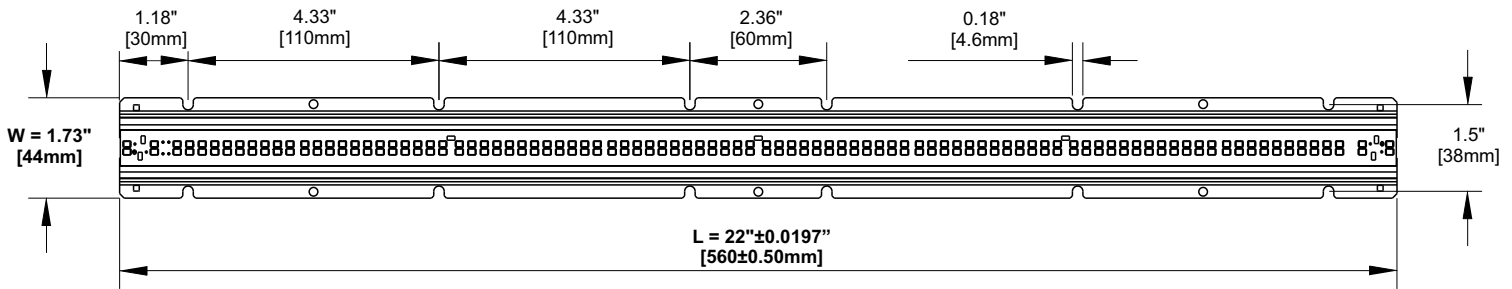
## Mechanical Drawings

**22"**  
[560mm]

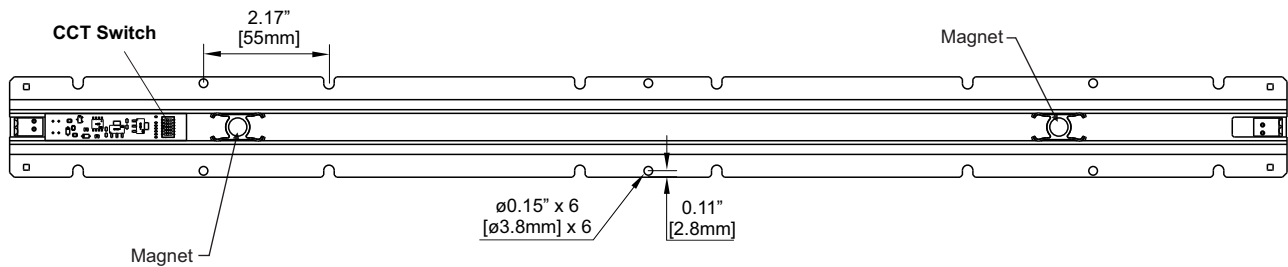


**SIDE VIEW**

Overall Dimensions	
Length	22" [560mm]
Width	1.73" [44mm]
Height	0.453" [11.5mm]

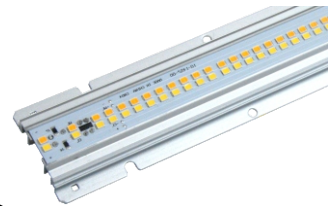


**TOP VIEW**



**BOTTOM VIEW**

**Unmarked General Tolerance**  
 <4" [100mm]: ±0.0138" [±0.35mm]  
 4"~11.8" [100~300mm]: ±0.0197" [±0.5mm]  
 >11.8" [300mm]: ±0.0236" [±0.6mm]  
 HOLES: ±0.002" [±0.05mm]



# TMU125050CL8TWH

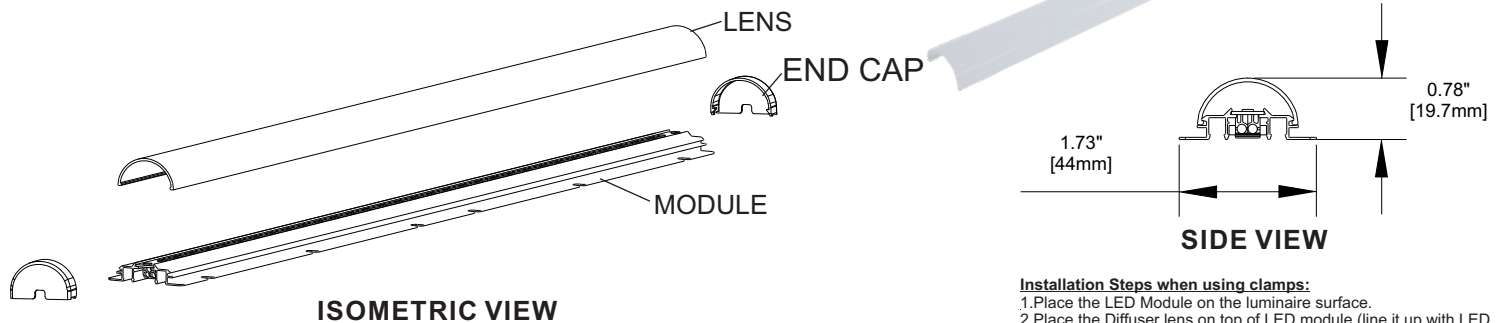


## Accessories

### 22" Diffuser Lens

Fulham Part Number: **22": TLE-OPT-120-004**

- White polycarbonate diffuser lens - 82% transmissivity at nominally rated currents.

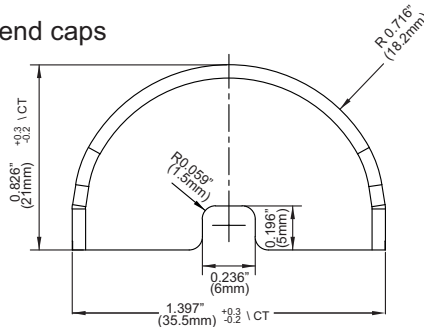
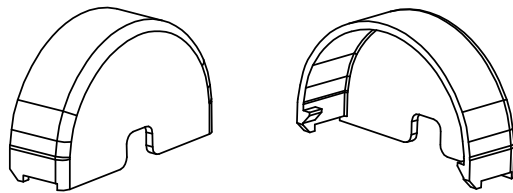


**Installation Steps when using clamps:**  
 1. Place the LED Module on the luminaire surface.  
 2. Place the Diffuser lens on top of LED module (line it up with LED module mounting edges).  
 3. Push down to snap into place.

### End Caps

Fulham Part Number: **TLE-OPT-120-020**

- White Polybutylene Terephthalate (PBT) end caps

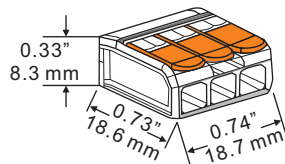
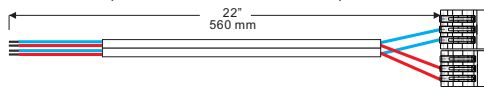


ISOMETRIC VIEW

SIDE VIEW

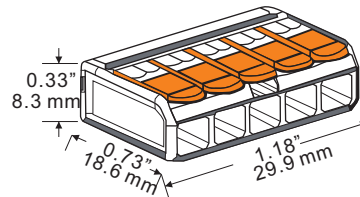
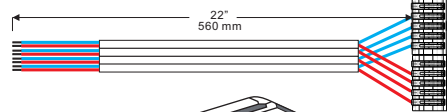
### Harness

TLC-HN02 (1 and 2 module connection)

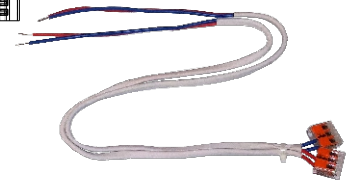


ISOMETRIC VIEW

TLC-HN04 (3 and 4 module connection)

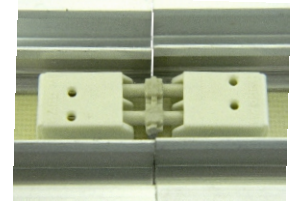


ISOMETRIC VIEW



### Interconnects

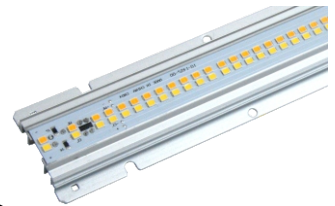
- Interconnect Type: WAGO Double pins to interconnect Modules (#2060-952/028-000)
- Approvals: cURus, UL 1977, and RoHS Compliant



BOTTOM VIEW

### NOTES:

- 1) Interconnects are NOT sold by Fulham.
- 2) Do not connect LinearHO Modules in parallel (end to end) if the current exceeds the maximum module rated current. This type of wiring would cause the pass-through current on the first module to exceed the rated current. This setup is in reference to wiring diagram #2 per Fulham's wiring diagram (see link on page #8). If the current is higher than the rated max, it is recommended to use wiring diagram #3.

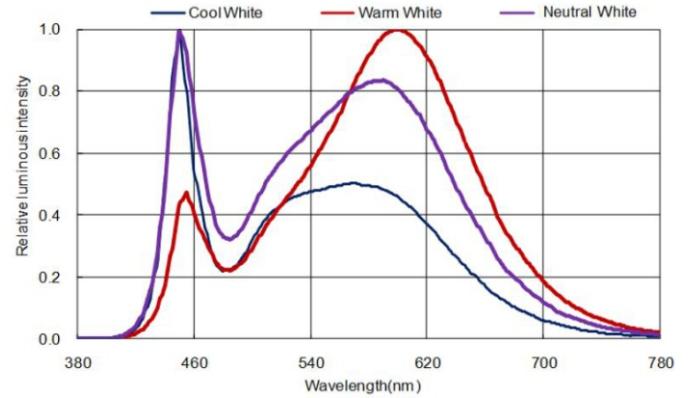
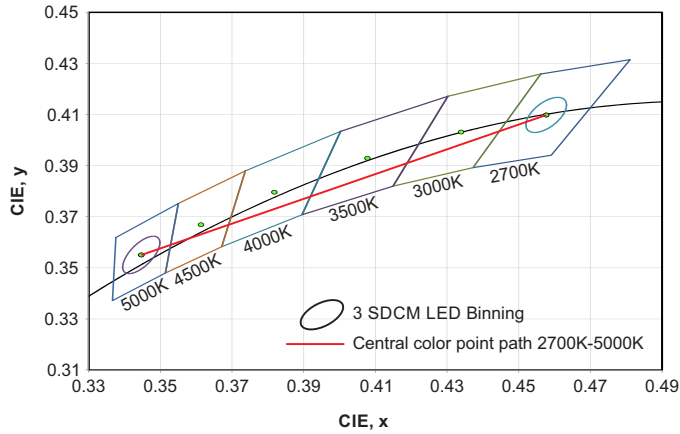


# TMU125050CL8TWH



## Color and Binning

## Optical Spectrum



### NOTES:

- 1) The Color and Binning and Optical Spectrum charts are for reference only. For more detailed info, contact factory.
- 2) Reference LED Chromaticity Diagram for Color and Binning. Binning per ANSI C78.377-2015 @ 25°C; 3 SDCM.
- 3) The Optical Spectrum values vary depending on product type and color rank.



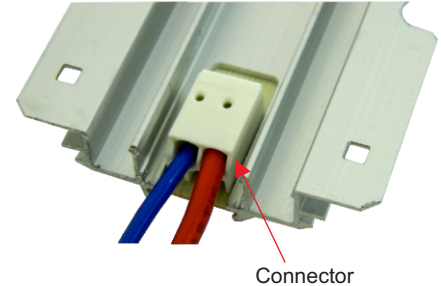
# TMU125050CL8TWH



## Guidelines

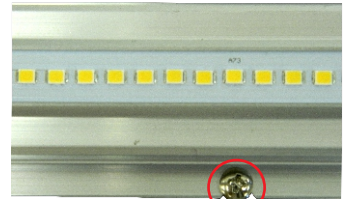
### Termination Notes

- Connector Type: WAGO #744-392 (2 pin push wire connector)
  - AWG: 20...16 solid wire
  - Strip length: 8...9mm / 0.31...0.35in
  - Connector Max amp. rating: 6 Amps.



### Fastening Notes

- If fastening by screw hole, use any screw with diameter less than 0.185 in (4.7mm). Use all available screw holes to ensure good contact between back side of module and mounting surface. Refer to max specified torque for installation. Suggested screw sizes: #6 or M4 Pan Head screw.
- If fastening using double-sided tape, start with clean, oil-free and dust-free surface. Peel backing and place LED module on mounting surface. Firmly press down on the module to ensure good adherence. Follow the double-side tape manufacturer's installation instructions.
- BJB P2F (Push-to-Fix) fixing elements for PCBs can be used to fasten LED modules to mounting surface. Reference BJB's website for ordering information and specific model to use: <http://www.bjb.com/index.php?pid=376706&lid=10>.



### Environmental Rating / Conformal Coating

- The DC LinearHO Modules have been evaluated for use in dry or damp locations only. If used in wet locations, acceptability and the need for additional evaluation shall be determined in the end product.
- Fulham's LinearHO modules are available with conformal coating; made to order with MOQ and lead time will apply. The conformal coating is a silicone based material which is double sprayed on the module only (LEDs and PCB). Conformal coating is recommended for the following applications: near ocean where salt is present, constant moisture, refrigeration, continuously high humidity, or outdoor applications. An IP rating of IP64 or IP65 is achieved when the conformal coating is used, but other factors should be considered. Fulham still recommends the luminaire also meet an IP64/65 rating.

### Electrostatic Sensitive Product (ESD)

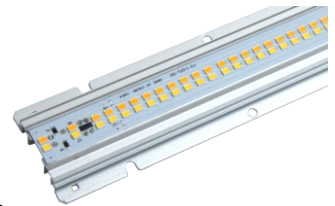
- Fulham LED products should be handled with proper measures to protect against any potential ESD damage.
- When servicing, personnel should be ground and direct contact with LED should be avoided.

### Thermal Management

- Proper thermal management should be employed to ensure life and reliability of product. Max Tc of module should not be exceeded.
- Use of thermal grease, paste, pad, or other material interface is highly recommended.

### Polarity Notes

- DC Modules are polarity sensitive.
- Ensure that "positive" from LED Driver is connected to "positive" of LED modules and that "negative" from LED Driver is connected to "negative" of LED modules.
- Polarities of modules are marked with "+" for positive and "-" for negative.



# TMU125050CL8TWH



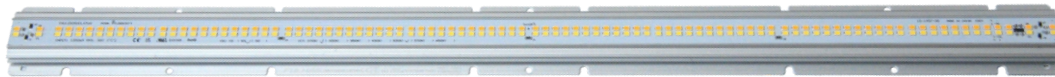
## Part Number Matrix

# T M U 125 050 CL 8 T W H

<u>Type</u> M = Module (UL Class 2)	<u>Control Type</u> U = None	<u>Input Current</u> 125 = 1250mA Max.	<u>Max. Power</u> 050 = 50W	<u>Shape</u> CL=Linear	<u>CRI</u> 8 = 80 9 = 90	<u>Color Temperature</u> TW = 2700-5000K Tunable White Selectable	<u>Option</u> H = High Efficacy K = Conformal Coating (MTO)
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③ Standard Product offering (All other options are made to order with MOQ and lead time)  
 ④ See page #11 for Conformal Coating information. Made to order (MTO).

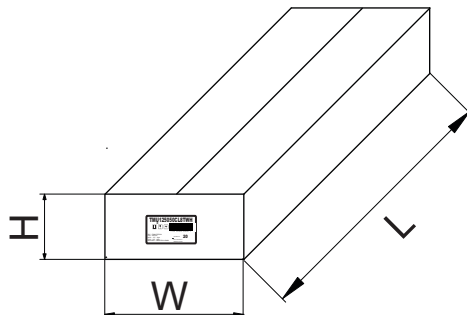
## Product Image: LinearHO Module



TOP VIEW

## Packaging

### Master Carton



OUTER DIMENSION		
L	W	H
23.43"(595mm)	10.63"(270mm)	4.33"(110mm)
Net Weight	Gross Weight	QUANTITY
5.51 lbs. (2.5kg)	7.71 lbs. (3.5kg)	20pc.