



TMU240095CL8TWH



44" 6-CCT SELECTABLE LINEARHO DC MODULE, 2400mA 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 ^①	36.0VDC	36.0VDC	36.0VDC	36.0VDC	36.0VDC	36.0VDC
Input Current ^①	2400mA(Max.)	2400mA(Max.)	2400mA(Max.)	2400mA(Max.)	2400mA(Max.)	2400mA(Max.)
Input Power ^①	86.5W	86.5W	86.5W	86.5W	86.5W	86.5W
Initial Lumens	13,763 lumens	14,159 lumens	14,554 lumens	14,933 lumens	15,234 lumens	15,483 lumens
Initial lm/W	159 lm/W	164 lm/W	168 lm/W	173 lm/W	176 lm/W	179 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 ^②	L70: >60,000Hrs / L90: >60,000Hrs					
Color Consistency	Binning per ANSI C78.377-2015 @ 25°C; 3 SDCM Typ.; 6 SDCM Max.					
Overall Size	44" x 1.73" x 0.453" (1120mm x 44mm x 11.5mm)					
PCB Material / Thermal Conductivity	FR4 1.0W/mK					
Extruded Material / Finish	Aluminum/surface treatment with Anodic Oxidation					
LED Quantity	180pcs CW + 180pcs WW					
Module Weight	220g / 0.48lb.					
PCB Part Number	PTL101C01F4					
Magnets Quantity / Magnetic Force	3 / 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					

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

^②TM-21 Reported Numbers

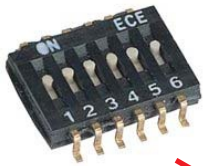


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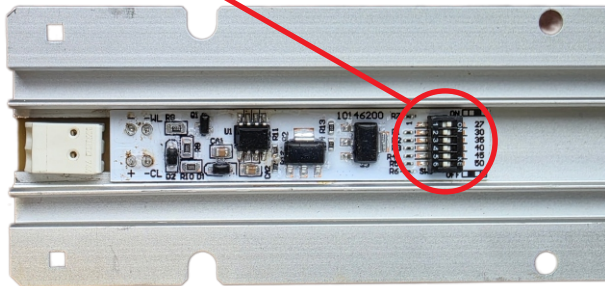
CCT Selection Indication

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
TMU240095CL8TWH (44")	180+180	200 mA	31.4 V	6.3 W	34 V	7 W	1181 lm	188 lm/W	322 lm/ft	79 lm/string
		300 mA	31.7 V	9.5 W	34 V	10 W	1784 lm	188 lm/W	486 lm/ft	119 lm/string
		400 mA	31.9 V	12.8 W	34 V	14 W	2384 lm	187 lm/W	650 lm/ft	159 lm/string
		500 mA	32.2 V	16.1 W	34 V	17 W	2982 lm	185 lm/W	813 lm/ft	199 lm/string
		600 mA	32.5 V	19.5 W	35 V	21 W	3578 lm	184 lm/W	976 lm/ft	239 lm/string
		700 mA	32.7 V	22.9 W	35 V	25 W	4171 lm	182 lm/W	1138 lm/ft	278 lm/string
		800 mA	32.9 V	26.3 W	35 V	28 W	4761 lm	181 lm/W	1299 lm/ft	317 lm/string
		900 mA	33.2 V	29.8 W	35 V	32 W	5349 lm	179 lm/W	1459 lm/ft	357 lm/string
		1000 mA	33.4 V	33.4 W	36 V	36 W	5934 lm	178 lm/W	1618 lm/ft	396 lm/string
		1100 mA	33.6 V	36.9 W	36 V	40 W	6516 lm	176 lm/W	1777 lm/ft	434 lm/string
		1200 mA	33.8 V	40.5 W	36 V	43 W	7095 lm	175 lm/W	1935 lm/ft	473 lm/string
		1300 mA	34.0 V	44.2 W	36 V	47 W	7671 lm	174 lm/W	2092 lm/ft	511 lm/string
		1400 mA	34.2 V	47.8 W	37 V	52 W	8244 lm	172 lm/W	2248 lm/ft	550 lm/string
		1500 mA	34.4 V	51.5 W	37 V	56 W	8813 lm	171 lm/W	2403 lm/ft	588 lm/string
		1600 mA	34.5 V	55.3 W	37 V	59 W	9378 lm	170 lm/W	2558 lm/ft	625 lm/string
		1700 mA	34.7 V	59.0 W	37 V	63 W	9940 lm	168 lm/W	2711 lm/ft	663 lm/string
		1800 mA	34.9 V	62.8 W	37 V	67 W	10499 lm	167 lm/W	2863 lm/ft	700 lm/string
		1900 mA	35.1 V	66.7 W	38 V	72 W	11053 lm	166 lm/W	3014 lm/ft	737 lm/string
2000 mA	35.3 V	70.5 W	38 V	76 W	11603 lm	165 lm/W	3165 lm/ft	774 lm/string		
2100 mA	35.5 V	74.4 W	38 V	80 W	12150 lm	163 lm/W	3314 lm/ft	810 lm/string		
2200 mA	35.6 V	78.4 W	38 V	84 W	12692 lm	162 lm/W	3461 lm/ft	846 lm/string		
2300 mA	35.8 V	82.4 W	38 V	87 W	13230 lm	161 lm/W	3608 lm/ft	882 lm/string		
2400 mA*	36.0 V	86.5 W	39 V	94 W	13763 lm	159 lm/W	3754 lm/ft	918 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
TMU240095CL8TWH (44")	180+180	200 mA	31.4 V	6.3 W	34 V	7 W	1215 lm	194 lm/W	331 lm/ft	81 lm/string
		300 mA	31.7 V	9.5 W	34 V	10 W	1835 lm	193 lm/W	500 lm/ft	122 lm/string
		400 mA	31.9 V	12.8 W	34 V	14 W	2453 lm	192 lm/W	669 lm/ft	164 lm/string
		500 mA	32.2 V	16.1 W	34 V	17 W	3068 lm	190 lm/W	837 lm/ft	205 lm/string
		600 mA	32.5 V	19.5 W	35 V	21 W	3681 lm	189 lm/W	1004 lm/ft	245 lm/string
		700 mA	32.7 V	22.9 W	35 V	25 W	4291 lm	187 lm/W	1170 lm/ft	286 lm/string
		800 mA	32.9 V	26.3 W	35 V	28 W	4898 lm	186 lm/W	1336 lm/ft	327 lm/string
		900 mA	33.2 V	29.8 W	35 V	32 W	5503 lm	184 lm/W	1501 lm/ft	367 lm/string
		1000 mA	33.4 V	33.4 W	36 V	36 W	6105 lm	183 lm/W	1665 lm/ft	407 lm/string
		1100 mA	33.6 V	36.9 W	36 V	40 W	6704 lm	181 lm/W	1828 lm/ft	447 lm/string
		1200 mA	33.8 V	40.5 W	36 V	43 W	7299 lm	180 lm/W	1991 lm/ft	487 lm/string
		1300 mA	34.0 V	44.2 W	36 V	47 W	7892 lm	179 lm/W	2152 lm/ft	526 lm/string
		1400 mA	34.2 V	47.8 W	37 V	52 W	8481 lm	177 lm/W	2313 lm/ft	565 lm/string
		1500 mA	34.4 V	51.5 W	37 V	56 W	9066 lm	176 lm/W	2473 lm/ft	604 lm/string
		1600 mA	34.5 V	55.3 W	37 V	59 W	9648 lm	175 lm/W	2631 lm/ft	643 lm/string
		1700 mA	34.7 V	59.0 W	37 V	63 W	10226 lm	173 lm/W	2789 lm/ft	682 lm/string
		1800 mA	34.9 V	62.8 W	37 V	67 W	10800 lm	172 lm/W	2946 lm/ft	720 lm/string
		1900 mA	35.1 V	66.7 W	38 V	72 W	11371 lm	171 lm/W	3101 lm/ft	758 lm/string
2000 mA	35.3 V	70.5 W	38 V	76 W	11937 lm	169 lm/W	3256 lm/ft	796 lm/string		
2100 mA	35.5 V	74.4 W	38 V	80 W	12499 lm	168 lm/W	3409 lm/ft	833 lm/string		
2200 mA	35.6 V	78.4 W	38 V	84 W	13057 lm	167 lm/W	3561 lm/ft	870 lm/string		
2300 mA	35.8 V	82.4 W	38 V	87 W	13610 lm	165 lm/W	3712 lm/ft	907 lm/string		
2400 mA*	36.0 V	86.5 W	39 V	94 W	14159 lm	164 lm/W	3861 lm/ft	944 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
TMU240095CL8TWH (44")	180+180	200 mA	31.4 V	6.3 W	34 V	7 W	1249 lm	199 lm/W	341 lm/ft	83 lm/string
		300 mA	31.7 V	9.5 W	34 V	10 W	1886 lm	199 lm/W	514 lm/ft	126 lm/string
		400 mA	31.9 V	12.8 W	34 V	14 W	2521 lm	197 lm/W	688 lm/ft	168 lm/string
		500 mA	32.2 V	16.1 W	34 V	17 W	3154 lm	196 lm/W	860 lm/ft	210 lm/string
		600 mA	32.5 V	19.5 W	35 V	21 W	3783 lm	194 lm/W	1032 lm/ft	252 lm/string
		700 mA	32.7 V	22.9 W	35 V	25 W	4411 lm	193 lm/W	1203 lm/ft	294 lm/string
		800 mA	32.9 V	26.3 W	35 V	28 W	5035 lm	191 lm/W	1373 lm/ft	336 lm/string
		900 mA	33.2 V	29.8 W	35 V	32 W	5657 lm	190 lm/W	1543 lm/ft	377 lm/string
		1000 mA	33.4 V	33.4 W	36 V	36 W	6276 lm	188 lm/W	1712 lm/ft	418 lm/string
		1100 mA	33.6 V	36.9 W	36 V	40 W	6891 lm	187 lm/W	1879 lm/ft	459 lm/string
		1200 mA	33.8 V	40.5 W	36 V	43 W	7503 lm	185 lm/W	2046 lm/ft	500 lm/string
		1300 mA	34.0 V	44.2 W	36 V	47 W	8112 lm	184 lm/W	2212 lm/ft	541 lm/string
		1400 mA	34.2 V	47.8 W	37 V	52 W	8718 lm	182 lm/W	2378 lm/ft	581 lm/string
		1500 mA	34.4 V	51.5 W	37 V	56 W	9319 lm	181 lm/W	2542 lm/ft	621 lm/string
		1600 mA	34.5 V	55.3 W	37 V	59 W	9918 lm	179 lm/W	2705 lm/ft	661 lm/string
		1700 mA	34.7 V	59.0 W	37 V	63 W	10512 lm	178 lm/W	2867 lm/ft	701 lm/string
		1800 mA	34.9 V	62.8 W	37 V	67 W	11102 lm	177 lm/W	3028 lm/ft	740 lm/string
		1900 mA	35.1 V	66.7 W	38 V	72 W	11688 lm	175 lm/W	3188 lm/ft	779 lm/string
2000 mA	35.3 V	70.5 W	38 V	76 W	12270 lm	174 lm/W	3346 lm/ft	818 lm/string		
2100 mA	35.5 V	74.4 W	38 V	80 W	12848 lm	173 lm/W	3504 lm/ft	857 lm/string		
2200 mA	35.6 V	78.4 W	38 V	84 W	13422 lm	171 lm/W	3660 lm/ft	895 lm/string		
2300 mA	35.8 V	82.4 W	38 V	87 W	13990 lm	170 lm/W	3816 lm/ft	933 lm/string		
2400 mA*	36.0 V	86.5 W	39 V	94 W	14554 lm	168 lm/W	3969 lm/ft	970 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
TMU240095CL8TWH (44")	180+180	200 mA	31.4 V	6.3 W	34 V	7 W	1282 lm	204 lm/W	350 lm/ft	85 lm/string
		300 mA	31.7 V	9.5 W	34 V	10 W	1935 lm	204 lm/W	528 lm/ft	129 lm/string
		400 mA	31.9 V	12.8 W	34 V	14 W	2587 lm	202 lm/W	705 lm/ft	172 lm/string
		500 mA	32.2 V	16.1 W	34 V	17 W	3236 lm	201 lm/W	882 lm/ft	216 lm/string
		600 mA	32.5 V	19.5 W	35 V	21 W	3882 lm	199 lm/W	1059 lm/ft	259 lm/string
		700 mA	32.7 V	22.9 W	35 V	25 W	4525 lm	198 lm/W	1234 lm/ft	302 lm/string
		800 mA	32.9 V	26.3 W	35 V	28 W	5166 lm	196 lm/W	1409 lm/ft	344 lm/string
		900 mA	33.2 V	29.8 W	35 V	32 W	5804 lm	194 lm/W	1583 lm/ft	387 lm/string
		1000 mA	33.4 V	33.4 W	36 V	36 W	6439 lm	193 lm/W	1756 lm/ft	429 lm/string
		1100 mA	33.6 V	36.9 W	36 V	40 W	7070 lm	191 lm/W	1928 lm/ft	471 lm/string
		1200 mA	33.8 V	40.5 W	36 V	43 W	7698 lm	190 lm/W	2100 lm/ft	513 lm/string
		1300 mA	34.0 V	44.2 W	36 V	47 W	8323 lm	188 lm/W	2270 lm/ft	555 lm/string
		1400 mA	34.2 V	47.8 W	37 V	52 W	8944 lm	187 lm/W	2439 lm/ft	596 lm/string
		1500 mA	34.4 V	51.5 W	37 V	56 W	9562 lm	186 lm/W	2608 lm/ft	637 lm/string
		1600 mA	34.5 V	55.3 W	37 V	59 W	10175 lm	184 lm/W	2775 lm/ft	678 lm/string
		1700 mA	34.7 V	59.0 W	37 V	63 W	10785 lm	183 lm/W	2941 lm/ft	719 lm/string
		1800 mA	34.9 V	62.8 W	37 V	67 W	11391 lm	181 lm/W	3107 lm/ft	759 lm/string
		1900 mA	35.1 V	66.7 W	38 V	72 W	11992 lm	180 lm/W	3271 lm/ft	799 lm/string
2000 mA	35.3 V	70.5 W	38 V	76 W	12590 lm	178 lm/W	3434 lm/ft	839 lm/string		
2100 mA	35.5 V	74.4 W	38 V	80 W	13182 lm	177 lm/W	3595 lm/ft	879 lm/string		
2200 mA	35.6 V	78.4 W	38 V	84 W	13771 lm	176 lm/W	3756 lm/ft	918 lm/string		
2300 mA	35.8 V	82.4 W	38 V	87 W	14354 lm	174 lm/W	3915 lm/ft	957 lm/string		
2400 mA*	36.0 V	86.5 W	39 V	94 W	14933 lm	173 lm/W	4073 lm/ft	996 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
TMU240095CL8TWH (44")	180+180	200 mA	31.4 V	6.3 W	34 V	7 W	1307 lm	208 lm/W	357 lm/ft	87 lm/string
		300 mA	31.7 V	9.5 W	34 V	10 W	1974 lm	208 lm/W	538 lm/ft	132 lm/string
		400 mA	31.9 V	12.8 W	34 V	14 W	2639 lm	207 lm/W	720 lm/ft	176 lm/string
		500 mA	32.2 V	16.1 W	34 V	17 W	3301 lm	205 lm/W	900 lm/ft	220 lm/string
		600 mA	32.5 V	19.5 W	35 V	21 W	3960 lm	203 lm/W	1080 lm/ft	264 lm/string
		700 mA	32.7 V	22.9 W	35 V	25 W	4617 lm	202 lm/W	1259 lm/ft	308 lm/string
		800 mA	32.9 V	26.3 W	35 V	28 W	5270 lm	200 lm/W	1437 lm/ft	351 lm/string
		900 mA	33.2 V	29.8 W	35 V	32 W	5921 lm	198 lm/W	1615 lm/ft	395 lm/string
		1000 mA	33.4 V	33.4 W	36 V	36 W	6569 lm	197 lm/W	1791 lm/ft	438 lm/string
		1100 mA	33.6 V	36.9 W	36 V	40 W	7213 lm	195 lm/W	1967 lm/ft	481 lm/string
		1200 mA	33.8 V	40.5 W	36 V	43 W	7854 lm	194 lm/W	2142 lm/ft	524 lm/string
		1300 mA	34.0 V	44.2 W	36 V	47 W	8491 lm	192 lm/W	2316 lm/ft	566 lm/string
		1400 mA	34.2 V	47.8 W	37 V	52 W	9125 lm	191 lm/W	2489 lm/ft	608 lm/string
		1500 mA	34.4 V	51.5 W	37 V	56 W	9755 lm	189 lm/W	2660 lm/ft	650 lm/string
		1600 mA	34.5 V	55.3 W	37 V	59 W	10381 lm	188 lm/W	2831 lm/ft	692 lm/string
		1700 mA	34.7 V	59.0 W	37 V	63 W	11003 lm	186 lm/W	3001 lm/ft	734 lm/string
		1800 mA	34.9 V	62.8 W	37 V	67 W	11621 lm	185 lm/W	3169 lm/ft	775 lm/string
		1900 mA	35.1 V	66.7 W	38 V	72 W	12234 lm	184 lm/W	3337 lm/ft	816 lm/string
2000 mA	35.3 V	70.5 W	38 V	76 W	12843 lm	182 lm/W	3503 lm/ft	856 lm/string		
2100 mA	35.5 V	74.4 W	38 V	80 W	13448 lm	181 lm/W	3668 lm/ft	897 lm/string		
2200 mA	35.6 V	78.4 W	38 V	84 W	14048 lm	179 lm/W	3831 lm/ft	937 lm/string		
2300 mA	35.8 V	82.4 W	38 V	87 W	14644 lm	178 lm/W	3994 lm/ft	976 lm/string		
2400 mA*	36.0 V	86.5 W	39 V	94 W	15234 lm	176 lm/W	4155 lm/ft	1016 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
TMU240095CL8TWH (44")	180+180	200 mA	31.4 V	6.3 W	34 V	7 W	1329 lm	212 lm/W	362 lm/ft	89 lm/string
		300 mA	31.7 V	9.5 W	34 V	10 W	2007 lm	211 lm/W	547 lm/ft	134 lm/string
		400 mA	31.9 V	12.8 W	34 V	14 W	2682 lm	210 lm/W	731 lm/ft	179 lm/string
		500 mA	32.2 V	16.1 W	34 V	17 W	3355 lm	208 lm/W	915 lm/ft	224 lm/string
		600 mA	32.5 V	19.5 W	35 V	21 W	4025 lm	207 lm/W	1098 lm/ft	268 lm/string
		700 mA	32.7 V	22.9 W	35 V	25 W	4692 lm	205 lm/W	1280 lm/ft	313 lm/string
		800 mA	32.9 V	26.3 W	35 V	28 W	5357 lm	203 lm/W	1461 lm/ft	357 lm/string
		900 mA	33.2 V	29.8 W	35 V	32 W	6018 lm	202 lm/W	1641 lm/ft	401 lm/string
		1000 mA	33.4 V	33.4 W	36 V	36 W	6676 lm	200 lm/W	1821 lm/ft	445 lm/string
		1100 mA	33.6 V	36.9 W	36 V	40 W	7331 lm	198 lm/W	1999 lm/ft	489 lm/string
		1200 mA	33.8 V	40.5 W	36 V	43 W	7982 lm	197 lm/W	2177 lm/ft	532 lm/string
		1300 mA	34.0 V	44.2 W	36 V	47 W	8630 lm	195 lm/W	2354 lm/ft	575 lm/string
		1400 mA	34.2 V	47.8 W	37 V	52 W	9274 lm	194 lm/W	2529 lm/ft	618 lm/string
		1500 mA	34.4 V	51.5 W	37 V	56 W	9914 lm	192 lm/W	2704 lm/ft	661 lm/string
		1600 mA	34.5 V	55.3 W	37 V	59 W	10551 lm	191 lm/W	2877 lm/ft	703 lm/string
		1700 mA	34.7 V	59.0 W	37 V	63 W	11183 lm	189 lm/W	3050 lm/ft	746 lm/string
		1800 mA	34.9 V	62.8 W	37 V	67 W	11811 lm	188 lm/W	3221 lm/ft	787 lm/string
		1900 mA	35.1 V	66.7 W	38 V	72 W	12435 lm	187 lm/W	3391 lm/ft	829 lm/string
2000 mA	35.3 V	70.5 W	38 V	76 W	13054 lm	185 lm/W	3560 lm/ft	870 lm/string		
2100 mA	35.5 V	74.4 W	38 V	80 W	13668 lm	184 lm/W	3728 lm/ft	911 lm/string		
2200 mA	35.6 V	78.4 W	38 V	84 W	14278 lm	182 lm/W	3894 lm/ft	952 lm/string		
2300 mA	35.8 V	82.4 W	38 V	87 W	14883 lm	181 lm/W	4059 lm/ft	992 lm/string		
2400 mA*	36.0 V	86.5 W	39 V	94 W	15483 lm	179 lm/W	4223 lm/ft	1032 lm/string		



TMU240095CL8TWH



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 configured 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.



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Certification Chart

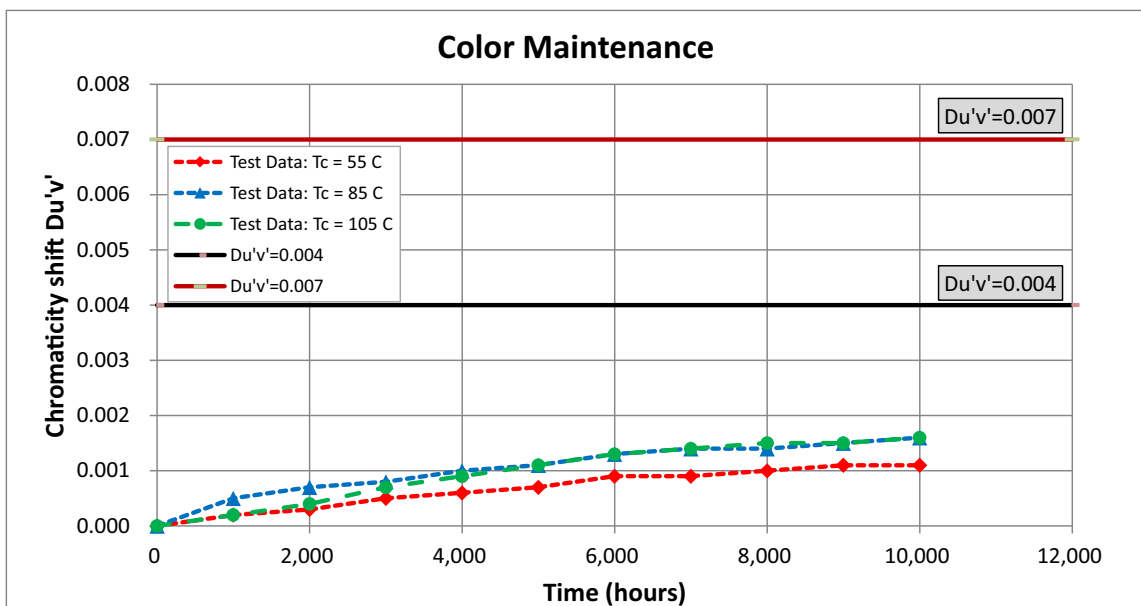
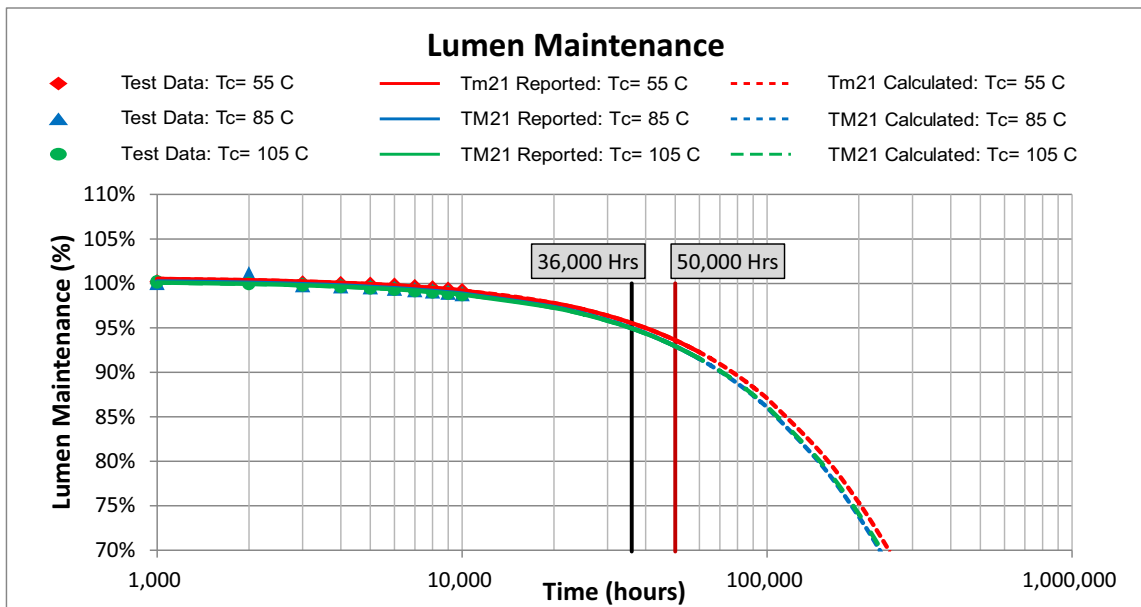
Classification	Model	TMU240095CL8TWH
RoHS COMPLIANT		YES
cRU US		YES
CE UK CA		YES
Energy Efficiency Label (EEI-Label)		C
Suitable for UL Class 2 Lighting System		YES

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

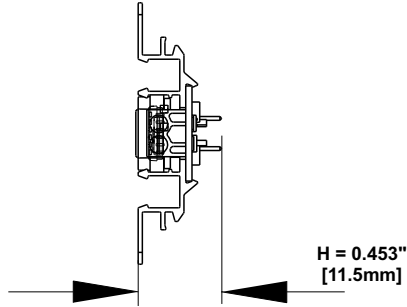




TMU240095CL8TWH

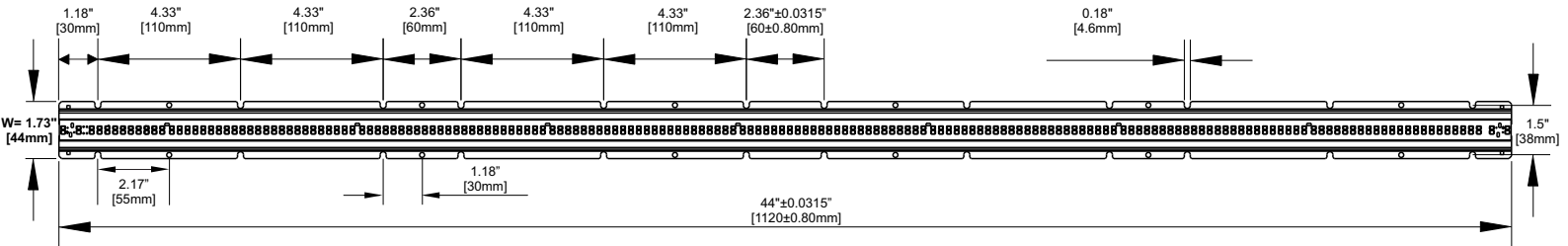
Mechanical Drawings

44"
[1120mm]

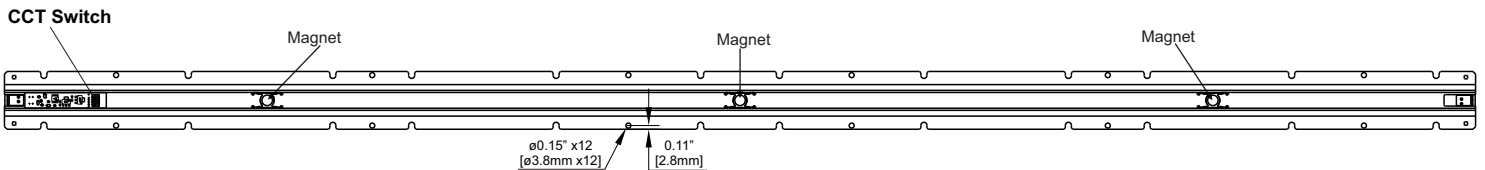


SIDE VIEW

Overall Dimensions	
Length	44" [1120mm]
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]



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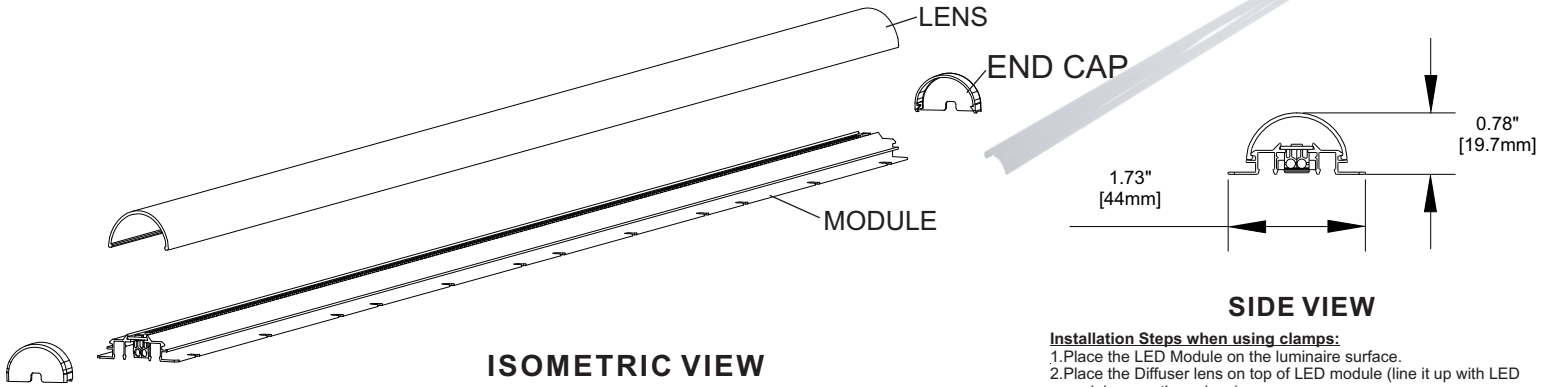


Accessories

44" Diffuser Lens

Fulham Part Number: **TLE-OPT-120-013**

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

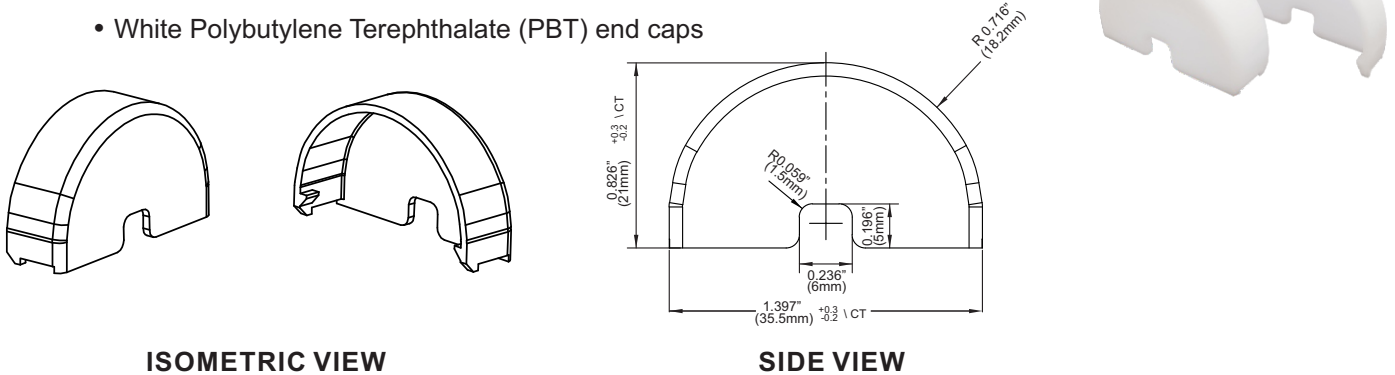


Installation Steps when using clamps:
 1. Place the LED Module on the luminaire surface.
 2. Place the Diffuser lens on top of LED module (line it up with LED module mounting edges).
 3. Push down to snap into place.

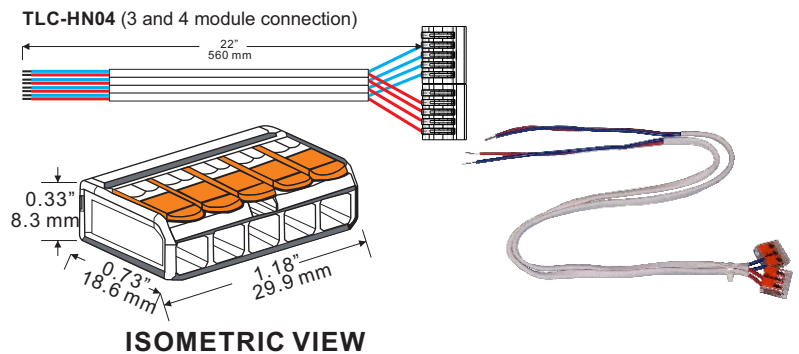
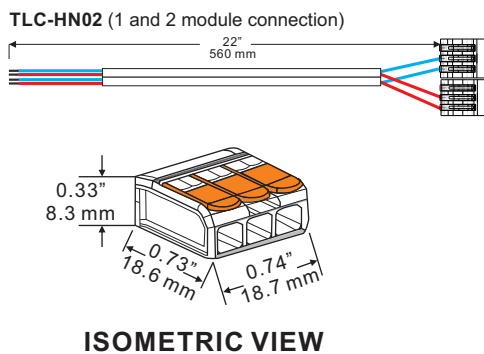
End Caps

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

- White Polybutylene Terephthalate (PBT) end caps

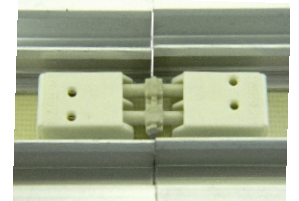


Harness



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.

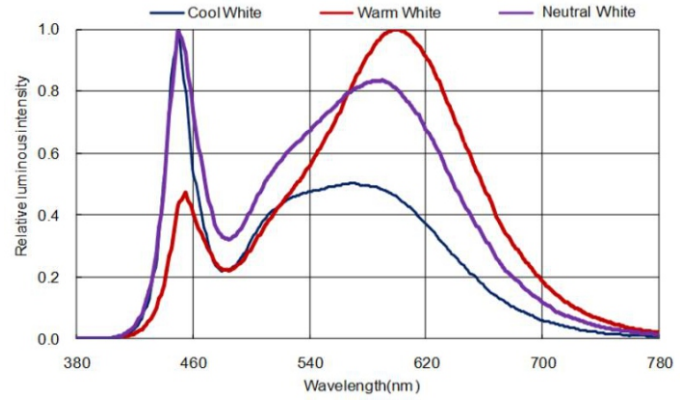
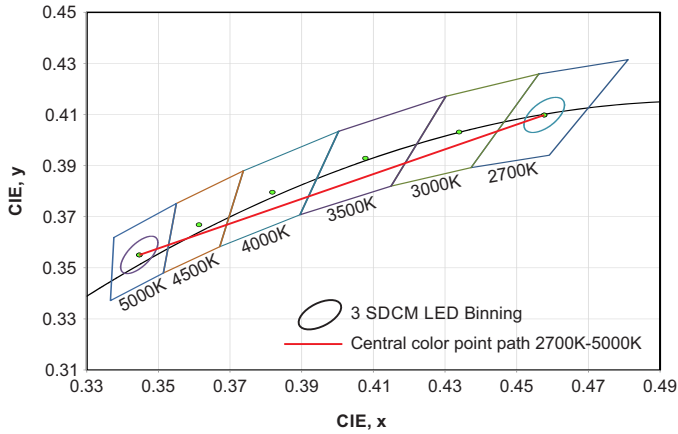


TMU240095CL8TWH



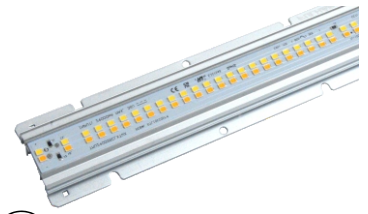
Color and Binning

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.



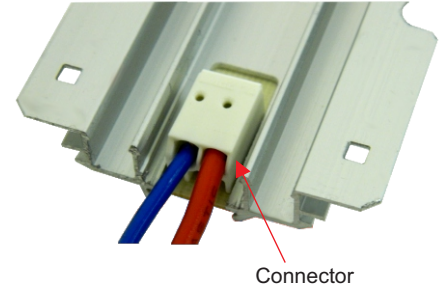
TMU240095CL8TWH



Guidelines

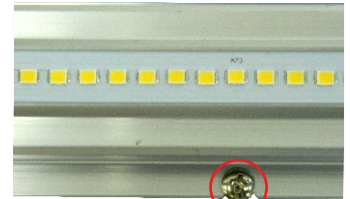
Termination Notes

- 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.



TMU240095CL8TWH



Part Number Matrix

T M U 240 095 CL 8 T W H

<u>Type</u> M = Module (UL Class 2)	<u>Control Type</u> U = None	<u>Input Current</u> 240 = 2400mA Max.	<u>Max. Power</u> 095 = 95W	<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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⊙Standard Product offering (All other options are made to order with MOQ and lead time)
 ⊙See page #11 for Conformal Coating information. Made to order (MTO).

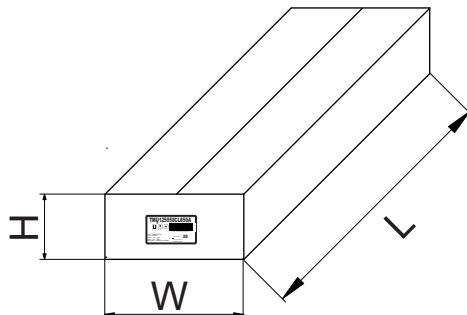
Product Image: LinearHO Module



TOP VIEW

Packaging

Master Carton



OUTER DIMENSION		
L	W	H
45.47"(1155mm)	10.63"(270mm)	4.33"(110mm)
Net Weight	Gross Weight	QUANTITY
10.58 lbs. (4.8kg)	13.34 lbs. (6.05kg)	20pc.