

Universal Douglas System Application Note: 108 & 156 LED High Bay Linear System Configurations

Purpose:

Universal Douglas second generation series of linear LED modules can be operated with a variety of Universal Douglas LED drivers to provide a wide range of system lumen performance options and tunable output capabilities. The chart below identifies several combinations with system lumens ranging from 1,000 to 11,000+ lumens.

Module p/n	# of Modules	Driver p/n	Tunable Output?*	System Lumen/V	Module Current	System Power	System Lm/W	Connection
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108 LED Module 22" x 1.57"

M14CC840D108N2L	1	D15CC55UNVTWCP94C (1.40A)	Tuned	7230	1.400	70	103	Single
M14CC840D108N2L	2	D21CC80yyyTW-D	Yes	11150	1.050	91	123	Parallel
M14CC840D108N2L	2	D23CC90zzzTW-F	Yes	12120	1.150	97	125	Parallel
M14CC840D108N2L	2	D23CC90zzzTW-F	Yes	12240	1.150	97	126	Parallel
M14CC840D108N2L	3	D23CC90zzzTW-F	Yes	12468	0.767	90	139	Parallel
M14CC840D108N2L	3	D23CC90zzzTW-F	Yes	12594	0.767	90	140	Parallel

(T) Designates that the Driver will be tuned to achieve target lumens

* Tunable output systems can be Tuned (programmed) to operate at lower lumen and power levels

**Data shown is for 277V input and Tc=75 C

yy. indicates voltage: 347 or UNV (120 to 277)

zz. indicates voltage: HRV (347 to 480) or UNV (120 to 277)

Module p/n	# of Modules	Driver p/n	Tunable Output?*	System Lumens	Module Current	System Power	System Lm/W	Connection
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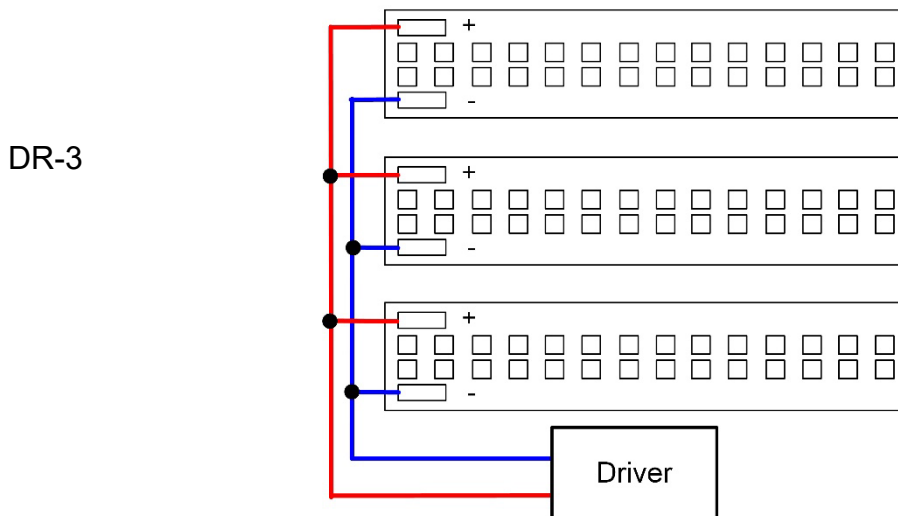
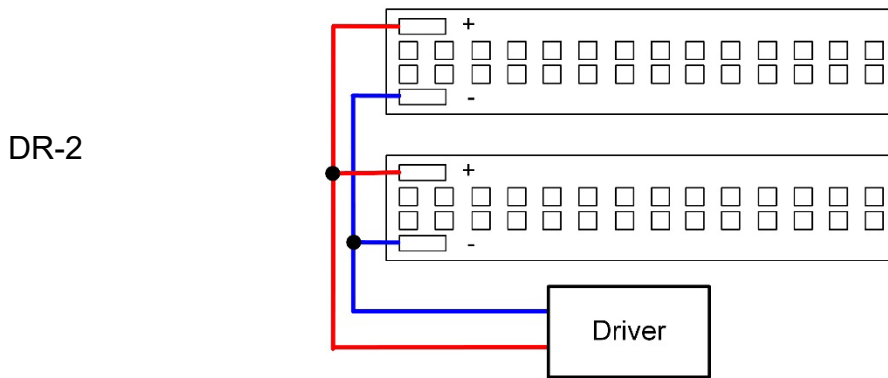
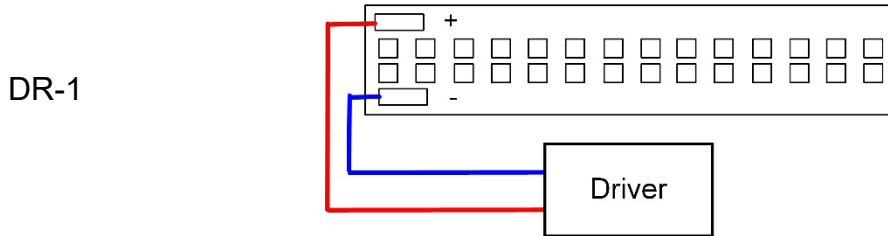
156 LED Module 22" x 1.57"

M18CC840D156N2S	1	D23CC90zzzTW-F	Yes	10096	1.790	82	123	Single
M18CC840D156N2S	2	D23CC90zzzTW-F	Yes	13638	1.150	101	135	Parallel
M18CC840D156N2S	3	D23CC90zzzTW-F	Yes	14046	0.767	98	144	Parallel
M18CC840D156N2S	4	D23CC90zzzTW-F	Yes	14256	0.575	96	149	Parallel
M18CC840D156N2S	6	D23CC90zzzTW-F	Yes	14484	0.383	94	155	Parallel
M18CC840D156N2S	1	D28CC95UVPA12-F	No	10144	1.800	81	125	Single
M18CC840D156N2S	2	D28CC95UVPA12-F	No	13638	1.150	98	139	Parallel
M18CC840D156N2S	2	D28CC95UVPA12-F	No	14176	1.200	103	138	Parallel
M18CC840D156N2S	3	D28CC95UVPA12-F	No	14046	0.767	94	149	Parallel
M18CC840D156N2S	3	D28CC95UVPA12-F	No	15189	0.833	103	147	Parallel
M18CC840D156N2S	4	D28CC95UVPA12-F	No	14256	0.575	95	151	Parallel
M18CC840D156N2S	4	D28CC95UVPA12-F	No	15728	0.638	106	149	Parallel
M18CC840D156N2S	6	D28CC95UVPA12-F	No	14484	0.383	93	157	Parallel
M18CC840D156N2S	6	D28CC95UVPA12-F	No	16302	0.433	105	155	Parallel

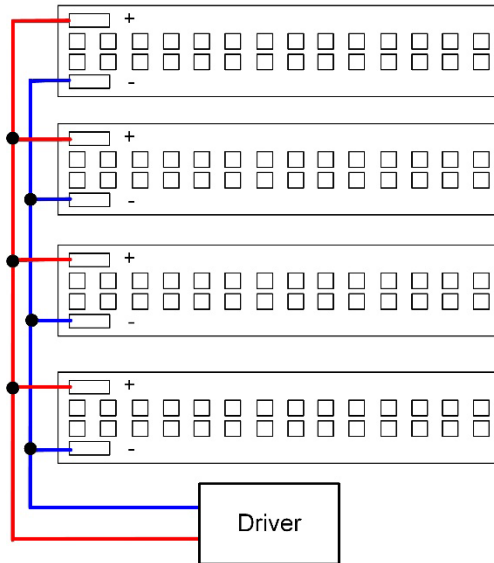
(T) Designates that the Driver will be tuned to achieve target lumens

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**Data shown is for 277V input and Tc=65 C



DR-4



DR-6

