

The Specifier's Rule of Thumb

Systems Application Guide (Based on 3500° Tri-Phosphor Lamps)

TYPE →	TRANSFORMER SYSTEMS			BALLAST SYSTEMS	
FUNCTION →	NPF RATED DIMMABLE	HPF RATED NON DIMMABLE	NPF RATED DIMMABLE	HPF RATED NON DIMMABLE	NPF RATED DIMMABLE
MODEL →	NPF-120mA	TPF-150mA	SS24-300mA	HPB-200mA	LST-200mA
APPLICATION → REQUIREMENTS ↓	WILL VARY DUE TO ACTUAL INSTALLATION				
LUMEN P.L.F.	362	452	768	624	650
OPERATING MA	96mA	120mA	240mA	200mA	200mA
WATTS P.L.F.	11.5	6.5	12.7	8.9	11.7
POWER FACTOR	61	99	34	94	42
*VA P.L.F.	18.8	6.14	36.9	13.8	27.8
CRI	85+	85+	85+	85+	85+
LUMENS PER WATT	24.9	70.7	60.5	59.4	69.9
PRIMARY VOLTAGE (Step Downs Available)	120V	120V	120V/277V	120V	120V
**MAXIMUM LAMP FOOTAGE	DIM NO DIM 54' 70'	104'	DIM NO DIM 52' 63'	16'	DIM NO DIM 14' 16'
MINIMUM LAMP FOOTAGE	DIM NO DIM 18' 18'	34'	DIM NO DIM 8' 8'	5' ON ONE SIDE	5' ON ONE SIDE
TIGHTEST LAMP RADIUS	3" to 2 1/2"	3" to 2 1/2"	3" to 2 1/2"	3" to 2 1/2"	3" to 2 1/2"
WIRE SIZE	#14GA/GTO	#14GA/GTO	#14GA/GTO	#18GA/1000V	#18GA/1000V
SERIES WIRED	YES	YES	YES	NO	NO
PARALLEL WIRED	NO	NO	NO	YES	YES
REMOVED DISTANCE	20' METAL 50' PVC RIGID	20' METAL 50' PVC RIGID	20' METAL 50' PVC RIGID	75' FLEXIBLE GREENFIELD	55' FLEXIBLE GREENFIELD
LAMP & HOLDER HEIGHT	4 1/2" SURFACE 2" RECESSED	4 1/2" SURFACE 2" RECESSED	5 1/2" SURFACE 3" RECESSED	5 1/8" SURFACE 2 3/8" RECESSED	5 1/8" SURFACE 2 3/8" RECESSED
LAMP HOLDER WIDTH	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
MAXIMUM SECONDARY VOLTAGE	9KV	12KV	7.5KV	990V	990V
ALLOWED IN DWELLINGS	NO	NO	NO	YES	YES
ALLOWED IN COMMERCIAL	YES	YES	YES	YES	YES
ALLOWED OUTDOOR W/ CCL LENS	YES W/CCL	YES W/CCL	YES W/CCL	YES W/CCL	YES W/CCL
LAMP PHOSPHORS 8-TRI-PHOSPHOR 9-HALO PHOSPHOR MANY COLORS	ALL	ALL	ALL	ALL	ALL

*IMPORTANT NOTE: WHEN USING THE MINIMUM LAMP FOOTAGES DEPICTED IN THE CHART ABOVE, THE WATTAGE AND VOLT AMPS WILL INCREASE IN EACH SYSTEM PER LINEAR FOOT.

**Please note that whenever reviewing any cold cathode manufacturer's catalog or drawings, it is the volt-amperes (VA) of the powersource divided into the actual footage that determines the watts per linear foot.



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