

PRO ENDURANCE 2 - U OPTIC

PRO Endurance 2 - U Optic modules from AgiLight are versatile premium 24V modules that can be customized for CCT and lumen output. Choose your CCT (3000K, 4000K, 5000K, 6500K, 7100K) and pick your desired lumen output (35, 70, 100, 150 lm/module). PRO Endurance 2 - U Optic modules feature efficacy of up to 185 lm/W. They come with a 10-year parts and labor warranty and a 10-year L80 brightness warranty that is unmatched in the industry. The special U optic features a wide-angle lens designed for use in medium to large channel letters and shallow box and cabinet signs.



24 VDC



10-YEAR LIMITED WARRANTY



ONEWhite[®]
COLOR CONSISTENCY



VERSALENZ[®]
ADVANCED OPTICS



CAPZUL[®]
WATERPROOF



CONSTANT CURRENT



UV RESISTANT

ORDERING GUIDE - 3000K* | 4000K* | 5000K | 6500K | 7100K

Data below based on 6500K modules

Part Number**	Optic	Module Spacing (in./mm)	Wattage per Module (W)	Number of Modules		Nominal Light Output (lm)			
				Per Foot	Per Meter	Per Watt	Per Module	Per Foot	Per Meter
LS-PE2-XXK-35-U100-A	U	4 / 100	0.19	3.05	10	185	35	107	350
LS-PE2-XXK-70-U150-A	U	6 / 150	0.39	2.03	6.67	180	70	142	467
LS-PE2-XXK-100-U200-A	U	8 / 200	0.56	1.52	5	180	100	152	500
LS-PE2-XXK-150-U250-A	U	10 / 250	0.86	1.22	4	175	150	183	600

* Limited stock

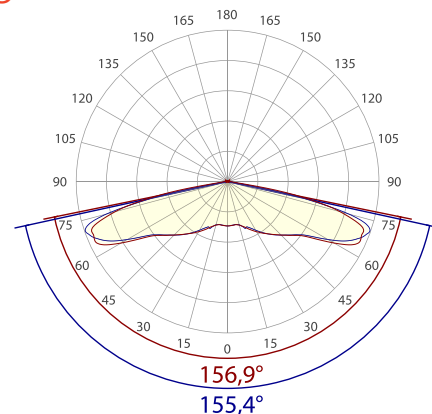
** In part numbers, 'XX' represents the CCT. Replace 'XX' with '30' for 3000K, '40' for 4000K, '50' for 5000K, '65' for 6500K, or '71' for 7100K.

PRODUCT RATINGS

Input Voltage	24 VDC
IC Design	Constant Current
Lumen Drop	< 3%
Ingress Protection	IP68
Max. # of Modules Per Continuous String	270 (for 35 lm/module models) 156 (for 70 lm/module models) 118 (for 100 lm/module models) 95 (for 150 lm/module models)
MacAdam ellipse	3-step binning
Operating Temperature	-13 — 140 °F (-25 — 60 °C)
Lifetime (L80 reported)	TM-21 reported: L80 > 54,000 hours TM-21 calculated (extrapolated): L80 ≈ 86,000 hours
Warranty	10-year limited warranty
Dimensions (L x W x H)	1.66 x 0.49 x 0.44 in. (42 x 13 x 11 mm)

OPTIC

U (wide angle)



> Small, medium to large channel letters and sign cabinets

POWER SUPPLY LOADING

Module Type	Per 30 W Power Supply			Per 60 W Power Supply			Per 100 W Power Supply			Per 300 W Power Supply (3x 100 W)		
	Max. # of Modules	Max. # of Feet	Max. # of Meters	Max. # of Modules	Max. # of Feet	Max. # of Meters	Max. # of Modules	Max. # of Feet	Max. # of Meters	Max. # of Modules	Max. # of Feet	Max. # of Meters
LS-PE2-XXK- 35 -U100-A	142	46.3	14.1	270	92.9	28.3	474*	155.1	47.3	1422* (3x 474)	466.2 (3x 155.4)	142.1 (3x 47.37)
LS-PE2-XXK- 70 -U150-A	68	32.7	10	135	44	13.4	225*	110.2	33.6	675* (3x 225)	331.7 (3x 110.6)	101.1 (3x 33.7)
LS-PE2-XXK- 100 -U200-A	47	30.4	9.3	95	30.8	9.4	158*	102.9	31.4	474* (3x 158)	310.2 (3x 103.4)	94.5 (3x 31.5)
LS-PE2-XXK- 150 -U250-A	31	24.6	7.5	62	20	6.1	103*	84	25.6	309* (3x 103)	252.6 (3x 84.2)	77 (3x 25.67)

* For optimum performance maximum number of **35 lm** modules on a single continuous string is 270.
For optimum performance maximum number of **70 lm** modules on a single continuous string is 156.

For optimum performance maximum number of **100 lm** modules on a single continuous string is 118.
For optimum performance, maximum number of **150 lm** modules on a single continuous string is 95.

LAYOUT GUIDE**

**Layout guidance is based on 0.2 in. (5 mm) thick 7328 acrylic with 23% translucency, designed to achieve optimal uniformity.

U optic | 35 lm/module | 100 mm spacing

LS-PE2-XXK-35-U100-A				
Channel Depth (in. / mm)	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
1.2 / 30	3 / 75	4 / 100	2.5 / 65	4 / 100
1.6 / 40	5 / 125	4 / 100	4 / 100	4 / 100
2 / 50	6 / 150	4 / 100	5 / 125	4 / 100

U optic | 70 lm/module | 150 mm spacing

LS-PE2-XXK-70-U150-A				
Channel Depth (in. / mm)	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
3 / 75	9.5 / 240	6 / 150	8.5 / 215	6 / 150
4 / 100	14 / 355	6 / 150	12 / 305	6 / 150

U optic | 100 lm/module | 200 mm spacing

LS-PE2-XXK-100-U200-A				
Channel Depth (in. / mm)	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
3 / 75	10 / 250	8 / 200	6.5 / 165	8 / 200
4 / 100	13 / 330	8 / 200	9 / 225	8 / 200
5 / 125	17 / 430	8 / 200	13 / 330	8 / 200
6 / 150	17 / 430	8 / 200	16 / 405	8 / 200
7 / 175	15 / 380	8 / 200	15 / 380	8 / 200

U optic | 150 lm/module | 250 mm spacing

LS-PE2-XXK-150-U250-A				
Channel Depth (in. / mm)	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
3 / 75	10 / 250	10 / 250	6.5 / 165	10 / 250
4 / 100	13 / 330	10 / 250	9 / 225	10 / 250
5 / 125	17 / 430	10 / 250	13 / 330	10 / 250
6 / 150	17 / 430	10 / 250	16 / 405	10 / 250
7 / 175	15 / 380	10 / 250	15 / 380	10 / 250

SHIPPING INFORMATION

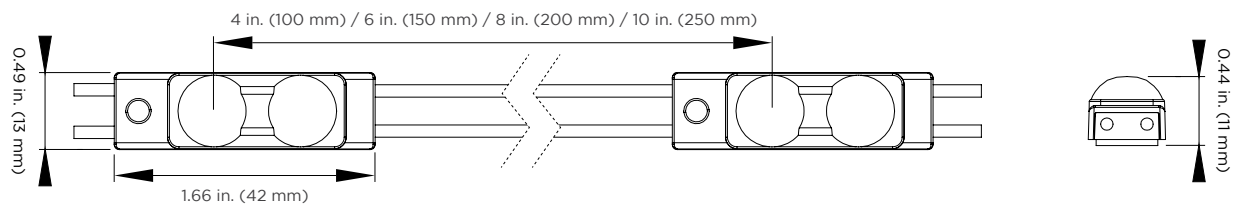
LS-PE2-XXK- 35 -U100-A					
Packaging Quantity		Carton Dimensions			Carton Weight
# of Modules per Bag	# of Modules per Carton	L	W	H	
100	2000	20.47 in. / 520 mm	14.57 in. / 370 mm	10.24 in. / 260 mm	35.71 lbs / 16.2 kg

LS-PE2-XXK- 70 -U150-A					
Packaging Quantity		Carton Dimensions			Carton Weight
# of Modules per Bag	# of Modules per Carton	L	W	H	
100	2000	20.47 in. / 520 mm	14.57 in. / 370 mm	10.24 in. / 260 mm	40.34 lbs / 18.3 kg

LS-PE2-XXK- 100 -U200-A					
Packaging Quantity		Carton Dimensions			Carton Weight
# of Modules per Bag	# of Modules per Carton	L	W	H	
100	1600	20.47 in. / 520 mm	14.57 in. / 370 mm	10.24 in. / 260 mm	36.6 lbs / 16.6 kg

LS-PE2-XXK- 150 -U250-A					
Packaging Quantity		Carton Dimensions			Carton Weight
# of Modules per Bag	# of Modules per Carton	L	W	H	
100	1400	20.47 in. / 520 mm	14.57 in. / 370 mm	10.24 in. / 260 mm	36.38 lbs / 16.5 kg

DIMENSION DRAWING



1. UL ONLY - These products are only suitable for connection to a UL rated Class 2 power source rated 24 Volt or less.
2. UL ONLY - These products are intended for use only when connected to a power source that complies with UL rated Class 2 voltage and energy limited circuit.
3. UL ONLY - When these units are connected to a UL rated Class 2 circuit, they are not to draw a total wattage of greater than the secondary or output rating of the UL rated Class 2 power supply.
4. These products may be secured in place in the end product by any means available.
5. These products are suitable for use in dry, damp, and wet locations. Not suitable for submersed applications.

GLOBAL HQ

320 Murray Hill Pkwy
East Rutherford, NJ 07073
U.S.
T: (+1) 212 629 6830
E: Sales-US@GENLEDBrands.com

EUROPEAN HQ

Hogeweyselaan 119
1382 JK Weesp
Netherlands
T: (+31) 346 235 000
E: SalesEurope@GENLEDBrands.com

MEINA HQ

PO Box 371378, #823, Building 4EA
Dubai Airport Free Zone
Dubai, UAE
T: (+971) 4 701 7901
E: SalesMEINA@genledbrands.com

ASIA-PACIFIC HQ

Room 402, Building D
Shensi Tongchuang Science and Technology Park
No. 16 Hongyin Road
Xingqiang Community, Xinhua Street
Guangming District, Shenzhen, China 518107
T: (+86) 755 8529 0710
E: Sales-Pacific@GENLEDBrands.com