

TunnelPass LED™ Large

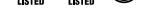








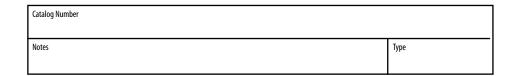












Mechanical

- Low copper content diecast aluminum alloy electrical and optical housing. Diecast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convection cooling.
- Stainless steel bolted or latched door closure disengages top electrical cover for easy access to LED drivers, surge protection, luminaire disconnect, and terminal block.
- Super durable powder coat finish over anodized aluminum pre-finish. Rigorous pre-treating and paint process yields a finish that achieves a scribe creepage rating of 10 (per ASTM D1654) after over 20,000 hours of exposure to salt fog chamber (operated per ASTM B117).
- Luminaire mounting brackets are of 316 grade stainless steel.
- Luminaire is IP66 rated.
- Luminaire is 3G vibration rated per ANCI C136.31.
- Luminaire is suitable for continuous row mounting as standard, with through wire raceway available as an option.
- Luminaire and through wire raceway box each have three removable brass ¾-14NPT entries to facilitate wiring.

Electrical

- Quick disconnect connectors for ease of installation and maintenance.
- Extreme surge protection meets 20kV/10kA per ANSI/ IEEEC62.41 and is fail off.
- Three pole terminal block is standard for ease of installation.
- LED drivers meets maximum total harmonic distortion (THD) of 20% and are ROHS compliant. Minimum operating temperature is -40°C. Electronic driver has an estimated minimum life of 100,000 hours at 25°C.
- XVOLT Electrical option provides protection against dropped neutral in 277V input as derived from 480V Wye. XVOLT also provides greater immunity from six common power quality issues.

- PCB mounted LED technology comprised of multi-cluster LED's on a single metal core board.
- Color temperature options of 3000K, 4000K, and 5000K with CRI of 70 minimum.
- Segmented Miro 4 internal reflectors are designed for superior optical control in Counterbeam, Crossbeam, Long and Narrow.
- Borosilicate glass refractor ensures longevity and minimizes dirt depreciation and minimizes direct view of LED's, reducing glare.

Controls

- 0-10V dimming standard
- Field Adjustable Output (AO) module Onboard device that allows manual adjustment of the light output and input wattage to meet site specific requirements. The AO module is preset at the factory to position number 8 (see chart).
- ICMNYX Nyx Hemera internally mounted control module communicates with Nyx Hemera powerline control systems (consult factory).

Testing/Compliance

Luminaire conforms to the following standards:

- ANSI/IEEE C62.41:2002 Surge protection
- ANSI C82.77:2002 Harmonic distortion limits
- ANSI C136.31 Luminaire vibration
- ASTM B117 Salt Spray
- FCC Title 47 CFR Part 15 FCC EMC/EMI
- IEC 60068 Environmental testing
- ANSI C136.27-17 Environmental Testing (including Parsons test)
- IEC 60529 Ingress Protection (IP)
- IEC 61000 Electromagnetic Compatibility testing (EMC)
- IEEE 519 Harmonic Control in Electrical Power systems
- UL 1598 Wet Location Safety Listing
- UL 1598A Marine Outside
- PK1-PK4 Suitable for ambient temeratures -40°C to 50°C
- PK5 Suitable -40°C to 45°C ambient
- PK6 Suitable -40°C to 40°C ambient
- TW Option suitable -40°C to 40°C ambient

Manufacturing

- 100% electrical testing on all luminaires before shipment
- No less than five (5) years experience in manufacturing LED based products

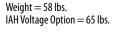
Buy American Act

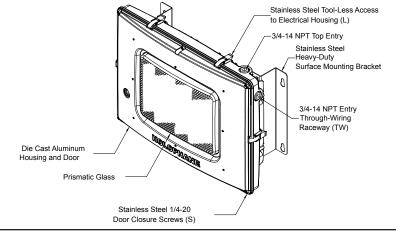
This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www. acuitybrands.com/resources/buy-american for additional information.

Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.







TunnelPass LED™ Large



ORDERING INFORMATION

Example: TNLED2 PK4 MVOLT 40K CCB DGRA LTCH TW MISC AWB35 ICMNYX

Series	Lumen Package	Voltage	Color Temperature	Optics	Color	Door Closure
TNLED2 TunnelPass LED™ Large	PK1 25,700lm PK2 31,200lm PK3 37,700lm PK4 41,200lm PK5 51,300lm PK6 57,300lm	MVOLT 120-277V HVOLT 347-480V XVOLT 277-480V with enhanced power quality protection IAH 277V, with protection from 480V	30K 3000K CCT 40K 4000K CCT 50K 5000K CCT	CCB Ceiling Mount Counterbeam CLN Ceiling Mount Long and Narrow WCR Wall Mount Crossbeam	CTBS As Specified DBKA Black DBZA Bronze DGRA Gray DWHA White DGHA Graphite	LTCH Latched SCRW Bolted Assembly

Option	1 5:				
BM F1 F2 TW MISC	Box Mount Single Fusing Double Fusing Through Wire Mex	AWB00 AWB05 AWB10 AWB15 AWB20 AWB25 AWB30 AWB35 AWB40 AWB45	Adjustable Wall Bracket Factory Set to 0 Degree Tilt Adjustable Wall Bracket Factory Set to 5 Degree Tilt Adjustable Wall Bracket Factory Set to 10 Degree Tilt Adjustable Wall Bracket Factory Set to 15 Degree Tilt Adjustable Wall Bracket Factory Set to 20 Degree Tilt Adjustable Wall Bracket Factory Set to 25 Degree Tilt Adjustable Wall Bracket Factory Set to 30 Degree Tilt Adjustable Wall Bracket Factory Set to 35 Degree Tilt Adjustable Wall Bracket Factory Set to 40 Degree Tilt Adjustable Wall Bracket Factory Set to 40 Degree Tilt	AO ICMNYX DALI	Field adjustable output Nyx Hemera Internal Control Module, Consult Factory DALI Driver Option, Consult Factory

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OPTIONS MATRIX (continued next page)

Parameters		Perf Package		Optics				Co	lor			Door (Door Closure Options				
i didilicters		PK1-PK6	ССВ	CLN	WCR	CTBS	DBKA	DBZA	DGRA	DWHA	DGHA	LTCH	SCRW	ВМ	TW	F1	F2
LED Performance Package	PK1-PK6		Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	MVOLT	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
W.L.	HVOLT	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Voltage	IAH	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	XVOLT	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	30K	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Color Temperature	40K	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	50K	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	ССВ	Υ		N	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Optics	CLN	Y	N		N	Υ	Υ	Υ	Υ	Υ	Y	Υ	Υ	Y	Υ	Υ	Υ
	WCR	Y	N	N		Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	CTBS	Y	Υ	Υ	Υ		N	N	N	N	N	Y	Υ	Y	Y	Υ	Υ
	DBKA	Y	Υ	Υ	Υ	N		N	N	N	N	Υ	Υ	Y	Υ	Υ	Υ
Color	DBZA	Y	Υ	Y	Υ	N	N		N	N	N	Y	Υ	Υ	Y	Υ	Υ
COIOI	DGRA	Y	Υ	Υ	Υ	N	N	N		N	N	Y	Υ	Υ	Y	Υ	Υ
	DWHA	Y	Υ	Υ	Υ	N	N	N	N		N	Υ	Υ	Υ	Υ	Υ	Υ
	DGHA	Y	Υ	Υ	Υ	N	N	N	N	N		Y	Y	Y	Y	Υ	Y
Door Closure	LTCH	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y		N	Y	Y	Υ	Y
Door closure	SCRW	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	N		Y	Υ	Υ	Y
	BM	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Y	Y		N	Υ	Υ
Options	TW	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Y	Y	N		Υ	Υ
options .	F1	Y	Υ	Υ	Υ	Υ	Υ	Y	Υ	Y	Y	Y	Υ	Y	Y		Υ
	F2	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ	Y	Υ	Y	Y	Υ	
	AWB00	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ	N	Y	Υ	Υ
	AWB05	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Υ	N	Y	Υ	Υ
	AWB10	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Y	Υ	N	Y	Υ	Υ
	AWB15	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Y	Υ	N	Y	Υ	Υ
Angle	AWB20	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Υ	Y	N	Υ	Υ	Υ
Wall Bracket	AWB25	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Y	Y	N	Y	Υ	Υ
	AWB30	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Y	Y	N	Y	Υ	Υ
	AWB35	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Y	Y	N	Υ	Υ	Υ
	AWB40	Y	Y	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Y	Y	N	Y	Υ	Υ
	AWB45	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Y	Y	N	Y	Υ	Υ
	A0	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ	Y	Y	Υ	Υ	Υ
Other Options	ICMNYX	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Y	Υ	Y	Y	Υ	Υ
	DALI	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ

Notes IAH is not available in combination with ICMNYX on PK6. ICMNYX is available (without IAH) for all performance packages.

Y= Valid Option Combination N = Combination Not available

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OPTIONS MATRIX (continued from previous page)

Parameters						Angle Wa	III Bracket					(Other Option	ns
ratallieters		AWB00	AWB05	AWB10	AWB15	AWB20	AWB25	AWB30	AWB35	AWB40	AWB45	A0	ICMNYX	DALI
LED Performance Package	PK1-PK6	Υ	Υ	Y	Y	Υ	Y	Υ	Y	Y	Y	Y	Υ	Y
	MVOLT	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Y	Y	Υ	Υ	Y
Voltage	HVOLT	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Y	Y	Υ	Υ	Y
voitage	IAH	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Y	Y	Υ	γ*	Υ
	XVOLT	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N
	30K	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Color Temperature	40K	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ	Υ	Υ
	50K	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	ССВ	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Optics	CLN	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	WCR	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	CTBS	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	DBKA	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
6.1	DBZA	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Color	DGRA	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	DWHA	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	DGHA	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	LTCH	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Door Closure	SCRW	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ	Υ	Υ
	ВМ	N	N	N	N	N	N	N	N	N	N	Υ	Υ	Υ
	TW	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Options	F1	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ	Υ	Υ
	F2	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	AWB00		N	N	N	N	N	N	N	N	N	Υ	Υ	Υ
	AWB05	N		N	N	N	N	N	N	N	N	Υ	Υ	Υ
	AWB10	N	N		N	N	N	N	N	N	N	Υ	Υ	Υ
	AWB15	N	N	N		N	N	N	N	N	N	Υ	Υ	Υ
Angle	AWB20	N	N	N	N		N	N	N	N	N	Υ	Υ	Υ
Wall Bracket	AWB25	N	N	N	N	N		N	N	N	N	Υ	Υ	Υ
	AWB30	N	N	N	N	N	N		N	N	N	Υ	Υ	Υ
	AWB35	N	N	N	N	N	N	N		N	N	Υ	Υ	Υ
	AWB40	N	N	N	N	N	N	N	N		N	Υ	Υ	Υ
	AWB45	N	N	N	N	N	N	N	N	N		Υ	Υ	Υ
	AO	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ		N	N
Other Options	ICMNYX	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N		N
,	DALI	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N	

Notes IAH is not available in combination with ICMNYX on PK6. ICMNYX is available (without IAH) for all performance packages. Y= Valid Option Combination N= Combination Not available

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PERFORMANCE DATA

THIFDO	In cont Wester	Distribution	30	OOK	40	00K	5000K		
TNLED2	Input Watts	Distribution	Lumens	LPW	Lumens	LPW	Lumens	LPW	
		CCB	25,116	119	25,836	122	26,156	124	
PK1	212	CLN	25,479	120	26,209	124	26,534	125	
		WCR	24,378	115	25,077	119	25,387	120	
		CCB	30,532	117	31,407	120	31,796	122	
PK2	262	CLN	30,973	118	31,860	122	32,255	123	
		WCR	29,634	113	30,484	117	30,861	118	
	321	CCB	36,907	115	37,965	118	38,435	120	
PK3		CLN	37,440	117	38,513	120	38,990	122	
		WCR	35,823	112	36,849	115	37,306	116	
		CCB	40,625	118	41,789	121	42,307	123	
PK4	345	CLN	41,211	120	42,392	123	42,917	125	
		WCR	39,432	114	40,562	118	41,064	119	
		ССВ	50,165	115	51,603	119	52,242	120	
PK5	435	CLN	50,889	117	52,348	120	52,996	122	
		WCR	48,692	112	50,087	115	50,708	117	
		ССВ	56,009	113	57,614	117	58,327	118	
PK6	495	CLN	56,817	115	58,445	118	59,169	120	
		WCR	54,363	110	55,922	113	56,614	114	

TunnelPass LED™ Large



	Driver Output mA	Luminaire Input Operating Amps						
Package	mA	120V	208V	240V	277V	347V	480V	
PK1	500	1.8	1.0	0.9	0.8	0.6	0.5	
PK2	625	2.2	1.3	1.1	1.0	0.8	0.6	
PK3	770	2.7	1.5	1.4	1.2	1.0	0.7	
PK4	550	2.9	1.7	1.4	1.3	1.0	0.7	
PK5	700	3.7	2.1	1.8	1.6	1.3	0.9	
PK6	800	4.2	2.4	2.1	1.8	1.5	1.1	

LUMINAIRE AMBIENT TEMPERATURE (LAT) TABLE

Package	0℃	5℃	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C
PK1	1.022	1.018	1.014	1.010	1.005	1.000	0.995	0.989	0.983	0.976	0.970
PK2	1.024	1.020	1.015	1.011	1.005	1.000	0.994	0.988	0.982	0.975	0.968
PK3	1.026	1.021	1.017	1.011	1.006	1.000	0.994	0.987	0.980	0.973	0.966
PK4	1.026	1.022	1.017	1.012	1.006	1.000	0.994	0.987	0.980	0.973	0.965
PK5	1.030	1.024	1.019	1.013	1.007	1.000	0.993	0.986	0.978	0.970	
PK6	1.032	1.026	1.020	1.014	1.007	1.000	0.993	0.985	0.977		

PK1-PK4 suitable for use -40°C to 50°C. PK5 suitable for use -40°C to 45°C ambient. PK6 suitable for use -40°C to 40°C ambient. TW option suitable for use -40°C to 40°C ambient.

LED LUMEN MAINTENANCE

	PK1	PK2	PK3	PK4	PK5	PK6
25,000 hours	97.5%	97.5%	96.5%	97.4%	97.0%	95.6%
50,000 hours	97.1%	97.1%	94.6%	96.7%	96.0%	93.1%
75,000 hours	96.7%	96.6%	92.8%	96.0%	95.0%	90.8%
100,000 hours	96.2%	96.1%	91.0%	95.3%	94.0%	88.4%

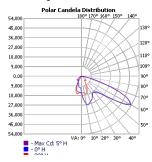
AO OPTION SETTINGS

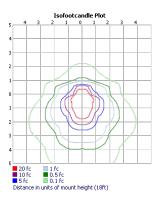
AO setting	Lumens %	Wattage %
8	100%	100%
7	94%	94%
6	83%	81%
5	71%	68%
4	59%	55%
3	46%	43%
2	34%	31%
1	21%	18%

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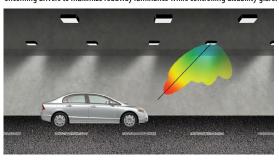


CCB: Ceiling mount counterbeam

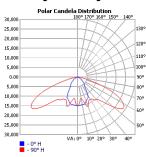


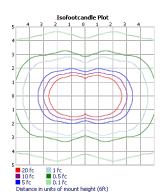


Recommended for divided tunnels where majority of lumens are directed towards oncoming drivers to maximize roadway luminance while controlling disability glare.

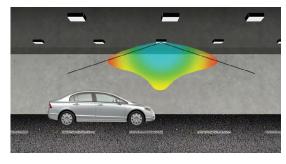


CLN: Ceiling mount long and narrow

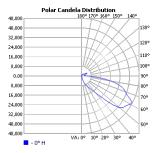


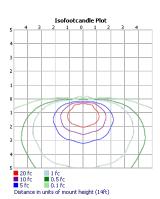


Recommended for undivided tunnels where equal lumens are with and against traffic flow.



WCR: Wall mount crossbeam





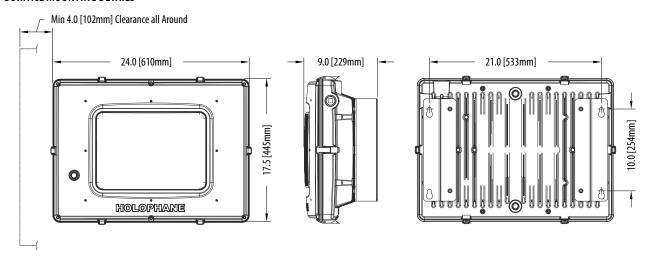
Recommended for undivided tunnels where equal lumens are with and against traffic flow.



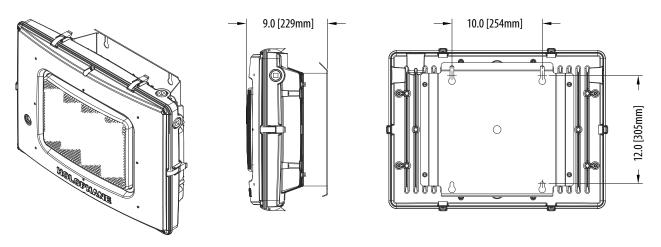
TunnelPass LED™ Large



SURFACE MOUNTING DETAILS



BOX MOUNTING DETAILS



ADJUSTABLE WALL BRACKET MOUNTING DETAILS

