

TunnelPass LED™ Medium

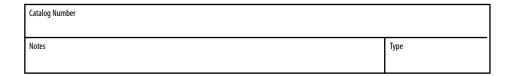












Mechanical

- 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.

Optical

- 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, and Underpass optics.
- 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, PK2, PK4, PK5 & PK6 Suitable for ambient terperature -40°C to 50°C
- PK3 Suitable for ambient terperature -40°C to 45°C
- PK7, PK8 & PK9 Suitable for ambient terperature -40°C to 40°C

Manufacturing

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

Government Procurement

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.

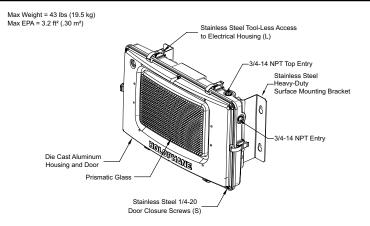
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

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-conditions

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™ Medium



ORDERING INFORMATION

Example: TNLEDMED PK8 40K XVOLT CCB DGRA LTCH

Series	Lumen Package	Color Temperature	Voltage	Optics	Color	Door Closure
TNLEDMED TunnelPass LED™ Medium	PK1 6,000lm PK2 9,500lm PK3 12,000lm PK4 15,000lm PK5 18,000lm PK6 21,000lm PK7 24,000lm PK8 30,000lm PK9 36,000lm	30K 3000K CCT 40K 4000K CCT 50K 5000K CCT	MVOLT 120-277V HVOLT 347-480V XVOLT 277-480V with enhanced power quality protection	CCB Ceiling Mount Counterbeam CLN Ceiling Mount Long and Narrow WCR Wall Mount Crossbeam UDP Wall Mount Underpass	A As Specified DBKA Black DBZA Bronze DGRA Gray DWHA White DGHA Graphite	LTCH Latched SCRW Bolted Assembly

Option	is:				
ВМ	Box Mount	AWB00	Adjustable Wall Bracket Factory Set to 0 Degree Tilt	ICMNYX	Nyx Hemera Internal Control Module, Consult Factory
F1	Single Fusing	AWB05	Adjustable Wall Bracket Factory Set to 5 Degree Tilt	DALI	DALI Driver Option, Consult Factory
F2	Double Fusing	AWB10	Adjustable Wall Bracket Factory Set to 10 Degree Tilt		
TW	Through Wire Box Top Mount	AWB15	Adjustable Wall Bracket Factory Set to 15 Degree Tilt		
AO	Field Adjustable Module	AWB20	Adjustable Wall Bracket Factory Set to 20 Degree Tilt		
		AWB25	Adjustable Wall Bracket Factory Set to 25 Degree Tilt		

TunnelPass LED™ Medium



OPTIONS MATRIX

Paramet	ers		0р	otic			Voltage				Options			Wall Brackets			Cont (consult				
		CCB	CLN	WCR	UDP	MVOLT	HVOLT	XVOLT	ВМ	F1	F2	TW	A0	AWB00	AWB05	AWB10	AWB15	AWB20	AWB25	ICMNYX	DALI
	PK1	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	PK2	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ	Υ	Y	Υ	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ
	PK3	Y	Υ	Y	Y	Υ	Y	Y	Y	Υ	Y	Υ	Υ	Υ	Y	Υ	Υ	Y	Υ	Υ	Y
	PK4	Υ	Y	Y	Y	Υ	Y	Y	Y	Υ	Y	Υ	Y	Υ	Y	Y	Y	Y	Υ	Y	N
Lumen Package	PK5	Υ	Υ	Υ	Y	Υ	Y	Y	Y	Υ	Y	Υ	Y	Υ	Y	Y	Y	Υ	Υ	Y	N
	PK6	Υ	Υ	Υ	Y	Υ	Y	Y	Υ	Υ	Υ	Υ	Y	Υ	Υ	Y	Υ	Υ	Υ	Y	N
	PK7	Υ	Υ	Y	Y	Y	Y	Y	Y	Υ	Υ	Υ	Y	Υ	Υ	Y	Y	Y	Υ	N	N
	PK8	Y	Υ	Y	Y	Y	Y	Y	Y	Υ	Y	Υ	Y	Υ	Y	Y	Y	Y	Υ	N	N
	PK9 (*1)	Υ	Υ	Υ	Y	Y	Y	Y	Y	Υ	Y	Υ	Y	Υ	Y	Y	Y	Y	Υ	N	N
	ССВ		N	N	N	Y	Y	Y	Υ	Υ	Y	Υ	Y	Υ	Y	Y	Y	Y	Υ	Y	Y
Optic	CLN	N		N	N	Υ	Y	Y	Y	Υ	Y	Υ	Y	Υ	Y	Υ	Y	Y	Υ	Y	Y
V	WCR	N	N		N	Υ	Y	Y	Y	Υ	Y	Y	Y	Υ	Y	Y	Y	Y	Υ	Y	Y
	UDP	N	N	N		Υ	Y	Y	Y	Υ	Y	Y	Y	Υ	Y	Υ	Y	Y	Y	Y	Y
Door Closure	L	Y	Υ	Y	Y	Y	Υ	Y	Y	Υ	Y	Y	Y	Υ	Y	Υ	Y	Y	Y	Y	Y
Door closure	S	Y	Υ	Y	Y	Υ	Y	Y	Y	Υ	Y	Υ	Y	Υ	Y	Υ	Υ	Y	Y	Y	Y
	BM	Y	Y	Y	Y	Y	Y	Y		Υ	Y	N	Y	N	N	N	N	N	N	Y	Y
	F1	Y	Υ	Y	Y	Υ	Y	Y	Υ		N	Υ	Υ	Υ	Y	Y	Y	Υ	Y	Υ	Y
Options	F2	Υ	Υ	Υ	Y	Y	Y	Y	Υ	N		Υ	Υ	Υ	Y	Y	Y	Υ	Υ	Y	Υ
	TW	Y	Υ	Υ	Y	Y	Y	Y	N	Y	Y		Υ	Υ	Y	Y	Y	Υ	Υ	Y	Υ
	AO	Y	Y	Y	Y	Y	Y	Y	Υ	Υ	Y	Υ		Υ	Υ	Y	Υ	Y	Y	N	N
	AWB00	Y	Υ	Υ	Y	Υ	Y	Y	N	Υ	Y	Υ	Υ		N	N	N	N	N	Y	Y
	AWB05	Υ	Υ	Υ	Y	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	N		N	N	N	N	Υ	Υ
Wall Brackets	AWB10	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	N	N		N	N	N	Υ	Υ
	AWB15	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	N	N	N		N	N	Y	Υ
	AWB20	Υ	Υ	Υ	Y	Y	Υ	Υ	N	Υ	Υ	Υ	Υ	N	N	N	N		N	Υ	Υ
	AWB25	Y	Y	Υ	Y	Y	Y	Y	N	Υ	Y	Y	Υ	N	N	N	N	N		Υ	Υ
Controls	ICMNYX	Υ	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Y		N
(consult factory)	DALI	Υ	Υ	Υ	Y	Υ	Y	N	Υ	Υ	Υ	Υ	N	Υ	Y	Y	Υ	Υ	Υ	N	

Notes

*1 PK9 has non-illuminated fail-off 20kV/10kA surge (fail off mode). PK1-thru-PK8 have 20kV/10kA fail off mode surge with indicator light.

 $Y = Valid\ Option\ Combination$

N = Combination Not available

TunnelPass LED™ Medium



PERFORMANCE DATA

TNLEDMED	Input Watts	Distribution	30	00K	400	OOK	500	OK .
INLEDMED	input watts	Distribution	Lumens	LPW	Lumens	LPW	Lumens	LPW
		CCB	6,782	119	7,343	129	7,343	129
DI/1	F-7	CLN	6,333	111	6,858	120	6,858	120
PK1	57	WCR	6,485	114	7,022	123	7,022	123
		UDP	6,277	110	6,797	119	6,797	119
		CCB	9,168	131	9,928	142	9,928	142
DI/2	70	CLN	8,562	122	9,271	132	9,271	132
PK2	70	WCR	8,767	125	9,493	136	9,493	136
		UDP	8,486	121	9,189	131	9,189	131
		CCB	12,592	123	13,634	134	13,634	134
DI/2	102	CLN	11,759	115	12,733	125	12,733	125
PK3	102	WCR	12,040	118	13,037	128	13,037	128
		UDP	11,655	114	12,620	124	12,620	124
		CCB	14,897	119	16,130	129	16,130	129
DI/ 4	125	CLN	13,911	111	15,063	121	15,063	121
PK4	125	WCR	14,244	114	15,424	123	15,424	123
		UDP	13,788	110	14,930	119	14,930	119
		CCB	17,601	117	19,059	126	19,059	126
DI/E	151	CLN	16,437	109	17,799	118	17,799	118
PK5	151	WCR	16,831	111	18,224	121	18,224	121
		UDP	16,292	108	17,641	117	17,641	117
		CCB	19,551	107	21,170	116	21,170	116
DVC	102	CLN	18,258	100	19,770	109	19,770	109
PK6	182	WCR	18,695	103	20,243	111	20,243	111
		UDP	18,097	99	19,595	108	19,595	108
		CCB	25,497	126	27,608	136	27,608	136
DI/7	202	CLN	23,866	118	25,842	127	25,842	127
PK7	203	WCR	24,176	119	26,178	129	26,178	129
		UDP	22,935	113	24,834	122	24,834	122
		CCB	29,801	121	32,268	131	32,268	131
DIVO	246	CLN	27,895	113	30,204	123	30,204	123
PK8	246	WCR	28,257	115	30,597	124	30,597	124
		UDP	26,806	109	29,026	118	29,026	118
		CCB	34,026	105	36,843	114	36,843	114
DIVO	222	CLN	31,849	99	34,486	107	34,486	107
PK9	323	WCR	32,263	100	34,935	108	34,935	108
		UDP	30,607	95	33,141	103	33,141	103

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	Driver Output mA			Operating Amps			
Package	mA	120V	208V	240V	277V	347V	480V
PK1	330	0.295	0.289	0.253	0.226	0.174	0.138
PK2	420	0.586	0.349	0.302	0.267	0.207	0.159
PK3	600	0.849	0.494	0.429	0.367	0.299	0.216
PK4	730	1.042	0.617	0.534	0.465	0.388	0.299
PK5	880	1.255	0.739	0.64	0.548	0.452	0.345
PK6	1050	1.513	0.881	0.764	0.647	0.534	0.402
PK7	600	1.693	1.007	0.872	0.763	0.623	0.486
PK8	730	2.049	1.213	1.051	0.914	0.763	0.589
PK9	960	2.76	1.64	1.43	1.2	0.75	0.73

LUMINAIRE AMBIENT TEMPERATURE (LAT) TABLE

Package	0°C	5°C	10℃	15℃	20°C	25℃	30°C	35℃	40°C	45°C	50°C
PK1	1.04	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95
PK2	1.04	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95
PK3	1.04	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	
PK4	1.04	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95
PK5	1.04	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95
PK6	1.04	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95
PK7	1.04	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97		
PK8	1.04	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97		
PK9	1.04	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97		

LED LUMEN MAINTENANCE

	PK1	PK2	PK3	PK4	PK5	PK6	PK7	PK8	PK9
25,000 hours		95.8%			94.7%		94.7%	93.3%	93.8%
50,000 hours		91.9%			89.8%		89.9%	89.2%	88.1%
75,000 hours		88.2%			85.2%		85.3%	84.3%	82.8%
100,000 hours		84.7%			80.9%		81.0%	79.7%	77.7%

AO OPTION SETTINGS

PK1								
Setting	Lumens	Wattage						
8	100%	100%						
7	100%	100%						
6	100%	100%						
5	100%	88%						
4	88%	76%						
3	65%	65%						
2	53%	54%						
1	40%	43%						

	PK2								
Setting	Lumens	Wattage							
8	100%	100%							
7	100%	100%							
6	98%	97%							
5	87%	85%							
4	75%	72%							
3	64%	60%							
2	53%	47%							
1	42%	35%							

	РК3-РК7	
Setting	Lumens	Wattage
8	100%	100%
7	100%	100%
6	99%	99%
5	86%	86%
4	73%	73%
3	61%	61%
2	47%	47%
1	36%	36%

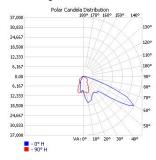
	PK8	
Setting	Lumens	Wattage
8	100%	100%
7	100%	100%
6	100%	100%
5	94%	90%
4	82%	77%
3	70%	65%
2	58%	52%
1	45%	40%

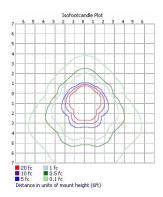
PK9								
Setting	Lumens	Wattage						
8	100%	100%						
7	100%	99%						
6	100%	99%						
5	91%	87%						
4	80%	74%						
3	66%	60%						
2	53%	46%						
1	39%	34%						

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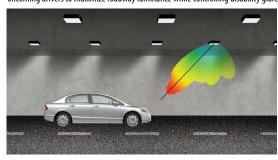


CCB: Ceiling mount counterbeam

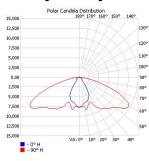


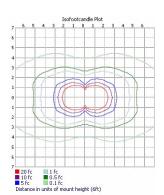


Recommended for divided tunnels where majority of lumens are directed towards oncoming drivers to maximize roadway luminance while controlling disability glare.

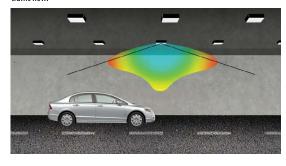


CLN: Ceiling mount long and narrow

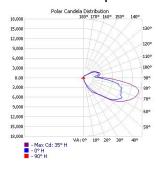


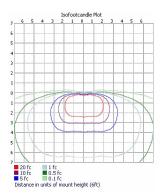


Recommended for undivided tunnels where equal lumens are with and against traffic flow.



UDP: Wall mount underpass

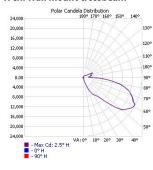


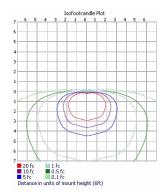


Recommended for underpass applications where illuminance is required IES type 4 distribution.



WCR: Wall mount crossbeam





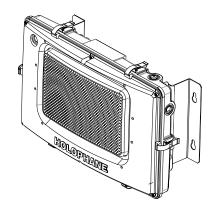
Recommended for undivided tunnels where equal lumens are with and against traffic flow.

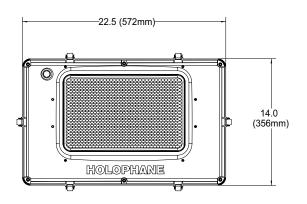


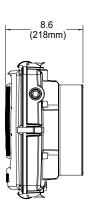


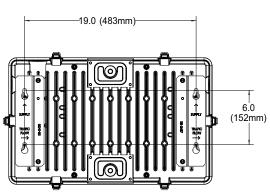


SURFACE MOUNTING DETAILS

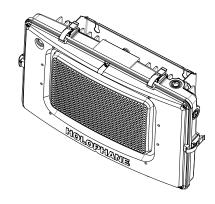


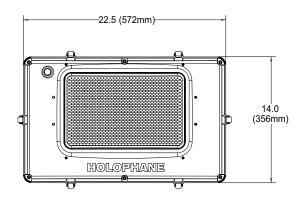


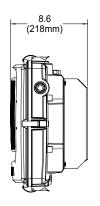


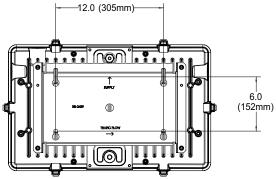


BOX MOUNTING DETAILS



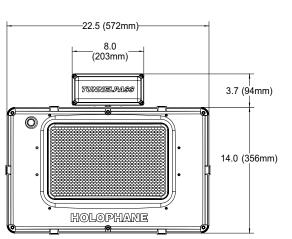


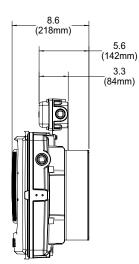


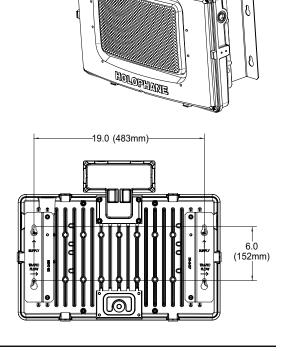




THROUGH WIRE BOX TOP MOUNTING DETAILS







ADJUSTABLE WALL BRACKET MOUNTING DETAILS

