



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS18ATEX303521 Issue 0

13. Description of Equipment or Protective System

The Areamaster/Baymaster Generation 2 (Gen 2)/LED and Areamaster/Baymaster High Lumen (HL) are LED luminaires housed in an aluminum enclosure. The Areamaster and Baymaster luminaires are identical in construction except for the enclosure powder coating, where the Areamaster luminaires are bronze and Baymaster luminaires are gray in color. The equipment consists of a main luminaire compartment (12.75 inch x 7.83 inch / 324 mm x 199 mm) for Gen 2 and (16 inch x 15.5 inch / 406 mm x 394 mm) for HL. The terminal enclosure size is (6.25 inch x 3 inch / 159 mm x 76 mm). The luminaires are equipped with a clear or diffused tempered low iron float glass lens with an antireflective coating on one side. Each LED luminaire can utilize one of two different types of silicone gaskets (Parker Hannifin or SurSeal). The luminaires have 3 threaded entries filled with blanking elements for connection of entry devices in the terminal enclosure. All luminaire models have been successfully evaluated/tested for IP64/66/67 per the requirements of EN 60079-0:2012+A11 (with reference to IEC 60529). The luminaires contain an ATEX certified LED driver (either 100W or 150W), LED array and AC/DC terminal blocks. The LED driver is housed within the main luminaire compartment. Gen 2/LED models utilize 1 LED driver, while the High Lumen (HL) models utilizes 2 LED drivers. Also, the Gen 2/LED model luminaires consist of 3 LED modules, while the HL luminaires consist of 4 LED modules.

All individually approved ATEX components have been certified to the standards noted above.

The model nomenclature for the two Areamaster and two Baymaster LED luminaires is shown below:

Series	Lumen Level	Color Temperature	Diffusion Type	Beam Spread	Voltage	Options
AMLZ - Areamaster Gen 2	L6 - 9K	C - 5000K N - 4000K W - 3000K	G - Clear Glass F - Frosted Glass	6 - 7x7 7 - 7x6	BU - 120-277 Vac 50/60 Hz, 170-300Vdc	M - M20 Metric
	L7 - 14K					
	L8 - 18.5K					
AMHZ - Areamaster - High Lumen	L1 - 23K	C - 5000K N - 4000K W - 3000K	G - Clear Glass F - Frosted Glass	6 - 7x7 7 - 7x6	BU - 120-277 Vac 50/60 Hz, 170-300Vdc	M - M20 Metric
	L2 - 28.5K					
	L3 - 36K					

Series	Lumen Level	Color Temperature	Diffusion Type	Beam Spread	None (place holder)	Voltage	Options
BLZ - Baymaster	L6 - 9K	C - 5000K N - 4000K W - 3000K	G - Clear Glass F - Frosted Glass	W - Wide M - Medium	N	BU - 120-277 Vac 50/60 Hz, 170-300Vdc	M - M20 Metric
	L7 - 14K						
	L8 - 18.5K						
BHZ - Baymaster - High Lumen	L1 - 23K	C - 5000K N - 4000K W - 3000K	G - Clear Glass F - Frosted Glass	W - Wide M - Medium	N	BU - 120-277 Vac 50/60 Hz, 170-300Vdc	M - M20 Metric
	L2 - 28.5K						
	L3 - 36K						



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Electrical parameters/ratings for the above luminaire models is shown below:

120 – 277 VAC, 50/60 Hz
170-300 VDC
315 W (max), 3A (max)

Temperature codes assigned to each model type based on driver current is shown below:

Areamaster Generation 2 model for Gas atmospheres:

Model	T-Code at 40°C ambient temperature	T-Code at 55°C ambient temperature	T-Code at 65°C ambient temperature
AMLZL6 – one 100W LED driver (at 450mA max)	T6	T5	T5
AMLZL7 – one 150W LED driver (at 930mA max)	T4	T4	T4
AMLZL8 – one 150W LED driver (at 930mA max)	T4	T4	T4

Areamaster Generation 2 model for Dust atmospheres:

Model	T-Code at 40°C ambient temperature	T-Code at 55°C ambient temperature	T-Code at 65°C ambient temperature
AMLZL6 – one 100W LED driver (at 450mA max)	85°C	85°C	85°C
AMLZL7 – one 150W LED driver (at 930mA max)	85°C	100°C	100°C
AMLZL8 – one 150W LED driver (at 930mA max)	85°C	100°C	100°C

Areamaster High Lumen (HL) model for Gas atmospheres:

Model	T-Code at 40°C ambient temperature	T-Code at 55°C ambient temperature	T-Code at 65°C ambient temperature
AMHZA1 – two 100W LED drivers (at 600mA max)	T5	T4	T4
AMHZA2 – two 150W LED drivers (at 680mA max)	T4	T4	T4
AMHZA3 – two 150W LED drivers (at 915mA max)	T4	T4	N/A



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Areamaster High Lumen (HL) model for Dust atmospheres:

Model	T-Code at 40°C ambient temperature	T-Code at 55°C ambient temperature	T-Code at 65°C ambient temperature
AMHZL1 – two 100W LED drivers (at 600mA max)	85°C	100°C	100°C
AMHZL2 – two 150W LED drivers (at 680mA)	85°C	100°C	100°C
AMHZL3 – two 150W LED drivers (at 915mA)	100°C	100°C	N/A

Baymaster LED model for Gas atmospheres:

Model	T-Code at 40°C ambient temperature	T-Code at 55°C ambient temperature	T-Code at 65°C ambient temperature
BLZL6 – one 100W LED driver (at 450mA max)	T6	T5	T5
BLZL7 – one 150W LED driver (at 930mA max)	T4	T4	T4
BLZL8 – one 150W LED driver (at 930mA max)	T4	T4	T4

Baymaster LED model for Dust atmospheres:

Model	T-Code at 40°C ambient temperature	T-Code at 55°C ambient temperature	T-Code at 65°C ambient temperature
BLZL6 – one 100W LED driver (at 450mA max)	85°C	85°C	85°C
BLZL7 – one 150W LED driver (at 930mA max)	85°C	100°C	100°C
BLZL8 – one 150W LED driver (at 930mA max)	85°C	100°C	100°C

Baymaster High Lumen (HL) model for Gas atmospheres:

Model	T-Code at 40°C ambient temperature	T-Code at 55°C ambient temperature	T-Code at 65°C ambient temperature
BHZL1 – two 100W LED drivers (at 600mA max)	T5	T4	T4
BHZL2 – two 150W LED drivers (at 680mA max)	T4	T4	T4
BHZL3 – two 150W LED drivers (at 915mA max)	T4	T4	N/A



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Baymaster High Lumen (HL) model for Dust atmospheres:

Model	T-Code at 40°C ambient temperature	T-Code at 55°C ambient temperature	T-Code at 65°C ambient temperature
BHZL1 – two 100W LED drivers (at 600mA max)	85°C	100°C	100°C
BHZL2 – two 150W LED drivers (at 680mA)	85°C	100°C	100°C
BHZL3 – two 150W LED drivers (at 915mA)	100°C	100°C	N/A

14. Report Number

Intertek Report Ref: 103476732DAL-002, Issued: September 19, 2018.

15. Special Conditions of Certification

(a). Specific Conditions of Safe Use

- None

(b). Conditions of Manufacture - Routine Tests

- Routine Dielectric Strength testing of the LED luminaires per IEC 60079-7:2015, Clause 7.1 is applicable. Dielectric strength shall be verified by test at the following test voltage and maintained for at least 1 min without dielectric breakdown occurring:

For other electrical equipment and Ex Components, where working voltages exceeding 90 V peak are present: $(1\ 000 + 2U)$ V r.m.s. + 5/0 % or 1 500 V r.m.s. +5 0 %, whichever is greater, where U is the working voltage.

The LED luminaire shall be tested as follows:

- Between inputs and ground (frame of the enclosure) – 1600V r.m.s.

Alternatively, a test shall be carried out at 1.2 times the test voltage, but maintained for at least 100ms.

16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report Ref: 103476732DAL-002, Issued: September 19, 2018.

EU-Type Examination Certificate



Valued Quality. Delivered.

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17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
ZONE 1 RATED LED DRIVER (100W – BU VERSION)	299707557	01	05/21/2018
ZONE 1 RATED LED DRIVER (150W – BU VERSION)	299707558	01	05/21/2018
CLEAR TEMPERED AR COATING GLASS AREAMASTER LED HIGH LUMEN	609203	E	06/28/2018
DIFFUSED TEMPERED AR COATING GLASS AREAMASTER LED HIGH LUMEN	603266	F	06/28/2018
CLEAR TEMPERED AR COATING GLASS AREAMASTER GEN 2	609204	E	06/27/2018
DIFFUSED TEMPERED AR COATING GLASS AREAMASTER GEN 2	615025	D	06/27/2018
AREAMASTER LED GEN 2 ZONE 1	609350	C	07/13/2018
NO MOUNT BAYMASTER LED GEN 2 ZONE 1	609351	C	07/13/2018
AREAMASTER LED HIGH LUMEN ZONE 1	609352	B	06/25/2018
NO MOUNT BAYMASTER LED HIGH LUMEN ZONE 1	609353	B	06/22/2018
GASKET SILICONE HOLLOW O-RING AREAMASTER LED	615057	C	06/27/2018
GASKET, O-RING DIA 0.26 AREAMASTER LED	615060	D	06/27/2018
SILICONE ADHESIVE/SEALANT RTV – GENERAL PURPOSE	669014	N	06/15/2018
Polyester Powder Coating	MS4002	B	02/25/2016
Polyester Powder Coating	MS4003	E	06/27/2018
THREADED PLUG – SQUARE RECESS	503712	C	10/31/2016
Zone 1 Areamaster Metric Fasteners	610641000	A	06/28/2018
Zone 1 Areamaster Imperial Fasteners	610642000	A	06/28/2018
AREAMASTER LED HIGH LUMEN AND GEN 2 NAMEPLATE LABEL	609347	B	08/06/2018
AREAMASTER LED HIGH LUMEN AND GEN 2 ZONE1 IECEx NAMEPLATE LABEL	609349	B	08/06/2018
Installation Instructions for Appleton Areamaster GEN 2 LED Luminaire – Yoke Mount	650596-000	B	08/06/2018
Installation Instructions for Appleton Areamaster High Lumen LED Luminaire – Yoke Mount	650597-000	B	08/06/2018
Installation Instructions for Appleton Baymaster LED Luminaire – No Mount	650599-000	B	08/06/2018
Installation Instructions for Appleton Baymaster HL LED Luminaire – No Mount	650600-000	B	08/06/2018