Ordering Code

RS□□□□□□□□□□□□□□□

Application
RC= Runway Centerline, L-850A(L)
RZ= Touchdown Zone, L-850B(L)

Standards
1 = FAA/ICAO[1]

Market Specific
0 = None
1 = Buy American Preference (BAP)[2,3]
4 = German MIL 7-step FO[8]

Dimensions
1 = 8 inch (203 mm) diameter
2 = 12 inch (305 mm) diameter, 11.25 inch BC (285 mm)
3 = 8 inch (203 mm) diameter, 4-bolt

Prism
S = Standard prism
R = Reinforced prism

Beam Orientation
1 = Unidirectional
2 = Bidirectional

Toe-in
N= None [4]
L = Left (only for RZ) [4]
R = Right (only for RZ)[4]

Color – Side 1
W= White
R = Red

Color – Side 2
W= White
R = Red
N= None (Unidirectional app only)

Power and Monitoring
S = 2.8 A - 6.6 A, non-monitored — power only[5]
M= 2.8 A - 6.6 A, Fail-open monitoring[5,10]
R = 2.8 A - 6.6 A EQ integrated LINC 360

Cable and Connector
1 = 1 x Style 6 2-pole plug, 2 individual wires[6,10]
2 = 1 x Style 1 2-pole plug, jacketed SO 2 core cable[6]
3 = 2 x Style 6 2-pole plug, 2 individual wires[6,7,10]
4 = 2 x Style 1 2-pole plug, jacketed SO 2 core cable[6,7,10]
5 = 1 x Flat 3-pole plug, 3 individual wires[6,10]
6 = 2 x Flat 3-pole plug, 3 individual wires[8,10]

Options
0 = None[9]
1 = Arctic Kit[9]

Version
1 = Version 1

Ordering Code Notes

EQ light fixtures are only available as a one connector option.

[1] Includes standards NATO, EASA, STAC, CAP 168, TP 312 and MOS 139.

[2] Required for FAA when using AIP funds.

[3] If a 2-cord set fixture is required meeting BAP, Digit 13, "Power and Monitoring", must be M.

[4]L and R designations are always in relationship to Side 1 only.

[5] 2-cord set option available

[6] All Style 1 corded fixtures will include a ground lug. All Style 6 corded fixtures will be provided without a ground lug.

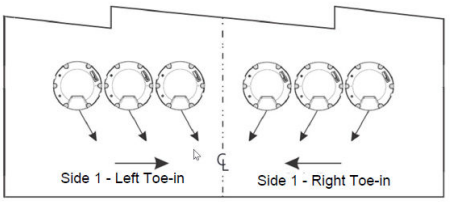
[7] Only available in Digit 13 options S and M and bi-directional configuration

[8] Not valid option for uni-directional

[9] RC white/white application meets the heat rise requirements in Engineering Brief 67D, section 2.13.1, "Arctic Kit Testing Requirements" WITHOUT an arctic kit. We do not offer an arctic kit with this configuration as the additional heat would be detrimental to the life of the LEDs.

[10] Not ETL-submitted or not applicable to FAA market

Toe-in Coding RZ



Runway Touchdown Zone

Maintenance and Installation

The light fixture can be installed on an 8-inch or 12-inch base. Gaskets are sold separately. Check what gasket and bolts to order depending on base and installation.

Refer to user manual UM-5055 for the 8-inch or 12-inch lights and to the interoperability information for installation on a specific base.

Operating Conditions

Operating temperature	-60 °C to +55 °C / -76 °F to +131 °F
Storage temperature	-60 °C to +80 °C / -76 °F to +176 °F
Humidity	Up to 100%

Dimensions and Weight

Dimensions	203 mm (8 in)	305 mm (12 in)
Weight	3.0 kg / 6.6 lb (8 in)	6.8 kg / 15 lb (12 in)

ANNEX

8-inch and 12-inch light fixtures without Arctic Kit (heater)

Fixture type – 1 cord set [1]	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Runway Centerline, L-850A(L), bidirectional	34.9 VA	45 W	14.2 VA	49.1 VA
Touchdown Zone, L-850B(L), unidirectional	25.5 VA	25 W	7.2 VA	32.7 VA

8-inch and 12-inch light fixtures with Arctic Kit (heater)

Fixture Types – 1 cord set [1]	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Runway Centerline, L-850A(L), bidirectional	62.6 VA	65 W	16.6 VA	79.2 VA
Touchdown Zone, L-850B(L), unidirectional	48.8 VA	45 W	9.7 VA	58.5 VA

Notes

[1] Values provided are for the "S" option non-monitored power only.

Note:

- See manual UM-5055 for other power supplies.
- EQ fixtures:
  - The isolation transformer must have an additional 8 VA available above the fixture load for communication bandwidth. Size transformer to next size up to assure additional 8 VA coverage. Transformers can be safely overloaded by 10 %.
  - Legacy BRITE II or AGLAS 2 systems — Order "M" power supply
- Fail-open fixtures:
  - The maximum rating for the isolation transformer is 200 W
- Additional voltage loss when longer secondary cables are used is not included in above table; these additional losses may result in a larger size isolation transformer requirement and must be factored into the circuit load calculation
- Additional voltage loss in primary cable is not included in above table; this additional loss will result in a higher CCR load and must be factored into the circuit load calculation
- Efficiency of the isolation transformer depends on the manufacturer of the transformer

For more information about the product, including manuals and certifications, please see the Product Center on the ADB SAFEGATE website: www.adbsafegate.com.