

RAIL INDUSTRY LED TRACK SIDE LIGHTS



McGeoch LED Technology has developed a highly cost effective, environmentally friendly, range of specialist LED lights for the rail industry.

Adding style and aesthetic influences to a lighting system with LED technology is never straightforward. Attention to colour, glare, thermal management, longevity, electronic drive, EMC and IP all need to be considered carefully.

Light measurements are taken throughout the design phase ensuring the customer is assured their criteria and group standards are met.

Rail Industry LED Track Side Lights are a bespoke design specific for this demanding application.

- 196mm high, 115.5mm deep (without bracket), 855mm long
- Weight 6.9kg (without Stainless Steel support bracket to the GRP post which is generally 50.8mm x 50.8mm square)
- Designed to withstand the pulse pressure of Class 2, 390 trains passing at 125mph
- Mounting Height 1500mm or in a small number of cases 850mm where train clearance is an issue¹
- IP Rating IP66 maintained for the projected life of 20 years²
- Factory Sealed
- Impact resistance (Glass) - IK08 EN62262 (According to standard EN 50102)
- Trafalite labeling of each fitting
- Supply—110v up to 240v AC without modification
- Power Consumption 350ma 46W or 500mA 67W
- Electrical Insulation: Class II
- CE approved
- EN50121 for emissions and immunity
- Connection via factory fitted 2.5mm flexible cable x 2000mm long, UV immune
- LED Setback and tilt angles are set to suit the project
- Power LED's Colour Neutral White
- Colour Temperature ANSI 4000 °K—5000 °K
- CRI 70+
- EAVE = 30 lux
- EMAX= Non defined
- EMIN= 16 lux
- EMIN/EAVE= 0.4 uniformity or above



¹ Design complies with all hazardous and harsh environmental requirements.

² Maintenance free service life is the operational lifetime before the light level falls to below 70% of its original design output

- Typical distance between Luminaires, 8m
- Typical height of Luminaire 1.5m
- Typical distance from the track (Nearest Running Rail) 2.25m
- Task area to be illuminated to be defined pending site visit, as yet unknown
- Annual Usage 2,500 hours
- Guarantee 5 years
- Network Rail Approved. Independently Reviewed
- WEEE registered, covering the end of life disposal of fittings

Approvals

During development Specialist Approval and Certification houses were engaged for approvals and testing guidance to ensure all necessary applicable standards were achieved.

Design and Manufacturing Compliance

- Reliability, availability, maintainability and safety
- Operating voltage range
- Clearances and creepage distances
- Earth bonding Class II insulated
- Lighting levels independently tested
- Dielectric testing
- Warning signs and labels

Type Testing

- Shock
- Vibration
- Ingress protection
- EMC

McGeoch LED Technology has the unrivalled advantage of being able to offer a complete solution to meet the demanding requirements of the lighting industries. Whilst being fully cost aware, McGeoch only offers quality LED Lighting Systems.

McGeoch LED Technology has developed an industry leading LED luminaire. Projects are approached from the ground up with an on-site visit to accurately measure light output. McGeoch then utilises its Research & Development Centre to replicate and enhance the amount and quality of light using the latest LED technology.

The light engines used in McGeoch LED Technology products are of the highest quality and are exclusive to the company's products.

Energy and Other Specifications data

LED lighting solution offers significant energy saving over current traditional lighting.

IES Files available on request:-



McGeoch 350ma.ies



McGeoch 500ma.ies

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