Chartered Engineers Architectural Services & Project Managers

Lighting Assessment Report

P2224
Jones Oil,
Depot & Service Station,
Greenhills Road, Tallaght
Dublin 24, D24 HN28

Jones Oil, Greenhills Road, Tallaght, South Co. Dublin

McArdle Doyle

Preamble

This document relates to the proposed external lighting services works for the refurbishment of Jones Service Station and Depot, Greenhills Road, Tallaght, South County Co. Dublin

We set out our response following on from South County Dublin Councils request for further Information as described in *Item 6B Planning Ref; SD22A/0329* of the FI that requires the following items to be carried out to assess the impact of the proposed new development.

Roads and Access

B Prior to commencement a Public Lighting Design for the development shall be submitted for agreement to the Planning Authority: Reason to ensure Traffic Safety

Proposal

We attach a copy of drawing; *Proposed External Lighting Scheme* - No. P2224.C14 Rev – and technical information of the luminaires on which the design is based which have zero upward lighting output.

We used AG132 Software package to assess the scheme output for this project

The software also calculates Threshold Increment TI (glare to drivers) for the main public thoroughfare; Greenhills Road which is compliant.

AG132 also assesses Obtrusive Light Compliance to <u>CIF 150:2003 Guide on the Limitation of the Effects of Obtrusive Light from Outdoor Lighting Installations</u>, on adjacent properties.

While not a requirement mentioned in the FI as this is an industrial estate, but we also assessed obtrusive lighting at the site boundary and the scheme is compliant with CIE 150 in that regard

We note the compound will operate during typical working hours and will not operate at night

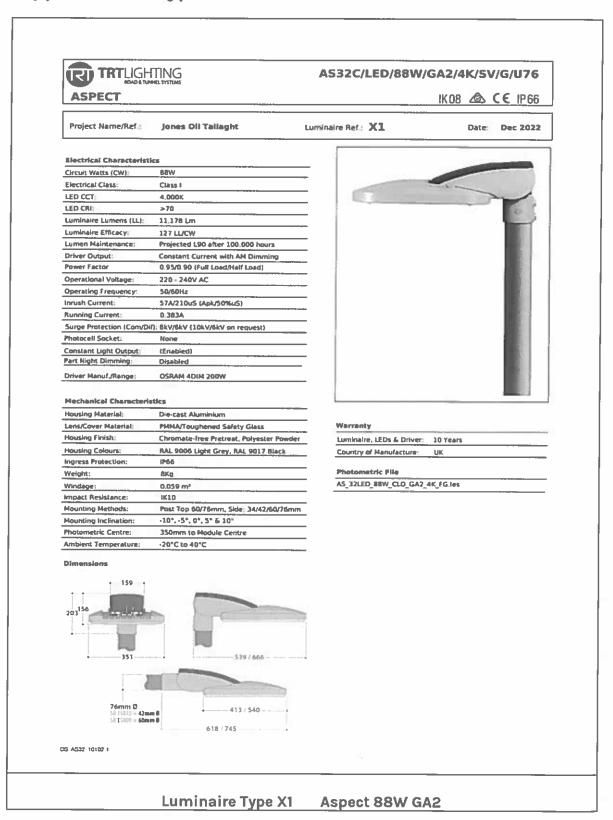
The proposed scheme is compliant with CIF 150:2003 as indicated

Attachments

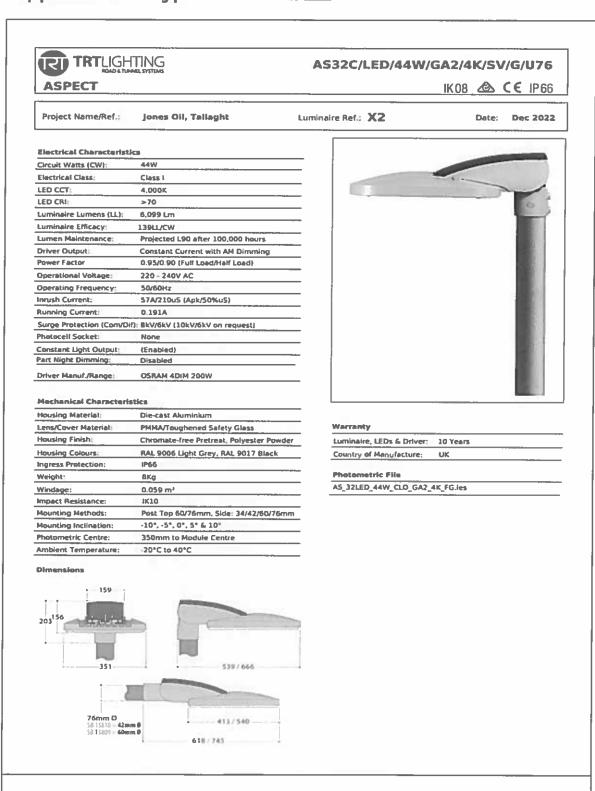
<u>Drawing</u> Proposed External Lighting Scheme, -No. P2224.C14 Rev -

Revision	Date	Prepared By	Approved By
-	25.11.2022	P Carmody	Ronnie McArdle

Appendix A Type X1 Luminaire



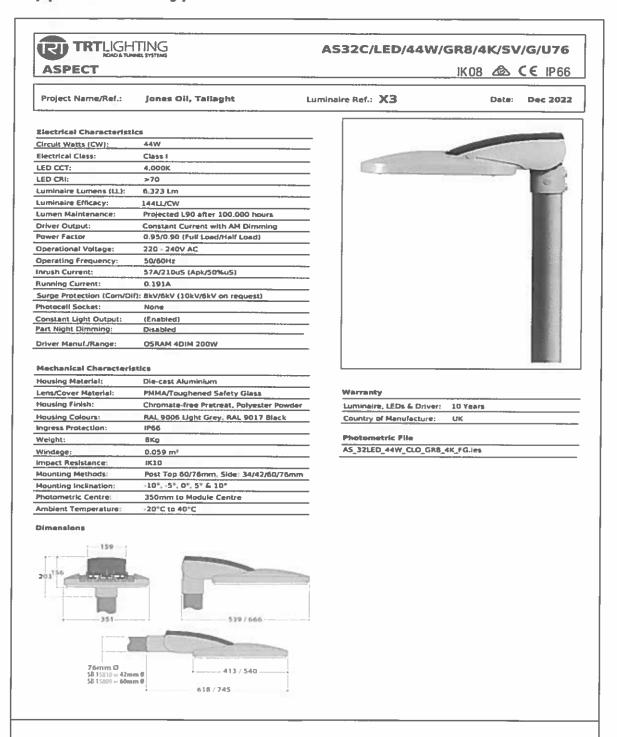
Appendix B Type X2 Luminaire



Luminaire Type X2 Aspect 44W GA2

Jones Oil, Greenhills Road, Tallaght, South Co. Dublin

Appendix C Type X3 Luminaire



Luminaire Type X3 Aspect 44 GR8

Appendix D Type X4 Luminaire



Luminaire Type X4 Realta 20 W