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Resilient nations.*

## INVITATION TO BID

**Supply of LED Street Luminaries for the improvement of energy efficiency of street illumination for the Halabyan and Kievyan streets, Davidashen and Nubarashen districts of Yerevan city and supply equipment for those objects illumination**

ITB No.: 073/19

Project: "Supporting Communities of Armenia to Adopt and Implement Climate Smart Solutions" UNDP/00118602-00115356

Country: Armenia

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## Section 1. Letter of Invitation

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The United Nations Development Programme (UNDP) hereby invites you to submit a Bid to this Invitation to Bid (ITB) for the above-referenced subject.

This ITB includes the following documents and the General Terms and Conditions of Contract which is inserted in the Bid Data Sheet:

- Section 1: This Letter of Invitation
- Section 2: Instruction to Bidders
- Section 3: Bid Data Sheet (BDS)
- Section 4: Evaluation Criteria
- Section 5: Schedule of Requirements and Technical Specifications
- Section 6: Returnable Bidding Forms
  - Form A: Bid Submission Form
  - Form B: Bidder Information Form
  - Form C: Joint Venture/Consortium/Association Information Form
  - Form D: Qualification Form
  - Form E: Format of Technical Bid
  - Form F: Price Schedule
  - Form G: Form of Bid Security [delete this line and the form, if not required as per BDS]

If you are interested in submitting a Bid in response to this ITB, please prepare your Bid in accordance with the requirements and procedure as set out in this ITB and submit it by the Deadline for Submission of Bids set out in Bid Data Sheet.

Please acknowledge receipt of this ITB by sending an email to [procurement.armenia@undp.org](mailto:procurement.armenia@undp.org), indicating whether you intend to submit a Bid or otherwise.

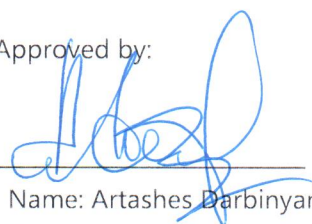
UNDP looks forward to receiving your Bid and thank you in advance for your interest in UNDP procurement opportunities.

Issued by



Name: Suren Saghatelian  
Title: Procurement Analyst  
Date: August 14, 2019

Approved by:



Name: Artashes Darbinyan  
Title: Operations Manager  
Date: August 14, 2019

## Section 2. Instruction to Bidders

GENERAL PROVISIONS	
1. Introduction	<p>1.1 Bidders shall adhere to all the requirements of this ITB, including any amendments made in writing by UNDP. This ITB is conducted in accordance with the UNDP Programme and Operations Policies and Procedures (POPP) on Contracts and Procurement which can be accessed at <a href="https://popp.undp.org/SitePages/POPPBSUnit.aspx?TermID=254a9f96-b883-476a-8ef8-e81f93a2b38d">https://popp.undp.org/SitePages/POPPBSUnit.aspx?TermID=254a9f96-b883-476a-8ef8-e81f93a2b38d</a></p> <p>1.2 Any Bid submitted will be regarded as an offer by the Bidder and does not constitute or imply the acceptance of the Bid by UNDP. UNDP is under no obligation to award a contract to any Bidder as a result of this ITB.</p> <p>1.3 UNDP reserves the right to cancel the procurement process at any stage without any liability of any kind for UNDP, upon notice to the bidders or publication of cancellation notice on UNDP website.</p> <p>1.4 As part of the bid, it is desired that the Bidder registers at the United Nations Global Marketplace (UNGM) website (<a href="http://www.ungm.org">www.ungm.org</a>). The Bidder may still submit a bid even if not registered with the UNGM. However, if the Bidder is selected for contract award, the Bidder must register on the UNGM prior to contract signature.</p>
2. Fraud & Corruption, Gifts and Hospitality	<p>2.1 UNDP strictly enforces a policy of zero tolerance on proscribed practices, including fraud, corruption, collusion, unethical or unprofessional practices, and obstruction of UNDP vendors and requires all bidders/vendors observe the highest standard of ethics during the procurement process and contract implementation. UNDP's Anti-Fraud Policy can be found at <a href="http://www.undp.org/content/undp/en/home/operations/accountability/audit/office_of_audit_andinvestigation.html#anti">http://www.undp.org/content/undp/en/home/operations/accountability/audit/office_of_audit_andinvestigation.html#anti</a></p> <p>2.2 Bidders/vendors shall not offer gifts or hospitality of any kind to UNDP staff members including recreational trips to sporting or cultural events, theme parks or offers of holidays, transportation, or invitations to extravagant lunches or dinners.</p> <p>2.3 In pursuance of this policy, UNDP:</p> <p>(a) Shall reject a bid if it determines that the selected bidder has engaged in any corrupt or fraudulent practices in competing for the contract in question;</p> <p>(b) Shall declare a vendor ineligible, either indefinitely or for a stated period, to be awarded a contract if at any time it determines that the vendor has engaged in any corrupt or fraudulent practices in competing for, or in executing a UNDP contract.</p> <p>2.4 All Bidders must adhere to the UN Supplier Code of Conduct, which may be found at <a href="http://www.un.org/depts/ptd/pdf/conduct_english.pdf">http://www.un.org/depts/ptd/pdf/conduct_english.pdf</a></p>
3. Eligibility	<p>3.1 A vendor should not be suspended, debarred, or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization. Vendors are therefore required to disclose to UNDP whether they are subject to any sanction or temporary suspension imposed by these organizations.</p>

	3.2	It is the Bidder's responsibility to ensure that its employees, joint venture members, sub-contractors, service providers, suppliers and/or their employees meet the eligibility requirements as established by UNDP.
4. Conflict of Interests	4.1	<p>Bidders must strictly avoid conflicts with other assignments or their own interests, and act without consideration for future work. Bidders found to have a conflict of interest shall be disqualified. Without limitation on the generality of the above, Bidders, and any of their affiliates, shall be considered to have a conflict of interest with one or more parties in this solicitation process, if they:</p> <ul style="list-style-type: none"> <li>a) Are or have been associated in the past, with a firm or any of its affiliates which have been engaged by UNDP to provide services for the preparation of the design, specifications, Terms of Reference, cost analysis/estimation, and other documents to be used for the procurement of the goods and services in this selection process;</li> <li>b) Were involved in the preparation and/or design of the programme/project related to the goods and/or services requested under this ITB; or</li> <li>c) Are found to be in conflict for any other reason, as may be established by, or at the discretion of UNDP.</li> </ul>
	4.2	In the event of any uncertainty in the interpretation of a potential conflict of interest, Bidders must disclose to UNDP, and seek UNDP's confirmation on whether or not such conflict exists.
	4.3	<p>Similarly, the Bidders must disclose in their Bid their knowledge of the following:</p> <ul style="list-style-type: none"> <li>a) If the owners, part-owners, officers, directors, controlling shareholders, of the bidding entity or key personnel who are family members of UNDP staff involved in the procurement functions and/or the Government of the country or any Implementing Partner receiving goods and/or services under this ITB; and</li> <li>b) All other circumstances that could potentially lead to actual or perceived conflict of interest, collusion or unfair competition practices.</li> </ul> <p>Failure to disclose such an information may result in the rejection of the Bid or Bids affected by the non-disclosure.</p>
	4.4	The eligibility of Bidders that are wholly or partly owned by the Government shall be subject to UNDP's further evaluation and review of various factors such as being registered, operated and managed as an independent business entity, the extent of Government ownership/share, receipt of subsidies, mandate and access to information in relation to this ITB, among others. Conditions that may lead to undue advantage against other Bidders may result in the eventual rejection of the Bid.
<b>B. PREPARATION OF BIDS</b>		
5. General Considerations	5.1	In preparing the Bid, the Bidder is expected to examine the ITB in detail. Material deficiencies in providing the information requested in the ITB may result in rejection of the Bid.
	5.2	The Bidder will not be permitted to take advantage of any errors or omissions in the ITB. Should such errors or omissions be discovered, the Bidder must notify the UNDP accordingly.
6. Cost of Preparation of Bid	6.1	The Bidder shall bear all costs related to the preparation and/or submission of the Bid, regardless of whether its Bid is selected or not. UNDP shall not be responsible or liable for those costs, regardless of the conduct or outcome of

		the procurement process.
<b>7. Language</b>	7.1	The Bid, as well as any and all related correspondence exchanged by the Bidder and UNDP, shall be written in the language (s) specified in the BDS.
<b>8. Documents Comprising the Bid</b>	8.1	<p>The Bid shall comprise of the following documents and related forms which details are provided in the BDS:</p> <ul style="list-style-type: none"> <li>a) Documents Establishing the Eligibility and Qualifications of the Bidder;</li> <li>b) Technical Bid;</li> <li>c) Price Schedule;</li> <li>d) Bid Security, if required by BDS;</li> <li>e) Any attachments and/or appendices to the Bid.</li> </ul>
<b>9. Documents Establishing the Eligibility and Qualifications of the Bidder</b>	9.1	The Bidder shall furnish documentary evidence of its status as an eligible and qualified vendor, using the Forms provided under Section 6 and providing documents required in those forms. In order to award a contract to a Bidder, its qualifications must be documented to UNDP's satisfaction.
<b>10. Technical Bid Format and Content</b>	10.1	The Bidder is required to submit a Technical Bid using the Standard Forms and templates provided in Section 6 of the ITB.
	10.2	Samples of items, when required as per Section 5, shall be provided within the time specified and unless otherwise specified by the Purchaser, at no expense to the UNDP. If not destroyed by testing, samples will be returned at Bidder's request and expense, unless otherwise specified.
	10.3	When applicable and required as per Section 5, the Bidder shall describe the necessary training programme available for the maintenance and operation of the equipment offered as well as the cost to the UNDP. Unless otherwise specified, such training as well as training materials shall be provided in the language of the Bid as specified in the BDS.
	10.4	When applicable and required as per Section 5, the Bidder shall certify the availability of spare parts for a period of at least five (5) years from date of delivery, or as otherwise specified in this ITB.
<b>11. Price Schedule</b>	11.1	The Price Schedule shall be prepared using the Form provided in Section 6 of the ITB and taking into consideration the requirements in the ITB.
	11.2	Any requirement described in the Technical Bid but not priced in the Price Schedule, shall be assumed to be included in the prices of other activities or items, as well as in the final total price.
<b>12. Bid Security</b>	12.1	A Bid Security, if required by BDS, shall be provided in the amount and form indicated in the BDS. The Bid Security shall be valid for a minimum of thirty (30) days after the final date of validity of the Bid.
	12.2	The Bid Security shall be included along with the Bid. If Bid Security is required by the ITB but is not found in the Bid, the offer shall be rejected.
	12.3	If the Bid Security amount or its validity period is found to be less than what is required by UNDP, UNDP shall reject the Bid.
	12.4	In the event an electronic submission is allowed in the BDS, Bidders shall include a copy of the Bid Security in their bid and the original of the Bid Security must

	<p>be sent via courier or hand delivery as per the instructions in BDS.</p> <p>12.5 The Bid Security may be forfeited by UNDP, and the Bid rejected, in the event of any, or combination, of the following conditions:</p> <ul style="list-style-type: none"> <li>a) If the Bidder withdraws its offer during the period of the Bid Validity specified in the BDS, or;</li> <li>b) In the event the successful Bidder fails: <ul style="list-style-type: none"> <li>i. to sign the Contract after UNDP has issued an award; or</li> <li>ii. to furnish the Performance Security, insurances, or other documents that UNDP may require as a condition precedent to the effectivity of the contract that may be awarded to the Bidder.</li> </ul> </li> </ul>
<b>13. Currencies</b>	<p>13.1 All prices shall be quoted in the currency or currencies indicated in the BDS. Where Bids are quoted in different currencies, for the purposes of comparison of all Bids:</p> <ul style="list-style-type: none"> <li>a) UNDP will convert the currency quoted in the Bid into the UNDP preferred currency, in accordance with the prevailing UN operational rate of exchange on the last day of submission of Bids; and</li> <li>b) In the event that UNDP selects a Bid for award that is quoted in a currency different from the preferred currency in the BDS, UNDP shall reserve the right to award the contract in the currency of UNDP's preference, using the conversion method specified above.</li> </ul>
<b>14. Joint Venture, Consortium or Association</b>	<p>14.1 If the Bidder is a group of legal entities that will form or have formed a Joint Venture (JV), Consortium or Association for the Bid, they shall confirm in their Bid that : (i) they have designated one party to act as a lead entity, duly vested with authority to legally bind the members of the JV, Consortium or Association jointly and severally, which shall be evidenced by a duly notarized Agreement among the legal entities, and submitted with the Bid; and (ii) if they are awarded the contract, the contract shall be entered into, by and between UNDP and the designated lead entity, who shall be acting for and on behalf of all the member entities comprising the joint venture.</p> <p>14.2 After the Deadline for Submission of Bid, the lead entity identified to represent the JV, Consortium or Association shall not be altered without the prior written consent of UNDP.</p> <p>14.3 The lead entity and the member entities of the JV, Consortium or Association shall abide by the provisions of Clause 9 herein in respect of submitting only one Bid.</p> <p>14.4 The description of the organization of the JV, Consortium or Association must clearly define the expected role of each of the entities in the joint venture in delivering the requirements of the ITB, both in the Bid and the JV, Consortium or Association Agreement. All entities that comprise the JV, Consortium or Association shall be subject to the eligibility and qualification assessment by UNDP.</p> <p>14.5 A JV, Consortium or Association in presenting its track record and experience should clearly differentiate between:</p> <ul style="list-style-type: none"> <li>a) Those that were undertaken together by the JV, Consortium or Association; and</li> </ul>

	<p>b) Those that were undertaken by the individual entities of the JV, Consortium or Association.</p> <p>14.6 Previous contracts completed by individual experts working privately but who are permanently or were temporarily associated with any of the member firms cannot be claimed as the experience of the JV, Consortium or Association or those of its members, but should only be claimed by the individual experts themselves in their presentation of their individual credentials</p> <p>14.7 JV, Consortium or Associations are encouraged for high value, multi-sectoral requirements when the spectrum of expertise and resources required may not be available within one firm.</p>
<b>15. Only One Bid</b>	<p>15.1 The Bidder (including the individual members of any Joint Venture) shall submit only one Bid, either in its own name or as part of a Joint Venture.</p> <p>15.2 Bids submitted by two (2) or more Bidders shall all be rejected if they are found to have any of the following:</p> <ul style="list-style-type: none"> <li>a) they have at least one controlling partner, director or shareholder in common; or</li> <li>b) any one of them receive or have received any direct or indirect subsidy from the other/s; or</li> <li>c) they have the same legal representative for purposes of this ITB; or</li> <li>d) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about, or influence on the Bid of another Bidder regarding this ITB process;</li> <li>e) they are subcontractors to each other's Bid, or a subcontractor to one Bid also submits another Bid under its name as lead Bidder; or some key personnel proposed to be in the team of one Bidder participates in more than one Bid received for this ITB process. This condition relating to the personnel, does not apply to subcontractors being included in more than one Bid.</li> </ul>
<b>16. Bid Validity Period</b>	<p>16.1 Bids shall remain valid for the period specified in the BDS, commencing on the Deadline for Submission of Bids. A Bid valid for a shorter period may be rejected by UNDP and rendered non-responsive.</p> <p>16.2 During the Bid validity period, the Bidder shall maintain its original Bid without any change, including the availability of the Key Personnel, the proposed rates and the total price.</p>
<b>17. Extension of Bid Validity Period</b>	<p>17.1 In exceptional circumstances, prior to the expiration of the Bid validity period, UNDP may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing, and shall be considered integral to the Bid.</p> <p>17.2 If the Bidder agrees to extend the validity of its Bid, it shall be done without any change to the original Bid.</p> <p>17.3 The Bidder has the right to refuse to extend the validity of its Bid, in which case, the Bid shall not be further evaluated.</p>
<b>18. Clarification of Bid (from the Bidders)</b>	<p>18.1 Bidders may request clarifications on any of the ITB documents no later than the date indicated in the BDS. Any request for clarification must be sent in writing in the manner indicated in the BDS. If inquiries are sent other than specified channel, even if they are sent to a UNDP staff member, UNDP shall have no</p>

	<p>obligation to respond or confirm that the query was officially received.</p> <p>18.2 UNDP will provide the responses to clarifications through the method specified in the BDS.</p> <p>18.3 UNDP shall endeavour to provide responses to clarifications in an expeditious manner, but any delay in such response shall not cause an obligation on the part of UNDP to extend the submission date of the Bids, unless UNDP deems that such an extension is justified and necessary.</p>
<b>19. Amendment of Bids</b>	<p>19.1 At any time prior to the deadline of Bid submission, UNDP may for any reason, such as in response to a clarification requested by a Bidder, modify the ITB in the form of an amendment to the ITB. Amendments will be made available to all prospective bidders.</p> <p>19.2 If the amendment is substantial, UNDP may extend the Deadline for submission of Bid to give the Bidders reasonable time to incorporate the amendment into their Bids.</p>
<b>20. Alternative Bids</b>	<p>20.1 Unless otherwise specified in the BDS, alternative Bids shall not be considered. If submission of alternative Bid is allowed by BDS, a Bidder may submit an alternative Bid, but only if it also submits a Bid conforming to the ITB requirements. Where the conditions for its acceptance are met, or justifications are clearly established, UNDP reserves the right to award a contract based on an alternative Bid.</p> <p>20.2 If multiple/alternative bids are being submitted, they must be clearly marked as "Main Bid" and "Alternative Bid"</p>
<b>21. Pre-Bid Conference</b>	<p>21.1 When appropriate, a pre-bid conference will be conducted at the date, time and location specified in the BDS. All Bidders are encouraged to attend. Non-attendance, however, shall not result in disqualification of an interested Bidder. Minutes of the Bidder's conference will be disseminated on the procurement website and shared by email or on the e-Tendering platform as specified in the BDS. No verbal statement made during the conference shall modify the terms and conditions of the ITB, unless specifically incorporated in the Minutes of the Bidder's Conference or issued/posted as an amendment to ITB.</p>
<b>C. SUBMISSION AND OPENING OF BIDS</b>	
<b>22. Submission</b>	<p>22.1 The Bidder shall submit a duly signed and complete Bid comprising the documents and forms in accordance with requirements in the BDS. The Price Schedule shall be submitted together with the Technical Bid. Bid can be delivered either personally, by courier, or by electronic method of transmission as specified in the BDS.</p> <p>22.2 The Bid shall be signed by the Bidder or person(s) duly authorized to commit the Bidder. The authorization shall be communicated through a document evidencing such authorization issued by the legal representative of the bidding entity, or a Power of Attorney, accompanying the Bid.</p> <p>22.3 Bidders must be aware that the mere act of submission of a Bid, in and of itself, implies that the Bidder fully accepts the UNDP General Contract Terms and Conditions.</p>

<p><b>Hard copy (manual) submission</b></p>	<p>22.4 Hard copy (manual) submission by courier or hand delivery allowed or specified in the BDS shall be governed as follows:</p> <p>a) The signed Bid shall be marked "Original", and its copies marked "Copy" as appropriate. The number of copies is indicated in the BDS. All copies shall be made from the signed original only. If there are discrepancies between the original and the copies, the original shall prevail.</p> <p>(b) The Technical Bid and Price Schedule must be sealed and submitted together in an envelope, which shall:</p> <ol style="list-style-type: none"> <li>i. Bear the name of the Bidder;</li> <li>ii. Be addressed to UNDP as specified in the BDS; and</li> <li>iii. Bear a warning not to open before the time and date for Bid opening as specified in the BDS.</li> </ol> <p>If the envelope with the Bid is not sealed and marked as required, UNDP shall assume no responsibility for the misplacement, loss, or premature opening of the Bid.</p>
<p><b>Email and eTendering submissions</b></p>	<p>22.5 Electronic submission through email or eTendering, if allowed as specified in the BDS, shall be governed as follows:</p> <ol style="list-style-type: none"> <li>a) Electronic files that form part of the Bid must be in accordance with the format and requirements indicated in BDS;</li> <li>b) Documents which are required to be in original form (e.g. Bid Security, etc.) must be sent via courier or hand delivered as per the instructions in BDS.</li> </ol> <p>22.6 Detailed instructions on how to submit, modify or cancel a bid in the eTendering system are provided in the eTendering system Bidder User Guide and Instructional videos available on this link:  <a href="http://www.undp.org/content/undp/en/home/operations/procurement/business/procurement-notices/resources/">http://www.undp.org/content/undp/en/home/operations/procurement/business/procurement-notices/resources/</a></p>
<p><b>23. Deadline for Submission of Bids and Late Bids</b></p>	<p>23.1 Complete Bids must be received by UNDP in the manner, and no later than the date and time, specified in the BDS. UNDP shall only recognise the actual date and time that the bid was received by UNDP</p> <p>23.2 UNDP shall not consider any Bid that is received after the deadline for the submission of Bids.</p>
<p><b>24. Withdrawal, Substitution, and Modification of Bids</b></p>	<p>24.1 A Bidder may withdraw, substitute or modify its Bid after it has been submitted at any time prior to the deadline for submission.</p> <p>24.2 Manual and Email submissions: A bidder may withdraw, substitute or modify its Bid by sending a written notice to UNDP, duly signed by an authorized representative, and shall include a copy of the authorization (or a Power of Attorney). The corresponding substitution or modification of the Bid, if any, must accompany the respective written notice. All notices must be submitted in the same manner as specified for submission of Bids, by clearly marking them as "WITHDRAWAL" "SUBSTITUTION," or "MODIFICATION"</p> <p>24.3 eTendering: A Bidder may withdraw, substitute or modify its Bid by Cancelling, Editing, and re-submitting the Bid directly in the system. It is the responsibility of the Bidder to properly follow the system instructions, duly edit and submit a substitution or modification of the Bid as needed. Detailed instructions on how to cancel or modify a Bid directly in the system are provided in the Bidder User</p>

	<p>Guide and Instructional videos.</p> <p>24.4 Bids requested to be withdrawn shall be returned unopened to the Bidders (only for manual submissions), except if the bid is withdrawn after the bid has been opened.</p>
25. Bid Opening	<p>25.1 UNDP will open the Bid in the presence of an ad-hoc committee formed by UNDP of at least two (2) members.</p> <p>25.2 The Bidders' names, modifications, withdrawals, the condition of the envelope labels/seals, the number of folders/files and all other such other details as UNDP may consider appropriate, will be announced at the opening. No Bid shall be rejected at the opening stage, except for late submissions, in which case, the Bid shall be returned unopened to the Bidders.</p> <p>25.3 In the case of e-Tendering submission, bidders will receive an automatic notification once the Bid is opened.</p>
<b>D. EVALUATION OF BIDS</b>	
26. Confidentiality	<p>26.1 Information relating to the examination, evaluation, and comparison of Bids, and the recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process, even after publication of the contract award.</p> <p>26.2 Any effort by a Bidder or anyone on behalf of the Bidder to influence UNDP in the examination, evaluation and comparison of the Bids or contract award decisions may, at UNDP's decision, result in the rejection of its Bid and may subsequently be subject to the application of prevailing UNDP's vendor sanctions procedures.</p>
27. Evaluation of Bids	<p>27.1 UNDP will conduct the evaluation solely on the basis of the Bids received.</p> <p>27.2 Evaluation of Bids shall be undertaken in the following steps:</p> <ol style="list-style-type: none"> <li>a) Preliminary Examination including Eligibility</li> <li>b) Arithmetical check and ranking of bidders who passed preliminary examination by price.</li> <li>c) Qualification assessment (if pre-qualification was not done)</li> <li>a) Evaluation of Technical Bids</li> <li>b) Evaluation of prices</li> </ol> <p>Detailed evaluation will be focussed on the 3 - 5 lowest priced bids. Further higher priced bids shall be added for evaluation if necessary</p>
28. Preliminary Examination	<p>28.1 UNDP shall examine the Bids to determine whether they are complete with respect to minimum documentary requirements, whether the documents have been properly signed, and whether the Bids are generally in order, among other indicators that may be used at this stage. UNDP reserves the right to reject any Bid at this stage.</p>
29. Evaluation of Eligibility and Qualification	<p>29.1 Eligibility and Qualification of the Bidder will be evaluated against the Minimum Eligibility/Qualification requirements specified in the Section 4 (Evaluation Criteria).</p> <p>29.2 In general terms, vendors that meet the following criteria may be considered qualified:</p> <ol style="list-style-type: none"> <li>a) They are not included in the UN Security Council 1267/1989 Committee's list of terrorists and terrorist financiers, and in UNDP's ineligible vendors' list;</li> </ol>

	<ul style="list-style-type: none"> <li>b) They have a good financial standing and have access to adequate financial resources to perform the contract and all existing commercial commitments,</li> <li>c) They have the necessary similar experience, technical expertise, production capacity, quality certifications, quality assurance procedures and other resources applicable to the supply of goods and/or services required;</li> <li>d) They are able to comply fully with the UNDP General Terms and Conditions of Contract;</li> <li>e) They do not have a consistent history of court/arbitral award decisions against the Bidder; and</li> <li>f) They have a record of timely and satisfactory performance with their clients.</li> </ul>
<b>30. Evaluation of Technical Bid and prices</b>	<p>30.1 The evaluation team shall review and evaluate the Technical Bids on the basis of their responsiveness to the Schedule of Requirements and Technical Specifications and other documentation provided, applying the procedure indicated in the BDS and other ITB documents. When necessary, and if stated in the BDS, UNDP may invite technically responsive bidders for a presentation related to their technical Bids. The conditions for the presentation shall be provided in the bid document where required.</p>
<b>31. Due diligence</b>	<p>31.1 UNDP reserves the right to undertake a due diligence exercise, aimed at determining to its satisfaction, the validity of the information provided by the Bidder. Such exercise shall be fully documented and may include, but need not be limited to, all or any combination of the following:</p> <ul style="list-style-type: none"> <li>a) Verification of accuracy, correctness and authenticity of information provided by the Bidder;</li> <li>b) Validation of extent of compliance to the ITB requirements and evaluation criteria based on what has so far been found by the evaluation team;</li> <li>c) Inquiry and reference checking with Government entities with jurisdiction on the Bidder, or with previous clients, or any other entity that may have done business with the Bidder;</li> <li>d) Inquiry and reference checking with previous clients on the performance on on-going or completed contracts, including physical inspections of previous works, as deemed necessary;</li> <li>e) Physical inspection of the Bidder's offices, branches or other places where business transpires, with or without notice to the Bidder;</li> <li>f) Other means that UNDP may deem appropriate, at any stage within the selection process, prior to awarding the contract.</li> </ul>
<b>32. Clarification of Bids</b>	<p>32.1 To assist in the examination, evaluation and comparison of Bids, UNDP may, at its discretion, request any Bidder for a clarification of its Bid.</p> <p>32.2 UNDP's request for clarification and the response shall be in writing and no change in the prices or substance of the Bid shall be sought, offered, or permitted, except to provide clarification, and confirm the correction of any arithmetic errors discovered by UNDP in the evaluation of the Bids, in accordance with the ITB.</p> <p>32.3 Any unsolicited clarification submitted by a Bidder in respect to its Bid, which is not a response to a request by UNDP, shall not be considered during the review and evaluation of the Bids.</p>
<b>33. Responsiveness of Bid</b>	<p>33.1 UNDP's determination of a Bid's responsiveness will be based on the contents of the bid itself. A substantially responsive Bid is one that conforms to all the terms, conditions, specifications and other requirements of the ITB without</p>

	<p>material deviation, reservation, or omission.</p> <p>33.2 If a bid is not substantially responsive, it shall be rejected by UNDP and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.</p>
<b>34. Nonconformities, Repairable Errors and Omissions</b>	<p>34.1 Provided that a Bid is substantially responsive, UNDP may waive any non-conformities or omissions in the Bid that, in the opinion of UNDP, do not constitute a material deviation.</p> <p>34.2 UNDP may request the Bidder to submit the necessary information or documentation, within a reasonable period, to rectify nonmaterial nonconformities or omissions in the Bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.</p> <p>34.3 For the bids that have passed the preliminary examination, UNDP shall check and correct arithmetical errors as follows:</p> <ul style="list-style-type: none"> <li>a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of UNDP there is an obvious misplacement of the decimal point in the unit price; in which case, the line item total as quoted shall govern and the unit price shall be corrected;</li> <li>b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and</li> <li>c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail.</li> </ul> <p>34.4 If the Bidder does not accept the correction of errors made by UNDP, its Bid shall be rejected.</p>
<b>E. AWARD OF CONTRACT</b>	
<b>35. Right to Accept, Reject, Any or All Bids</b>	<p>35.1 UNDP reserves the right to accept or reject any bid, to render any or all of the bids as non-responsive, and to reject all Bids at any time prior to award of contract, without incurring any liability, or obligation to inform the affected Bidder(s) of the grounds for UNDP's action. UNDP shall not be obliged to award the contract to the lowest priced offer.</p>
<b>36. Award Criteria</b>	<p>36.1 Prior to expiration of the period of Bid validity, UNDP shall award the contract to the qualified and eligible Bidder that is found to be responsive to the requirements of the Schedule of Requirements and Technical Specification, and has offered the lowest price.</p>
<b>37. Debriefing</b>	<p>37.1 In the event that a Bidder is unsuccessful, the Bidder may request for a debriefing from UNDP. The purpose of the debriefing is to discuss the strengths and weaknesses of the Bidder's submission, in order to assist the Bidder in improving its future Bids for UNDP procurement opportunities. The content of other Bids and how they compare to the Bidder's submission shall not be discussed.</p>

<b>38. Right to Vary Requirements at the Time of Award</b>	38.1 At the time of award of Contract, UNDP reserves the right to vary the quantity of goods and/or services, by up to a maximum twenty-five per cent (25%) of the total offer, without any change in the unit price or other terms and conditions.
<b>39. Contract Signature</b>	39.1 Within fifteen (15) days from the date of receipt of the Contract, the successful Bidder shall sign and date the Contract and return it to UNDP. Failure to do so may constitute sufficient grounds for the annulment of the award, and forfeiture of the Bid Security, if any, and on which event, UNDP may award the Contract to the Second highest rated or call for new Bids.
<b>40. Contract Type and General Terms and Conditions</b>	40.1 The types of Contract to be signed and the applicable UNDP Contract General Terms and Conditions, as specified in BDS, can be accessed at <a href="http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html">http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html</a>
<b>41. Performance Security</b>	41.1 A performance security, if required in the BDS, shall be provided in the amount specified in BDS and form available at <a href="https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_POPP_DOCUMENT_LIBRARY/Public/PSU_Solicitation_Performance%20Guarantee%20Form.docx&amp;action=default">https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_POPP_DOCUMENT_LIBRARY/Public/PSU_Solicitation_Performance%20Guarantee%20Form.docx&amp;action=default</a> within a maximum of fifteen (15) days of the contract signature by both parties. Where a performance security is required, the receipt of the performance security by UNDP shall be a condition for rendering the contract effective.
<b>42. Bank Guarantee for Advanced Payment</b>	42.1 Except when the interests of UNDP so require, it is UNDP's standard practice to not make advance payment(s) (i.e., payments without having received any outputs). If an advance payment is allowed as per the BDS, and exceeds 20% of the total contract price, or USD 30,000, whichever is less, the Bidder shall submit a Bank Guarantee in the full amount of the advance payment in the form available at <a href="https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_POPP_DOCUMENT_LIBRARY/Public/PSU_Contract%20Management%20Payment%20and%20Taxes_Advanced%20Payment%20Guarantee%20Form.docx&amp;action=default">https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_POPP_DOCUMENT_LIBRARY/Public/PSU_Contract%20Management%20Payment%20and%20Taxes_Advanced%20Payment%20Guarantee%20Form.docx&amp;action=default</a>
<b>43. Liquidated Damages</b>	43.1 If specified in the BDS, UNDP shall apply Liquidated Damages for the damages and/or risks caused to UNDP resulting from the Contractor's delays or breach of its obligations as per Contract.
<b>44. Payment Provisions</b>	44.1 Payment will be made only upon UNDP's acceptance of the goods and/or services performed. The terms of payment shall be within thirty (30) days, after receipt of invoice and certification of acceptance of goods and/or services issued by the proper authority in UNDP with direct supervision of the Contractor. Payment will be effected by bank transfer in the currency of the contract.
<b>45. Vendor Protest</b>	45.1 UNDP's vendor protest procedure provides an opportunity for appeal to those persons or firms not awarded a contract through a competitive procurement process. In the event that a Bidder believes that it was not treated fairly, the following link provides further details regarding UNDP vendor protest procedures: <a href="http://www.undp.org/content/undp/en/home/procurement/business/protest-and-sanctions.html">http://www.undp.org/content/undp/en/home/procurement/business/protest-and-sanctions.html</a>

<p><b>46. Other Provisions</b></p>	<p>46.1 In the event that the Bidder offers a lower price to the host Government (e.g. General Services Administration (GSA) of the federal government of the United States of America) for similar goods and/or services, UNDP shall be entitled to the same lower price. The UNDP General Terms and Conditions shall have precedence.</p> <p>46.2 UNDP is entitled to receive the same pricing offered by the same Contractor in contracts with the United Nations and/or its Agencies. The UNDP General Terms and Conditions shall have precedence.</p> <p>46.3 The United Nations has established restrictions on employment of (former) UN staff who have been involved in the procurement process as per bulletin ST/SGB/2006/15  <a href="http://www.un.org/en/ga/search/view_doc.asp?symbol=ST/SGB/2006/15&amp;referer">http://www.un.org/en/ga/search/view_doc.asp?symbol=ST/SGB/2006/15&amp;referer</a></p>
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## Section 3. Bid Data Sheet

The following data for the goods and/or services to be procured shall complement, supplement, or amend the provisions in the Invitation to Bid In the case of a conflict between the Instructions to Bidders, the Bid Data Sheet, and other annexes or references attached to the Bid Data Sheet, the provisions in the Bid Data Sheet shall prevail.

BDS No.	Ref. to Section.2	Data	Specific Instructions / Requirements
1	7	Language of the Bid	English
2		Submitting Bids for Parts or sub-parts of the Schedule of Requirements (partial bids)	Not Allowed
3	20	Alternative Bids	Shall not be considered
4	21	Pre-Bid conference	Will not be conducted
5	16	Bid Validity Period	90 days
6	13	Bid Security	Required in the amount of USD 25.000
7	41	Advanced Payment upon signing of contract	Not Allowed
8	42	Liquidated Damages	Will not be imposed Percentage of contract price per day of delay: 0.02 Max. number of days of delay 45, after which UNDP may terminate the contract.
9	40	Performance Security	<b>Required in the amount of 10% of the Contract price</b>

10	12	Currency of Bid	United States Dollar
11	31	Deadline for submitting requests for clarifications/ questions	7 days before the submission deadline
12	31	Contact Details for submitting clarifications/questions	Focal Person in UNDP: <b>Suren Saghatelyan</b> Address: <b>14 Petros Adamyan, Yerevan 0010, Armenia</b> E-mail address: <a href="mailto:procurement.armenia@undp.org">procurement.armenia@undp.org</a>
13	18, 19 and 21	Manner of Disseminating Supplemental Information to the ITB and responses/clarifications to queries	Direct communication to prospective Proposers by email and Posting on the website: UNDP Procurement Notices, UNGM.org
14	23	Deadline for Submission	09 September at 16:00 (GMT +4)
14	22	Allowable Manner of Submitting Bids	<input checked="" type="checkbox"/> Submission by email
15	22	Bid Submission Address	<a href="mailto:tenders.armenia@undp.org">tenders.armenia@undp.org</a>
16	22	Electronic submission (email) requirements	<p><u>For submission by email:</u></p> <ul style="list-style-type: none"> <li>▪ Format: <b>PDF files only</b></li> <li>▪ File names must be maximum 60 characters long and must not contain any letter or special character other than from Latin alphabet/keyboard.</li> <li>▪ All files must be free of viruses and not corrupted.</li> <li>▪ Max. File Size per transmission: [10Mb]</li> <li>▪ Mandatory subject of email: <b>ITB 073/Supply of LED Street Luminaries for the improvement of energy efficiency of street illumination for the Halabyan and Kievyan streets, Davidashen and Nubarashen districts of Yerevan city and supply equipment for those objects illumination</b></li> <li>▪ Documents which are required in original (e.g. Bid Security) should be sent to the below address with a PDF copy submitted as part of the electronic submission: <b>Procurement Unit, UNDP Armenia, UN House, 14 Petros Adamyan Str., Yerevan 0010, ARMENIA</b></li> </ul>
17	25	Date, time and venue for the opening of bid	Date and Time: September 9, 2019 4:00 PM Venue: <b>UNDP Armenia office, office #414</b>

18	27, 36	Evaluation Method for the Award of Contract	Lowest priced technically responsive, eligible and qualified bid.
19		Expected date for commencement of Contract	<i>September 30, 2019</i>
20		Maximum expected duration of contract	70 days
21	35	UNDP will award the contract to:	One Bidder Only
22	39	Type of Contract	Contract for Goods and/or Services to UNDP <a href="http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html">http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html</a>
23	39	UNDP Contract Terms and Conditions that will apply	UNDP General Terms and Conditions for Contracts <a href="http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html">http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html</a>
24		Other Information Related to the ITB	<i>[All other instructions and information not yet mentioned so far in this Data Sheet but are relevant to the ITB must be cited here, and any further entries that may be added below this table row]</i>

## Section 4. Evaluation Criteria

### Preliminary Examination Criteria

Bids will be examined to determine whether they are complete and submitted in accordance with ITB requirements as per below criteria on a Yes/No basis:

- Appropriate signatures
- Power of Attorney
- Minimum Bid documents provided
- Bid Validity
- Bid Security (if required) submitted as per ITB requirements with compliant validity period

### Minimum Eligibility and Qualification Criteria

Eligibility and Qualification will be evaluated on a Pass/Fail basis.

If the Bid is submitted as a Joint Venture/Consortium/Association, each member should meet the minimum criteria, unless otherwise specified.

Subject	Criteria	Document Submission requirement
<b>ELIGIBILITY</b>		
<b>Legal Status</b>	Vendor is a legally registered entity.	Form B: Bidder Information Form
<b>Eligibility</b>	Vendor is not suspended, nor debarred, nor otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization in accordance with ITB clause 3.	Form A: Bid Submission Form
<b>Conflict of Interest</b>	No conflicts of interest in accordance with ITB clause 4.	Form A: Bid Submission Form
<b>Bankruptcy</b>	Has not declared bankruptcy, is not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against the vendor that could impair its operations in the foreseeable future.	Form A: Bid Submission Form
<b>Certificates and Licenses</b>	<ul style="list-style-type: none"><li>▪ Duly authorized to act as Agent on behalf of the Manufacturer, or Power of Attorney, if bidder is not a manufacturer</li><li>▪ Official appointment as local representative, if Bidder is submitting a Bid on behalf of an entity located outside the country</li><li>▪ Patent Registration Certificates, if any of technologies submitted in the Bid is patented by the Bidder</li><li>▪ Export/Import Licenses, if applicable</li></ul>	Form B: Bidder Information Form
	<ul style="list-style-type: none"><li>• Provide detailed instruction on installation and maintenance of luminaries;</li></ul>	

	<ul style="list-style-type: none"> <li>• Provide information on photometry in electronic form in IES or LDT format.</li> <li>• Provide Lighting designs and calculations (estimates) for the proposed LED street luminaires based on the provided street descriptions and technical requirements.</li> <li>• Provide documentation confirming correspondence of the proposed LED street luminaires to the technical requirements set in Chapter V, Section 5a of this document.</li> <li>• Provide Technical passport of luminaires.</li> <li>• Provide quality certificates for the goods.</li> </ul>	
<b>QUALIFICATION</b>		
<b>History of Non-Performing Contracts<sup>1</sup></b>	Non-performance of a contract did not occur as a result of contractor default for the last 3 years.	Form D: Qualification Form
<b>Litigation History</b>	No consistent history of court/arbitral award decisions against the Bidder for the last 3 years.	Form D: Qualification Form
<b>Previous Experience</b>	Minimum 5 years of relevant experience.	Form D: Qualification Form
	Minimum 3 contracts of similar value, nature and complexity implemented over the last 5 years. <i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i>	Form D: Qualification Form
<b>Financial Standing</b>	Minimum average annual turnover of USD 500,000 for the last 3 years. <i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i>	Form D: Qualification Form
	Bidder must demonstrate the current soundness of its financial standing and indicate its prospective long-term profitability. <i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i>	Form D: Qualification Form
<b>Technical Evaluation</b>	The technical bids shall be evaluated on a pass/fail basis for compliance or non-compliance with the technical specifications identified in the bid document.	Form E: Technical Bid Form
<b>Financial Evaluation</b>	Detailed analysis of the price schedule based on requirements listed in Section 5 and quoted for by the bidders in Form F.  Price comparison shall be based on the landed price, including transportation, insurance and the total cost of ownership (including	Form F: Price Schedule Form

<sup>1</sup> Non-performance, as decided by UNDP, shall include all contracts where (a) non-performance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Non-performance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

	spare parts, consumption, installation, commissioning, training, special packaging, etc., where applicable) Comparison with budget/internal estimates.	
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## Section 5a: Schedule of Requirements and Technical Specifications

### SCOPE of SUPPLY Procurement of LED Street Luminaries

#### I. Identifying Information

<b>Task Title:</b>	Supply of LED Street Luminaries for the improvement of energy efficiency of street illumination for the Halabyan and Kievyan streets, Davidashen and Nubarashen districts of Yerevan city and supply equipment for those objects illumination.
<b>Project Title:</b>	“Supporting Communities of Armenia to Adopt and Implement Climate Smart Solutions” UNDP/00118602-00115356
<b>Location:</b>	Yerevan, Republic of Armenia

#### II. Background

Wide-spread application of outdated and inefficient lighting technologies in the municipal lighting sector dominated mainly by low-quality high-pressure sodium and mercury-vapor street lamps and fixtures, leads to growth of operation and maintenance (replacement) costs of municipalities as well as increase of energy consumption and associated greenhouse gas emissions. This makes lighting the second largest source of municipal GHG emissions in Armenia after heating.

In the framework of UNDP-GEF “Green Urban Lighting” project a good cooperation was established with Yerevan Municipality aimed at increasing energy efficiency of municipal lighting via implementation of municipal investment program.

The goal of being engaged in cooperation with Yerevan Municipality is to guide and support its efforts to introduce energy efficiency in the city infrastructures, and particularly in the street illumination system.

During this implementation will be tested ESCO scheme of cooperation between Yerevan municipality and supplier of goods, when payment for goods will be related to time and implementation results.

#### III. Condition

The payment for supplied illumination equipment will be done using “deferred payment” model within 5 years based on energy performance indicators achieved i.e. the supplied illumination equipment is to achieve at least 70% of energy savings in installed capacity compared with the baseline installed capacity given in the para 3 of the Chapter V.

The payments to the supplier will be done with the following schedule:

- 1) 40% of the cost of supplied equipment will be paid within 20 days after delivery of illumination equipment,
- 2) 10% of the cost of supplied equipment will be paid within 50 days after delivery of illumination equipment, after assessment of conformity of the equipment's' energy performance to the provisions of the ITB is done. The UNDP retains the right to conduct laboratory testing of energy performance and other specifications of the supplied equipment.
- 3) the remaining 50% of the tender will be transferred in 5 years in equal tranches as follows:
  - I tranche before 25 December 2020,
  - II tranche before 25 December 2021,

- III tranche before 25 December 2022,
- IV tranche before 25 December 2023,
- V tranche before 25 December 2024.

#### **IV. Scope of Supply Services**

##### **Objective of the Task**

The main objective is to supply services for the improvement of the energy efficiency of street illumination through the supply illumination equipment, which can ensure estimated energy savings for the Municipality of Yerevan.

The supplied services and luminaries must comply with technical requirements to provide the required illumination level for the conditions described below and in Annex 1.

##### **Activities per the Task**

Within the scope of services, supplier must implement the following activities and supply 2,395 LED luminaires for different sections of the streets listed in table below and described in Annex 1.

<b>##</b>	<b>Section of street</b>	<b>Annex 1, Description name</b>	<b>Quantity, pcs</b>
1	Halabyan section 01	Halabyan section A	95
2	Halabyan section 02	Halabyan section B	26
3	Halabyan section 03	Halabyan section C	17
4	Kievyan sectiton 01	Kievyan street 01	70
5	Kievyan sectiton 02	Kievyan street 02	4
6	Davidashen bridge 01	Davidashen bridge	76
7	Davidashen Bridge connection 01	Davidashen bridge connection	6
8	Part of Vagarshyan street 01	Sasna Tsrer	13
9	Sasna Tsrer 01	Sasna Tsrer	47
10	Sasna Tsrer Eghvard road connection 01	Sasna Tsrer-Eghvard road connectioon	60
11	Anastas Mikoyan 01	Anastas Mikoyan	143
12	Anastas Mikoyan extension 01	A.Mikoyan extension	14
13	Tigran Petrosyan 01	Tigran Petrosyan	76

##	Section of street	Annex 1, Description name	Quantity, pcs
14	Pirumyan 01	Pirumyan	22
15	T.Petrosyan-Yeghvard road connection 01	T.Petrosyan-Yeghvard road connection	39
16	Aghababyan 01	Aghababyan 01	19
17	Aghababyan 02	Aghababyan 02	39
18	Aghababyan 03	Aghababyan 03	63
19	Yeghvard road to ministry of emergency 01	Yeghvard road to ministry of emergency	7
20	Iosifyan street 01	Iosifyan and Melkumov streets	34
21	Melkumov street 01	Iosifyan and Melkumov streets	62
22	Davidashen village roads 01	Davidashen village roads	449
23	Davidashen courtyard streets 01	Streets Inside the courtyard	350
24	Road from Nubarashensky bridge to the beginning of 6th street 01	The road from Nubarashensky bridge to the beginning of 6th street	24
25	Nubarashen Street 1st 01	Nubarashen Street: 1st, 7th, 8th, 12th, 15th	17
26	Nubarashen Street 3rd 01	Nubarashen Street: 3rd, 4th, 9th, 13th, 17th, 18th, 20th and Gorodok microdistrict	16
27	Nubarashen Street 4th 01	Nubarashen Street: 3rd, 4th, 9th, 13th, 17th, 18th, 20th and Gorodok microdistrict	28
28	Nubarashen Street 5th 01	Nubarashen Streets: 5th, 6th, 11th	20
29	Nubarashen Street 6th 01	Nubarashen Streets: 5th, 6th, 11th	34
30	Nubarashen Street 7th 01	Nubarashen Street: 1st, 7th, 8th, 12th, 15th	26
31	Nubarashen Street 8th 01	Nubarashen Street: 1st, 7th, 8th, 12th, 15th	14
32	Nubarashen Street 9th 01	Nubarashen Street: 3rd, 4th, 9th, 13th, 17th, 18th, 20th and Gorodok microdistrict	48
33	Nubarashen Street 10th 01	Nubarashen 10th street	6
34	Nubarashen Street 11th 01	Nubarashen Streets: 5th, 6th, 11th	58
35	Nubarashen Street 12th 01	Nubarashen Street: 1st, 7th, 8th, 12th, 15th	5

##	Section of street	Annex 1, Description name	Quantity, pcs
36	Nubarashen Street 13th 01	Nubarashen Street: 3rd, 4th, 9th, 13th, 17th, 18th, 20th and Gorodok microdistrict	18
37	Nubarashen Street 14th 01	Nubarashen 14th street	8
38	Nubarashen Street 15th 01	Nubarashen Street: 1st, 7th, 8th, 12th, 15th	38
39	Nubarashen Street 16th 01	Nubarashen 16th street	6
40	Nubarashen Street 17th 01	Nubarashen Street: 3rd, 4th, 9th, 13th, 17th, 18th, 20th and Gorodok microdistrict	19
41	Nubarashen Street 18th 01	Nubarashen Street: 3rd, 4th, 9th, 13th, 17th, 18th, 20th and Gorodok microdistrict	6
42	Nubarashen Street 20th 01	Nubarashen Street: 3rd, 4th, 9th, 13th, 17th, 18th, 20th and Gorodok microdistrict	13
43	Nubarashen Street Gorodok microdistrict 01	Nubarashen Street: 3rd, 4th, 9th, 13th, 17th, 18th, 20th and Gorodok microdistrict	12
44	Nubarashen courtyard streets 01	Nubarashen courtyard streets	87
45	Nubarashen road 01	Nubarashen road 01	22
46	Nubarashen road 02	Nubarashen road 02	139
<b>Total:</b>			<b>2,395</b>

1. Provide lighting calculation for all sections of streets described in Annex 1. The calculation made and provided by bidder, according to the presented street description, must:
  - describe models of the proposed luminaires, appropriate for each of sketch;
  - confirm comparability of luminance and illuminance levels to the requirements represent in Annex 1.

The calculation should be done on the base of maintenance factor equal or equivalent 0.8.

2. The proposed LED street luminaries must have their respective certificates in accordance with the international requirements.
3. Provide detailed instruction on installation and maintenance of luminaries.

## V. Specific Requirements to Equipment

1. Compliance with required parameters (see table below) should be confirmed by technical passport of luminaires and are mandatory.

Required parameters	Rated/Nominal Values
Rated Input Voltage	from 180V to 250V
Rated Input Frequency	50 ± 5 Hz
Ambient Temperature	from - 30 to + 40 °C
Life time, not less	50,000hrs @ Ta=25°C (L80, B10)
Power factor	≥0,90
Surge Protection at least	8KV (Line-Neutral)

Correlated color temperature	4000 ± 250K
Color rendering index (CRI)	≥70
Ingress Protection (IP) for whole luminary	IP65 or higher
Impact Protection (IK)	IK07 or higher
Optical block protection	Tempered protective glass
Body material	Die cast aluminum
Vertical adjustment of luminaires	Adjustable
Diameter of luminaires mounting (mm)	50-52
Warranty Period	5 years

2. Luminaires shall provide at least **110 lm/W** light output ratio.
3. Installed power capacity of total quantity of proposed luminaires must provide **at least 70%** energy efficiency compared to the existing **761 kW** installed capacity.
4. Supplier should ensure spare parts to remain available for the stated life of the luminaires.
5. Luminaires must meet the requirements of the following quality standards confirmed by the declaration of conformity:
  - *EN 60598-1 - Luminaires - General requirements and tests*
  - *EN 60598-2-3 - Luminaires for road and street lighting*
  - *EN 55015 - Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment*
  - *EN 61000-3-X - Limits for harmonic current emissions*
  - *EN 61000-4-X - Electromagnetic compatibility (EMC)*
  - *EN 61547 - Equipment for general lighting purpose, immunity requirements*
  - *EN 62031 - LED modules for general lighting – Safety specifications*
  - *EN 60529 - Degrees of protection provided by enclosures (IP Code)*

#### **Other Requirements:**

1. Optical parts of the luminaires should be made from thermally and shockproof materials, steady against ultra-violet radiation and providing operational durability.
2. Luminaires must have clear marks with information on model and its technical characteristics (as additional can be provided information on the model and country of origin of LEDs and driver).
3. Instructions and schemes for making connections shall be provided.
4. Luminaires should be convenient in service and provide modular assembly for components.
5. Luminaires must have an aesthetic appearance and modern design.

## **VI. Key Expected Results**

The result of the task shall be **supply of LED street luminaires as per technical requirement, which can ensure the energy saving of at least 70% energy efficiency compared to the existing 761 kW installed capacity.**

## **VII. Professional Requirements**

1. Manufacturer of supplied light fixtures must have at least 5 years of experience in production of lighting equipment and lighting accessories for street lighting, confirmed by information on implemented projects and appropriate references from clients.
2. Supplier should provide minimum of 5 years guarantee on preservation of announced technical parameters of fixtures and accessories (components). Supplier should inform on the workflow how the guarantee will be executed, upon the claim from the Client (UNDP).

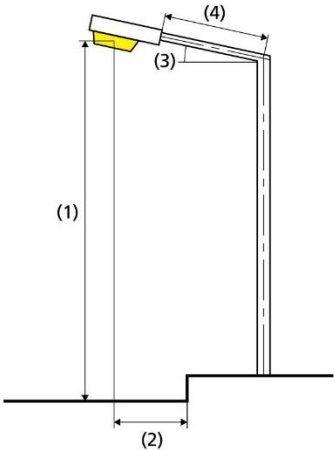
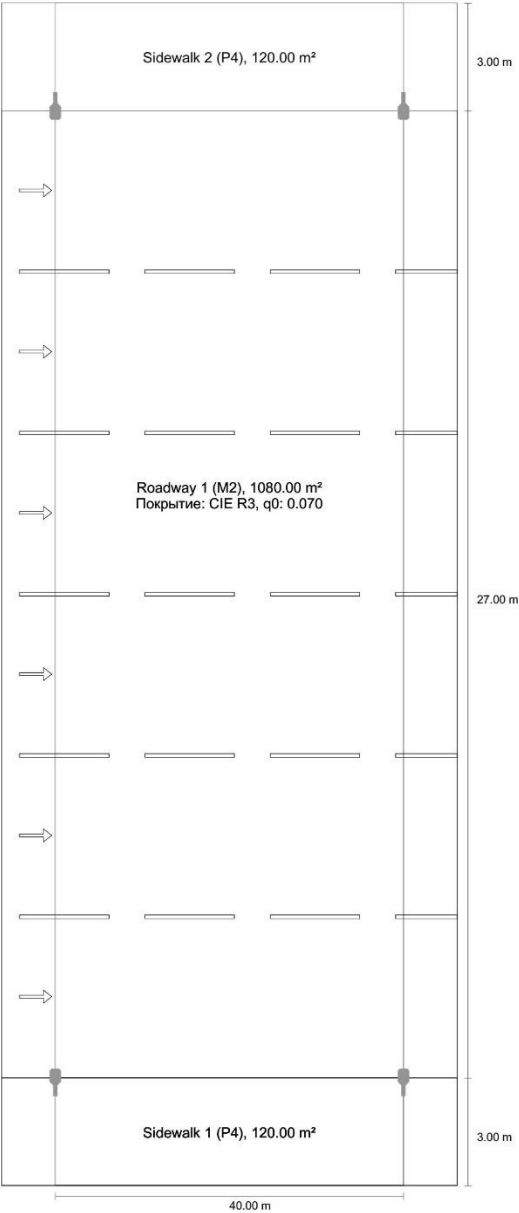
## **VIII. Format of the Package to Submit**

Applicant organization/company must include the following technical part in the package to submit.

- Description of similar projects of comparable volume and character performed within the last five years using the same manufacturer fixtures, with relevant references from clients.
- Lighting designs and calculations (estimates) for the proposed LED street luminaires based on the provided street descriptions and technical requirements.
- Information on photometry in electronic form in IES or LDT format.
- Technical passport of luminaires.
- Documentation confirming correspondence of the proposed LED street luminaires to the technical requirements set in Chapter IV of this document.
- Quality certificates for the goods.
- Detailed schedule of goods delivery DAP Yerevan.
- Description of performance of warranty commitments.

## **ANNEX 1**

Halabyan section A



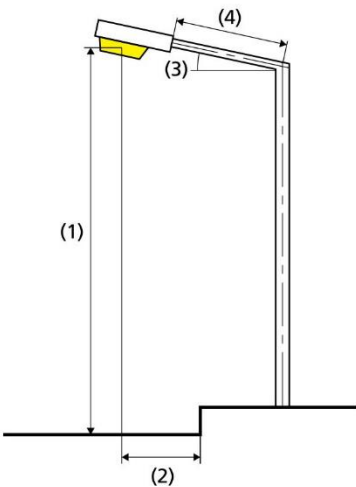
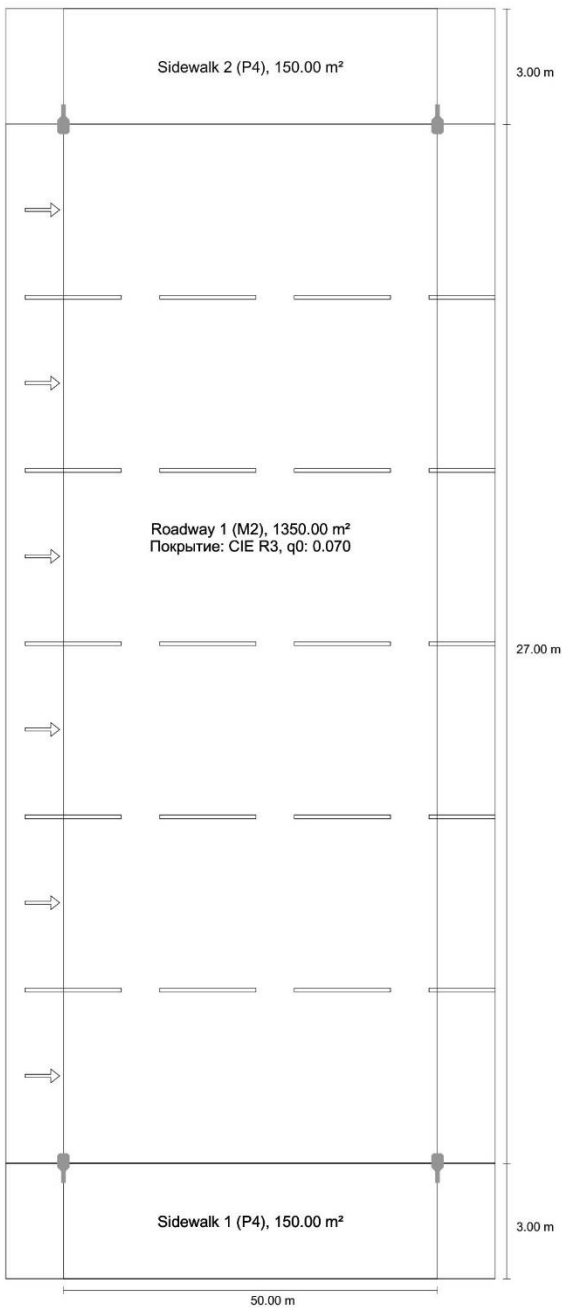
- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: двухсторонне напротив  
Расстояние между мачтами: 40.000 m  
Наклон консоли (3): 0.0°  
Длина консоли (4): 0.500 m  
Высота световых точек (1): 11.000 m  
Свес световой точки (2): 0.000 m

Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1

Lcp [cd/m²] ≥ 1.40	Uo ≥ 0.40	UI ≥ 0.70	TI [%] ≤ 10	EIR
Еср [lx] ≥ 20.00	Uo ≥ 0.35			

Halabyan section B



- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: двухсторонне напротив  
Расстояние между мачтами: 50.000 m  
Наклон консоли (3): 5.0°  
Длина консоли (4): 0.498 m  
Высота световых точек (1): 14.000 m  
Свес световой точки (2): 0.000 m

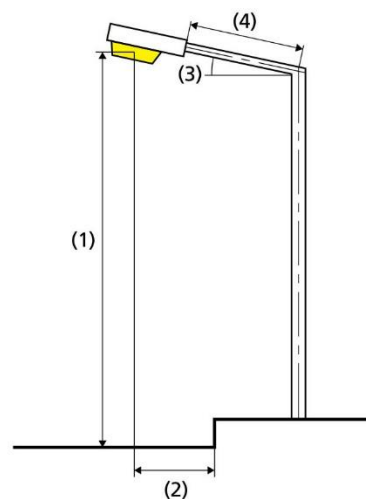
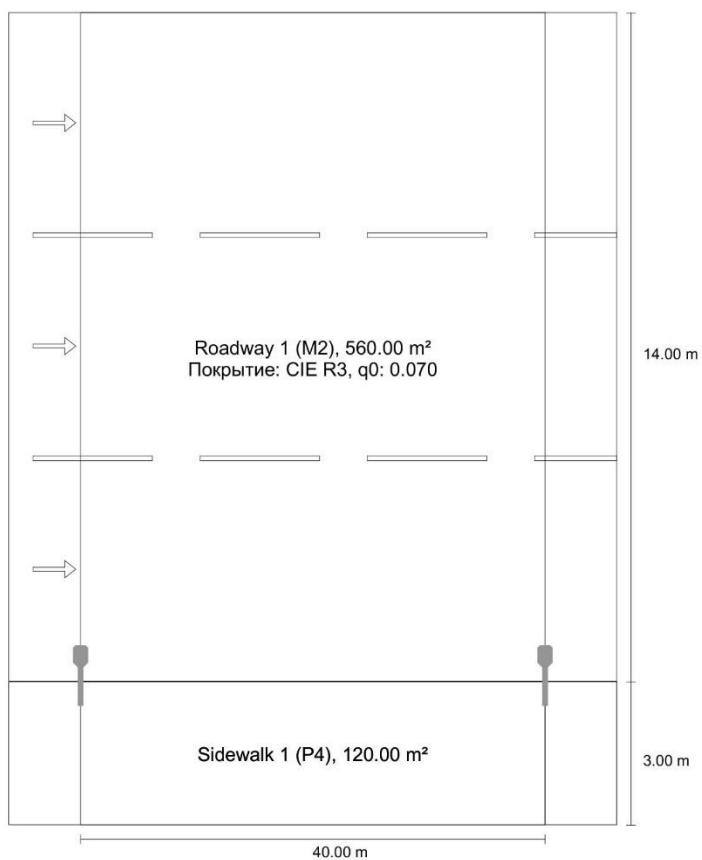
Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1

Lcp [cd/m²] ≥ 1.40	Uo ≥ 0.40	UI ≥ 0.70	TI [%] ≤ 10	EIR
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Есп [lx] ≥ 20.00	Uo ≥ 0.35
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## Halabyan section C



Лампа:

Световой поток (светильник):

Световой поток (лампа):

Рабочие часы

4000 h:

W/km:

Расположение: односторонне внизу

Расстояние между мачтами: 40.000 m

Наклон консоли (3): 5.0°

Длина консоли (4): 0.996 m

Высота световых точек (1): 11.000 m

Свес световой точки (2): 0.500 m

Результаты для полей оценки

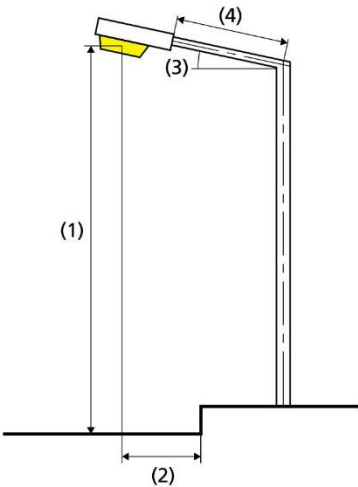
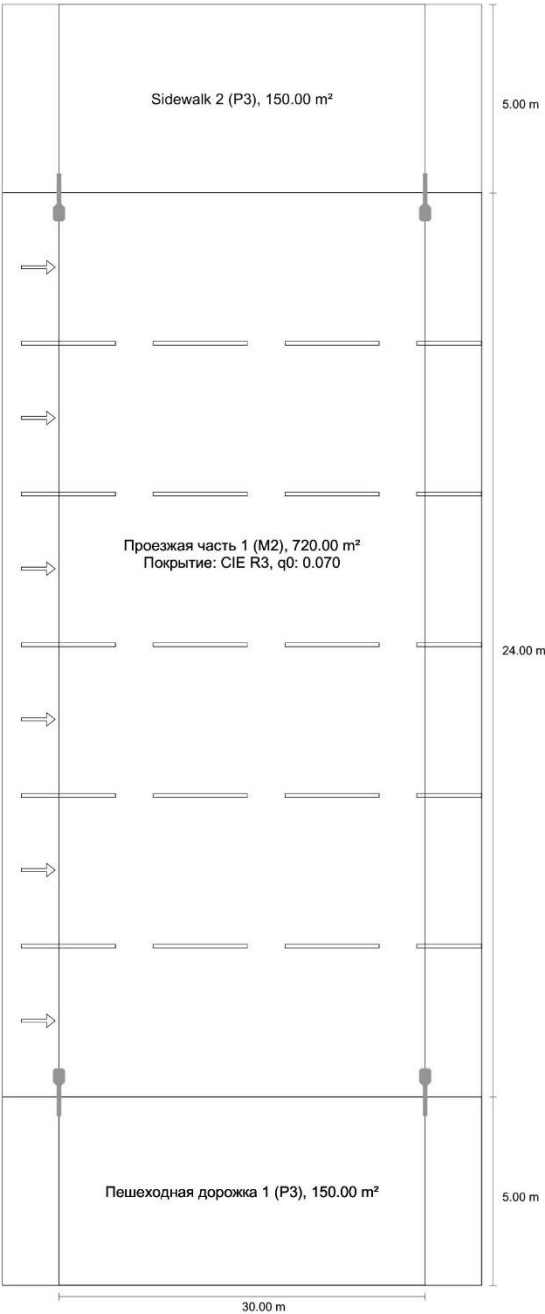
Коэффициент эксплуатации: 0.80

Roadway 1

L <sub>cp</sub> [cd/m <sup>2</sup> ] ≥ 1.40	U <sub>o</sub> ≥ 0.40	U <sub>I</sub> ≥ 0.70	TI [%] ≤ 12	EIR ≥ 0.35
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E <sub>cp</sub> [lx] ≥ 20.00	U <sub>o</sub> ≥ 0.35
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Kievyan street 01



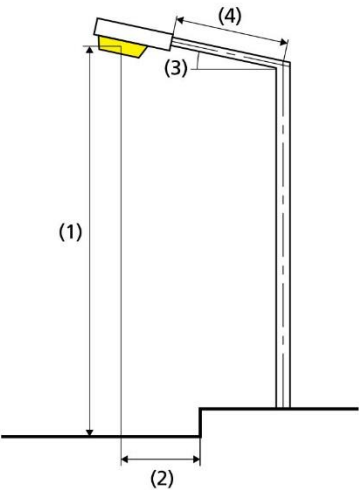
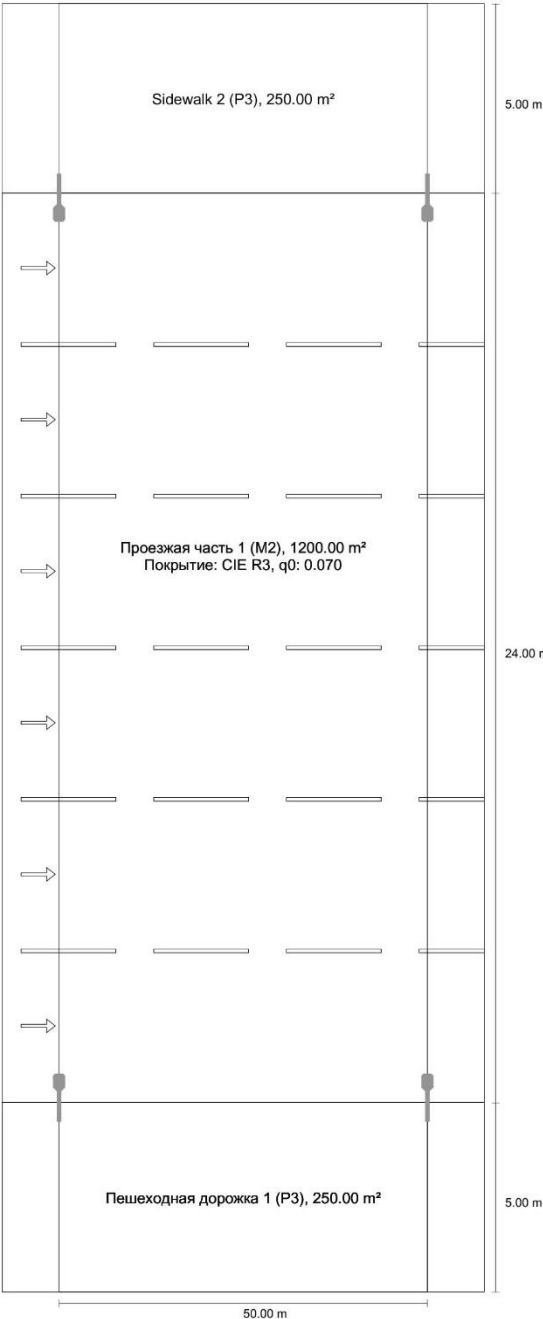
- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:
- Расположение: двухсторонне напротив  
Расстояние между мачтами: 30.000 m  
Наклон консоли (3): 0.0°  
Длина консоли (4): 1.000 m  
Высота световых точек (1): 9.000 m  
Свес световой точки (2): 0.500 m

Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1				
Lcp [cd/m <sup>2</sup> ] ≥ 1.60	Uo ≥ 0.40	UI ≥ 0.70	TI [%] ≤ 10	EIR

Roadway 1	
Ecp [lx] ≥ 20.00	Uo ≥ 0.35

Kievyan street 02



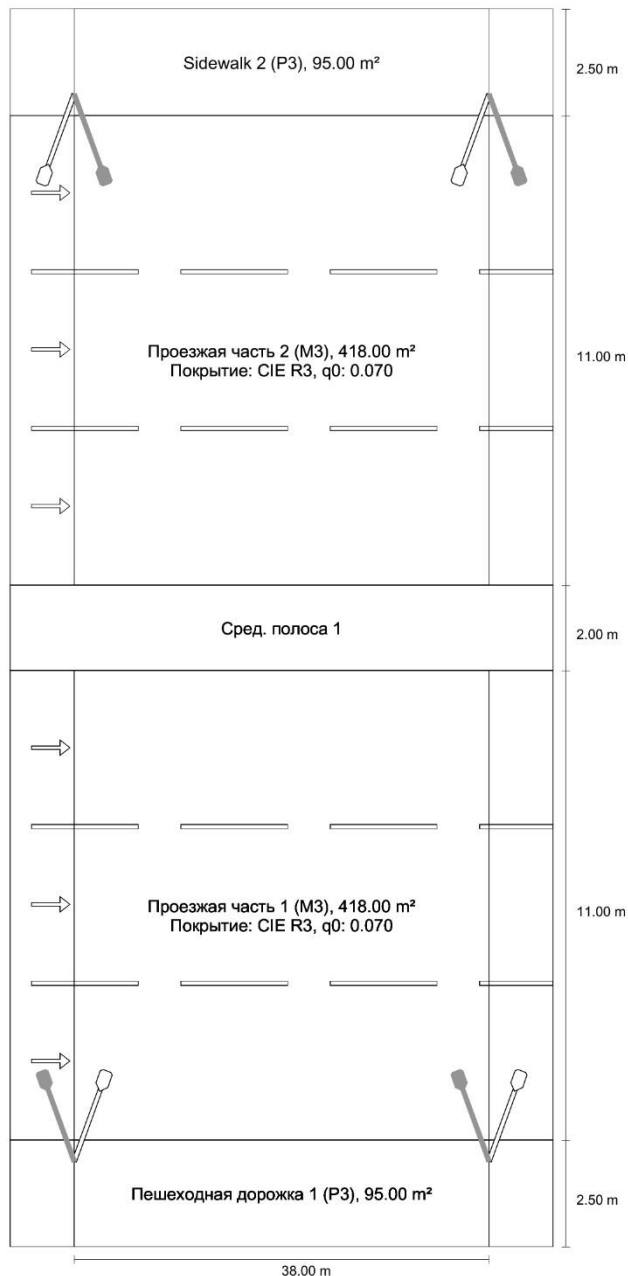
- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: двухсторонне напротив  
Расстояние между мачтами: 50.000 m  
Наклон консоли (3): 10.0°  
Длина консоли (4): 1.000 m  
Высота световых точек (1): 12.500 m  
Свес световой точки (2): 0.500 m

Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1				
Lcp [cd/m²] ≥ 1.60	Uo ≥ 0.40	UI ≥ 0.70	TI [%] ≤ 10	EIR

Roadway 1	
Ecp [lx] ≥ 20.00	Uo ≥ 0.35

## Davidashen Bridge



Расстояние между мачтами этой группы светильников определяет длину нормированных полей.

Лампа:

Световой поток (светильник):

Световой поток (лампа):

Рабочие часы

4000 h:

W/km:

Расположение: двухсторонне напротив

Расстояние между мачтами: 38.000 m

Наклон консоли (3): 15.0°

Длина консоли (4): 2.046 m

Высота световых точек (1): 11.000 m

Свес световой точки (2): 1.500 m

Результаты для полей оценки

Коэффициент эксплуатации: 0.80

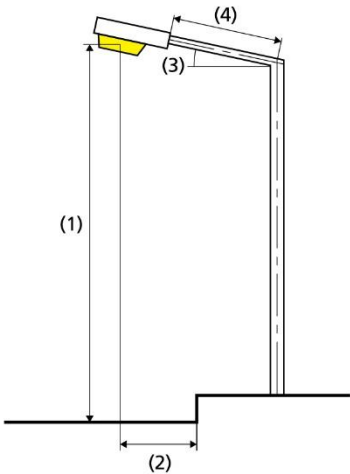
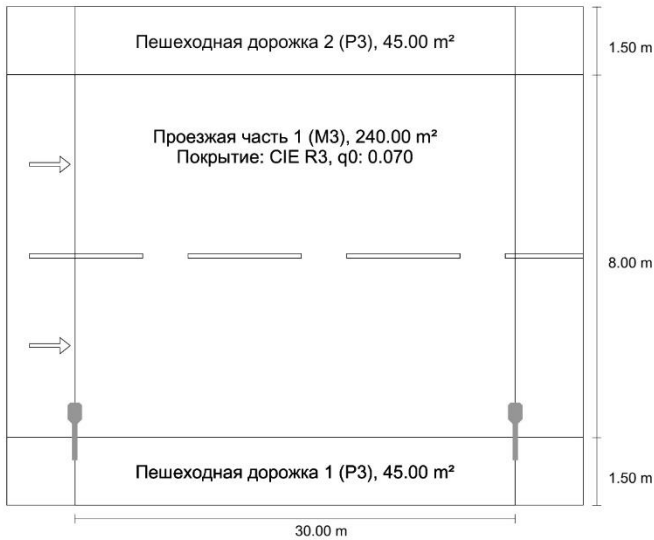
### Roadway 1 (M3)

$L_{cp}$ [cd/m²] ≥ 1.40	$U_o$ ≥ 0.40	$U_I$ ≥ 0.70	$T_I$ [%] ≤ 12	$EIR$ ≥ 0.30
$E_{cp}$ [lx] ≥ 20.00	$U_o$ ≥ 0.35			

### Roadway 2 (M3)

$L_{cp}$ [cd/m²] ≥ 1.40	$U_o$ ≥ 0.40	$U_I$ ≥ 0.70	$T_I$ [%] ≤ 12	$EIR$ ≥ 0.30
$E_{cp}$ [lx] ≥ 20.00	$U_o$ ≥ 0.35			

Davidashen bridge connection



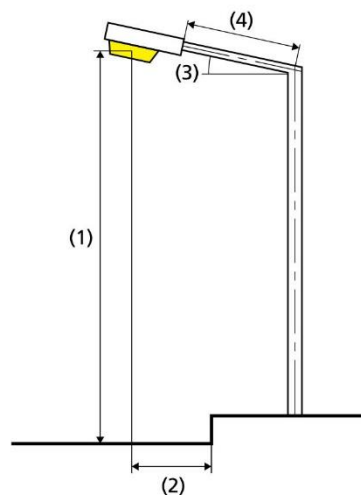
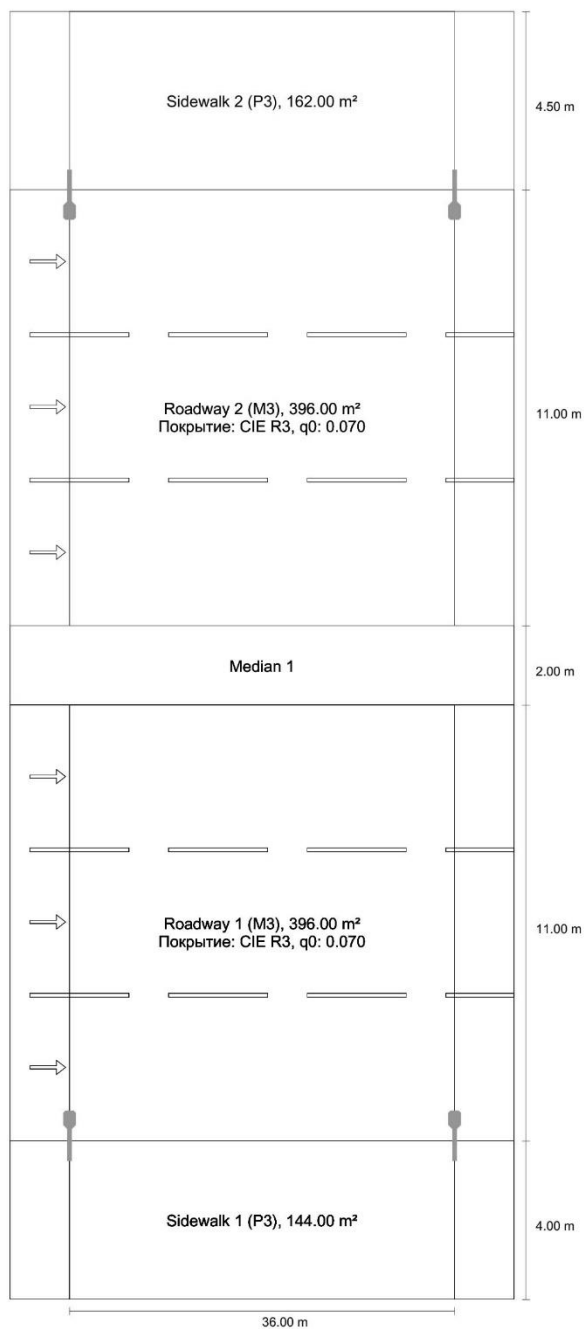
Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1 (M3)

Lcp [cd/m²] ≥ 1.40	Uo ≥ 0.40	UI ≥ 0.70	TI [%] ≤ 12	EIR
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Ecp [lx] ≥ 20.00	Uo ≥ 0.35
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- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: односторонне внизу  
Расстояние между мачтами: 30.000 m  
Наклон консоли (3): 0.0°  
Длина консоли (4): 1.000 m  
Высота световых точек (1): 9.000 m  
Свес световой точки (2): 0.500 m



Лампа:

Световой поток (светильник):

Световой поток (лампа):

Рабочие часы

4000 h:

W/km:

Расположение: двухсторонне напротив

Расстояние между мачтами: 36.000 m

Наклон консоли (3): 10.0°

Длина консоли (4): 1.000 m

Высота световых точек (1): 9.000 m

Свес световой точки (2): 0.500 m

### Результаты для полей оценки

Коэффициент эксплуатации: 0.80

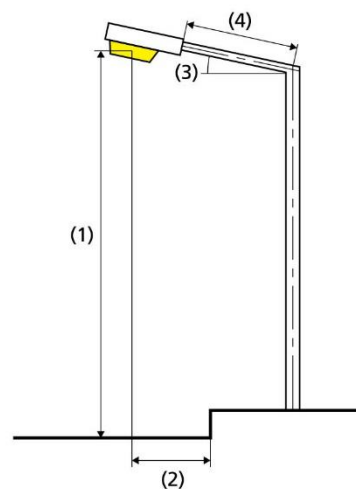
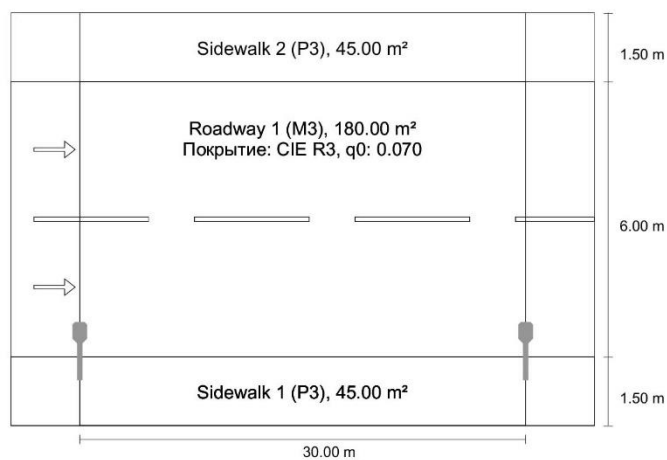
Roadway 2

Lcp [cd/m <sup>2</sup> ] ≥ 1.40	Uo ≥ 0.40	UI ≥ 0.70	TI [%] ≤ 12	EIR ≥ 0.30
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Roadway 2

Ecp [lx] ≥ 20.00	Uo ≥ 0.35
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Sasna Tsrer-Eghvard road connectioon



Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1

Lcp [cd/m²] ≥ 1.40	Uo ≥ 0.40	UI ≥ 0.70	TI [%] ≤ 12	EIR
--------------------------	--------------	--------------	----------------	-----

Roadway 1

Ecp [lx] ≥ 20.00	Uo ≥ 0.35
---------------------	--------------

Лампа:

Световой поток (светильник):

Световой поток (лампа):

Рабочие часы

4000 h:

W/km:

Расположение:

односторонне внизу

Расстояние между мачтами:

30.000 m

Наклон консоли (3):

0.0°

Длина консоли (4):

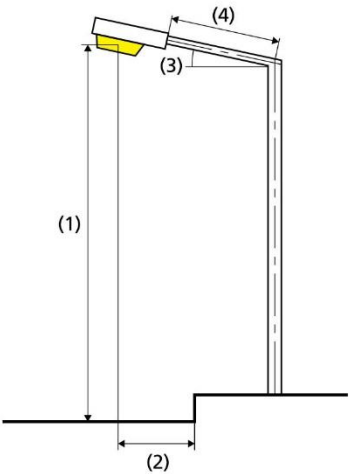
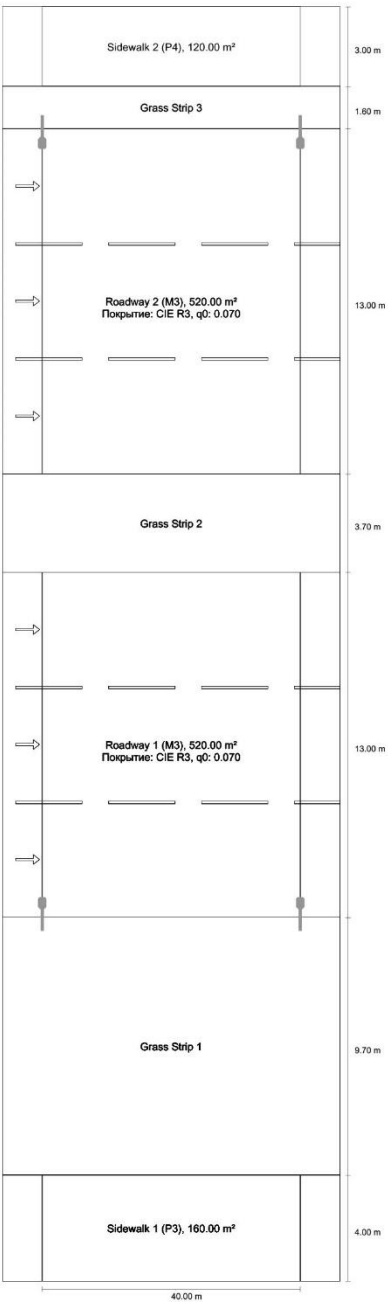
1.000 m

Высота световых точек (1):

8.000 m

Свес световой точки (2):

0.500 m



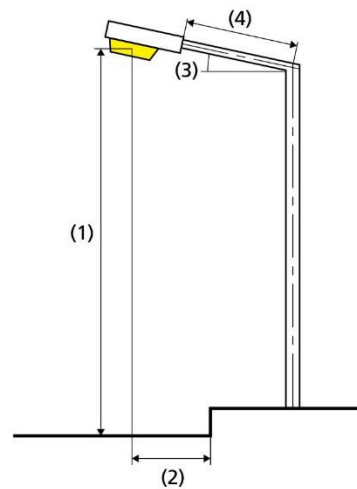
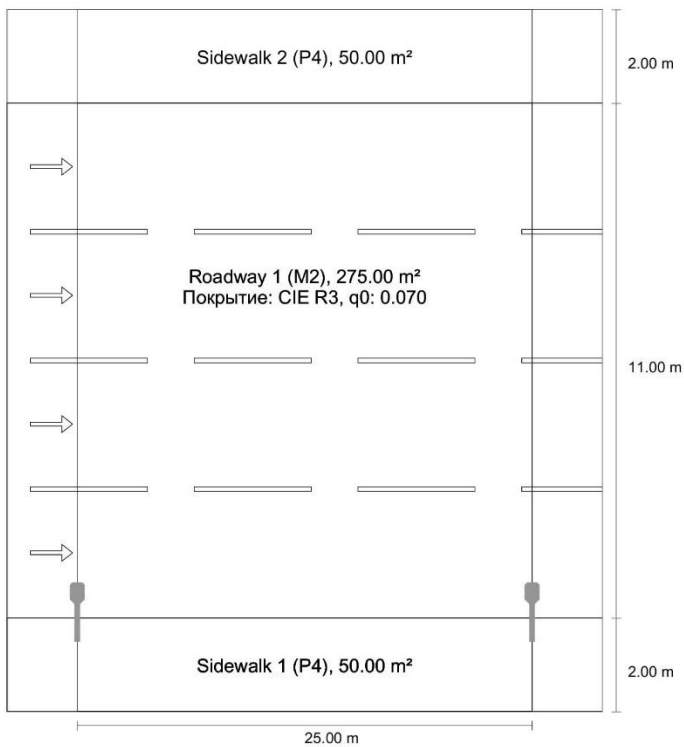
- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: двухсторонне напротив  
Расстояние между мачтами: 40.000 m  
Наклон консоли (3): 5.0°  
Длина консоли (4): 0.996 m  
Высота световых точек (1): 12.000 m  
Свес световой точки (2): 0.500 m

Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 2					Roadway 2	
Lcp [cd/m²] ≥ 1.60	Uo ≥ 0.40	UI ≥ 0.70	TI [%] ≤ 12	EIR ≥ 0.30	Ecp [lx] ≥ 20.00	Uo ≥ 0.35

Roadway 1					Roadway 1	
Lcp [cd/m²] ≥ 1.60	Uo ≥ 0.40	UI ≥ 0.70	TI [%] ≤ 12	EIR ≥ 0.30	Ecp [lx] ≥ 20.00	Uo ≥ 0.35

A.Mikoyan extension



- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: односторонне внизу  
Расстояние между мачтами: 25.000 m  
Наклон консоли (3): 10.0°  
Длина консоли (4): 1.000 m  
Высота световых точек (1): 8.000 m  
Свес световой точки (2): 0.500 m

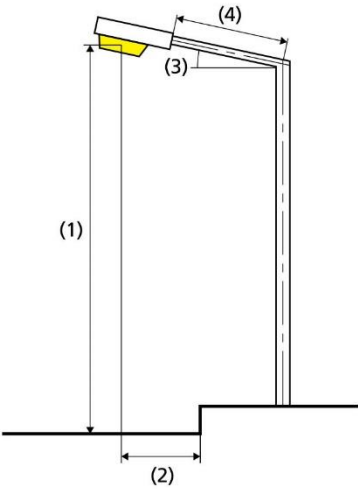
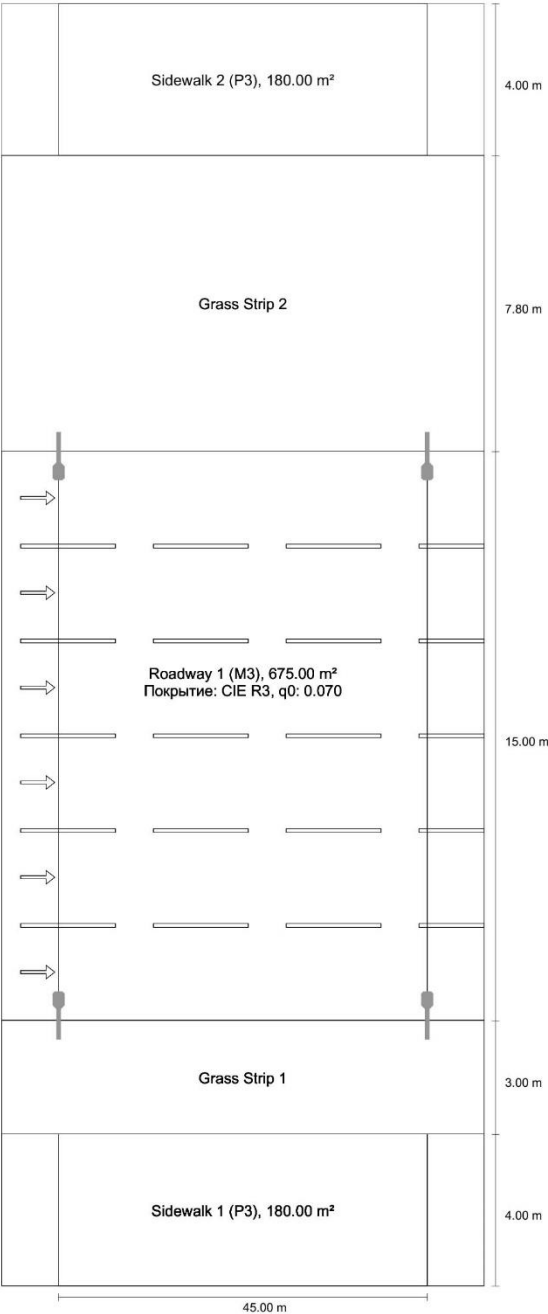
Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1

Lcp [cd/m²] ≥ 1.60	Uo ≥ 0.40	Ui ≥ 0.70	TI [%] ≤ 10	EIR
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Roadway 1

Ecp [lx] ≥ 20.00	Uo ≥ 0.35
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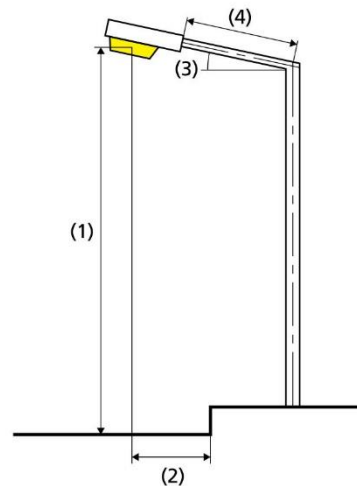
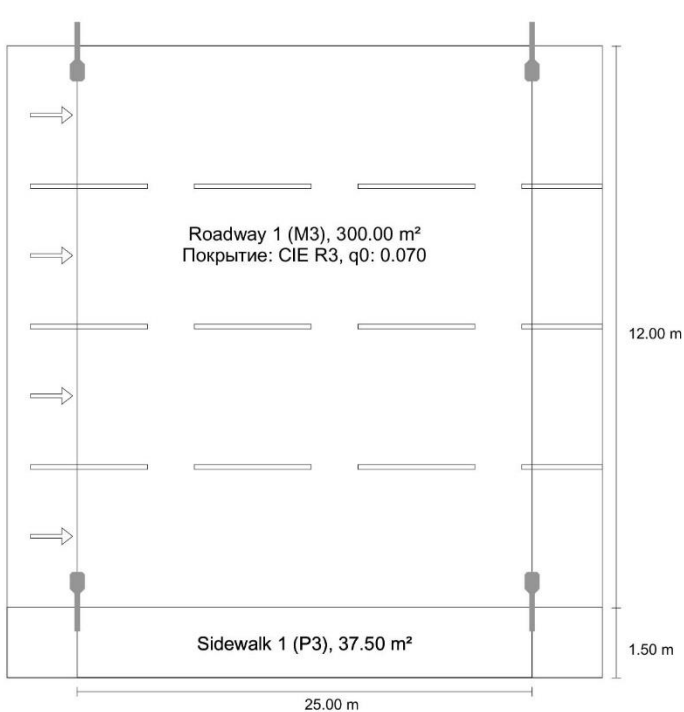


- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: двухсторонне напротив  
Расстояние между мачтами: 45.000 m  
Наклон консоли (3): 10.0°  
Длина консоли (4): 1.000 m  
Высота световых точек (1): 9.500 m  
Свес световой точки (2): 0.500 m

Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1				
Lcp [cd/m <sup>2</sup> ] ≥ 1.20	Uo ≥ 0.40	UI ≥ 0.60	TI [%] ≤ 12	EIR ≥ 0.30

Roadway 1	
Ecp [lx] ≥ 20.00	Uo ≥ 0.35



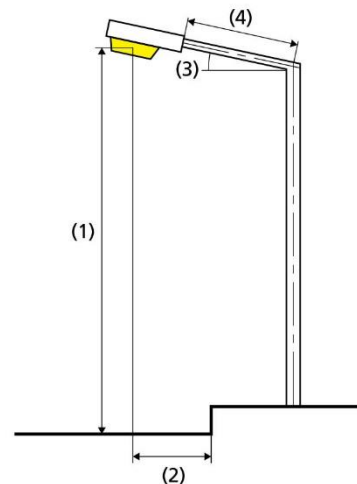
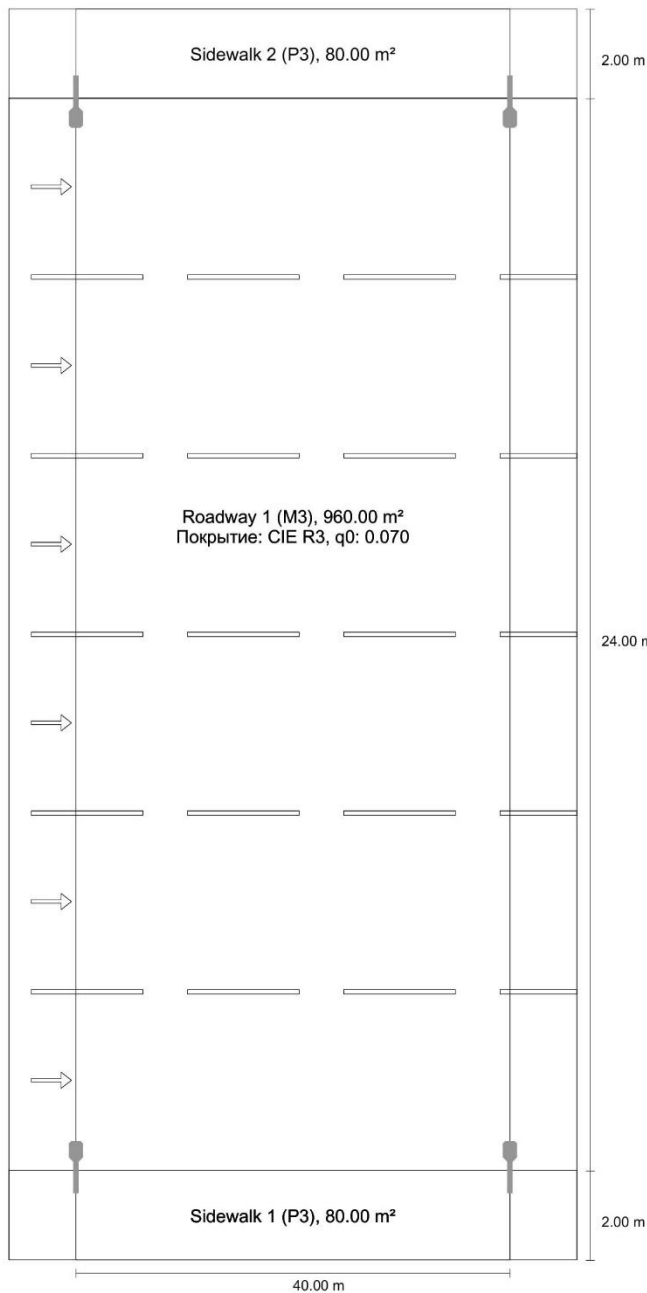
Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1				
Lcp [cd/m²] ≥ 1.20	Uo ≥ 0.40	UI ≥ 0.60	TI [%] ≤ 12	EIR ≥ 0.30

Roadway 1	
Ecp [lx] ≥ 20.00	Uo ≥ 0.35

- Лампа:
- Световой поток (светильник):
- Световой поток (лампа):
- Рабочие часы
- 4000 h:
- W/km:
- Расположение:
- Расстояние между мачтами:
- Наклон консоли (3):
- Длина консоли (4):
- Высота световых точек (1):
- Свес световой точки (2):
- двухсторонне напротив
- 25.000 m
- 0.0°
- 1.000 m
- 8.000 m
- 0.500 m

T.Petrosyan-Yeghvard road connection

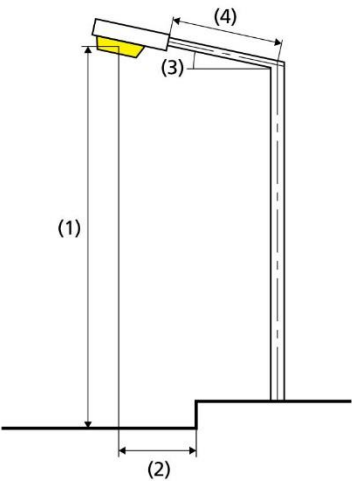
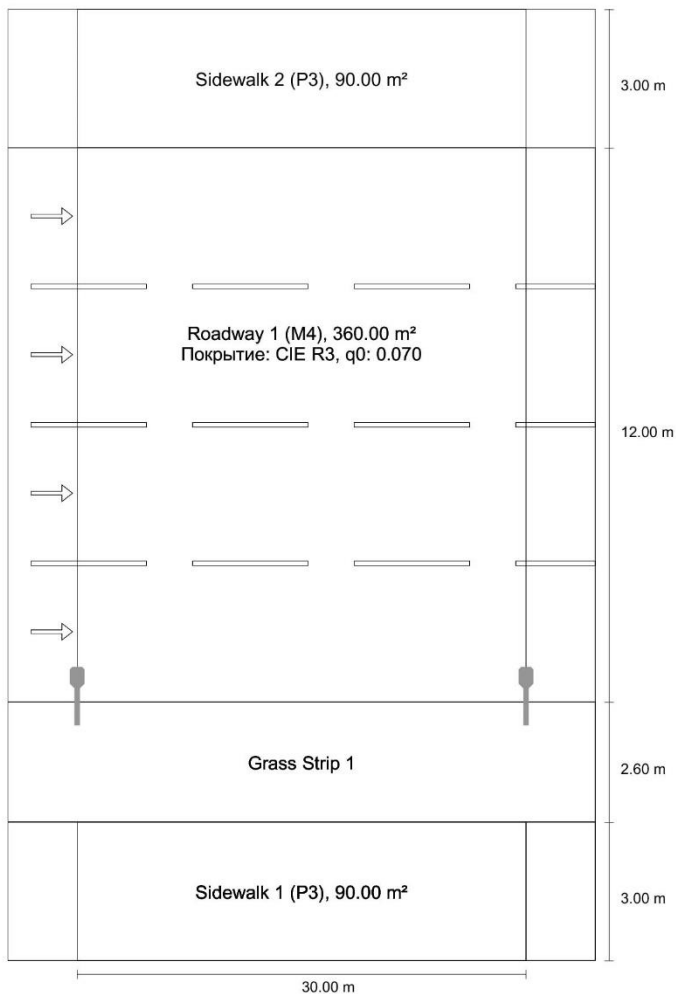


- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: двухсторонне напротив  
Расстояние между мачтами: 40.000 m  
Наклон консоли (3): 5.0°  
Длина консоли (4): 0.896 m  
Высота световых точек (1): 9.000 m  
Свес световой точки (2): 0.400 m

Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1				
Lcp [cd/m²] ≥ 1.20	Uo ≥ 0.40	UI ≥ 0.60	TI [%] ≤ 12	EIR

Roadway 1	
Ecp [lx] ≥ 20.00	Uo ≥ 0.35



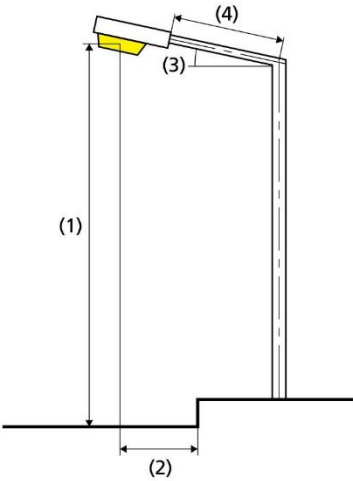
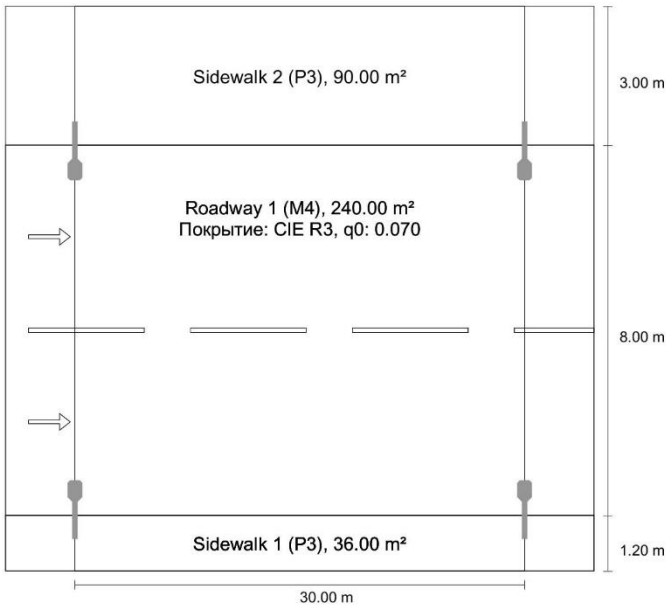
- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: односторонне внизу  
Расстояние между мачтами: 30.000 m  
Наклон консоли (3): 10.0°  
Длина консоли (4): 1.000 m  
Высота световых точек (1): 9.000 m  
Свес световой точки (2): 0.500 m

Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway

Lcp [cd/m²] ≥ 0.80	Uo ≥ 0.40	UI ≥ 0.50	TI [%] ≤ 15	EIR ≥ 0.30
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Ecp [lx] ≥ 15.00	Uo ≥ 0.40
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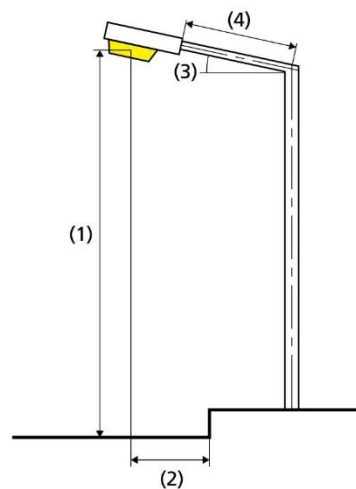
Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1

Lcp [cd/m²] ≥ 0.80	Uo ≥ 0.40	UI ≥ 0.50	TI [%] ≤ 15	EIR
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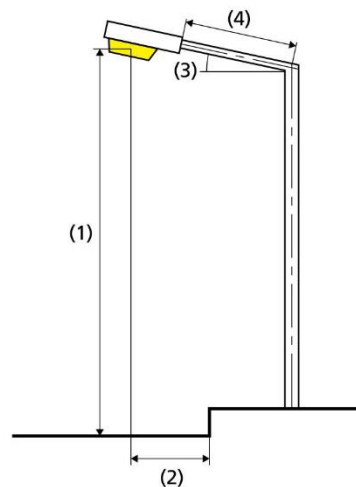
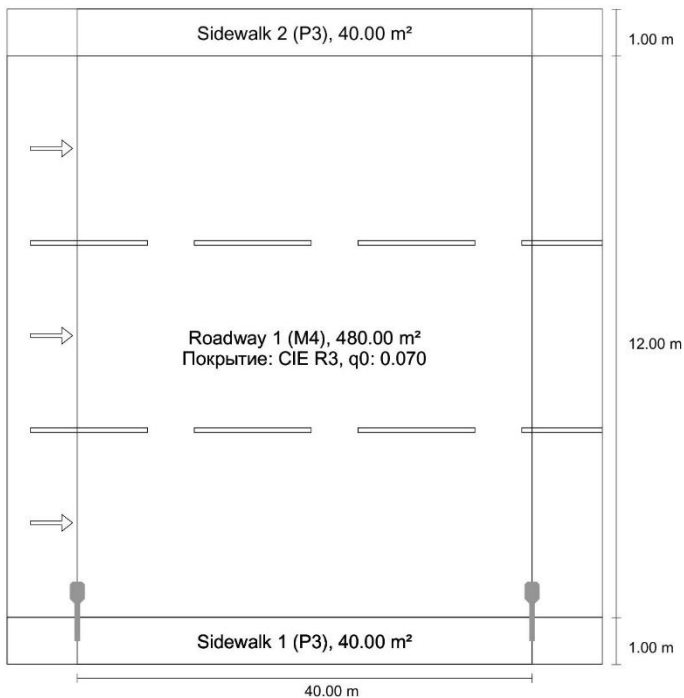
Ecp [lx] ≥ 15.00	Uo ≥ 0.25
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Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: двухсторонне напротив  
Расстояние между мачтами: 30.000 m  
Наклон консоли (3): 0.0°  
Длина консоли (4): 1.000 m  
Высота световых точек (1): 9.000 m  
Свес световой точки (2): 0.500 m



Лампа:	
Световой поток (светильник):	
Световой поток (лампа):	
Рабочие часы	
4000 h:	
W/km:	
Расположение:	односторонне вниз
Расстояние между мачтами:	30.000 m
Наклон консоли (3):	0.0°
Длина консоли (4):	1.000 m
Высота световых точек (1):	8.000 m
Свес световой точки (2):	0.500 m

Yeghvard road to ministry of emergency



Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1

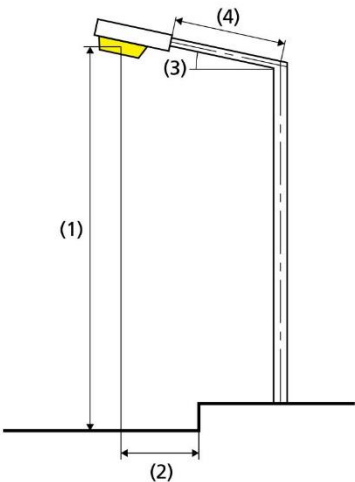
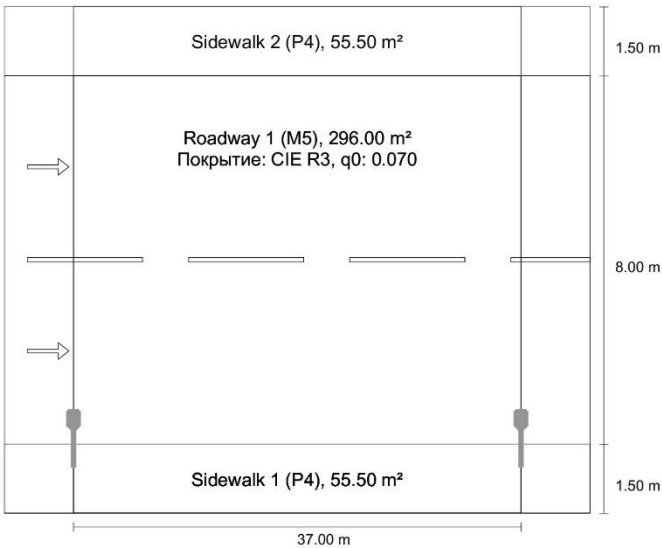
Lcp [cd/m²] ≥ 0.80	Uo ≥ 0.40	UI ≥ 0.50	TI [%] ≤ 15	EIR
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Roadway 1

Ecp [lx] ≥ 15.00	Uo ≥ 0.25
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- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: односторонне внизу  
Расстояние между мачтами: 40.000 m  
Наклон консоли (3): 15.0°  
Длина консоли (4): 1.013 m  
Высота световых точек (1): 8.500 m  
Свес световой точки (2): 0.500 m

Iosifyan and Melkumov streets



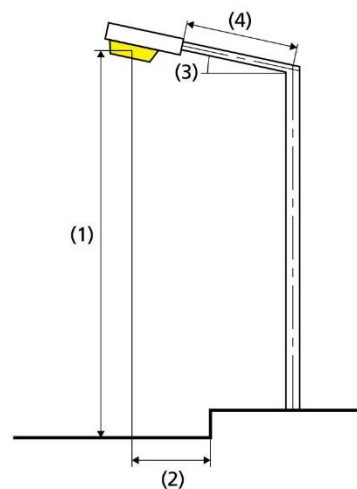
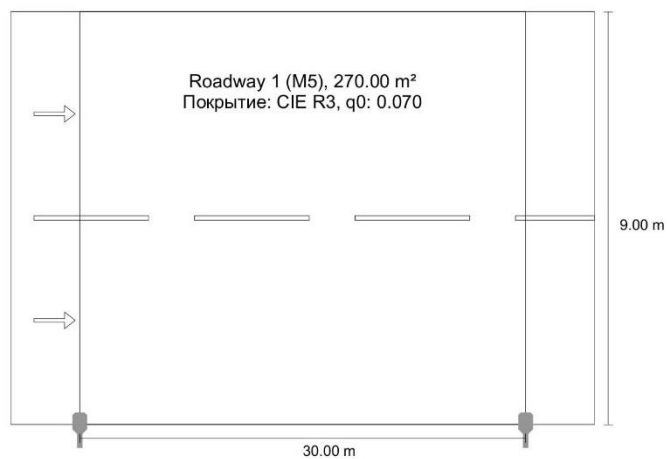
Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1				
Lcp [cd/m²] ≥ 0.60	Uo ≥ 0.40	UI ≥ 0.50	TI [%] ≤ 15	EIR

Roadway 1	
Ecp [lx] ≥ 10.00	Uo ≥ 0.25

- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: односторонне внизу  
Расстояние между мачтами: 37.000 m  
Наклон консоли (3): 10.0°  
Длина консоли (4): 0.998 m  
Высота световых точек (1): 8.000 m  
Свес световой точки (2): 0.500 m

Davidashen village roads



Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

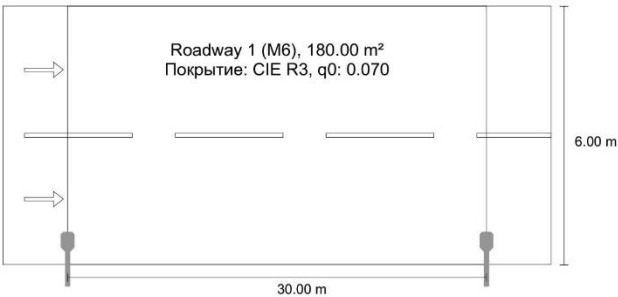
Roadway 1

Lcp [cd/m²] ≥ 0.60	Uo ≥ 0.40	UI ≥ 0.50	TI [%] ≤ 15	EIR ≥ 0.30
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Ecp [lx] ≥ 10.00	Uo ≥ 0.25
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- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: односторонне внизу  
Расстояние между мачтами: 30.000 m  
Наклон консоли (3): 10.0°  
Длина консоли (4): 0.490 m  
Высота световых точек (1): 7.000 m  
Свес световой точки (2): 0.000 m

Streets Inside the courtyard

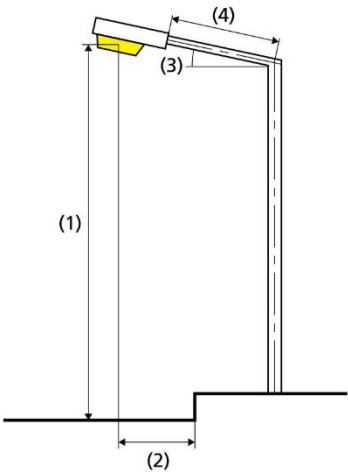


Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1

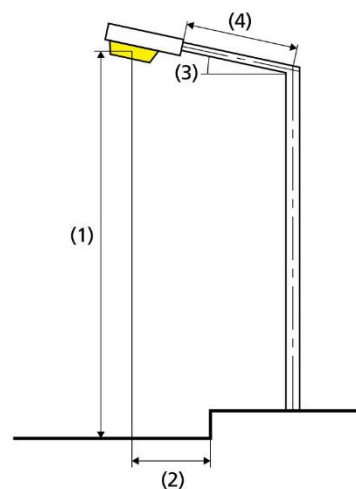
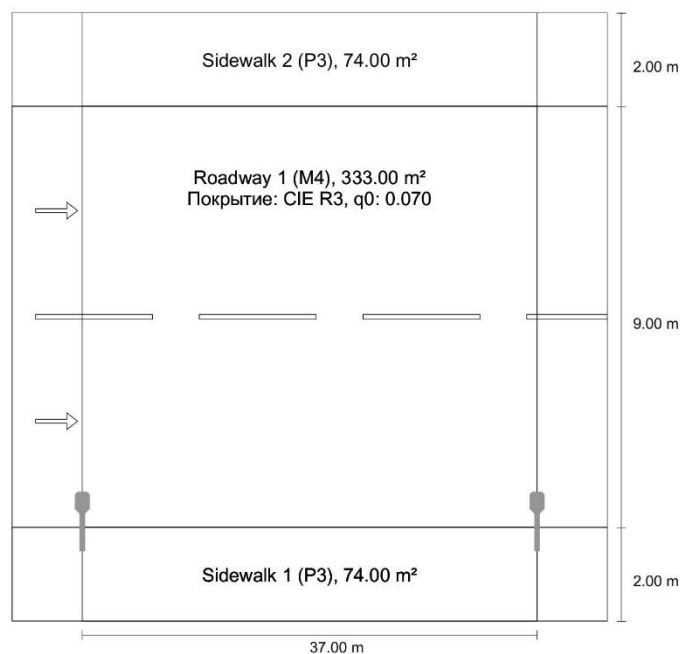
Lcp [cd/m²] ≥ 0.40	Uo ≥ 0.35	UI ≥ 0.40	TI [%] ≤ 20	EIR
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Ecp [lx] ≥ 6.00	Uo ≥ 0.25
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- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: односторонне внизу  
Расстояние между мачтами: 30.000 m  
Наклон консоли (3): 0.0°  
Длина консоли (4): 1.000 m  
Высота световых точек (1): 7.000 m  
Свес световой точки (2): 0.500 m

The road from Nubarashensky bridge to the beginning of 6th street



Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1

Lcp [cd/m²] ≥ 0.80	Uo ≥ 0.40	UI ≥ 0.50	TI [%] ≤ 15	EIR

Roadway 1

Ecp [lx] ≥ 15.00	Uo ≥ 0.25

Лампа:

Световой поток (светильник):

Световой поток (лампа):

Рабочие часы

4000 h:

W/km:

Расположение:

односторонне внизу

Расстояние между мачтами:

37.000 m

Наклон консоли (3):

0.0°

Длина консоли (4):

1.000 m

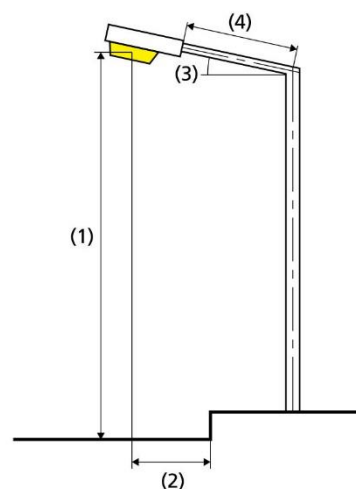
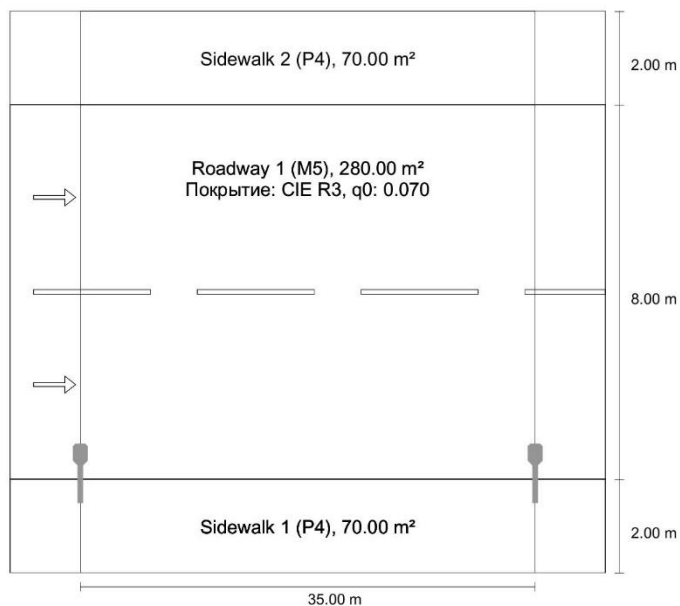
Высота световых точек (1):

12.000 m

Свес световой точки (2):

0.500 m

# Nubarashen Street: 1st, 7th, 8th, 12th, 15th



Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1

Lcp [cd/m²] ≥ 0.60	Uo ≥ 0.40	UI ≥ 0.50	TI [%] ≤ 15	EIR
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Roadway 1

Ecp [lx] ≥ 10.00	Uo ≥ 0.25
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Лампа:

Световой поток (светильник):

Световой поток (лампа):

Рабочие часы

4000 h:

W/km:

Расположение: односторонне внизу

Расстояние между мачтами: 35.000 m

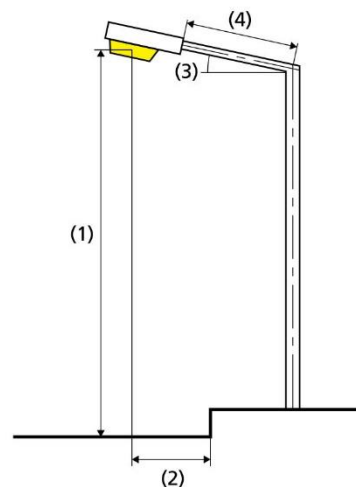
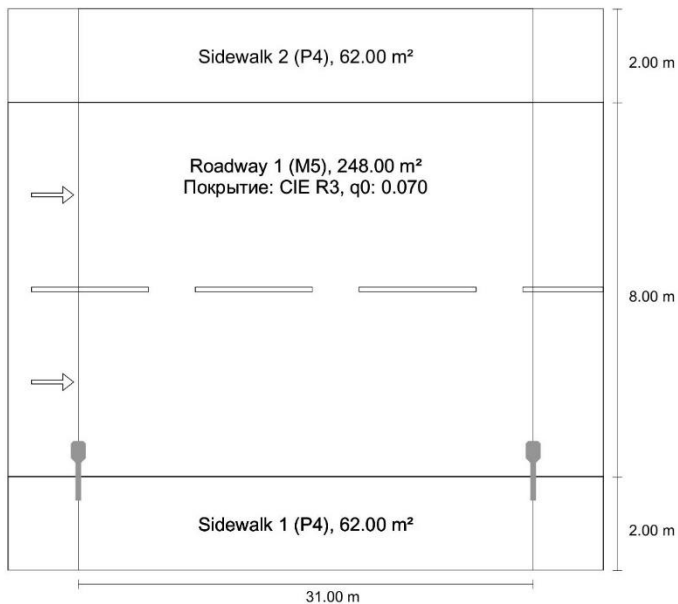
Наклон консоли (3): 0.0°

Длина консоли (4): 1.000 m

Высота световых точек (1): 8.000 m

Свес световой точки (2): 0.500 m

Nubarashen Street: 3rd, 4th, 9th, 13th, 17th, 18th, 20th and Gorodok microdistrict



Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1

Lcp [cd/m²] ≥ 0.60	Uo ≥ 0.40	UI ≥ 0.50	TI [%] ≤ 15	EIR
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Roadway 1

Ecp [lx] ≥ 10.00	Uo ≥ 0.25
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Лампа:

Световой поток (светильник):

Световой поток (лампа):

Рабочие часы

4000 h:

W/km:

Расположение:

односторонне вниз

Расстояние между мачтами:

31.000 m

Наклон консоли (3):

0.0°

Длина консоли (4):

1.000 m

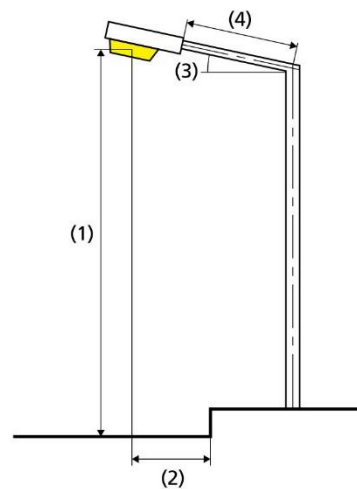
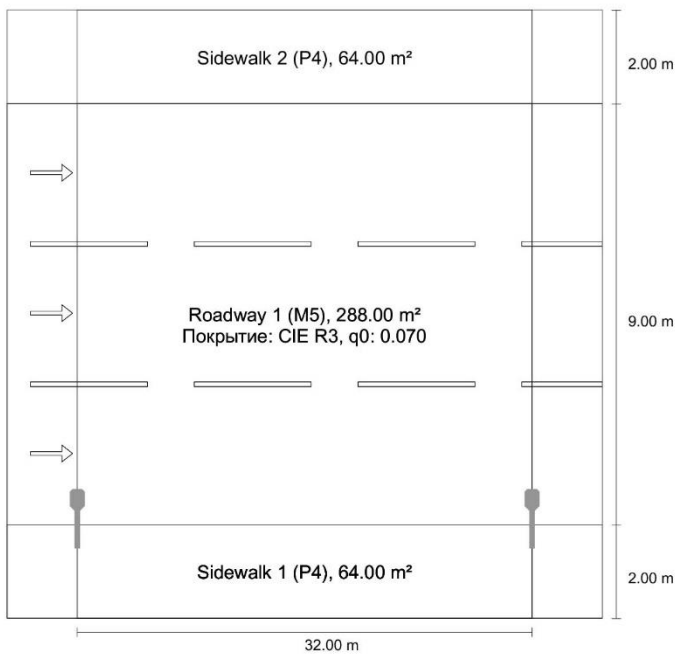
Высота световых точек (1):

7.000 m

Свес световой точки (2):

0.500 m

Nubarashen Streets: 5th, 6ht, 11th



Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1

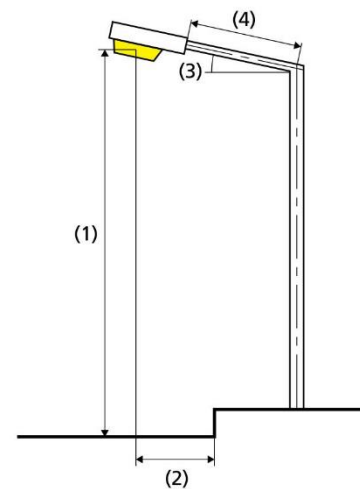
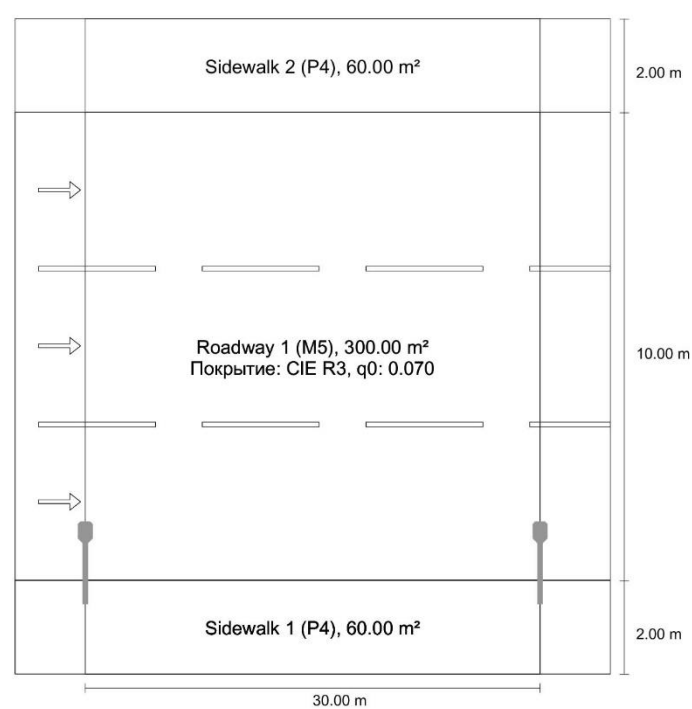
Lcp [cd/m²] ≥ 0.60	Uo ≥ 0.40	UI ≥ 0.50	TI [%] ≤ 15	EIR
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Roadway 1

Ecp [lx] ≥ 10.00	Uo ≥ 0.25
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- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: односторонне внизу  
Расстояние между мачтами: 32.000 m  
Наклон консоли (3): 0.0°  
Длина консоли (4): 1.000 m  
Высота световых точек (1): 8.000 m  
Свес световой точки (2): 0.500 m

Nubarashen 10th street



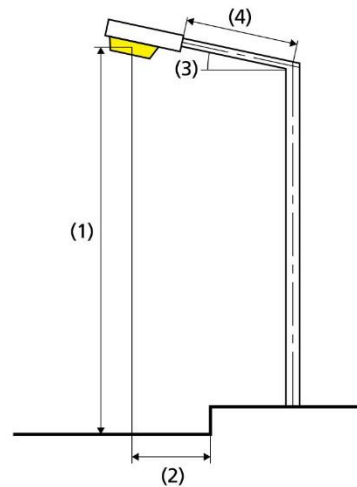
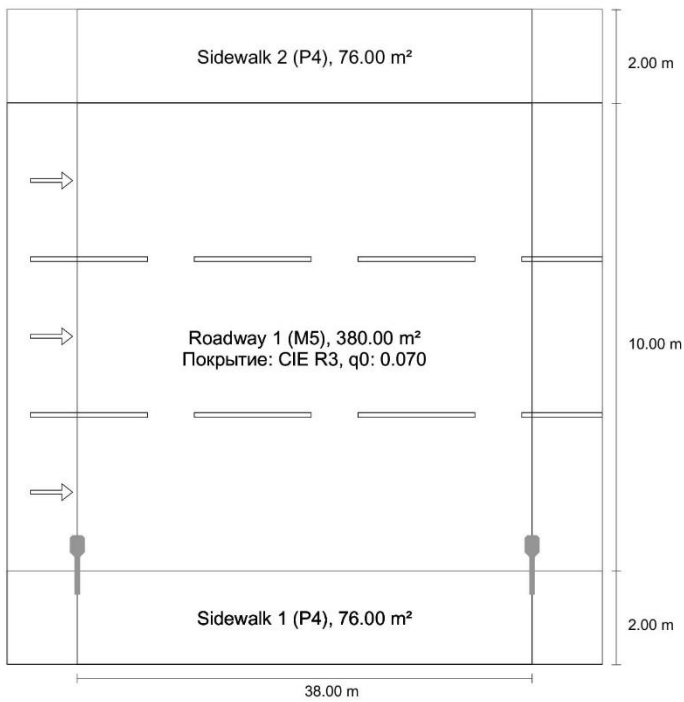
Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1				
Lcp [cd/m²] ≥ 0.60	Uo ≥ 0.40	UI ≥ 0.50	TI [%] ≤ 15	EIR

Roadway 1	
Ecp [lx] ≥ 10.00	Uo ≥ 0.25

- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:
- Расположение:                      односторонне внизу  
Расстояние между мачтами:    30.000 m  
Наклон консоли (3):                0.0°  
Длина консоли (4):                1.500 m  
Высота световых точек (1):      6.500 m  
Свес световой точки (2):        1.000 m

Nubarashen 14th street



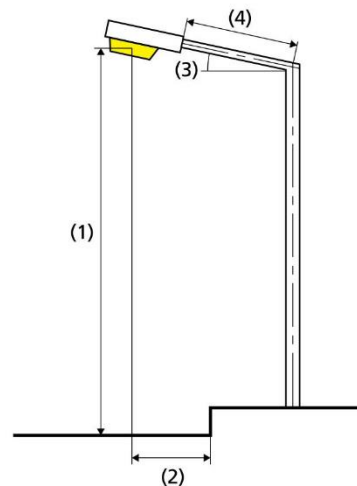
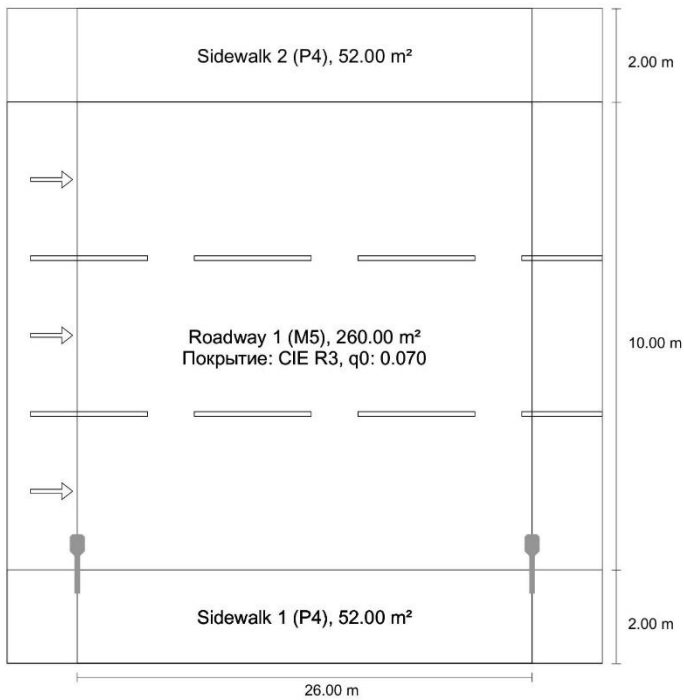
Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1				
Lcp [cd/m²] ≥ 0.60	Uo ≥ 0.40	UI ≥ 0.50	TI [%] ≤ 15	EIR

Roadway 1	
Ecp [lx] ≥ 10.00	Uo ≥ 0.25

Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: односторонне внизу  
Расстояние между мачтами: 38.000 m  
Наклон консоли (3): 0.0°  
Длина консоли (4): 1.000 m  
Высота световых точек (1): 8.500 m  
Свес световой точки (2): 0.500 m

Nubarashen 16th street



Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1

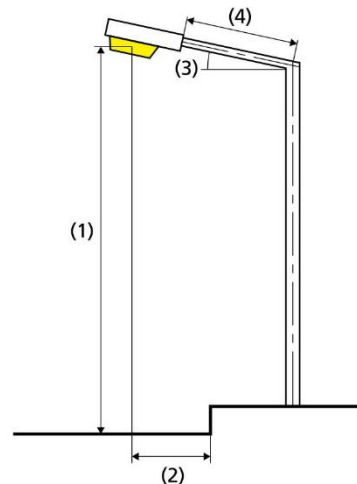
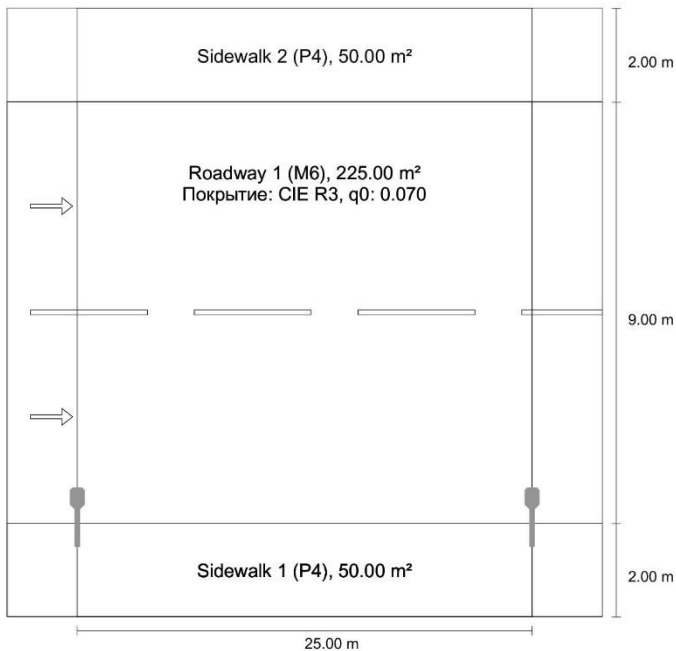
Lcp [cd/m²] ≥ 0.60	Uo ≥ 0.40	UI ≥ 0.50	TI [%] ≤ 15	EIR
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Roadway 1

Ecp [lx] ≥ 10.00	Uo ≥ 0.25
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Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: односторонне внизу  
Расстояние между мачтами: 26.000 m  
Наклон консоли (3): 10.0°  
Длина консоли (4): 0.998 m  
Высота световых точек (1): 7.000 m  
Свес световой точки (2): 0.500 m

Nubarashen courtyard streets



Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1

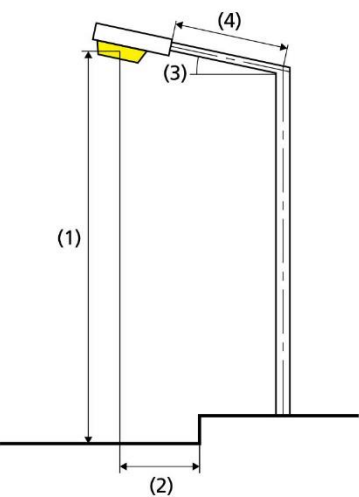
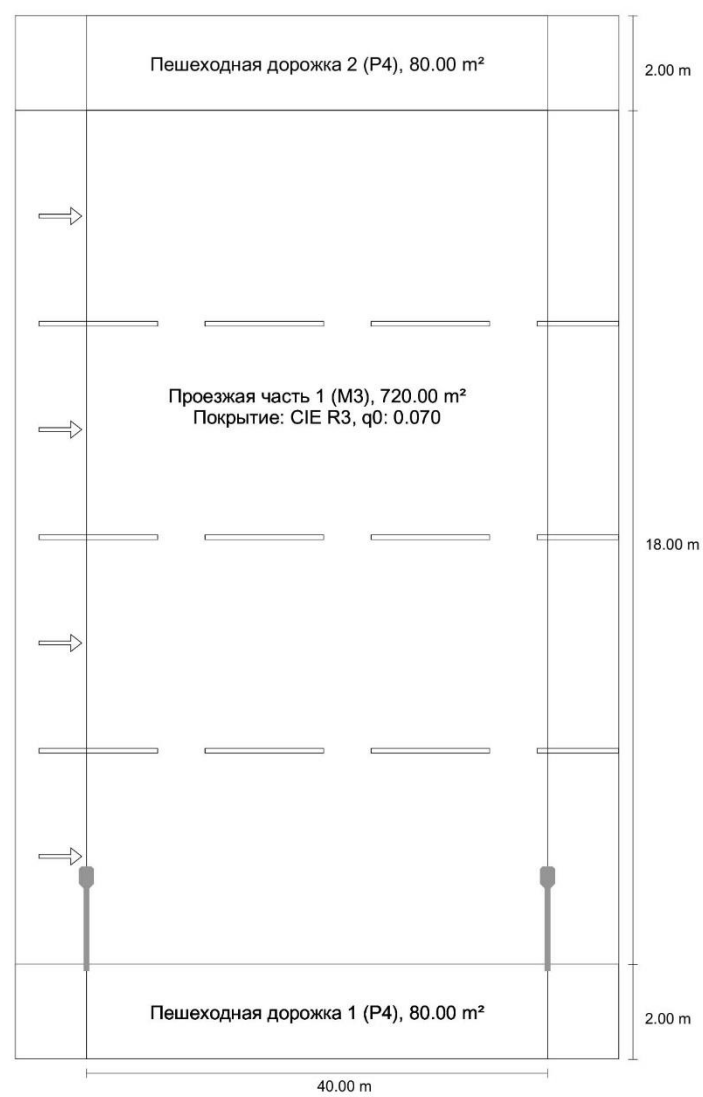
Lcp [cd/m²] ≥ 0.40	Uo ≥ 0.35	UI ≥ 0.40	TI [%] ≤ 20	EIR
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Roadway 1

Ecp [lx] ≥ 6.00	Uo ≥ 0.25
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- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: односторонне внизу  
Расстояние между мачтами: 25.000 m  
Наклон консоли (3): 0.0°  
Длина консоли (4): 1.000 m  
Высота световых точек (1): 7.000 m  
Свес световой точки (2): 0.500 m

Nubarashen road 01



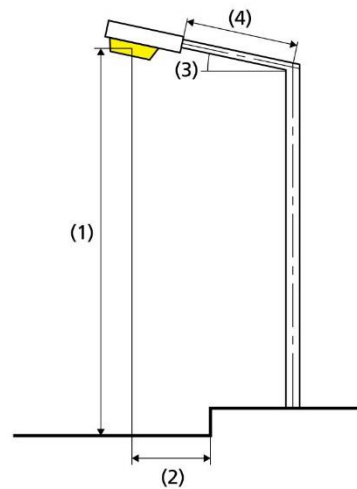
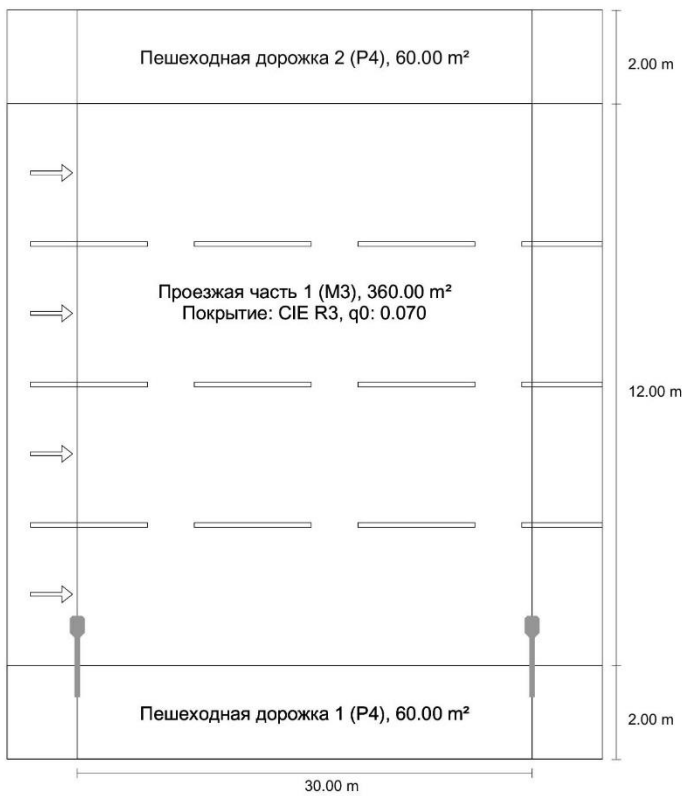
- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:  
Расположение: односторонне внизу  
Расстояние между мачтами: 40.000 m  
Наклон консоли (3): 15.0°  
Длина консоли (4): 2.000 m  
Высота световых точек (1): 11.000 m  
Свес световой точки (2): 1.800 m

Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1				
Lcp [cd/m <sup>2</sup> ] ≥ 1.00	Uo ≥ 0.40	UI ≥ 0.60	TI [%] ≤ 15	EIR

Roadway 1	
Ecp [lx] ≥ 15.00	Uo ≥ 0.40

Nubarashen road 02



- Лампа:  
Световой поток (светильник):  
Световой поток (лампа):  
Рабочие часы  
4000 h:  
W/km:
- Расположение:                      односторонне внизу  
Расстояние между мачтами:    30.000 m  
Наклон консоли (3):                15.0°  
Длина консоли (4):                1.500 m  
Высота световых точек (1):      7.000 m  
Свес световой точки (2):        0.800 m

Результаты для полей оценки  
Коэффициент эксплуатации: 0.80

Roadway 1

Lcp [cd/m²] ≥ 1.00	Uo ≥ 0.40	UI ≥ 0.60	TI [%] ≤ 15	EIR
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Roadway 1

Ecp [lx] ≥ 10.00	Uo ≥ 0.40
✓ 23.03	✓ 0.40

##	Description	Model of luminaire	Quantity	Latest Delivery Date	Unit Price, USD	Total Price per Item
1	Halabyan section 01		95			
2	Halabyan section 02		26			
3	Halabyan section 03		17			
4	Kievyan section 01		70			
5	Kievyan section 02		4			
6	Davidashen bridge 01		76			
7	Davidashen Bridge connection 01		6			
8	Part of Vagarshyan street 01		13			
9	Sasna Tsrer 01		47			
10	Sasna Tsrer Eghvard road connection 01		60			
11	Anastas Mikoyan 01		143			
12	Anastas Mikoyan extension 01		14			
13	Tigran Petrosyan 01		76			
14	Pirumyan 01		22			
15	T.Petrosyan-Yeghvard road connection 01		39			
16	Aghababyan 01		19			
17	Aghababyan 02		39			
18	Aghababyan 03		63			
19	Yeghvard road to ministry of emergency 01		7			
20	Iosifyan street 01		34			
21	Melkumov street 01		62			
22	Davidashen village roads 01		449			
23	Davidashen courtyard streets 01		350			
24	Road from Nubarashensky bridge to the beginning of 6th street 01		24			
25	Nubarashen Street 1st 01		17			
26	Nubarashen Street 3rd 01		16			
27	Nubarashen Street 4th 01		28			
28	Nubarashen Street 5th 01		20			
29	Nubarashen Street 6th 01		34			
30	Nubarashen Street 7th 01		26			
31	Nubarashen Street 8th 01		14			
32	Nubarashen Street 9th 01		48			
33	Nubarashen Street 10th 01		6			
34	Nubarashen Street 11th 01		58			
35	Nubarashen Street 12th 01		5			
36	Nubarashen Street 13th 01		18			
37	Nubarashen Street 14th 01		8			
38	Nubarashen Street 15th 01		38			
39	Nubarashen Street 16th 01		6			
40	Nubarashen Street 17th 01		19			
41	Nubarashen Street 18th 01		6			
42	Nubarashen Street 20th 01		13			
43	Nubarashen Street Gorodok microdistrict 01		12			
44	Nubarashen courtyard streets 01		87			
45	Nubarashen road 01		22			
46	Nubarashen road 02		139			
		<b>Total Prices of Goods</b>				
		Add : Cost of Transportation				
		Add : Cost of Insurance				
		Add : Other Charges (pls. specify)				

		<b>Total Final and All-Inclusive Price Quotation</b>	
--	--	--	--

##	Description	Model of luminaire	Quantity	Latest Delivery Date	Unit Price, USD	Total Price per Item
1	Halabyan section 01		95			
2	Halabyan section 02		26			
3	Halabyan section 03		17			
4	Kievyan sectiton 01		70			
5	Kievyan sectiton 02		4			
6	Davidashen bridge 01		76			
7	Davidashen Bridge connection 01		6			
8	Part of Vagarshyan street 01		13			
9	Sasna Tsrer 01		47			
10	Sasna Tsrer Eghvard road connection 01		60			
11	Anastas Mikoyan 01		143			
12	Anastas Mikoyan extension 01		14			
13	Tigran Petrosyan 01		76			
14	Pirumyan 01		22			
15	T.Petrosyan-Yeghvard road connection 01		39			
16	Aghababyan 01		19			
17	Aghababyan 02		39			
18	Aghababyan 03		63			
19	Yeghvard road to ministry of emergency 01		7			
20	Iosifyan street 01		34			
21	Melkumov street 01		62			
22	Davidashen village roads 01		449			
23	Davidashen courtyard streets 01		350			
24	Road from Nubarashensky bridge to the beginning of 6th street 01		24			
25	Nubarashen Street 1st 01		17			
26	Nubarashen Street 3rd 01		16			
27	Nubarashen Street 4th 01		28			
28	Nubarashen Street 5th 01		20			
29	Nubarashen Street 6th 01		34			
30	Nubarashen Street 7th 01		26			
31	Nubarashen Street 8th 01		14			
32	Nubarashen Street 9th 01		48			
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39	Nubarashen Street 16th 01		6			
40	Nubarashen Street 17th 01		19			
41	Nubarashen Street 18th 01		6			
42	Nubarashen Street 20th 01		13			
43	Nubarashen Street Gorodok microdistrict 01		12			
44	Nubarashen courtyard streets 01		87			
45	Nubarashen road 01		22			
46	Nubarashen road 02		139			

		<b>Total Prices of Goods</b>	
		Add : Cost of Transportation	
		Add : Cost of Insurance	
		Add : Other Charges (pls. specify)	
		<b>Total Final and All-Inclusive Price Quotation</b>	

##	Description	Model of luminaire	Quantity	Latest Delivery Date	Unit Price, USD	Total Price per Item
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44	Nubarashen courtyard streets 01		87			
45	Nubarahen road 01		22			
46	Nubarahen road 02		139			
		<b>Total Prices of Goods</b>				
		Add : Cost of Transportation				
		Add : Cost of Insurance				
		Add : Other Charges (pls. specify)				
		<b>Total Final and All-Inclusive Price Quotation</b>				

## Section 5b: Other Related Requirements

Further to the Schedule of Requirements in the preceding Table, Bidders are requested to take note of the following additional requirements, conditions, and related services pertaining to the fulfillment of the requirements: *[check the condition that applies to this ITB, delete the entire row if condition is not applicable to the goods being procured]*

Delivery Term [INCOTERMS 2010] (Pls. link this to price schedule)	DAP Yerevan, Armenia
Exact Address of Delivery/Installation Location	Yerevan, Armenia
Mode of Transport Preferred	Air Land
UNDP Preferred Freight Forwarder, if any <sup>2</sup>	N/A
Distribution of shipping documents (if using freight forwarder)	<a href="#">Click here to enter text.</a>
Customs, if required, clearing shall be done by:	UNDP
Ex-factory / Pre-shipment inspection	N/A
Inspection upon delivery	As per Technical Specifications and Schedule of Requirements
Installation Requirements	As per Technical Specifications and Schedule of Requirements
Testing Requirements	As per Technical Specifications and Schedule of Requirements
Scope of Training on Operation and Maintenance	As per Technical Specifications and Schedule of Requirements
Commissioning	As per Technical Specifications and Schedule of Requirements
Warranty Period	As per Technical Specifications and Schedule of Requirements
Local Service Support	As per Technical Specifications and Schedule of Requirements
Technical Support Requirements	As per Technical Specifications and Schedule of Requirements

<sup>2</sup>A factor of the Incoterms stipulated in the ITB. The use of a UNDP preferred freight forwarder may be considered for purposes of ensuring forwarder's familiarity with procedures and processing of documentary requirements applicable to UNDP when clearing with customs authority of the country of destination.

After-sale services Requirements	<input checked="" type="checkbox"/> Warranty on Parts and Labor for minimum period of 5 years <input checked="" type="checkbox"/> Technical Support <input type="checkbox"/> Provision of Service Unit when pulled out for maintenance /repair <input type="checkbox"/> Others <i>[pls. specify]</i>
Payment Terms <i>(max. advanced payment is 20% as per UNDP policy)</i>	Choose an item.
Conditions for Release of Payment	<input type="checkbox"/> Pre-shipment inspection <input type="checkbox"/> Inspection upon arrival at destination <input checked="" type="checkbox"/> Installation <input checked="" type="checkbox"/> Testing <input type="checkbox"/> Training on Operation and Maintenance <input type="checkbox"/> Others <i>[pls. specify]</i> <input checked="" type="checkbox"/> Written Acceptance of Goods based on full compliance with ITB requirements
All documentations, including catalogues, instructions and operating manuals, shall be in this language	Choose an item.

## Section 6: Returnable Bidding Forms / Checklist

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This form serves as a checklist for preparation of your Bid. Please complete the Returnable Bidding Forms in accordance with the instructions in the forms and return them as part of your Bid submission. No alteration to format of forms shall be permitted and no substitution shall be accepted.

Before submitting your Bid, please ensure compliance with the Bid Submission instructions of the BDS 22.

### Technical Bid:

<b>Have you duly completed all the Returnable Bidding Forms?</b>	
▪ Form A: Bid Submission Form	<input type="checkbox"/>
▪ Form B: Bidder Information Form	<input type="checkbox"/>
▪ Form C: Joint Venture/Consortium/ Association Information Form	<input type="checkbox"/>
▪ Form D: Qualification Form	<input type="checkbox"/>
▪ Form E: Format of Technical Bid/Bill of Quantities	<input type="checkbox"/>
▪ Form G: Form of Bid Security	
▪ [Add other forms as necessary]	<input type="checkbox"/>
<b>Have you provided the required documents to establish compliance with the evaluation criteria in Section 4?</b>	<input type="checkbox"/>

### Price Schedule:

▪ Form F: Price Schedule Form	<input type="checkbox"/>
-------------------------------	--------------------------

## Form A: Bid Submission Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

We, the undersigned, offer to supply the goods and related services required for [Insert Title of goods and services] in accordance with your Invitation to Bid No. [Insert ITB Reference Number] and our Bid. We hereby submit our Bid, which includes this Technical Bid and Price Schedule.

Our attached Price Schedule is for the sum of [Insert amount in words and figures and indicate currency].

We hereby declare that our firm, its affiliates or subsidiaries or employees, including any JV/Consortium /Association members or subcontractors or suppliers for any part of the contract:

- a) is not under procurement prohibition by the United Nations, including but not limited to prohibitions derived from the Compendium of United Nations Security Council Sanctions Lists;
- b) have not been suspended, debarred, sanctioned or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization;
- c) have no conflict of interest in accordance with Instruction to Bidders Clause 4;
- d) do not employ, or anticipate employing, any person(s) who is, or has been a UN staff member within the last year, if said UN staff member has or had prior professional dealings with our firm in his/her capacity as UN staff member within the last three years of service with the UN (in accordance with UN post-employment restrictions published in ST/SGB/2006/15);
- e) have not declared bankruptcy, are not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against them that could impair their operations in the foreseeable future;
- f) undertake not to engage in proscribed practices, including but not limited to corruption, fraud, coercion, collusion, obstruction, or any other unethical practice, with the UN or any other party, and to conduct business in a manner that averts any financial, operational, reputational or other undue risk to the UN and we embrace the principles of the United Nations Supplier Code of Conduct and adhere to the principles of the United Nations Global Compact.

We declare that all the information and statements made in this Bid are true and we accept that any misinterpretation or misrepresentation contained in this Bid may lead to our disqualification and/or sanctioning by the UNDP.

We offer to supply the goods and related services in conformity with the Bidding documents, including the UNDP General Conditions of Contract and in accordance with the Schedule of Requirements and Technical Specifications.

Our Bid shall be valid and remain binding upon us for the period specified in the Bid Data Sheet.

We understand and recognize that you are not bound to accept any Bid you receive.

I, the undersigned, certify that I am duly authorized by [Insert Name of Bidder] to sign this Bid and bind it should UNDP accept this Bid.

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

*[Stamp with official stamp of the Bidder]*

## Form B: Bidder Information Form

<b>Legal name of Bidder</b>	[Complete]
<b>Legal address</b>	[Complete]
<b>Year of registration</b>	[Complete]
<b>Bidder's Authorized Representative Information</b>	Name and Title: [Complete] Telephone numbers: [Complete] Email: [Complete]
<b>Are you a UNGM registered vendor?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No    If yes, [insert UGNM vendor number]
<b>Are you a UNDP vendor?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No    If yes, [insert UNDP vendor number]
<b>Countries of operation</b>	[Complete]
<b>No. of full-time employees</b>	[Complete]
<b>Quality Assurance Certification (e.g. ISO 9000 or Equivalent)</b> <i>(If yes, provide a Copy of the valid Certificate):</i>	[Complete]
<b>Does your Company hold any accreditation such as ISO 14001 or ISO 14064 or equivalent related to the environment?</b> <i>(If yes, provide a Copy of the valid Certificate):</i>	[Complete]
<b>Does your Company have a written Statement of its Environmental Policy?</b> <i>(If yes, provide a Copy)</i>	[Complete]
<b>Does your organization demonstrates significant commitment to sustainability through some other means, for example internal company policy documents on women empowerment, renewable energies or membership of trade institutions promoting such issues</b>	[Complete]
<b>Is your company a member of the UN Global Compact</b>	[Complete]
<b>Contact person that UNDP may</b>	Name and Title: [Complete]

<b>contact for requests for clarifications during Bid evaluation</b>	Telephone numbers: [Complete] Email: [Complete]
<b>Please attach the following documents:</b>	<ul style="list-style-type: none"> <li>▪ Company Profile, which should <u>not</u> exceed fifteen (15) pages, including printed brochures and product catalogues relevant to the goods and/or services being procured</li> <li>▪ Certificate of Incorporation/ Business Registration</li> <li>▪ Tax Registration/Payment Certificate issued by the Internal Revenue Authority evidencing that the Bidder is updated with its tax payment obligations, or Certificate of Tax exemption, if any such privilege is enjoyed by the Bidder</li> <li>▪ Trade name registration papers, if applicable</li> <li>▪ Quality Certificate (e.g., ISO, etc.) and/or other similar certificates, accreditations, awards and citations received by the Bidder, if any</li> <li>▪ Environmental Compliance Certificates, Accreditations, Markings/Labels, and other evidences of the Bidder's practices which contributes to the ecological sustainability and reduction of adverse environmental impact (e.g., use of non-toxic substances, recycled raw materials, energy-efficient equipment, reduced carbon emission, etc.), either in its business practices or in the goods it manufactures</li> <li>▪ Patent Registration Certificates, if any of technologies submitted in the Bid is patented by the Bidder</li> <li>▪ Certification or authorization to act as Agent on behalf of the Manufacturer, or Power of Attorney.</li> <li>▪ Export Licenses, if applicable</li> <li>▪ Local Government permit to locate and operate in assignment location, if applicable</li> <li>▪ Official Letter of Appointment as local representative, if Bidder is submitting a Bid on behalf of an entity located outside the country</li> </ul>

## Form C: Joint Venture/Consortium/Association Information Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

To be completed and returned with your Bid if the Bid is submitted as a Joint Venture/Consortium/Association.

No	Name of Partner and contact information <i>(address, telephone numbers, fax numbers, e-mail address)</i>	Proposed proportion of responsibilities (in %) and type of goods and/or services to be performed
1	[Complete]	[Complete]
2	[Complete]	[Complete]
3	[Complete]	[Complete]

<b>Name of leading partner</b> (with authority to bind the JV, Consortium, Association during the ITB process and, in the event a Contract is awarded, during contract execution)	[Complete]
--	------------

We have attached a copy of the below referenced document signed by every partner, which details the likely legal structure of and the confirmation of joint and severable liability of the members of the said joint venture:

☐ Letter of intent to form a joint venture      **OR**      ☐ JV/Consortium/Association agreement

We hereby confirm that if the contract is awarded, all parties of the Joint Venture/Consortium/Association shall be jointly and severally liable to UNDP for the fulfillment of the provisions of the Contract.

Name of partner: \_\_\_\_\_ Name of partner: \_\_\_\_\_

Signature: \_\_\_\_\_ Signature: \_\_\_\_\_

Date: \_\_\_\_\_ Date: \_\_\_\_\_

Name of partner: \_\_\_\_\_ Name of partner: \_\_\_\_\_

Signature: \_\_\_\_\_ Signature: \_\_\_\_\_

Date: \_\_\_\_\_ Date: \_\_\_\_\_

## Form D: Eligibility and Qualification Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

If JV/Consortium/Association, to be completed by each partner.

### History of Non- Performing Contracts

<input type="checkbox"/> Non-performing contracts did not occur during the last 3 years			
<input type="checkbox"/> Contract(s) not performed in the last 3 years			
Year	Non- performed portion of contract	Contract Identification	Total Contract Amount (current value in US\$)
		Name of Client: Address of Client: Reason(s) for non-performance:	

### Litigation History (including pending litigation)

<input type="checkbox"/> No litigation history for the last 3 years			
<input type="checkbox"/> Litigation History as indicated below			
Year of dispute	Amount in dispute (in US\$)	Contract Identification	Total Contract Amount (current value in US\$)
		Name of Client: Address of Client: Matter in dispute: Party who initiated the dispute: Status of dispute: Party awarded if resolved:	

### Previous Relevant Experience

Please list only previous similar assignments successfully completed in the last 3 years.

List only those assignments for which the Bidder was legally contracted or sub-contracted by the Client as a company or was one of the Consortium/JV partners. Assignments completed by the Bidder's individual experts working privately or through other firms cannot be claimed as the relevant experience of the Bidder, or that of the Bidder's partners or sub-consultants, but can be claimed by the Experts themselves in their CVs. The Bidder should be prepared to substantiate the claimed experience by presenting copies of relevant documents and references if so requested by UNDP.

Project name & Country of Assignment	Client & Reference Contact Details	Contract Value	Period of activity and status	Types of activities undertaken

Bidders may also attach their own Project Data Sheets with more details for assignments above.

☐ Attached are the Statements of Satisfactory Performance from the Top 3 (three) Clients or more.

## Financial Standing

Annual Turnover for the last 3 years	Year	USD
	Year	USD
	Year	USD
Latest Credit Rating (if any), indicate the source		

Financial information (in US\$ equivalent)	Historic information for the last 3 years		
	Year 1	Year 2	Year 3
	<i>Information from Balance Sheet</i>		
Total Assets (TA)			
Total Liabilities (TL)			
Current Assets (CA)			
Current Liabilities (CL)			
	<i>Information from Income Statement</i>		
Total / Gross Revenue (TR)			
Profits Before Taxes (PBT)			
Net Profit			
Current Ratio			

☐ Attached are copies of the audited financial statements (balance sheets, including all related notes, and income statements) for the years required above complying with the following condition:

- Must reflect the financial situation of the Bidder or party to a JV, and not sister or parent companies;
  - Historic financial statements must be audited by a certified public accountant;
  - Historic financial statements must correspond to accounting periods already completed and audited.
- No statements for partial periods shall be accepted.

## Form E: Format of Technical Bid

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

The Bidder's Bid should be organized to follow this format of the Technical Bid. Where the bidder is presented with a requirement or asked to use a specific approach, the bidder must not only state its acceptance, but also describe how it intends to comply with the requirements. Where a descriptive response is requested, failure to provide the same will be viewed as non-responsive.

### SECTION 1: Bidder's qualification, capacity and expertise

- 1.1 General organizational capability which is likely to affect implementation: management structure, financial stability and project financing capacity, project management controls, extent to which any work would be subcontracted (if so, provide details).
- 1.2 Relevance of specialized knowledge and experience on similar engagements done in the region/country.
- 1.3 Quality assurance procedures and risk mitigation measures.
- 1.4 Organization's commitment to sustainability.

### SECTION 2: Scope of Supply, Technical Specifications, and Related Services

This section should demonstrate the Bidder's responsiveness to the specification by identifying the specific components proposed, addressing the requirements, as specified, point by point; providing a detailed description of the essential performance characteristics proposed; and demonstrating how the proposed bid meets or exceeds the requirements/specifications. All important aspects should be addressed in sufficient detail.

- 2.1 A detailed description of how the Bidder will deliver the required goods and services, keeping in mind the appropriateness to local conditions and project environment. Details how the different service elements shall be organized, controlled and delivered.
- 2.2 Explain whether any work would be subcontracted, to whom, how much percentage of the requirements, the rationale for such, and the roles of the proposed sub-contractors and how everyone will function as a team.
- 2.3 The bid shall also include details of the Bidder's internal technical and quality assurance review mechanisms.
- 2.4 Implementation plan including a Gantt Chart or Project Schedule indicating the detailed sequence of activities that will be undertaken and their corresponding timing.
- 2.5 Demonstrate how you plan to integrate sustainability measures in the execution of the contract.

Goods and services to be Supplied and Technical Specifications	Your response				
	Compliance with technical specifications		Delivery Date <i>(confirm that you comply or indicate your delivery date)</i>	Quality Certificate/Export Licenses, etc. <i>(indicate all that apply and attach)</i>	Comments
	Yes, we comply	No, we cannot comply <i>(indicate discrepancies)</i>			

Other Related services and requirements <i>(based on the information provided in Section 5b)</i>	Compliance with requirements		Details or comments on the related requirements
	Yes, we comply	No, we cannot comply <i>(indicate discrepancies)</i>	
e.g. Delivery Term			
Warranty			
Local Service Support			

### SECTION 3: Management Structure and Key Personnel

- 3.1 Describe the overall management approach toward planning and implementing the project. Include an organization chart for the management of the project describing the relationship of key positions and designations. Provide a spreadsheet to show the activities of each personnel and the time allocated for his/her involvement.
- 3.2 Provide CVs for key personnel that will be provided to support the implementation of this project using the format below. CVs should demonstrate qualifications in areas relevant to the scope of goods and/or services.

### Format for CV of Proposed Key Personnel

<b>Name of Personnel</b>	[Insert]
<b>Position for this assignment</b>	[Insert]
<b>Nationality</b>	[Insert]
<b>Language proficiency</b>	[Insert]
<b>Education/Qualifications</b>	<i>[Summarize college/university and other specialized education of personnel member, giving names of schools, dates attended, and degrees/qualifications obtained.]</i>
	[Insert]
	<i>[Provide details of professional certifications relevant to the scope of goods and/or services]</i>

<b>Professional certifications</b>	<ul style="list-style-type: none"> <li>▪ Name of institution: [Insert]</li> <li>▪ Date of certification: [Insert]</li> </ul>
<b>Employment Record/ Experience</b>	<p><i>[List all positions held by personnel (starting with present position, list in reverse order), giving dates, names of employing organization, title of position held and location of employment. For experience in last five years, detail the type of activities performed, degree of responsibilities, location of assignments and any other information or professional experience considered pertinent for this assignment.]</i></p> <p>[Insert]</p>
<b>References</b>	<p><i>[Provide names, addresses, phone and email contact information for two (2) references]</i></p> <p>Reference 1: [Insert]</p> <p>Reference 2: [Insert]</p>

I, the undersigned, certify that to the best of my knowledge and belief, the data provided above correctly describes my qualifications, my experiences, and other relevant information about myself.

\_\_\_\_\_  
Signature of Personnel

\_\_\_\_\_  
Date (Day/Month/Year)

## FORM F: Price Schedule Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

The Bidder is required to prepare the Price Schedule following the below format. The Price Schedule must include a detailed cost breakdown of all goods and related services to be provided. Separate figures must be provided for each functional grouping or category, if any.

Any estimates for cost-reimbursable items, such as travel of experts and out-of-pocket expenses, should be listed separately.

**Currency of the Bid:** [Insert Currency]

### Price Schedule

##	Description	Model of luminaire	Quantity	Latest Delivery Date	Unit Price, USD	Total Price per Item
1	Halabyan section 01		95			
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43	Nubarashen Street Gorodok microdistrict 01		12			
44	Nubarashen courtyard streets 01		87			
45	Nubarashen road 01		22			
46	Nubarashen road 02		139			
FCA charges, if any						
Bid Subtotal FCA (Incoterms 2010) (please state FCA International Airport):						
Transportation/Delivery Cost						
Bid Total DDP / DAT / DAP, off-loaded/cleared, Place, Country (Incoterms 2010)						
Installation						
Training						
Warranty						
After Sales						
<b>GRAND TOTAL</b>						

Name of Bidder: \_\_\_\_\_

Authorised signature: \_\_\_\_\_

Name of authorised signatory: \_\_\_\_\_

Functional Title: \_\_\_\_\_

## FORM G: Form of Bid Security

**Bid Security must be issued using the official letterhead of the Issuing Bank.  
Except for indicated fields, no changes may be made on this template.**

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To: UNDP  
*[Insert contact information as provided in Data Sheet]*

WHEREAS [Name and address of Bidder] (hereinafter called "the Bidder") has submitted a Bid to UNDP dated [Click here to enter a date.](#) to execute goods and/or services [Insert Title of Goods and/or Services] (hereinafter called "the Bid"):

AND WHEREAS it has been stipulated by you that the Bidder shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security if the Bidder:

- a) Fails to sign the Contract after UNDP has awarded it;
- b) Withdraws its Bid after the date of the opening of the Bids;
- c) Fails to comply with UNDP's variation of requirement, as per ITB instructions; or
- d) Fails to furnish Performance Security, insurances, or other documents that UNDP may require as a condition to rendering the contract effective.

AND WHEREAS we have agreed to give the Bidder such Bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Bidder, up to a total of *[amount of guarantee] [in words and numbers]*, such sum being payable in the types and proportions of currencies in which the Price Bid is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of *[amount of guarantee as aforesaid]* without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

This guarantee shall be valid up to 30 days after the final date of validity of bids.

### SIGNATURE AND SEAL OF THE GUARANTOR BANK

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Name of Bank \_\_\_\_\_

Address \_\_\_\_\_

*[Stamp with official stamp of the Bank]*