

**CITY OF MYRTLE BEACH
PURCHASING OFFICE**

**REQUEST FOR BEST VALUE PROPOSAL (RFP)
17-R0066**

January 31, 2017

Solicitation Requirements

FOR: Exhibit Hall Lighting Project

Proposals must be received prior to 2:00PM Tuesday, February 28, 2017

There will be a mandatory pre-proposal conference at the Myrtle Beach Convention Center on Tuesday, February 14, 2017 at 10:00am. Meeting place in the front lobby next to the escalators. You will not be able to bid if you are more than 5 minutes late.

Mail or deliver Proposals to: City of Myrtle Beach Purchasing Office
3231 Mr. Joe White Avenue
Myrtle Beach, SC 29577

Direct questions to: Tina Causey, Purchasing Buyer (843) 918-2184.

NO PROPOSALS WILL BE ACCEPTED UNLESS SUBMITTED ON THE FORMS FURNISHED HEREIN. All proposals must be sealed, marked and delivered in accordance with these instructions.

Tabulations will be available on-line at www.cityofmyrtlebeach.com/purchasing.html. If more convenient, tabulations are available for pick-up after final award. **No Tabulations will be faxed.**

Name and Address of Proposer submitting this Proposal: (Proposer to complete the following information)

Name of Proposer: _____

Address: _____

City, State, Zip Code: _____

Phone Number: _____ **Email :** _____

***** Proposal Number and Due Date must be shown on the outside of the sealed envelope*****

Please note: Signature Required on Page 9.

**CITY OF MYRTLE BEACH
GENERAL INSTRUCTIONS
MUST BE SIGNED AS PART OF PROPOSAL PACKAGE**

The instructions herein contained are given for the purpose of guidance in properly preparing, an applicable proposal. These directions have equal weight and force with the specifications and strict compliance is required with all of the provisions. Unless otherwise stated in the special instructions of the proposal, the following general instructions will apply.

1. **Proposals that are incomplete, unsigned, improperly signed or sealed, conditional, illegible, obscure, contain arithmetical errors, erasures, alterations or irregularities of any kind, will be declared non-responsive.**
2. All Offerors must be prepared to present suitable evidence of similar work recently completed or goods supplied. Products are to be brand name or equal unless otherwise specified. If submitting an equal product, supporting documents must be provided with proposal.
3. Only written information from the Procurement Manager is binding; therefore no verbal instructions or verbal information from any other source will be binding on the City. The City will not be responsible for any other explanation or interpretation and the decision of the Procurement Manager shall be final and binding upon each Offeror.
4. The written specifications are considered clear and complete. Failure of the Offeror to call attention in writing to any disputes, definitions, discrepancies, inconsistencies or incompleteness before the opening of the proposal in the time and manner set forth herein is a waiver of right to do so upon opening of the proposals.
5. Should the Procurement Manager deem it necessary to alter proposal specifications, those alterations will be made in the form of written addenda that will be mailed to all Offerors. These addenda shall then be considered as part of these specifications.
6. Submission of a proposal will be considered as conclusive evidence of the Offeror's complete examination, understanding and acceptance of the specifications.
7. When brand names or trade names and model numbers followed by the words "or equivalent" or "or other approved equal" are used, it is for the quality, style and features of those brands and models. Proposals on equivalent items of substantially the same quality, style and features are then invited. However, to receive consideration, such equivalent proposals must be accompanied by sufficient descriptive literature and/or specifications to clearly identify the units and provide for competitive evaluation with the brands or models.
8. A Proposal and Signature Document is provided as part of the specifications. This form must be used in submitting a proposal and **all pages of the proposal document must be completely filled out and signed by the Offeror.**
9. Each proposal must be enclosed in a sealed envelope, clearly marked on the outside with information as stated on the cover page and delivered to the Procurement Buyer. If the required information is not clearly stated on the outside of the envelope, the proposal is considered nonresponsive.
10. No proposals may be withdrawn later than 10:30 AM on the day of the proposal opening. No modifications, clarifications or explanations of any proposals will be allowed after the proposal is sealed and delivered to the Purchasing Division, City of Myrtle Beach, 3231 Mr. Joe White Avenue, Myrtle Beach, SC 29577.
11. The City expressly reserves the following rights:
 - A. To reject any and/or all irregularities in the proposals submitted.

GENERAL INSTRUCTIONS *continued*

- B. To reject any and all proposals, or parts thereof, as deemed in the best interest of the City.
 - C. To base awards due with regard on quality of services, experiences, compliance with specifications, and other such factors as may be necessary in the circumstances.
 - D. To make the award to any Offeror who, in the opinion of management, is in the best interest of the City.
 - E. To make award based on negotiations conducted in accordance with this solicitation or on the basis of a best and final offer by the Offeror.
 - F. Only the evaluation factors specified in this solicitation may be used as a basis for award.
12. The General Instructions, Scope of Work and/or Specifications, and the Proposal and Signature Document constitute the proposal packet. By submitting a proposal, Offeror is deemed to have accepted all of the terms and conditions set forth in the proposal packet documents. All proposal packet documents, after completion by the Offeror, must be returned with the proposal in the same order as received by the Offeror.
13. **NO PROPOSAL WILL BE ACCEPTED UNLESS SUBMITTED ON THE FORMS FURNISHED HEREIN.** All proposals must be sealed, marked and delivered in accordance with these instructions. **Proposals are not subject to a formal proposal opening.**
14. Offerors shall make all investigations necessary to thoroughly inform themselves regarding plant and facilities for delivery of material and equipment and/or service to be performed as required by the proposal conditions. No plea of ignorance by the Offeror of conditions that exist or that may hereafter exist as a result of failure or omission on the part of the Offeror to make the necessary examination and investigations, or failure to fulfill in every detail the requirements of the contract documents, will be accepted as a basis for varying the requirements of the City or the compensation.
15. The City of Myrtle Beach pays South Carolina State Sales Tax. The City is exempt from Federal Excise Tax and will issue exemption certificates if required. ALL APPLICABLE TAXES SHOULD BE SHOWN AS SEPARATE LINE ITEMS UNLESS OTHERWISE INDICATED.
16. The CONTRACTOR agrees to pay all taxes and license fees of whatever nature applicable to conduct business and furnish the CITY, if requested, with duplicate receipts or other satisfactory evidence showing the prompt payment of all taxes and fees when referred to and showing that all licenses are in effect.
17. The award will be made within the time specified to the responsible Offeror meeting the specifications and having the lowest possible cost consistent with the quality and service needed for effective use. The following criteria will be used in making this determination:
- A. Superior quality and specification adherence
 - B. Adequate maintenance and service
 - C. Delivery and/or completion time
 - D. Guarantees and warranties
 - E. Company's reputation and financial status
 - F. Past experience and cost with similar or like equipment or service
 - G. Anticipated future cost and experience
 - H. Performance of proponent's equipment by other agencies, plants, and firms
18. In the event the successful Offeror fails or refuses to execute a formal written contract with the City of Myrtle Beach in form and content acceptable to the City, within ten (10) City of

GENERAL INSTRUCTIONS continued

- Myrtle Beach business days after notice of acceptance of the proposal, the proposal may be revoked, and all obligations of the City in connection with the proposal may be canceled.
19. Winning Offeror will be notified within a reasonable time, as judged by the City, after proposal opening and evaluation of proposals.
 20. If required, Offeror shall supply a PROPOSAL BOND of 5% of the total proposal amount. The successful Offeror at its own cost and expense shall furnish, if required, a good and sufficient PERFORMANCE BOND and PAYMENT BOND (payable to the City of Myrtle Beach) in the full amount of this agreement conditioned on the full and faithful performance of the work under this agreement in accordance with the specifications and contract documents. Bonds are required if the contract work is more than \$20,000 in cost for construction and/or improvements. The Performance and Payment Bonds shall be executed by the contractor and a bonding company authorized to do business in the State of South Carolina and approved by the State of South Carolina to issue such performance and payment bonds. Only the forms provided by the City for the Performance and Payment Bonds will be accepted.
 21. No extras or additional work will be allowed or paid for unless such extras or additional work are/is ordered in writing by the Purchasing Division and with the price for such established and agreed upon before such extras are delivered or work is performed.
 22. The City shall have the right, without invalidating the contract, to make additions to or deductions from the items or work covered by the specifications. In case such deductions or additions are made, an equitable price adjustment shall be made between the City and the contractor. Any such adjustments in price shall be made in writing.
 23. The contractor agrees to indemnify and save harmless the City of Myrtle Beach, its representatives, employees and agents, from all claims, demands, actions, suits and liabilities arising from the contractor's own fault or negligence or through the negligence or fault of the manufacturer of goods supplied by the contractor. This obligation shall extend to and include, all litigation costs and reasonable attorney fees incurred by the City in response to such claims, demands, actions or liabilities, provided it is ultimately determined that such claims result from the contractor's or manufacturer's fault or negligence.
 24. The contractor shall not assign or otherwise transfer any of its responsibilities or obligations under the contract to any other person or entity without prior written consent of the City.
 25. When samples are required with a proposal, they must be submitted with the proposal unless approved by the Purchasing Manager or Purchasing Manger's authorized representative.
 26. Samples submitted will become the property of the City. The entire cost of the sample(s) shall be paid for by the Offeror unless previous written arrangements are made with the City.
 27. When Offerors are required to make site visits or attend pre-proposal meetings, all expenses shall be paid for by the Offeror, unless previous written arrangements are made with the City.
 28. Offerors are required to state exactly what they intend to furnish; otherwise, they shall be required to furnish the items as specified.
 29. Offerors will submit, with their proposal, data necessary to evaluate and determine the quality of the item(s) they are proposing.
 30. In the event that materials, supplies, etc. are delivered which do not comply with specifications and have not been approved by the Purchasing Division, the contractor, upon notification, shall immediately remove from the premises any such materials, supplies, etc. and replace them with materials, supplies, etc. in full accordance with the specifications.

GENERAL INSTRUCTIONS *continued*

31. Payments shall be made to the contractor within thirty (30) calendar days of receipt of invoice after inspection by and acceptance of the material, goods and/or service by an authorized representative of the City.
32. It shall be understood that in all cases the terms and conditions, as detailed in the specifications, shall supersede terms and conditions, as detailed in the General Instructions.
33. If this proposal is for the purchase of equipment, the Offeror guarantees that the equipment offered is standard new equipment, latest model or regular stock product, with parts regularly used for the type of equipment offered; also that no attachment or part has been substituted or applied contrary to the manufacturer's recommendations and standard practices.
34. Any deviation from specifications must be noted in detail and submitted in writing with this proposal. Complete specifications should be attached for any substitutions offered, or when amplifications are desirable or necessary. The absence of a specification deviation statement and accompanying specifications will hold the Offeror strictly accountable to the specifications as written herein.
35. The specifications, as listed herein, represent our preference in material; however, we are fully cognizant that no two pieces of comparable material are identical and/or same in size, function, and operation; and some of the specifications will not completely coincide with ours as listed. Please list your exceptions and explanations separately. It is not our intent to write specifications for any project on which only one proponent can submit a proposal.
36. Any changes in specifications, after the purchase order/contract has been awarded, must be with the written consent of the Purchasing Division; otherwise, the responsibility for such changes shall be with the Offeror.
37. Proposal shall include adequate brochures, latest printed specification and advertising literature describing the product(s) offered in such a fashion as to permit ready comparison with the specifications on an item-by-item basis where applicable.
- 38. Unless otherwise stated in the special instructions section of this proposal request, submit one complete Proposal Package using the attached form(s) for proposal price(s).**
- 39. Unless otherwise stated in the special instructions section of this proposal request, deliveries will be accepted during the hours between 9:00 AM and 3:00 PM Monday through Thursday, excluding City holidays. NO FRIDAY DELIVERIES UNLESS PRIOR APPROVAL BY WAREHOUSE PERSONNEL.**
40. The delivery date as stated in the proposal shall be the time required to deliver the complete item(s) after the receipt of the order or award of the contract. Where multiple items appear on a proposal request, the Offeror shall, unless otherwise stated by the City, show delivery date for each item separately. If only a single delivery date is shown, it will be assumed to mean that all items included in the proposal can and will be delivered on or before the specified date. The Offeror certifies that the delivery will be completed in the time the Offeror states, starting at the time the order is placed, provided that the time between the proposal opening and the placing of the order does not exceed the number of days stipulated in the proposal. The right is reserved to reject any proposal on which the delivery time indicated is considered sufficient to delay the operation for which the commodity is intended. Successful Offeror(s) will be responsible for making any and all claims against carriers for missing or damaged items.
41. **Unit pricing will govern over extended prices** unless otherwise stated in special instructions in this proposal request. All prices quoted should be firm. In those cases where

GENERAL INSTRUCTIONS *continued*

a firm proposal cannot be made, consideration will still be given to all Offerors. Also, maximum or ceiling prices should be quoted where possible when proposal contain non-firm prices.

42. Cash discounts, if allowed, should be so stated on the proposal form. Prices must, however, be based upon payment thirty (30) calendar days after delivery.
43. Questions concerning the proposal requirements or specifications should be directed in writing to the Procurement Buyer shown on the front page of the Proposal package. If you need disability-related accommodations, please contact (843) 918-2170.
44. The City may reject a proposal if:
 1. The Offeror misstates or conceals any material fact in the proposal: or if,
 2. The proposal does not strictly conform to the law or requirements of proposal: or if,
 3. The proposal is conditional, except that the proposal may qualify his or her proposal for acceptance by the City on an “**all or none**” basis, or a “**low item**” basis. An “**all or none**” basis proposal must include all items upon which proposals are invited.
45. The City may, however, reject all proposal whenever it is deemed in the best interest of the City to do so, and may reject any part of a proposal unless the proposal has been qualified as provided in statement. The City may also waive any minor informalities or irregularities in any proposal.
46. **Proposal prices are to be Delivered Price (FOB Destination).** Proposal prices must include all delivery costs, including but not limited to, loading and unloading cost(s), transportation charge(s) and fuel surcharge(s). The City will not be responsible for any demurrage charge(s).
47. Invoice(s), certificates of origin, warranties and guarantees must be submitted at the time of delivery of the item(s).
48. If so requested in the proposed documents, a completed Material Safety Data Sheet for the item(s) indicated must be provided with the proposal documents. Failure to submit this form upon request may result in rejection of proposal.
49. Offerors shall comply with all local, state, and federal directives, orders, and laws as applicable to this proposal and subsequent contract(s) including, but not limited to Equal Employment Opportunity (EEO), in compliance with executive Order 11246, Minority Business Enterprise (MBE), and Occupational Safety and Health Act (OSHA), as applicable to this contract and Immigration Bill H4400 which states that every contractor doing business with the City of Myrtle Beach for the physical performance of services with the total value of the contract to be performed in a twelve month period exceeding fifteen thousand dollars (\$15,000.00) must agree to the following:
 1. Register and participate in the federal work authorization program to verify the employment authorization of all new employees; and require agreement from its sub-contractors to do the same; or
 2. To employ only workers who:
 - a. Possess a valid South Carolina Driver’s License or ID issued by the South Carolina Department of Motor Vehicles;
 - b. Are eligible to obtain a South Carolina Driver’s License or ID card in that they meet the requirements.
 - c. Possess a valid Driver’s License or ID card from another state where the requirements are at least as strict as those in South Carolina. The

GENERAL INSTRUCTIONS continued

South Carolina Department of Motor Vehicles will post on its website a list of states where the license requirements are at least as strict as those in South Carolina.

50. If during the term of the contract entered into as a result of this proposal, the cost of material(s) is/are increased through no act on the part of the Contractor other than to comply with any prevailing rise in the market price(s) of material(s) used, it shall be the Contractor's responsibility to notify the City Purchasing Office in writing of the price increase(s) and the effective date of the increase(s). Price(s) shall be increased only to the point of absorbing additional cost(s) of material(s) paid for by the Contractor. At any time during the term of the contract, the City may request that the Contractor provide written documentation from the manufacturer/supplier of the material(s) to substantiate price increase(s). The City reserves the right to accept or reject any price increase(s) and to cancel any and all item(s) under the contract for which price increase(s) is/are considered unacceptable. If during the term of the contract, the cost of material(s) to the Contractor is reduced, then the Contractor shall reduce the contract price(s) and notify the Procurement Buyer in writing.
51. All documents, reports, proposals, submittals, working papers or other material submitted to the City from the Offeror shall become the sole and exclusive property of the City, in the public domain, and are not the property of the Offeror. The Offeror shall not copyright, or cause to be copyrighted, any portion of any of said documents submitted to the City as a result of this solicitation.
52. Protest of Proposal Specifications, Contract Terms and Intent To Award
 - A. Specifications and contract terms shall be made available for inspection and copying. Unless a different deadline is specified in the Request for Proposals, protests of the proposal specifications or contract terms shall be presented to the City in writing within five (5) City of Myrtle Beach business days prior to proposal closing.
 - B. Such protest or request for change shall include the reasons for protest or request, and any proposed changes to specifications or terms.
 - C. Envelopes containing protests of specifications shall be marked and mailed, or hand delivered within five (5) City of Myrtle Beach business days to the Procurement Buyer.
 - D. No protest against award because of the content of proposal specifications or contract terms shall be considered after the deadline established for submitting such protest in paragraph A above.
 - E. Submission of a proposal without the timely submission of protest of specifications or contract terms is deemed a waiver to the right to protest specifications or contract terms.
 - F. A decision by the Procurement Buyer shall be given in writing in each of such cases at least one (1) City of Myrtle Beach business day before the time set for the opening of proposals. A copy of the decision may be obtained at the Procurement Manager's Office. If, in the judgment of the Procurement Manager, the previously mentioned inquiry requires explanation or interpretation, any such explanation or interpretation of said plans, specifications or other contract documents will be made by written addendum duly issued with copies mailed or delivered to each person or firm receiving a set of contract documents.
 - G. The written Purchase Order shall constitute a final decision of the City to award the contract if no written protest is filed with the City within five (5) City of Myrtle

GENERAL INSTRUCTIONS *continued*

Beach business days of the posting of the Bid Tab. If a protest is timely filed, the Purchase Order is a final decision of the City only upon issuance of a written decision denying the protest and affirming the award.

- H. Purchasing Buyer shall notify winning Offeror at which time Bid Tab will be posted on the City of Myrtle Beach website. It is the responsibility of the Offeror to check the website. Any actual Offeror who is adversely affected or aggrieved by the award of the contract to another Offeror on the same solicitation shall have five (5) City of Myrtle Beach business days after the posting of Bid Tab to submit to the City a written protest of the award. The written protest shall specify the grounds upon which the protest is based. The City shall not entertain a protest submitted after the time period established in this rule or such different period as may be provided in the City's Request for Proposals.
 - I. The written protest must include name and contact information of the protestor, solicitation title and number, the grounds upon which the protest is based and relief expected.
- 53. Proposals may be withdrawn on a written request, received from Offerors prior to the proposal closing. Negligence on the part of the Offeror in preparing the proposal creates no right for withdrawal of the proposal after the proposal has been opened.
 - 54. The PROPOSAL response must not contain any erasures or corrections unless the Offeror initials each change.
 - 55. Proposal prices, terms and conditions shall be firm for a period of at least one hundred and twenty (120) calendar days from the deadline for receipt of submittal, or until such time as established in the PROPOSAL. The successful proposal shall not be subject to future price escalation or changes of terms if accepted during the one hundred and twenty (120) day period, or the specified PROPOSAL time. Price decreases or changes in terms by others after the acceptance of a proposal will not be considered.
 - 56. The contractor shall be wholly responsible for the performance of all subcontractors and for their acts and omissions, and those of persons either directly or indirectly employed by the contractor, and the fact that subcontractors are subject to the approval of the City shall not affect the contractor's responsibility in this regard.
 - 57. The contractor shall be wholly responsible for the performance of all subcontractors and for their acts and omissions, and those of persons either directly or indirectly employed by the contractor, and the fact that subcontractors are subject to the approval of the City shall not affect the contractor's responsibility in this regard.
 - 58. The Offeror shall bind every subcontractor to all terms and conditions anywhere contained in the contract documents as far as applicable to the work of such subcontractor so that the subcontractor assumes toward the contractor and toward the work all the obligations and responsibilities that the contract assumes toward the City as to the performance of the subcontractor's portion of the work.
 - 59. The selected Offeror will be required to assume responsibility for coordination, engineering, delivery, installation, and maintenance of all equipment, software and services offered in their proposal, whether they are the manufacturer or producer of them. Further, the City will consider the selected Offeror to be the sole point of contact with regard to contractual matters, including payment of any and all charges resulting from the lease or purchase of the entire service equipment and software configuration, when applicable. Only service and equipment offered by Offerors who have installed similar systems of comparable size will be

General Instructions (continued)

considered. All service and equipment offered will be in current standard production and of the latest design.

60. The selected Offeror shall assign a competent account representative acceptable to the City who will represent the Offeror in providing contracted services to the City. If the account representative is removed by the Offeror, the new representative must be acceptable to the City.
61. If any doubt or difference of opinion arises between the City and the Offeror as to the interpretation of this RFP, the decision of the City will be final and binding upon all parties.
62. The City reserves the right to obtain clarification on any point in the Offeror's proposal. The failure of the Offeror to make additional information available could result in the rejection of the response. Such clarification might involve the delivery of demonstration equipment to the City for evaluation purposes. Such hardware will be provided at no cost to the City. The City is not obliged to evaluate any or all products.
63. The award of a contract is accomplished by executing a written agreement that incorporates the entire proposal, Offeror's response, clarifications, addenda, and additions. All such materials constitute the contract documents. The Offeror agrees to accept the contract terms unless substantive changes are made without the approval of the Offeror. The procurement office is the sole point of contact for the issuance of the contract.
64. The City will not be responsible for the loss or damage of any items during the RFP process.
65. In the event that the Offeror fails to perform any material obligations, the City reserves the right to give the Offeror written notice of such failure. The Offeror will then have thirty (30) calendar days to resolve the failure. If the failure is not resolved within thirty (30) calendar days, the City reserves the right to withhold all money that is due and payable to the Offeror. Such a remedy is in addition to other remedies that might be available to the City. Moreover, the City reserves the right to terminate the contract if the Offeror exceeds thirty (30) calendar days of non-performance.
66. The authorized signer of the Proposal shall represent and warrant that they have been sufficiently informed in all matters relating to the specified products; that they have checked their proposal for errors and omissions; that the prices stated in their proposal are correct and as intended are a complete and correct statement of prices.
67. By Signature below the Offeror avers that they have examined, understands and accepts all instructions, specifications and conditions, and will provide for appropriate insurance, deposits, and performance bonds if required, and will comply fully with specifications as attached for the agreed contract, especially where materials and work are involved, and that any and all registration requirements where required for Offerors as set forth in law are met.

Print Name of Offeror

Signature of Offeror

Date of Signing

Proposal tabulations will be available on-line at www.cityofmyrtlebeach.com/purchasing.html. If more convenient, tabulations are available for pick-up after final award. No Proposal Tabulations will be faxed.

SPECIFICATIONS SCOPE OF WORK

PURPOSE

The purpose of the Request for Proposals (RFP) is to solicit proposals to establish a contract through competitive negotiations for the purchase of the implementation of the Myrtle Beach Convention Center located at 2101 North Oak Street, Myrtle Beach, SC. This solicitation is using **Best Value** procurement procedures.

The scope of services will consist of removal of one hundred and twelve (112) each and ten (10) each tube fluorescent fixtures. Fixtures are to be placed on pallets or boxes which will be provided by the Convention Center. Fixtures are to remain the property of the Convention Center.

Install one hundred and twelve new fixtures on existing down rods. Any adapters and/or mounting hardware to be provided by the contractor.

All fixtures to be wired using Cat 5 wiring, black in color. All fixtures will be individually dimmable.

Fifteen (15) each of the fixtures will serve as emergency fixtures and will require additional ballast(s).

Existing seismic wires can be reused with the contractor responsible for hardware or any wire replacement.

Controllers to be placed in two separate electrical rooms.

Light system to be controlled by owner supplied IPAD.

Contractor to provide all startup, programming, and testing.

All labor, connection cables, miscellaneous materials to be provided by contractor.

Convention Center will provide one (1) high lift and one (1) scissor lift.

Contractor will be required to schedule work around the Convention Center event(s) schedule. Overnight work schedules will be available.

There will be a mandatory pre-proposal conference at the Myrtle Beach Convention Center on Tuesday, February 14, 2017 at 10:00am. Meeting place in the front lobby next to the escalators. You will not be able to bid if you are more than 5 minutes late.

EVALUATION AND AWARD CRITERIA

All proposals will be reviewed and evaluated by City of Myrtle Beach Review Panels comprised of members of the Purchasing Office. “**Best Value**” concepts will be used for the evaluation and award. “Best Value” means the overall combination of quality, price, and various elements of required services that in total are optimal relative to construction needs. Various elements may include of being fully qualified, references, cost and background. City will consider awards to other than the highest technically acceptable proposal when considering these elements. The Review Panels will recommend to the Purchasing Office those proposals which most closely meet the requirements of City and are considered to be “Best Value.”

Evaluation Criteria:

Proposals will be evaluated by the Purchasing Office using the following adjectival rating method:

Acceptable 25%: Offeror’s proposal demonstrates an acceptable understanding of goals and objectives of the procurement. There may be strengths and weaknesses, however strengths outweigh the weaknesses.

Marginal 25%: Offeror’s proposal demonstrates a fair understanding of the goals and objectives of the procurement. Weaknesses have been found that may outweigh strengths that exist. Weaknesses may be difficult to correct.

Unacceptable 25%: Offeror’s proposal fails to demonstrate an understanding of the goals and objectives of the procurement. The proposal has one or more significant weaknesses that will be very difficult to correct or are not correctable.

Cost 25%

The following areas of the proposal will be evaluated by reviewers for completeness, clarity and understanding as they apply to the specific specifications requested:

Award Criteria: Selection will be made of Offerors deemed to be fully qualified and best suited among those submitting proposals on the following: the adjectival ratings from the reviewers’ individual evaluation, the group consensus rating at the team review, the Best Value requirements. Negotiations will be conducted with the Offerors so selected. Price will be considered, but need not be the sole determining factor. After negotiations have been conducted with each Offeror so selected, the agency will select the Offeror(s) that, in its opinion, has made the best proposal(s), and will award the contract(s) to those Offeror(s). The City may cancel this Request for Best Value Proposals or reject proposals at any time prior to an award, and is not required to furnish a statement of the reason why a particular proposal was not deemed to be the most advantageous.

RFP Evaluation Form – Exhibit Hall Lighting Project RFP 17-R0066

Contractor: _____

Date Evaluated: _____

Proposals will be evaluated on “best value” based on the evaluation criteria as stated below. The cost proposal will not be opened by the review committee until after the qualifications points are awarded. A 50-point scale will be used to create the final evaluation recommendation. When assessing points, utilize a 1-10 scale which will then be multiplied by the weight assigned.

Points	Guidance
10	Couldn't imagine a better response
9-8	Excellent, insightful response
7-6	More than adequate response
5-4	Adequate response, no special insights
3-2	Inadequate response
1-0	Totally inadequate response
0	No response given

Factor	Weight
Qualifications	30%
Data Collection	15%
Data Analysis	15%
Extent Work is Performed	10%
Cost	30%

Evaluation

Criteria	Possible Points	Points Awarded	Multiplier (To be done by purchasing)	Total Points
Experience & Qualifications	0-10			
Workplan & Timeline	0-10			
Technical Solution	0-10			
Project Cost	0-10			

Company Name: _____

Authorized Signature: _____

ADDITIONAL TERMS AND CONDITIONS

1. Include with your proposal at least two (2) references of similar work performed by your company. Telephone number and person to contact must be included for proposal consideration.

a) _____

b) _____

2. Include with your proposal any written warranties that apply.
3. **Insurance Requirements are attached. Work cannot begin until a valid Certificate is provided meeting all requirements. A Performance and Payment Bond in the amount of 100% of the contract price will be required. The Certificate of Insurance and the Performance and Payment Bonds must be provided on the attached forms by the successful proposer after notification of intent to award.**

4. List any exceptions to specifications:

5. A City Business License will be required prior to commencement of work. For information contact the Business License Office at (843) 918-1200.

City of Myrtle Beach INSURANCE REQUIREMENTS

PUBLIC LIABILITY AND PROPERTY DAMAGE

The Contractor shall purchase and thereafter maintain for the term of this agreement, and any subsequent extensions hereto, public liability insurance to protect Contractor from claims for bodily injury and/or property damage which may result from Contractor's performance of this agreement. The policy shall provide a combined single limit of liability of \$1,000,000 per occurrence for bodily injury and property damage with an aggregated limit of not less than \$1,000,000.

AUTOMOBILE LIABILITY

The Contractor shall purchase and thereafter maintain for the term of this agreement and any subsequent extensions hereto, comprehensive automobile liability insurance to protect the Contractor from claims for bodily injury and property damage which may arise from Contractor's use of motor vehicles in the performance of this agreement. The policy shall provide for a combined single limit of \$1,000,000 per occurrence for bodily injury and property damage.

WORKERS' COMPENSATION INSURANCE

Prior to beginning the work, the Contractor shall take out full compensation insurance for all persons which may be employed directly or indirectly in the performance of this agreement, coverage is to apply to all employees for statutory limits in compliance with the applicable state and federal laws. The policy must provide Employers Liability coverage in the amount of \$500,000 each accident; \$500,000 bodily injury by disease each employee and \$500,000 bodily injury by disease policy limit and shall be maintained in full force and effect during the term and any subsequent extensions hereto.

EXCESS LIABILITY POLICY

At the option of the Contractor, the limits of the primary general liability, automobile liability and employer's liability policies may be less than stipulated herein, with an excess policy providing the additional limits needed. This form of coverage must be approved by the City and will only be acceptable when both the primary and excess policies include the coverage and endorsements required herein.

POLICY ENDORSEMENTS

The following requirements shall apply to the policy(s) indicated below:

A. General Liability and Automobile Liability

It is understood and agreed that the City of Myrtle Beach, its officials, agents and employees are recognized as additionally named insureds under the policy and, as such, will be provided thirty (30) days written notice by registered mail of non-renewal, exhaustion of aggregate limit, modification of coverage or cancellation for any reason, and the company hereby agrees to provide such notice. Failure of the company to provide the required notice shall cause the coverage to continue in force for the benefit of the City, its officials, agents and employees until proper notification, as required herein, is provided, the provisions of the policy or any Certificate of Insurance to the contrary notwithstanding.

B. Workers' Compensation

The cancellation provision is hereby amended to provide that the City of Myrtle Beach will be provided thirty (30) days written notice via certified mail, return receipt required, in the event of coverage cancellation.

NOTIFICATION OF INSURANCE COMPANIES

It is the responsibility of the Contractor to notify all insurance companies to familiarize themselves with all the terms and conditions of this agreement. The insurance companies shall waive their right of

INSURANCE REQUIREMENTS continued

notification by the City of any change or modification of this contract, or of decreased or increased work, or of the cancellation of this agreement or of any other acts by the City or its authorized employees or agents under the terms of this agreement. The waiver by the insurance companies shall in no way relieve them of their obligations under this agreement.

CERTIFICATES OF INSURANCE

Contractor shall file with the City a Certificate of Insurance, which shall be approved by the City prior to the inception of any work. Renewal certificates shall be sent to the City thirty (30) days prior to any expiration date.

INSURER LICENSING AND RATING

All insurance companies providing coverage to the City, shall be licensed to do business in the State and have an A.M. Best rating of "A-" or better.

INSURANCE COVERAGE ADJUSTMENTS

In response to changing circumstance of loss exposures, the City reserves the right to modify the insurance coverage, limits of liability, policy endorsements and policy terms required in this contract. The City will provide written notice to the Contractor, which outlines such changes and allow Contractor a reasonable period of time in which to comply with the new requirements. However, in no event shall Contractor compliance period be longer than thirty (30) days.

COVERAGE CANCELLATION OR UNSATISFACTORY COVERAGE

If at any time any of the foregoing policies shall be or become unsatisfactory to the City, as to form or substance, or if a company issuing any such policy shall be or become unsatisfactory to the City, the Contractor shall, upon notice to that effect from the City, promptly obtain a new policy and submit the same for approval to the City. Upon failure of the Contractor to furnish, deliver and maintain the insurance coverage's required herein, this agreement, at the sole discretion of the City, may be forthwith declared suspended, discontinued or terminated. Failure of the Contractor to take out and/or maintain any required insurance shall not relieve the Contractor from any liability under this agreement, nor shall the insurance requirements be construed to conflict with or otherwise limit the obligations of the Contractor concerning indemnification.

HOLD HARMLESS

Contractor agrees to protect, defend, indemnify and hold the City, its officers, employees and agents free and harmless from and against any and all losses, penalties, damages, settlements, cost, charges, professional fees or other expenses and liabilities of every kind and character arising out of, or relating to, any and all claims, liens, demands, obligations, actions, proceedings or causes of action of every kind in connection with or arising out of this agreement, and/or the performance hereof, that are due to the negligence of the Contractor, its officers, employees or agents. The Contractor further agrees to investigate, handle, respond to, provide defense for and defend the same at its sole expense and agrees to bear all other costs and expenses related thereto.

INSURANCE REQUIREMENTS continued

SAMPLE

<u>CERTIFICATE OF INSURANCE</u>						CERTIFICATE NUMBER	
PRODUCER Insurance Agent Name 4000 Insurance Pkwy Anytown, USA 99999			THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER OTHER THAN THOSE PROVIDED IN THE POLICY. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES DESCRIBED HEREIN.				
INSURED Bidding Firm's Name 1000 Any Street Anytown, USA 99999			COMPANIES AFFORDING COVERAGE COMPANY A ABC INSURANCE COMPANY COMPANY B COMPANY C COMPANY D				
COVERAGES-THIS CERTIFICATE SUPERCEDES AND REPLACES ANY PREVIOUSLY ISSUED CERTIFICATE FOR THE POLICY NOTED BELOW							
This is to certify that policies of insurance described herein have been issued to the insured named herein for the policy indicated. Notwithstanding any requirement, term or condition of any contract or other document with respect to which the certificate may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, conditions and exclusions of such policies. Aggregate limits shown may have been reduced by paid claims.							
CO LTR	<u>TYPE OF INSURANCE</u>	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	<u>LIMITS</u>		
A	<u>General Liability</u> <input checked="" type="checkbox"/> Commercial General Liability <input type="checkbox"/> Claims Made <input checked="" type="checkbox"/> Occur <input type="checkbox"/> Owners & Contractor's Prot	XYZ1234	00/00/00	00/00/00	General Aggregate	\$ 1,000,000	
					Products-Comp/Op Agg	\$ 1,000,000	
					Personal & Adv Injury	\$ 1,000,000	
					Each Occurrence	\$ 1,000,000	
					Fire Damage (any 1 fire)	\$ 50,000	
A	<u>Automobile Liability</u> <input checked="" type="checkbox"/> Any Auto <input type="checkbox"/> All Owned Autos <input type="checkbox"/> Scheduled Autos <input checked="" type="checkbox"/> Hired Autos <input checked="" type="checkbox"/> Non-Owned Autos	XYZ1234	00/00/00	00/00/00	Combined Single Limit	\$ 1,000,000	
					Bodily Injury (Per person)	\$	
					Bodily Injury (Per accident)	\$	
					Property Damage	\$	
	<u>Garage Liability</u> <input type="checkbox"/> Any Auto		00/00/00	00/00/00	Auto Only-Ea Accident	\$	
					Other than auto only:		
					Each Accident	\$	
					Aggregate	\$	
	<u>Excess Liability</u> <input type="checkbox"/> Umbrella Form <input type="checkbox"/> Other than Umbrella Form		00/00/00	00/00/00	Each Occurrence	\$	
					Aggregate	\$	
A	<u>Workers Compensation</u> (and Employer's Liability) The Proprietor/Partners Executive Officers Are: <input checked="" type="checkbox"/> Inc <input type="checkbox"/> Excl	XYZ1234	00/00/00	00/00/00	<input checked="" type="checkbox"/> WC Statutory Limits		
					<input type="checkbox"/> Other		
					EL Each Accident	\$ 500,000	
					EL Disease-Policy Ltd	\$ 500,000	
					EL Disease-Ea Employee	\$ 500,000	
	<u>Other</u>						
Description of Operations/Locations/Vehicles/Special Items: City of Myrtle Beach is named as additional insured with respect to General and Automobile Liability							
CERTIFICATE HOLDER City of Myrtle Beach Attn: Purchasing Division Drawer 2468 Myrtle Beach, SC 29578-2468				CANCELLATION Should any of the policies described herein be cancelled before the expiration date thereof, the insurer affording coverage will endeavor to mail 30 days written notice to the certificate holder named herein, but failure to mail such notice shall impose no obligation or liability of any kind upon the insurer affording coverage, its agents or representatives, or the issuer of this certificate.			
INSURANCE AGENT SIGNATURE							

Price Schedule
Exhibit Hall Lighting Project
RFP 17-R0066
Price Schedule

The General Contractor will be responsible for all materials, labor, equipment, supervision and sub-contractors performing all work on site and give the **best method** on how to perform work specify in the proposal.

PROJECT NO.: 17-R0066

PROPOSAL OPENING DATE: 2:00PM Tuesday, February 28, 2017

Mandatory Pre-Proposal Conference, Tuesday, February 14, 2017 at 10:00AM.

Description	Qty	Unit	Unit Price	Total Price
Cooper Eaton Fifth Light LCP	1	Each	\$ _____	\$ _____
Cooper Eaton HBLED-LD4-30-N-UNV-L850- 5LTD3-U Fixture	112	Each	\$ _____	\$ _____

Company: _____

Authorized Signature: _____

Email Address: _____

PROPOSAL AND SIGNATURE DOCUMENT

Bid Number: 17-R0066

The undersigned, as proposal, declare that we have examined all bid documents contained herein and will contract, thereon, with the City of Myrtle Beach (hereinafter referred to as the "City") to do everything necessary for the fulfillment of this contract. We agree any addenda received are part of the proposal documents. (If no addenda has been received, please place a zero in the space provided.)

In addition, we propose to furnish the following products/services in strict conformance to the proposal specifications and proposal invitation issued by the City of Myrtle Beach for this proposal. Any exceptions are clearly noted as required.

We understand that any false statements made to meet any requirements may result in contract cancellation or initiation of action under Federal or State laws or both.

Bidder-Company Name

Addenda Numbers Received

City Business License Number

Telephone Number

Authorized Signature

Fax Number

Printed Name

Email

South Carolina Sales Tax Registration No.: _____

If SC Sales Tax No. not supplied, please state reason: _____

Federal Tax ID No. (FEIN): _____

Mailing Address

Date

City, State, Zip

Remittance Address (If different from mailing address)

City, State, Zip

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we the undersigned, _____ as Principal, and

_____ as SURETY are hereby held and firmly

bound unto _____ as OWNER, in the penal sum of

_____ for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, that whereas the PRINCIPAL has submitted to the City of Myrtle Beach a certain PROPOSAL, attached hereto and hereby made a part hereof to enter into a contract in writing for the _____.

NOW, THEREFORE,

- (a) If said PROPOSAL shall be rejected, or
- (b) If said PROPOSAL shall be accepted and the PRINCIPAL shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said PROPOSAL) and shall furnish BOND for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said PROPOSAL,

then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The SURETY, for value received, hereby stipulates and agrees that the obligations of said SURETY and its BOND shall be in no way impaired or affected by any extension of the time within which the OWNER may accept such PROPOSAL; and said SURETY does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the PRINCIPAL and the SURETY have hereunto set their hands and seals and such of them as are corporations have caused their corporate seals to be hereto affixed and these to be signed by their proper officers, the day and year first set forth above.

_____(L.S.)
Principal

Surety

By _____

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department’s most current list (Circular 570 as amended) and be authorized to transact business in the State where the project is located.

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: that

(Name of Contractor)

(Address of Contractor)
a _____ hereinafter called Principal,
and
(Corporation, Partnership, or Individual)

(Name of Surety)

(Address of Surety)

hereinafter called SURETY, are held and firmly bound unto

(Name of Owner)

(Address of Owner)

hereinafter called OWNER, in the penal sum of
_____ Dollars, (\$ _____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the _____ day of _____, 20 ____, a copy of which is hereto attached and made a part hereof for the construction of:

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by the OWNER, with or without notice to the Surety and during the one year guaranty period, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the OWNER from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the OWNER all outlay and expense which the OWNER may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any way affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

PERFORMANCE BOND continued

IN WITNESS WHEREOF, this instrument is executed in four (4) counterparts, each one of which shall be deemed an original, this the _____ day of _____, 20 ____ .

ATTEST:

Principal

Principal Secretary

[SEAL]

(Witness as to Principal)

By _____ (s)

(Address)

(Address)

Surety

ATTEST:

(Surety) Secretary

[SEAL]

Witness as to Surety

By _____
Attorney-in-Fact

(Address)

(Address)

NOTE: Date of Bond must be prior to date of Contract. If CONTRACTOR is Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the PROJECT is located.

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: that

(Name of Contractor)

(Address of Contractor)

a _____ hereinafter called Principal, and
(Corporation, Partnership or Individual)

(Name of Surety)

(Address of Surety)

hereinafter called Surety, are held and firmly bound unto _____

(Name of Owner)

(Address of Owner)

hereinafter called OWNER, in the penal sum of _____ Dollars, (\$ _____) in lawful money of the United States, for payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the _____ day of _____, 20 ____, a copy of which is hereto attached and made a part hereof for the construction of:

NOW, THEREFORE if the Principal shall promptly make payment to all persons, firms, SUBCONTRACTORS, and corporations furnishing materials for or performing labor in the prosecution of the WORK provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such WORK whether by SUBCONTRACTOR or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any way affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

PAYMENT BOND continued

IN WITNESS WHEREOF, this instrument is executed in four (4) counterparts, each one of which shall be deemed an original, this the _____ day of _____, 20 ____ .

ATTEST:

(Principal) Secretary

Principal

[SEAL]

By _____ (S)

Witness as to Principal

(Address)

Principal

(Address)

ATTEST:

Surety Secretary

Surety

[SEAL]

Witness as to Surety

By _____
Attorney-in-Fact

(Address)

(Address)

NOTE: Date of BOND must be prior to date of contract. If CONTRACTOR is Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the PROJECT is located.



First in Service

**CITY OF MYRTLE BEACH
LOCAL VENDOR PREFERENCE
TO QUALIFY FOR LOCAL PREFERENCE
FORM MUST BE SUBMITTED WITH BID**

APPLICATION OF ELIGIBILITY TO QUALIFY FOR LOCAL VENDOR PREFERENCE WITHIN THE DEFINED BOUNDARIES: MYRTLE BEACH CITY LIMITS, HORRY COUNTY, NESA AREA (NESA area is comprised of Horry, Georgetown, Williamsburg, Florence, Marion, Darlington, Dillon, Chesterfield, and Marlboro Counties).

City of Myrtle Beach Business License: (To qualify for Local Vendor Preference vendor must have a current **City of Myrtle Beach Business License** a minimum of ninety (90) days prior to the request for bid/ proposal being made public)

City of MB Business License Number: _____ Date issued: _____
***NOT Horry County License Number**

Complete all areas below. Incomplete forms may be rejected.

1. LEGAL NAME OF BUSINESS: _____

Mailing Address: _____

Physical Address: _____

(To qualify vendor must have maintained a physical address and office as a principal place of business within the defined boundaries of the category sought for at least one (1) year, and during that time have had a majority of full-time employees, chief officers and managers regularly conducting work and business from this office.)

2. Year business was established in the City of Myrtle Beach / Horry County / NESA area:

Year: _____ County: _____
(Name of County)

Under penalty of perjury, the undersigned states that the foregoing statements are true and correct. The undersigned also acknowledges that any person, firm, corporation or entity intentionally submitting false information to the City in an attempt to qualify for local preference shall be prohibited from bidding on City of Myrtle Beach products and services for a period of one (1) year.

Authorized Signature: _____ Date: _____

Printed Name & Title: _____ Phone: _____

LOCAL VENDOR PREFERENCE continued

<u>Bid Amount</u>	<u>Within City Limits</u>	<u>Within Horry County</u>	<u>Within NESAs Area</u>
Up to \$5000.00	5% of Bid	4% of Bid	3% of Bid
\$5001.00 to \$10,000.00	\$250.00 plus 4% of amount between \$5001.00 and \$10,000.00	\$200.00 plus 3% of amount between \$5001.00 and \$10,000.00	\$150.00 plus 2% of amount between \$5001.00 and \$10,000.00
\$10,001.00 and up	\$450.00 plus 3% of amount above \$10,000.00 with the maximum being \$2000.00, including the \$450.00	\$400.00 plus 2% of amount above \$10,000.00 with the maximum being \$1800.00, including the \$400.00	\$300.00 plus 1% of amount above \$10,000.00 with the maximum being \$1600.00, including the \$300.00

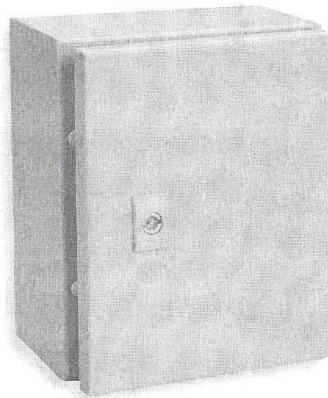
If company/individual performs services on City property a Certificate of Insurance **must be** provided prior to commencement of work meeting requirements of the City.

The vendor must submit a copy of their Local Vendor Preference Certificate with their bid.

An eligible business shall maintain such status throughout the term of any contract with the City. Failure to maintain such status or to keep current on all fees and taxes owed the City shall be grounds to terminate the contract.

Lighting Control Panel

Catalog#	Prepared by
Project	Date
Comments	Type



Overview

Fifth Light's Lighting Control Panel (LCP) is used to control and operate all lighting devices using Digital Addressable Lighting Interface (DALI) and low voltage analog signals. It houses the local controller, lighting management software and various types of lighting interface modules.

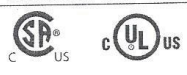
- The Local Controller is an embedded computing device that runs the Lighting Management Software (LMS) and hosts the network and communication interfaces required to interact with third party systems such as Building Automation Systems and shade systems.
- The LMS is used to create lighting scenes for individual lighting or groups of lightings, define time-based, daylight-based, sensor-based, and manual lighting control strategies and monitor the health of DALI devices connected to the panel.
- The DALI Bus Chassis (DBC) houses 8 DALI Bus cards, 1 USB communication card and 1 power supply card. Each DALI Bus card can support up to 64 DALI devices. The DALI Bus card allows data exchange between the connected DALI devices and the USB communication card. Each DALI Bus card includes LED diagnostics indicators and commissioning DIP Switch. The USB communication card allows data exchanges between the DALI devices connected to all 8 DALI Bus cards and the Local Controller. The power supply card provides power to all the cards housed in the DBC.
- The Bus Coupler allows data exchange between the connected digital input cards and/or analog input cards. The digital input cards receive data from digital devices such as digital sensors and wallstations. The analog input cards receive data from analog devices such as daylight sensors. The Bus Coupler sends the data to the Local Controller via Modbus TCP.
- 24 VDC power supply to power the automation components hosted in the panel and external devices (ex: Touchscreens).
- Network switch allows LCPs to interconnect and form a lighting control network with a centralized lighting management system.



November 2015

Specifications

Performance	Input Voltage: 120 VAC +/- 10%
	Maximum Load: LCPA: 5 Amps LCPB: 6 Amps
Operating Environment	Temperature: 32°F to 104°F (0°C to 40°C)
	Relative Humidity: 10% to 90% (non-condensing) For indoor use only
Dimensions	LCPA: 23.6" H x 23.6" W x 9.8" D (600mm x 600mm x 250mm)
	LCPB: 31.5" H x 23.6" W x 9.8" D (800mm x 600mm x 250mm)
Wiring & Mounting	Power: Wire-trap connections, use 12 AWG to 16 AWG solid/stranded wire
	DALI: Wire-trap connections, use 12 AWG to 20 AWG solid/stranded wire
	Digital and Analog Input: Wire-trap connections, use 12 AWG to 20 AWG solid/stranded wire
	Network: Ethernet (RJ45, CAT 5/5e/6 wire types)
	Grounding: Ground terminal must be connected to earth ground
Communication Protocol	Mounting: NEMA 1 surface mount
	BACNet, DALI, Modbus TCP/IP, XML
Control Specification	DALI Bus Chassis: Power Supply Card(s): 1 Communication Card(s): 1 DALI Bus Card(s): 8 Input Voltage: 24V Maximum Input Current: 3 Amps (24V input)
	DALI Bus Card: Communication Interface: Digital Addressable Lighting Interface (DALI) DALI Output Voltage: 18V (14V - 20V, depending on DALI Bus load) DALI Output Current: 160 mA DALI Addresses: Up to 64 LED Indicators: 7 (Power, USB link, USB activity, DALI power, DALI activity, Status, Mode)
Ethernet	DALI Input Voltage: 9.5 VDC - 22.5 VDC per DALI Bus
	Modbus Coupler: Up to 48 Digital Input devices and 8 Analog Input devices with 30 ms read/write capability
Standards	Ports: 5
	Mode: Unmanaged Input Voltage: 24 VDC Data Transfer Rate: 10BaseT/100BaseTX



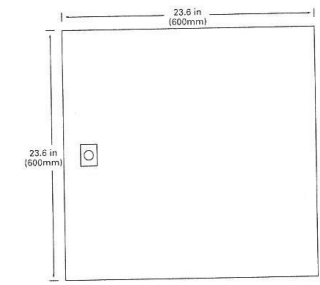
Features

- Modular design capable to support up to 32 DALI Bus Cards, 48 digital input devices and 8 analog input interfaces hence providing lighting engineers and contractors the flexibility and scalability needed to support all sizes and types of lighting applications, i.e. from small or large facilities, fluorescent to LED, local to networked architecture.
- Intuitive web-based user interface allowing users to manage their lighting system from different computing platforms (desktops, laptops, smart phones, tablets) with access to the lighting network.
- Factory assembled and pre-wired Lighting Control Panel ready to be installed by the electrical contractor with minimal wiring and eliminating non-valued added on-site panel assembly and wire termination work.
- LED diagnostics indicators and built-in Commissioning Mode allowing contractors to easily test and commission the DALI Bus hence reducing the overall commissioning time of a DALI based lighting management system.
- Built to operate as a local Lighting Control Panel or as part of a distributed lighting control network with multiple lighting control panels and a Central Server Unit for a centralized management of large lighting control system.

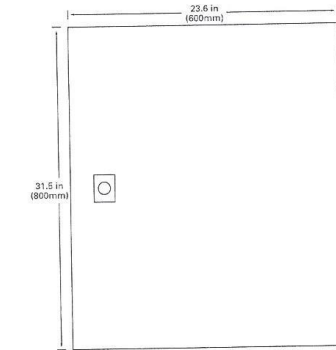
Dimensions

(Inches/mm)

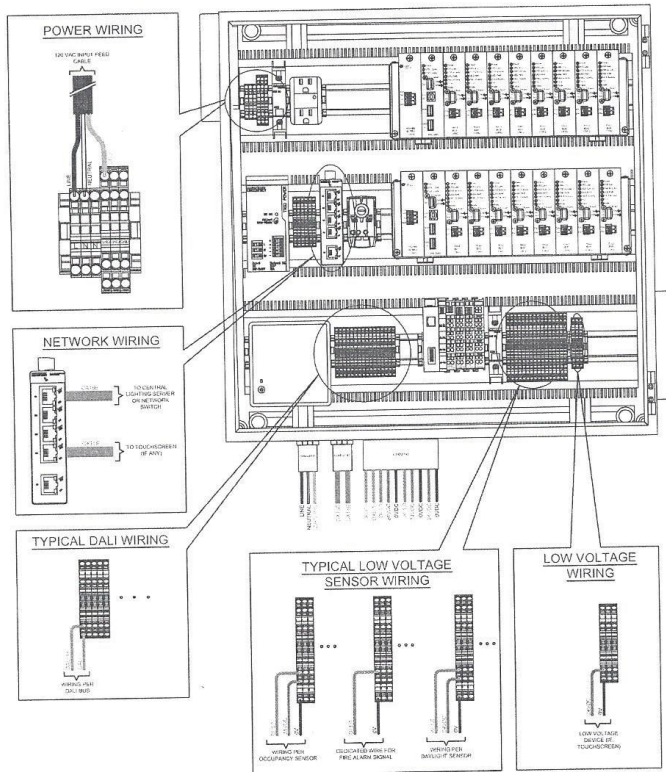
LCPA: 23.6" H x 23.6" W x 9.8" D
(600mm x 600mm x 250mm)



LCPB: 31.5" H x 23.6" W x 9.8" D
(800mm x 600mm x 250mm)



Wiring Diagram

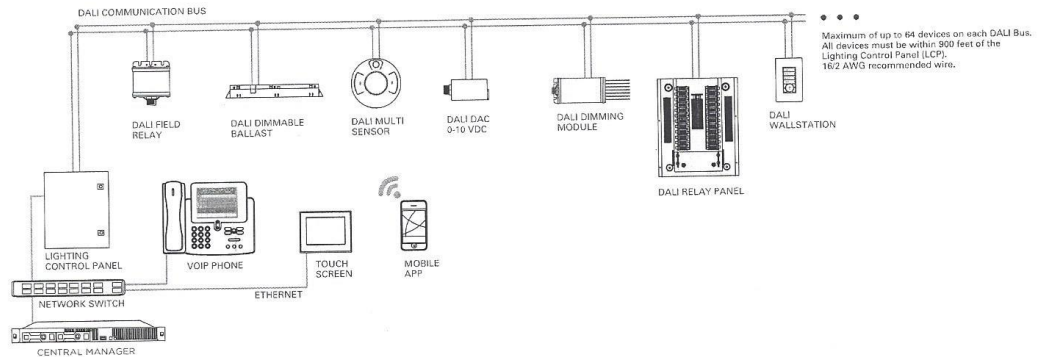


Note: Sample wiring diagram for a LCPA model

Notes:

1. Refer to Electrical Contractor Testing Protocol document for detailed information with regards to the DIP Switches and LED indicators located on the DALI Cards.
2. Drilling should be done on the removable gland plate at the bottom of the panel. Avoid drilling top/sides of the panel as metal shavings will damage internals.

Sample System Topology

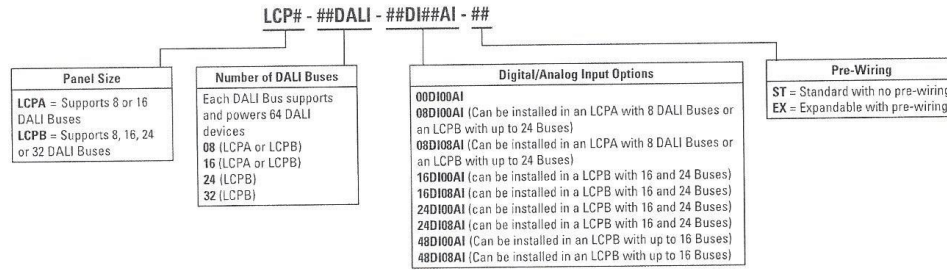


November 2015

Ordering

The following ordering configuration is for standard Lighting Control Panels that will meet the needs of typical installations. The number of DALI Buses and the number of digital and analog inputs. An LCP and Local Controller feature list can be found on page 2 of this specification sheet.

Sample ordering structure is below:



Additional Options

Catalog #	Description
FLT-LCPA-PS	10A power supply for LCPA panel, 24 VDC, 120-240V
FLT-LCPB-PS	20A power supply for LCPB panel, 24 VDC, 120-240V
FLT-DBC001	DALI Bus Chassis for LCP
FLT-CTL001	Local Controller
FLT-LVDIKT	Fifth Light DI Input Card, 8 Terminal Blocks, Wiring
FLT-LVAIKT	Fifth Light AI Input Card, 8 Terminal Blocks, Wiring
FLT-LVBCKT	Fifth Light Bus Coupler, End Card, Wiring
FLT-LVPIKIT	Fifth Light Partitioning Input Card, 4 Terminal Blocks, Wiring

Notes:

1. LCPB with 32 DALI Cards can only be ordered with the 00DI0AI option. Expandable option includes all wiring and terminated blocks required to allow the electrical contractor to easily add a new DBC.
2. A dedicated digital input channel is required per LCP for systems requiring integration with a fire alarm system contact closure.
3. All third party DALI ballasts and drivers shall be IEC 62386/DALI Ed 1 compliant and must not respond in any way to frames other than the 16-bit frames as defined in the published standards (IEC 62386 parts 101, 102, etc...). The DALI frame used by these devices must be encapsulated by the IEC 62386 defined start bit and the defined two stop bits to be considered a valid frame. To reduce project risks, Eaton recommends using the third party DALI ballasts and driver listed on the "Fifth Light verified ballasts and drivers" application note which can be found on www.eaton.com/lightingsystems.

Eaton
 1000 Eaton Boulevard
 Cleveland, OH 44122
 United States
 Eaton.com

Eaton
 Lighting systems
 203 Cooper Circle
 Peachtree City, GA 30269
www.eaton.com/lightingsystems

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 November 19, 2015

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Metalux

DESCRIPTION

The HBLED is an outstanding value for a wide variety of applications and mounting heights. Precision designed optics, multiple distributions, lumen outputs and color temperatures make the HBLED ideal for industrial, commercial, manufacturing, gymnasium and other applications that utilize traditional HID and linear fluorescent high bays. The proprietary low-power, low-brightness LED module assembly offers exceptional optical performance with the enhanced benefits of LED lighting, including energy savings, extended system life, a reduced carbon footprint.

SPECIFICATION FEATURES

Construction

Full body construction is achieved with channel and end plates, along w/stiffening brackets and side rails to help create a strong, clean finished frame for this luminaire. Side rails are standard on all HBLED products.

Electrical

Long-life LED system coupled with electrical driver to deliver optimal performance. LED's available in 4000k and 5000k with a CRI ≥ 80. cULus listed. Electronic drivers are available for 120-277V, 347V and 480V applications. An optional 0-10V dimming driver is available.

Emergency Battery Pack Option

Optional 120V-277V integral emergency battery pack is available in 7-watts or 14-watts to meet critical life-safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring code-compliance. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. See ordering information for details.

Finish

White enamel finish preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor to protect against contaminants and oxidation.

Optics

Precision designed optics deliver even illumination. General and aisle distribution ensures superior performance to key areas within an application.

Shielding

Door frame and lens assembly is optional for more demanding environments.

Options

Integral Occupancy Sensor available and provides from 600 sq. ft. up to 1250 sq. ft. of coverage in a maximum mounting height of 40' using interchangeable lens caps provided. Optional integral sensor system provides occupancy and daylight harvesting.

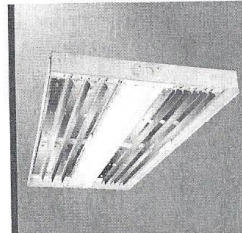
Catalog #		Type	
Project		Date	
Comments			
Prepared by			

Mounting

The HBLED series is ideally suited for suspension mounting with optional wire hook and chain set, or cable mounting. Single monopoint mounting is also available with SPM tong hanger.

Compliance

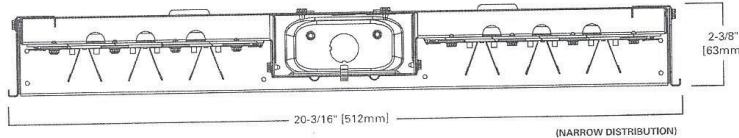
Luminaires are cULus listed for damp locations -20°C - 55°C ambient environments in open configurations with fixed output (ED option) drivers and 40°C with dimming drivers. Refer to ambient chart for complete list. RoHS compliant, and LED modules comply with IESNA LM-79 and LM-80 standards. DesignLights Consortium™ Qualified and classified for DLC Standard (some models are not DLC qualified), refer to www.designlights.org for details.



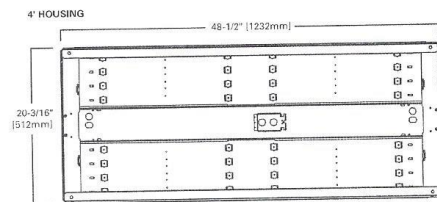
**HB
LED**

20" X 48"

LED High Bay Efficiency Luminaire



DIMENSION TOP VIEW



ENERGY DATA

Input Watts:	
12 (12,000 lumens)=104W	
18 (18,000 lumens)=152W	
24 (24,000 lumens)=203W	
30 (30,000 lumens)=226W	
36 (36,000 lumens)=307W	
48 (48,000 lumens)=401W	

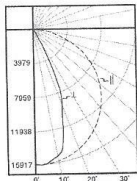
LINEAR DISCONNECT

Safe and convenient means of disconnecting power



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PHOTOMETRICS



HBLED-LD4-18-N
UNV-L850-ED2-U
 Dimming Driver
 Linear LED 5000K
 Spacing criterion:
 (II) 1.28 x mounting
 height, (I) 0.72 x
 mounting height
 Lumens: 18818
 Input Watts: 151.9W
 Efficacy: 123.9 lm/W
 Test Report:
 HBLED-LD4-18-N
 UNV-L850-ED2-U
 IES

Angle	Along II	45°	Across I
0	15873	15873	15873
5	15880	15814	15872
10	15717	15297	15140
15	15408	14740	12779
20	14954	12820	9358
25	14400	9726	5673
30	13740	7682	4256
35	12984	5837	394
40	12077	4084	162
45	11111	317	144
50	10003	148	144
55	8842	149	83
60	7533	131	53
65	6151	96	46
70	4648	62	24
75	3105	19	21
80	1651	16	30
85	441	16	22
90	0	0	0

Coefficients of Utilization

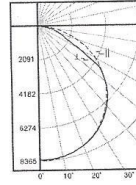
rc	Effective floor cavity reflectance				rc	rw	RCR											
	80%	70%	50%	30%														
0	119	119	119	116	116	116	111	111	111	106	106	102	102	100				
1	112	108	105	102	109	105	103	101	102	100	98	98	95	92	89			
2	105	98	93	89	102	97	92	88	93	89	86	86	82	81	81			
3	98	90	84	79	96	89	83	78	86	81	77	75	74	72	72			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	67	67		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	61	60		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	55	
7	76	65	58	53	75	64	58	53	63	57	53	62	56	52	61	56	50	
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	46	47
9	68	57	50	45	67	56	50	45	55	49	45	54	48	45	53	48	45	43
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	10076	53.5
0-40	13520	71.8
0-60	17434	92.6
0-90	18818	100.0
0-180	18818	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	25371	713	321
55	24890	411	227
65	23502	353	168
75	19371	111	123
85	8172	256	321



HBLED-LD4-24-W
UNV-L850-ED2-U
 Dimming Driver
 Linear LED 5000K
 Spacing criterion:
 (II) 1.3 x mounting
 height, (I) 1.31 x
 mounting height
 Lumens: 24002
 Input Watts: 203.0W
 Efficacy: 118.2 lm/W
 Test Report:
 HBLED-LD4-24-W
 UNV-L850-ED2-U
 IES

Angle	Along II	45°	Across I
0	8323	8323	8323
5	8353	8295	8312
10	8274	8210	8233
15	8115	8068	8098
20	7850	7860	7905
25	7616	7594	7647
30	7275	7270	7329
35	6891	6900	6959
40	6432	6465	6520
45	5941	5979	6027
50	5379	5443	5404
55	4769	4827	4869
60	4093	4104	3015
65	3326	3228	1858
70	2503	1980	1441
75	1761	1042	995
80	917	593	241
85	265	146	155
90	0	0	0

Coefficients of Utilization

rc	Effective floor cavity reflectance				rc	rw	RCR											
	80%	70%	50%	30%														
0	119	119	119	116	116	116	111	111	111	106	106	102	102	100				
1	109	105	101	97	107	103	99	96	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	49	42	37	48	41	38	47	41	36	34
8	61	47	38	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

Zonal Lumen Summary

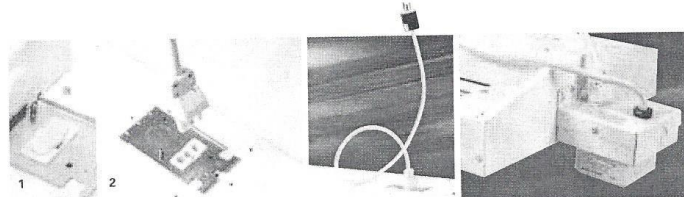
Zone	Lumens	% Fixture
0-30	6577	27.4
0-40	10894	45.4
0-60	19698	82.1
0-90	24002	100.0
0-180	24002	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	14061	13902	13912
55	13314	13733	13150
65	12171	12211	7019
75	11000	6317	5502
85	5094	2342	2315

Modular F-Bay Power Supply Option

Cooper Lighting's F-Bay Modular Power Supply option is available for use with all F-Bay products. The modular power supply allows external fixture access for safe and easy servicing. There is no need to remove lamps or reflectors to disconnect fixture power with F-Bay Modular Power Supply. Access to the individual fixture's power supply allows servicing without turning off all the fixtures, disrupting occupants. F-Bay Modular Power Supply is a time saver in installation – **simply plug & power.**



1. Modular Power Supply Receptacle supplied mounted into fixture Access Plate
2. Modular Power Cord & Plugs in 120, 277, 347, & 480V configurations for easy plug & power into existing supply

No internal fixture access required for installation or disconnecting power

Modular Motion Sensor Option supplied with Mounting Box and Modular Power Supply Receptacle

Code Compliance

- UL/cUL Certified for Make/Break under load (UL2549)
- Meets NEC requirements for ballast disconnect (NEC 410.73G)
- Allows for addition of Occupancy Sensor without hard connections
- Receptacles complete with insulating/dust cap



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LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
55°C	> 84%	> 142,000

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Catalog Number	Delivered Lumens	Watts	Efficacy (lm/W)
HBLED-LD4-12-W-UNV-L850-ED1-U	12,505	104	120
HBLED-LD4-12-N-UNV-L850-ED1-U	12,156	104	117
HBLED-LD4-18-W-UNV-L850-ED2-U	19,358	152	127
HBLED-LD4-18-N-UNV-L850-ED2-U	18,818	152	124
HBLED-LD4-24-W-UNV-L850-ED2-U	24,002	203	118
HBLED-LD4-24-N-UNV-L850-ED2-U	23,332	203	115
HBLED-LD4-30-W-UNV-L850-ED3-U	29,302	228	129
HBLED-LD4-30-N-UNV-L850-ED3-U	28,483	228	125
HBLED-LD4-36-W-UNV-L850-ED3-U	35,944	307	117
HBLED-LD4-36-N-UNV-L850-ED3-U	34,941	307	114
HBLED-LD4-48-N-UNV-L850-ED4-U	46,312	401	115
HBLED-LD4-48-W-UNV-L850-ED4-U	48,108	402	120

AMBIENT RATINGS

Lumen Package	Ambient Rating	CD or 5LTD Driver	Lensed	EM Battery	HT Option
12,000	55°C	40°C	40°C	40°C	NA
18,000	55°C	40°C	40°C	40°C	NA
24,000	55°C	40°C	40°C	40°C	NA
30,000	55°C	40°C	40°C	40°C	NA
36,000	40°C	40°C	35°C*	35°C	NA
48,000	40°C	35°C	35°C*	35°C	50°C (17)

*Lens inserts only



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ORDERING INFORMATION

SAMPLE NUMBER: HBLED-LD4-18-W-UNV-L850-ED2-U Includes V Hangers for rapid installation

<p>Series ⁽¹⁴⁾ HBLED=LED High Bay Linear</p>	<p>Voltage ⁽¹⁾ 120V=120 Volt 277V=277 Volt 347V=347 Volt ^{(6), (10)} 480V=480 Volt ^{(6), (10), (16), (21)} UNV=Universal Voltage 120-277 UNC=Universal Voltage 347/480 ⁽⁶⁾</p>	<p>Driver Type CD=0-10V Dimming Driver ^{(7), (8)} ED=Electronic Fixed Output Driver ⁽⁷⁾ SLTD=Fixed Light DALI ^{(7), (8), (13)}</p>	<p>Options MP=Modular Power Receptacle (used for all Cord or Cord and Plug options) ⁽⁹⁾ Motion Sensors MS=360° or 180° Motion Sensor Installed, (specify voltage) ⁽⁹⁾ SVPD3=Integrated occupancy and daylight dimming sensor, 1200 sq. ft. coverage ^{(16), (28)}</p>	<p>Packaging U=Unit Pack PALC=Job Pack In Carton</p>
<p>Lamp Type LD4=LED 4.0</p>	<p>CCT L835=3500K L840=4000K L850=5000K</p>	<p>Number of Drivers 1=1 Driver (12,000 lumen version) 2=2 Drivers (18,000 and 24,000 lumen version) 3=3 Drivers (30,000 and 36,000 lumen versions) 4=4 Drivers (48,000 lumen version)</p>	<p>Accessories (order separately) HBL-SPM=Single Monopoint Hanger w/Hub HBL-SPM-S=Surface Mount Bracket FH-1=Fixture Hook FL-1=Fixture Loop Y-TOGGLE=Y Mounting Toggle, #2 Cable (8) (Specify 10' or 30', requires 2 per fixture) HBAYC-CHAIN/SET/U=(2) V-Hook Hangers, 36" Chain Sets w/S-Hooks MPC3=3' Modular Power Cord & Plug (Specify Voltage) MC6=6' Modular Power Cord MPC6=6' Modular Power Cord & Plug (Specify Voltage) MMS=360° or 180° Aisle Motion Sensor with Modular Power Receptacle (120-277V) WG/HBLG-4FT-B=Field Installable, Wireguard for HBLED ⁽¹²⁾ ISHH-01=Programming Remote for Integrated Sensor ISHH-02=Personal Control Remote for Integrated Sensor</p>	
<p>LED Lumen Output 12=12,000 Lumens 18=18,000 Lumens 24=24,000 Lumens 30=30,000 Lumens 36=36,000 Lumens 48=48,000 Lumens ⁽¹⁰⁾ 48HT=48,000 Lumens, 50° C Ambient ⁽¹⁷⁾</p>	<p>Options ⁽⁹⁾ Emergency EL7W=7-watt, 120V-277V emergency battery pack installed ⁽⁴⁾ EL14W=14-watt 120V-277V emergency battery pack installed ⁽⁴⁾ GTD2=Bodine Generator Transfer Device ⁽¹⁸⁾ ETS2=IOTA Emergency Transfer Switch ⁽¹⁸⁾</p>			
<p>Distribution N=Narrow (Aisle) W=Wide (General)</p>				
<p>Shielding (Blank)=None A=Prismatic Acrylic Lens & Doorframe ^{(6), (9), (11), (20)} CL=Clear Acrylic Lens & Doorframe ^{(5), (11), (20)} A/WG=Acrylic Lens, Wireguard & Doorframe ^{(6), (9), (11), (20)} CL/WG=Clear Lens, Wireguard & Doorframe ^{(6), (11), (20)} AI=Prismatic Acrylic Lens Insert ^{(6), (9)} CLI=Clear Acrylic Lens Insert ⁽⁶⁾ FLI=Frosted Lens Insert ^{(6), (9)} POLY125/WG=Polycarbonate Lens, Wireguard and Doorframe ^{(6), (11), (20)} POLY125=Polycarbonate Lens and Doorframe ^{(6), (11), (20)}</p>				

NOTES: ⁽¹⁾ Voltage must be specified when ordered with plugs or emergency drivers. ⁽²⁾ When ordering MS option, specify as UNV (for 120 or 277V), 347 or 480V. ⁽³⁾ Requires use of MC or MPC cord accessories, specify voltage for plugs (MP). ⁽⁴⁾ With integral test switch/indicator/flasher test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W = 7,500 lumens). IES format photometry for luminaire under emergency operation available. ⁽⁵⁾ EM options available in 0° - 40° ambient. ⁽⁶⁾ Not available with dual switching. ⁽⁷⁾ Lumen output will vary depending on dimming or fixed output drivers. Refer to IES files for delivered lumens. ⁽⁸⁾ Rated for 40°C ambient. ⁽⁹⁾ Not available with narrow distribution. ⁽¹⁰⁾ EM options not available with 30,000, 36,000 or 48,000 lumen configuration at 347V or 480V. ⁽¹¹⁾ Not available with 36,000 or 48,000 lumen configuration. ⁽¹²⁾ Not available with lens insert options AI, CLI and FLI or doorframe options A, CL and POLY125. ⁽¹³⁾ SLTD available with 12,000, 18,000 and 30,000 lumen packages only. ⁽¹⁴⁾ Designlights Consortium. ⁽¹⁵⁾ Qualified and classified for DLC Standard (some models are not DLC qualified), refer to www.designlights.org for details. ⁽¹⁶⁾ 40° max. ambient rating. ⁽¹⁷⁾ Integrated sensor limited to 36,000 lumens. ⁽¹⁸⁾ HT lumen package not available with 347 or 480V, emergency, dimming, or lensed options. ⁽¹⁹⁾ 480V not for use with impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). ⁽²⁰⁾ Used to transfer fixture to secondary power source for life-safety operation. When used with a dimming fixture, two devices are required to ensure control is disabled while operating under emergency power. ⁽²¹⁾ Integrated sensor not compatible with door frame. ⁽²²⁾ Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

SHIPPING DATA

Catalog No.	Wt.
HBLED-LD4-12	19 lbs.
HBLED-LD4-18	22 lbs.
HBLED-LD4-24	22 lbs.
HBLED-LD4-30	24 lbs.
HBLED-LD4-36	24 lbs.



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INTEGRATED SENSOR

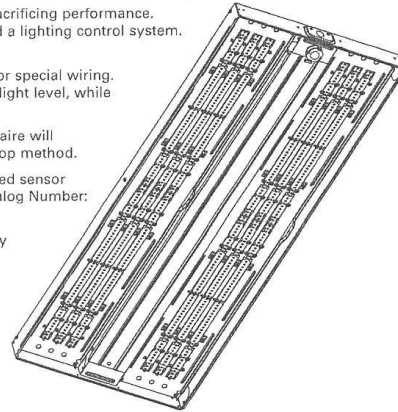
The HBLED with Integrated Sensor technology provides automatic energy savings without sacrificing performance. Traditionally, these types of energy savings required coordination between the luminaire and a lighting control system. The HBLED delivers superior lighting with integrated occupancy and daylighting controls.

Capture the benefits of traditional lighting controls, without complicated coverage planning or special wiring. Ideal for new construction or retrofit, the HBLED delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

The integral daylight sensor reduces the need for special daylight zone planning. Each luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method.

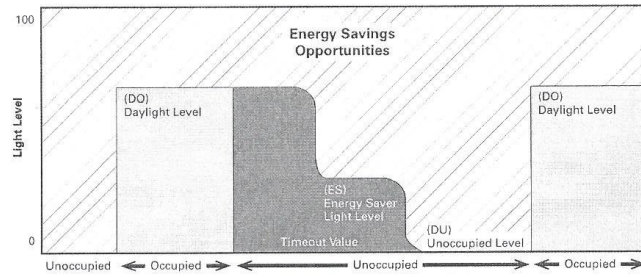
Occupied daylight light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH-01). The integrated sensor personal remote (Catalog Number: ISHH-02) provides code compliant manual raise, lower, ON, OFF control.

The HBLED with Integrated Sensor is easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.



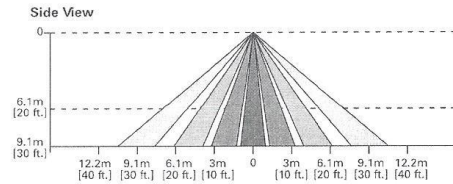
How it works:

- As the user enters the space controlled by the integral sensor, the lighting turns ON to the default daylight level.
- Lighting will remain at that the daylight level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).
- If the space remains unoccupied for half of the timeout period, the lighting will automatically reduce to the Energy Saver light level. This adjustable light level is typically half of the occupied daylight level.
- At the end of the timeout period the lighting will go to the unoccupied light level. This adjustable light level uses the OFF default setting.



Default daylight harvesting set using 36,000 lumen unit at 30 ft. mounting height, 20 ft. spacing for 50 footcandles.

SVPD3 Coverage Pattern



Optional Remote Controls



ISHH-01 Remote



ISHH-02 Remote



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