



**LEBANON HERITAGE COMMISSION
DECEMBER 13, 2023 - 6:00 PM
MEETING ROOM 1, CITY HALL OR
REMOTE VIA VIRTUAL PLATFORM
LEBANONNH.GOV/LIVE**

1. Call to Order

- A. To participate in this meeting, please [join live via Microsoft Teams](#) or call 929-229-5356 (access code: 121 009 035#). If you have trouble accessing this meeting, please [email catheryn.hembree@lebanonnh.gov](mailto:catheryn.hembree@lebanonnh.gov).

2. Approval of Minutes

- A. November 8, 2023
B. November 9, 2023 - Site Walk

3. Public Review

- A. **City of Lebanon** : Request for Certificate of Approval pursuant to Article IV, Section 408 Historic District of the Zoning Ordinance to expand and improve exterior lighting on the front façade, clock tower, office sides, and rear facade/fly tower of Lebanon City Hall with programable multi-color LED lights. The property is located at 51 North Park Street, Tax Map 91, Lot 246, Lebanon, NH in the LDD zone. HC2023-01 -
Continued from November 11, 2023

4. Study Items

- A. Dana House Update: Meeting with SAU 88 Update
B. CLG grant Phase 2 update
C. Mall Kiosk idea "Welcome to Lebanon's Historic District!"
D. Emergency preparedness inventory

5. Other Business

- A. Resolution for Fran Hanchett was presented at the December 6th City Council meeting.
B. JAM Ndakinna video launched

6. Open to the Public

7. Future Agenda Items

8. Adjournment

The order of agenda items is subject to change.

Meetings are open for in-person and remote attendance. Members of the public that wish to attend remotely may do so by going to [LebanonNH.gov/Live](https://lebanonnh.gov/live) where you will find instructions on how to enter the meeting. Members of the public will be able to participate and ask questions through the City's virtual platform or by phone. Please note: Should technical difficulties occur during the meeting that disrupts virtual or phone connection(s), the meeting will

continue without remote access capabilities.

DRAFT

**LEBANON HERITAGE COMMISSION
MEETING ROOM 3, CITY HALL OR
REMOTE VIA VIRTUAL PLATFORM
6:00PM, WEDNESDAY NOVEMBER 08, 2023**

MEMBERS PRESENT: Nicole Ford Burley (Chair and City Historian), Matt Smith (Vice Chair), Jeremy Rutter (Planning Board Rep.)

MEMBERS ABSENT: Devin Wilkie (City Council Rep), Karen Zook (Alt. Council Rep)

STAFF PRESENT: Nate Reichert (Director of Planning & Development/Zoning Admin)
Catheryn Hembree (Associate Planner, Planning Department), Rich
Adams (Custodian)

OTHERS PRESENT: Phil Harrison, Joe Clifford, Director of Lebanon Opera House
Samantha Davidson Green, Executive Director of JAM

1. CALL TO ORDER

Chair Ford Burley called the meeting to order at 6:01pm.

2. APPROVAL OF MINUTES – October 11, 2023

Amendments: Page 2 Line 17 & Page 3 Line 29: change “Riley” to “ Ford Burley”
Page 4 Line 13: Add “he” after “said”

A MOTION was made by Jeremy Rutter to approve the October 11, 2023 Meeting Minutes as amended. The Motion was seconded by Matt Smith.

** The Vote on the Motion was approved (3-0).*

3. Public Review

A. City of Lebanon: Request for Certificate of Approval pursuant to Article IV, Section 408 Historic District of the Zoning Ordinance to expand and improve exterior lighting on the front façade, clock tower, office sides, and rear facade/fly tower of Lebanon City Hall with programable multi-color LED lights. The property is located at 51 North Park Street, Tax Map 91, Lot 246, Lebanon, NH in the LDD zone. HC2023-01

Mr. Phil Harrison gave a history of the previous renovation projects for the Lebanon Opera House (LOH). He said LOH Director Joe Clifford proposed the idea to transform the experience for those who are associated with shows happening at LOH (staff, actors, crew, patrons), and the renovations associated with this project have been focused on this objective.

1 He said one idea was to make changes to the exterior lighting of City Hall so that, on
2 days when performances are happening, the building looks more animated.

3 He said color LED exterior lighting for the front and for the back area (where the
4 parking lot is located) has been proposed. He said the City has its own interest in
5 adding new lighting for decorative purposes for seasonal themes and messaging.

6 Mr. Harrison gave an overview of the LED lighting that is being considered:

- 7 • Lights to frame the clock tower (iconic element of the structure)
- 8 • Lights to wrap around the front and to the sides of the building
- 9 • Lights in the back of the building to illuminate the back brick wall and rear
10 parking lot

11 Mr. Clifford noted that this is LOH's 100th anniversary and the lighting proposal is not
12 structurally impactful but will add excitement and energy to the building within the
13 City landscape. He said the lights are designed by experts and would make great
14 architectural elements as well. He said they're hoping to create a City Hall "After
15 Hours" vibe. Mr. Harrison said the LED Lighting on the Empire State Building is an
16 example of the type of lighting technology being proposed.

17 Mr. Reichert asked how the existing lighting structure will work with the proposed
18 technology. He noted the two sconces on the front of the building are historic elements
19 that the City would want to preserve.

20 He said the side of the building (facing Mascoma Bank) has visible conduits running
21 along it; he also said the "safety" lighting installed on that side is necessary but
22 provides poor lighting for pedestrians near the building. He asked if the current lighting
23 and conduit could be replaced/removed as part of this project, so the lighting and the
24 design is improved on the side of the building.

25 Mr. Harrison said the lighting for the ground (safety lighting) would be replaced in the
26 project. He said hiding the conduit would be a question for the electricians. He said the
27 lighting proposal has been reduced to maintain the project budget but also to reduce the
28 need to drill holes into the structure to connect to the inside power source. He said the
29 lighting replacement proposal for the flagpoles was eliminated from the project
30 because they were told it would be very difficult to get power to the flagpoles.

31 He said the Lighting Designer had said the structure of the historic sconces could be
32 reused and have lights directed upwards only (the metal base of the sconces would
33 prevent downlighting from being used).

34 He said the team worked with the electrical contractor to try to minimize the amount of
35 exterior conduit but there will be some to direct power to the lights on the side of the
36 building. He said the current plan involves 44 holes drilled in the building and 50 lights
37 added to the exterior of the building.

1 He said the proposed lighting for the back of the building involves several fixtures
2 across the top of the building that would provide downlighting. He said he is not sure if
3 the City's light regulations, which include a 20-foot height limit, will allow the
4 proposed lighting plan for the rear.

5 Mr. Reichert said the Planning Board could waive the 20-foot restriction. He said there
6 are not a lot of details in the zoning ordinance about lighting, so there is not a lot of
7 guidance for the Heritage Commission. He said the building is perhaps one of the most
8 important architectural buildings in Lebanon. He said it will be very helpful to get
9 public input on this project in a public hearing setting.

10 Mr. Rutter asked about the part of the project that describes an art installation as
11 lighting on the back wall of the building. Mr. Harrison said the material that the
12 proposed lighting is made of is flexible and can be shaped into a musical note or an
13 abstract art configuration. He said that part of the proposal was added to the
14 application, but the design is not complete because that is still up for approval. He said
15 the flexible lighting design, if approved, would be fixed as one shape and would not be
16 changeable.

17 Mr. Rutter asked about the spillover of the lighting on the front of the building onto
18 North Park Street. Mr. Harrison said the Lighting Designer could provide more details
19 about the spillover. He said the plan directs the colored lights to wash against the walls.
20 He said the lights should be visible from Colburn Park but there is no light projecting
21 out onto the street. He said the front lights are dimmable and the colors have lower
22 lumens than white lights.

23 Mr. Smith asked about the lifespan of the proposed LED lights. Mr. Harrison said he
24 believed LED lights last thousands of hours. He said it may be 10-15 (estimated) years
25 before maintenance needs to be done on the LED lights.

26 Mr. Smith asked about the permanent changes that would need to be made to the clock
27 tower. Mr. Harrison said the power would be channeled through the interior of the
28 building through holes that would have to be cut in the clock tower. He said there is no
29 change proposed to the clock lights.

30 Mr. Rutter asked about lighting that could produce a light show, as opposed to static
31 lighting. Mr. Harrison said he thought there were prohibitions (or site plan restrictions)
32 on moving lights; he said they would also be costly.

33 Chair Ford Burley said the sconces on the front of the building are original to the
34 building. Mr. Smith asked if they were removed, could they be used somewhere else in
35 the building.

36 Mr. Rutter asked about the temperature of the proposed lights. He said the temperature
37 of lights is often a concern of the Planning Board. Mr. Harrison said the Lighting

1 Designer could best answer that question. Ms. Davidson Green (of JAM) noted that
2 LED lights are much cooler than traditional lights.

3 Mr. Reichert read the City's regulation relating to the temperature of lighting. He noted
4 the Dark Sky rule, which provides parameters related to light pollution and protecting
5 the sky environment for migrating birds and nocturnal wildlife.

6 Ms. Davidson Green noted that a lit candle = 3,200 Kelvin and daylight = 4,600
7 Kelvin. She said thermal temperature is not an issue for LED lights because they are
8 cool to the touch. Mr. Clifford reminded the group that the proposed lighting is accent
9 lighting, not wayfinding lighting. He said the system is programmable and the City and
10 LOH can control the hours that the lights are illuminated. Mr. Harrison said there will
11 be a control panel in the building and the lighting can also be controlled remotely if
12 someone has access to the City's network.

13 Mr. Adams noted that the lighting will also illuminate the finials and the tower on the
14 building, which were recently refurbished.

15 Chair Ford Burley said she is supportive of adding LED lighting. She said the design
16 for the exterior will have to be discussed, but she said she did like the idea of adding
17 something visually interesting. She said the sconces on the front of the building are
18 historic and are an important part of the building that she feels need to be retained.

19 Mr. Smith agreed that he'd like to see the sconces retained. He said he sees the need to
20 evolve, however; he asked if there was some way to integrate them into the design. Mr.
21 Harrison said the lights in the sconces could be replaced with the LED lights and color-
22 coordinated with the others. He said it could be discussed with the Lighting Designer.

23 Mr. Harrison asked if there's a way to experiment with a lighting design without
24 significant impact to the structure of the building. He also asked if he could get more
25 information and come back to the Heritage Commission with answers to their
26 questions. Mr. Reichert said he could come back to a future meeting and discuss the
27 plan again.

28 He said the outstanding questions about the plan are:

- 29 • How to best accommodate the historic sconces on the front of the building
- 30 • Can the lights on the side of the building be replaced to still provide ample
31 "safety lighting" for pedestrians
- 32 • How to provide lighting for the flagpoles

33 [Ms. Davidson Green asked if the agenda item that involved the JAM video could be discussed
34 at this time because she needed to leave the meeting. Chair Ford Burley halted the Permit
35 Review discussion to move to Study Item B]

1 **4. Study Items**

2 **B. JAM land acknowledgement and indigenous history video**

3 Ms. Davidson Green said the process to create the video was very challenging because
4 many people were reluctant to share their history. She said it was an extremely rewarding
5 project in the end for herself and her staff. She said the theme of the video that emerged
6 was the City's commitment to the relationship and the land acknowledgement. She said
7 the final video is an educational guide that can be shared with school, church, and civic
8 groups. She said the final running time of the video, with the credits, is 19 minutes. Chair
9 Ford Burley said the final product is fantastic and the team did a great job. Mr. Smith said
10 he appreciated the scenery images. Ms. Davidson Green said that no stock photography
11 was used, and every image used was taken in and around the City.

12 [The Permit Review discussion continued.]

13 Mr. Reichert said he would compile all the outstanding questions from the Heritage
14 Commission and send them to Mr. Harrison via email.

15 *A MOTION was made by Nicole Ford Burley to continue the discussion about the City*
16 *of Lebanon's Request for Certificate of Approval pursuant to Article IV, Section 408*
17 *Historic District of the Zoning Ordinance to expand and improve exterior lighting on*
18 *the front façade, clock tower, office sides, and rear facade/fly tower of Lebanon City*
19 *Hall with programable multi-color LED lights to the December 13, 2023 Heritage*
20 *Commission Meeting. The Motion was seconded by Matt Smith.*

21 ** The Vote on the Motion was approved (3-0).*

22

23

24 Mr. Smith said this is a new idea for Lebanon Opera House and the Heritage Commission
25 wants to get this right and work together to come up with a plan that works for everyone.
26 He said if it weren't for the City Hall Building and Colburn Park, the historic district
27 would probably not exist, so this is the core of what the Heritage Commission is for.

28 [The members of the Commission discussed the next items out of the order that was published
29 on the Meeting Agenda.]

30 **4. Study Items**

31 **C. Dana House tour and planning**

32 Mr. Reichert said the tour, planned for November 9 at 9:00am, is a formal special
33 meeting so that all the members of the can attend. He said members could wear a mask
34 if they had concerns about air quality in the building.

35 **5. Other Business - Associate Planner introduction**

36 Chair Ford Burley welcomed Catheryn Hembree, who was recently hired as an Associate
37 Planner for the City. Ms. Hembree spoke about her education and experience and said she
38 has a background in historic preservation planning. Mr. Reichert noted Ms. Hembree will
39 be the Planning Department representative for the Heritage Commission going forward.

1 Mr. Reichert said working with the Heritage Commission has been a nice journey for him
2 and he will miss working with them.

3 **4. Study Items**

4 **A. Zoning Amendments Approval**

5 Mr. Reichert said he proposed the addition of the word “fenestration” to the language
6 of Section 408.4 Item C Number 3 of the Zoning Ordinance to read: “Replacement of
7 doors, windows, and the change in fenestration if it involves changes in the size,
8 location, or number of openings in the exterior or façade of the building.” He said the
9 City’s legal counsel did not like the word because it was too technical. He said an
10 example is how a change to the interior of the building (i.e., adding new interior
11 lighting) affects the exterior of the building (i.e., new lighting is visible from the
12 exterior and changes the appearance of the building from the outside). He said no one
13 would think of sending a change like that to the Heritage Commission for input, but
14 such a change may impact the night view of the building.

15 Mr. Reichert outlined the process that changes to the zoning ordinance would take and
16 said they could be enacted as early as January 2025. Mr. Reichert said the ordinance
17 review is a chance to clarify the language of the ordinance to best serve the Heritage
18 Commission. He said he doesn’t know how new historic districts are designated and
19 that should be clarified while the zoning ordinance is being reviewed.

20 Mr. Smith said his notes (of structure elements that are not under the purview of the
21 Heritage Commission) include roofing materials, changes to siding, doors and
22 windows, and landscaping (including fences). Mr. Reichert said those considerations
23 could be included as part of the zoning ordinance review.

24 Mr. Rutter suggested that the City Hall Lighting Plan, discussed earlier in the meeting,
25 should be submitted to the Planning Board for review. Mr. Reichert agreed and said he
26 will speak to Deputy Planning and Development Director Tim Corwin about getting at
27 least a recommendation from the Planning Board.

28 Mr. Reichert said he was not sure what the timeline for the consultant working on the
29 zoning ordinance review is. Chair Ford Burley said the zoning ordinance review is part
30 of the CLD Block Grant.

31 **D. Emergency preparedness inventory**

32 Chair Ford Burley said Devin Wilkie had created a document with details about how
33 to prioritize the historically significant buildings and items that should be preserved in
34 the event of a disaster, like a fire or flood.

35 She said the document is organized by Top Priorities and a list of Exclusions
36 (structures that the Heritage Commission may not need to include on its priority list

1 because they may already have a plan). She said, based on this criterion, she suggested
2 the following historic structures be included:

- 3 • Soldiers Memorial Building – contents and stained glass are historically
4 important
- 5 • Carter House – houses the Historical Society collection and other Carter family
6 memorabilia
- 7 • Former Seminary Hill School – may still house school records
- 8 • Packard Hill Covered Bridge – culturally significant structure

9 Mr. Smith suggested the Carter Community Building could be added to the list. Chair
10 Ford Burley said she assumed it already had a plan, but if there's none, it should be
11 added to the list.

12 ***A MOTION was made by Matt Smith to extend the meeting duration by 10 minutes. The***
13 ***Motion was seconded by Jeremy Rutter.***

14
15 **** The Vote on the Motion was approved (3-0).***

16 **6. Open to the Public**

17 No members of the public were present.

18
19 **7. Future Agenda Items**

20 None

21 **Trues Brook Road Bridge Project**

22 Chair Ford Burley said she received a letter from engineering consulting firm Hoyle Tanner
23 regarding the Trues Brook Road bridge project, asking for the Heritage Commission to
24 contribute “any information about cultural resources and significance in the vicinity of the
25 project” (i.e., stone walls, cemeteries, historical or archaeological resources). She said she did
26 not know of any cultural resources in the area. She said the only significant element of the
27 project is the bridge used to be a covered bridge. She asked if the bridge replacement could be a
28 covered bridge. Mr. Reichert said he would ask the engineer on the project whether the new
29 bridge could be a covered bridge, which would be a wooden bridge. Chair Ford Burley said the
30 letter allowed 30 days to reply about cultural resources.

31 **Resolution for Fran Hanchett**

32 Chair Ford Burley said Fran Hanchett, former City Historian, passed away recently. She read the
33 following proposed resolution, which, if approved, would be sent to the City Council for formal
34 adoption:

35 *WHEREAS Fran Hanchett served as the City Historian, and the first female City*
36 *Historian, for the City of Lebanon from 2020 to 2021; and*

1 *WHEREAS Fran Hanchett served as President and as a long-standing member of the*
2 *Lebanon Historical Society, providing leadership and historical expertise both to the*
3 *organization and to the community; and*

4 *WHEREAS demonstrating her commitment to preserving history, Fran Hanchett*
5 *documented all of the burials in the cemeteries in Lebanon and throughout the Upper*
6 *Valley and created the Adopt a Civil War Veteran program, through which 85 Civil War*
7 *veterans were recognized with military burial stones; and*

8 *WHEREAS in these capacities, Fran Hanchett dedicated herself to preserving the history*
9 *of Lebanon and its inhabitants, and to sharing this history with the community; and*

10 *WHEREAS Fran Hanchett further served on the City of Lebanon Board of Cemetery*
11 *Trustees from 2018 to 2023; and*

12 *WHEREAS Fran Hanchett's contributions to Lebanon and its history have been*
13 *significant and have served to highlight underappreciated aspects of the city's history and*
14 *its residents,*

15 *NOW THERFORE BE IT RESOLVED that the Lebanon City Council, on behalf of the City*
16 *of Lebanon, extends its sincere appreciation and gratitude to the family of Fran Hanchett*
17 *for her effort and knowledge shared with the community during her lifetime.*

18 *BE IT FURTHER RESOLVED that this Resolution be written upon the minutes of the*
19 *Lebanon City Council meeting.*

20 ***A MOTION was made by Matt Smith to submit the resolution honoring Fran Hanchett***
21 ***as written to the Lebanon City Council to issue a formal resolution. The Motion was***
22 ***seconded by Jeremy Rutter.***

23
24 **** The vote on the Motion was approved (3-0).***

25 **8. Adjournment**

26 ***A MOTION was made by Jeremy Rutter to adjourn the meeting at 8:10pm. The Motion***
27 ***was seconded by Matt Smith.***

28
29 **** The vote on the Motion was approved (3-0).***
30

31 **The meeting was adjourned at 8:10pm.**
32

33 Respectfully Submitted,
34 Paula Roux
35 Recording Secretary

**LEBANON HERITAGE COMMISSION
DANA HOUSE, 3 ELM STREET WEST LEBANON
9:00AM THURSDAY NOVEMBER 9, 2023**

MEMBERS PRESENT: Nicole Ford Burley (Chair and City Historian), Matt Smith (Vice Chair), Jeremy Rutter (Planning Board Representative)

STAFF PRESENT: Nate Reichert (Director of Planning & Development/Zoning Admin), Catheryn Hembree (Associate Planner), Rich Adams (City of Lebanon Department of Public Works)

OTHERS PRESENT: Andrew Cushing (NH Preservation Alliance)

The above-mentioned party met at the Dana House at 3 Elm Street in West Lebanon on Thursday November 9, 2023. The group walked through the main floor of the structure while Mr. Adams and Mr. Reichart explained what stabilization efforts have been done. The group reconvened in the new addition and discussed what could be done to the structure in order to preserve it but for it to also be rehabilitated and used. Mr. Cushing stated he may have some contacts and resources at the NH Preservation Alliance, and he would look into it for Lebanon. Planning Department Staff will schedule to meet with the SAU 88 staff to discuss the land-building partnership that is currently in place. The group then moved to the basement and viewed completed work to prevent flooding. The meeting ended at 10:15am.



CITY OF LEBANON ~ PLANNING & DEVELOPMENT

Heritage Commission Historic District Review Staff Memorandum HC2023-01 November 8th 2023 6:00 P.M.

APPLICATION INFORMATION

Application #: HC2023-01

Agenda Item: 3.A

Application Type:
Historic District Review

Location:
51 N. Park Street
Tax Map 91, Lot 246

Applicant:
Lebanon Opera House

Property Owner:
City of Lebanon

Zoning District:
Lebanon Downtown

Property Size:
+/-0.52 acres (+/-22,651.20 sq. ft.)

Overlay Districts:
Colburn Park Historic District

Previous HC Action (since 1995):
HC2017-01
HC2019-02
HC2019-03
HC2021-01

Other Approvals Required:
Building Permit

Attachments:
Application
GIS and street view photos

HEARING NOTICE

City of Lebanon: Request for Certificate of Approval pursuant to Article IV, Section 408 Historic District of the Zoning Ordinance to expand and improve exterior lighting on the front façade, clock tower, office sides, and rear facade/fly tower of Lebanon City Hall with programable multi-color LED lights. The property is located at 51 North Park Street, Tax Map 91, Lot 246, Lebanon, NH in the LDD zone. HC2023-01.

COMPLETENESS REVIEW

This application has been reviewed in accordance with section §408 Historic District of the Lebanon Zoning Ordinance. The Planning Office recommends that the Heritage Commission accept the application as complete enough to accept jurisdiction and commence review.

BACKGROUND

The property is the Lebanon City Hall re-constructed after a catastrophic fire on February 2nd 1923 and dedicated October 29th 1924. Lebanon City Hall is home to the Lebanon Opera House and the Lebanon City Government. The property is within the Colburn Park Historic District. The property is conforming by use and dimension to the LD Zoning District which requires a minimum lot size of 3,000 sq. ft. as the lot is 22,651.20 sq. ft, approx. 97.72' – 113.69' wide and 213.7' deep. The LD standard is for a 40' wide lot frontage. It appears the building is conforming to all the LD dimensional requirements.

PROPOSAL

The Lebanon Opera House proposes to illuminate the exterior of the building with a series of color changing LED lights pursuant to the submitted plans and specifications.

ZONING ORDINANCE REQUIREMENTS

Historic Commission – Certificate of Approval

A Historic Commission Certificate of Approval is required Pursuance to: *§408.4 Certificate of Approval Required. A Certificate of Approval shall be obtained from the Heritage Commission in the manner set forth herein prior to the commencement of any of the following activities within any Historic District:*

B. The addition to, alteration, or repair of any existing building which would require the issuance of a building permit pursuant to the provisions of the Lebanon Building Code, unless such addition, alteration, or repair does not, in any way, alter the exterior of such building;

The proposed illumination project requires that the applicant obtain a building / electrical permit and it alters the exterior of the building. Therefore, a Certificate of Approval from the Historic Commission is required.

ZONING ORDINANCE REQUIREMENTS

Historic Commission – Criteria for Review

408.6 Criteria For Review.

In determining whether or not to grant a Certificate of Approval, the Heritage Commission shall keep in mind the purpose set forth in Section 408.2 herein and shall consider, among other appropriate factors, the following:*

A. The historical or architectural value of a building and its setting;

B. In connection with additions, repair or restoration of any existing building, the compatibility of the exterior design, arrangement, texture, and materials proposed to be used in relationship to this existing building, its setting, and the Historic District as a whole; and,

C. The size, scale, and design of proposed construction in relationship to the existing surroundings, including consideration of such factors as a building's overall height, width, street frontage, number of stories, type of roofs, facade openings (windows and doors), and architectural details.

When the Heritage Commission determines that it is necessary or advisable in order to preserve or protect historically and/or architecturally significant buildings, the Commission may require preservation and/or accurate reproduction of exterior architectural features. Preservation and/or reproduction measures shall be completed pursuant to the "Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings."

Applications for Certificates of Approval may be denied if such denial is required to prevent construction or development which would conflict with the stated purposes of Section 408.2 herein.

**408.2 Purposes.*

The purpose of this Ordinance is to preserve the heritage and cultural resources of the City of Lebanon and, particularly, the City's structures and places of historic, architectural and community value in order to:

A. Establish and preserve districts in the City which reflect elements of its cultural, social, economic, political, community, and architectural history;

B. Conserve property values in such districts;

C. Foster civic beauty;

D. Strengthen the local economy; and,

E. Promote the use of historic districts for the education, pleasure, and welfare of the citizens of the City.

APPLICATION AND SUPPORT STATEMENT

The applicant has submitted testimony addressing the §408.6 Criteria for Review in an application received by the Planning and Development Department on October 25th 2023 (see attached).

STAFF COMMENTS

Planning Staff have reviewed the application and supporting materials. As the topic concerns the illumination of a building there are no specific standards that are articulated within the Zoning Ordinance. However, there are Lighting standards that are articulated within the Planning Board's development regulations. There is not an over-arching methodology for assessing the impact of the lighting of a building that is provided by the applicant. The lighting documents provided do not convey a foot-candle study. Be it direct light of reflected light there is not an appreciation as to how intense the light will be as it crosses the property line. This undefined quantity gives some concern, ambiguity of the light intensity is one that gives pause. Perhaps a more intense light impact study would be helpful in quantifying the possible impacts on the property.

Base safety light – What is the future of the existing safety lighting on the building? How will the walkways be illuminated? How will the existing safety lighting on the walkways mix with the colored lights and what visual impact will that create. Here is an example:



How will lights be powered? - Getting power to the lights the are proposed without a negative impact on the building may be challenging. Looking at the current building you will see conduit running on the outside of the building.

STAFF MEMORANDUM

HC2023-01-CA
51 N. Park Street
(Tax Map 91, Lot 246)
November 8th, 2023 HC Meeting
Agenda Item 3.A
Page 4 of 4

Existing Lights – There are several existing lights on the building. The front lights were re-conditioned several years ago. What is their fate? Additionally, there is a requirement to light the Flag poles on the front of the building. How will this required light be managed? With existing light sources or with an amendment or with a new method entirely?

Here are the examples:



Dark Skys – Will Dark Skys standards be met? There are Planning Board requirements that light should not be pointed skyward and be aimed in such a way as to meet the Dark Skys requirements.

Line Drawing and Lighting sheet – There appears to be a slight difference between the lights as depicted on the proposed color sheet and the line drawings. Specifically, along the upper-level ascent lights along the right side of the building. The two sheets appear to need to be harmonized.

Front Façade: Is the historic face of the building and the is the most photographed building in Lebanon.

Right Face: Is the ADA entrance for the facility, requires safety lighting for people to enter the building at night. Also faces a residential building that requires all lighting elements to be focused on the City Hall and not adversely impact the residents of the apartment buildings.

Rear Face: Faces a parking lot and is the industrial side of the building with the fly space and backstage entrances.

Respectfully submitted,

**Nathan Reichert, Director
Planning and Development Department
Zoning Administrator
Interim Heritage Commission Staff**

LEBANON APPLICATION FOR

SPECIAL EXCEPTION	☐	☐	SITE PLAN REVIEW
VARIANCE	☐	☐	SUBDIVISION
MOTION FOR REHEARING	☐	☐	LOT LINE ADJUSTMENT
APPEAL OF AN ADMIN. DECISION	☐	☒	OTHER (Heritage Commission)

PROPERTY OWNER (APPLICANT):

NAME: City of Lebanon TEL.#: 603-369-2027 (Phil Harrison)
 MAILING ADDRESS: 51 North Park Street
 E-MAIL ADDRESS: pdharrison@icloud.com

CO-APPLICANT, AGENT, OR LESSEE:

NAME: Lebanon Opera House TEL.#: 603-369-2027 (Phil Harrison)
 MAILING ADDRESS: 51 N. Park Street
 E-MAIL ADDRESS: pdharrison@icloud.com

PROJECT LOCATION:

TAX MAP #: 91 LOT#: 246 PLOT #: _____ ZONE: LD
 STREET ADDRESS OF PROJECT: 51 N. Park Street
 IS THIS PROPERTY LOCATED IN THE: WETLANDS ☐ YES ☒ NO HISTORIC DISTRICT ☒ YES ☐ NO
 FLOOD PLAIN ☐ YES ☒ NO

SCOPE OF PROJECT: LED exterior lighting for City Hall,

TYPE OF OCCUPANCY:

EXISTING ☐ VACANT ☐ ONE FAMILY ☐ TWO FAMILY ☐ MULTI-FAMILY ☒ COMMERCIAL ☐ INDUSTRIAL
 PROPOSED ☐ VACANT ☐ ONE FAMILY ☐ TWO FAMILY ☐ MULTI-FAMILY ☒ COMMERCIAL ☐ INDUSTRIAL
 IF USE IS COMMERCIAL OR INDUSTRIAL, PLEASE NOTE SPECIFIC USE: Local government, theater

SIGNATURE BLOCK:

FOR PLANNING BOARD APPLICATIONS ONLY: I, the undersigned, hereby submit this application on the date noted below with the knowledge and understanding that the Planning Board shall determine if the submitted application is complete according to its regulations at its next regularly scheduled meeting on _____, 20____, unless I personally request, in writing, that the Board delay its determination of completeness to a later date.

PROPERTY OWNER: Shawn Mulholland DATE: 10/24/2023

NOTE: IF, AS OWNER, YOU WISH TO DESIGNATE AN AGENT TO ACT ON YOUR BEHALF, PLEASE READ THE FOLLOWING AND SIGN BELOW: I hereby designate the person listed above as my agent for the purpose of procuring the necessary local permits for the proposed work as described herein. Representations made by my agent may be accepted as though made by me personally, and I understand that I am bound by any official decision made on the basis of such representation.

PROPERTY OWNER: Shawn Mulholland DATE: 10/24/2023

DATE RECEIVED	FILE # (MAP/LOT)	APPLICATION #	FEE - \$ AMOUNT	DATE PAID	VOUCHER #

(Last Revised 10/09/09)

City Hall Exterior Lighting Project

Introduction - Lebanon Opera House (LOH) in conjunction with the City of Lebanon as owner of the City Hall building is seeking a Heritage Commission Certificate of Approval to expand and improve the exterior lighting for City Hall as described below. LOH's rationale for expanding the exterior lighting is to provide the public and theatergoers with a better sense that City Hall is open during evenings when LOH hosts performances. At present, there is minimal exterior lighting for City Hall and as a result, the building appears closed and semi-dark from the exterior at night.

The proposed exterior lighting would accentuate the existing historic architecture of City Hall. The lighting would seek to wash the exterior walls and illuminate the clock tower with low energy LED lights, which can be programmed to display different colors. Areas proposed for this expanded lighting, as better viewed on the attached elevation plans and renderings include: a) the front façade; b) the clock tower; c) the office sides; and d) the rear wall or fly tower.

In addition to LOH's desire to better illuminate the building exterior on evenings when LOH is hosting performances, the City Manager has indicated the City's interest in utilizing the proposed lights for City uses. For example, during the holiday season the proposed lights could be colored in red and green to complement the large holiday wreaths hung above the main entrance. Likewise, to draw attention to the fight against cancer, the building could be washed in pink colors during Breast Cancer Awareness Month (October).

Below is a brief description of the lighting proposed for each exterior area of the building. There are also sections which analyze the proposed lighting against Heritage Commission purposes and with respect to the City's lighting regulations as set forth in the Site Plan Review regulations. Attachments to this narrative description include: a) exterior elevations of City Hall showing proposed locations for new exterior lights; b) renderings of City Hall providing a sense of how the building may appear with the addition of these lights; and c) fixture cut sheets and photographs to provide a sense of what the actual fixtures look like and whether or not these fixtures will be easily visible to passersby.

Front Façade - The front side of the building is the area that LOH and the City are most interested in improving the lighting of, due to its visibility from Park Street and from Colburn Park. For evenings when LOH is hosting a performance in the theater, the desire is to improve the lighting such that it is clear that the building is open and that access to the main entrance to the theater is visibly illuminated. Lighting fixtures proposed for the front include: 1) four LED sconces which will provide both down and uplighting of the façade on each side of the three main entry doors; 2) LED strip lights located on the interior of the arched windows above the three entry doors, which will provide some colorful illumination of the entry vestibule from the exterior; 3) LED lights positioned at the base of the three large arched windows on the Planning Department

level. These fixtures will wash the front façade to accentuate the windows and architecture; and 4) LED fixtures intended to wash the classical pediment above the front façade and the frieze above the office areas which face Colburn Park. It is important to note that in some cases, the type of proposed lighting includes washing walls of the building with fixtures that illuminate upwards. An example includes the fixture which would wash color on the triangular pediment above the main façade. However these fixtures are intended solely to wash the vertical surface of the building, not to direct light either skyward nor towards neighboring properties, and will be provided with shielding if necessary to control any unwanted light.

Clock Tower - In addition to the front façade, LOH and the City would also like to improve the lighting of the clock tower so that it is illuminated during evenings when LOH is hosting performances and at other times. The lights proposed for the clock tower are intended for direct view applications to accentuate the existing tower architecture by lighting the horizontal planes above and below the clocks and above and below the windows which are positioned above the clock faces (see attached elevations and renderings). It is important to note that unlike some of the fixtures proposed for the front façade which wash walls with light, the clock tower lights would be visible from beyond the property boundary, but only in a limited manner which outlines the existing building architecture. Furthermore, these lights are highly programmable and can be dimmed in a manner to limit any light trespass on neighboring properties. In addition, these programmable lights can be configured with timers so that any external visibility is limited to hours when LOH is operating or other times when the City wants to illuminate the clock tower.

Office Sides - The office sides of the building, the sides closest to the main entrance where the Planning Department and LOH offices are located would be illuminated with two types of lights which a) wash color on the walls above the top level (Planning Department) windows; and b) illuminate the frieze above the side walls.

Rear Façade or Fly Tower - Presently, from the parking lots located behind City Hall, the large, approximately 70 foot high brick wall at the back of the theater has no exterior lighting. LOH proposes to wash this wall in color from the top of the wall. In addition, LOH is proposing to install a form of line art using a fixture similar to the ones used for the clock tower, but which would be positioned against the large rear brick wall, using that surface as a sort of “canvas” washed in color. This fixture would be visible from beyond the property boundary, and would be intended to suggest that something was happening in the building during the evening. As mentioned, these LED lights are highly programmable, both in terms of output colors and in terms of scheduling. If desired, the use of the line art fixture could be limited to hours when LOH is open for evening performances.

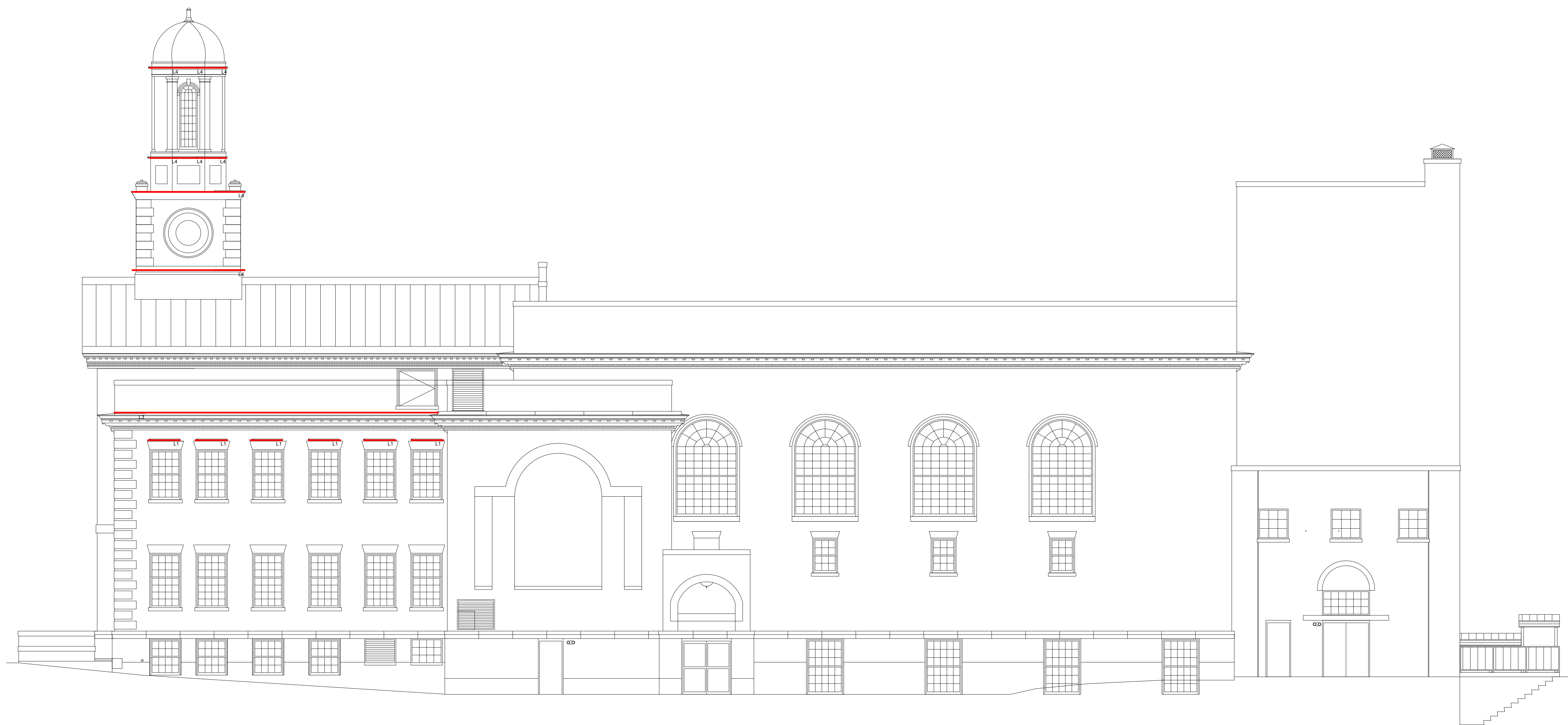
Heritage Commission Purposes - LOH believes the proposed lighting is entirely consistent with the purposes of the Historic District set forth in Section 408.2 of the Zoning Ordinance. Specifically, the lighting is intended to: a) reflect the architectural history of the Lebanon by enhancing the exterior lighting of a critically historic building;

b) foster civic beauty by improving the ability to appreciate the architecture of the building during evening hours; c) strengthen the local economy by encouraging nighttime activities in the Historic District including public arts performances and restaurant and other commercial uses; and d) promote the use of the area near City Hall for the education, pleasure and welfare of the citizens of Lebanon. In addition, LOH notes that the proposed exterior lights will not in any way modify or alter the existing building architecture. Rather, these lights are simply intended to showcase the historic City Hall architecture so that it is more visible during LOH evening performances and at other times.

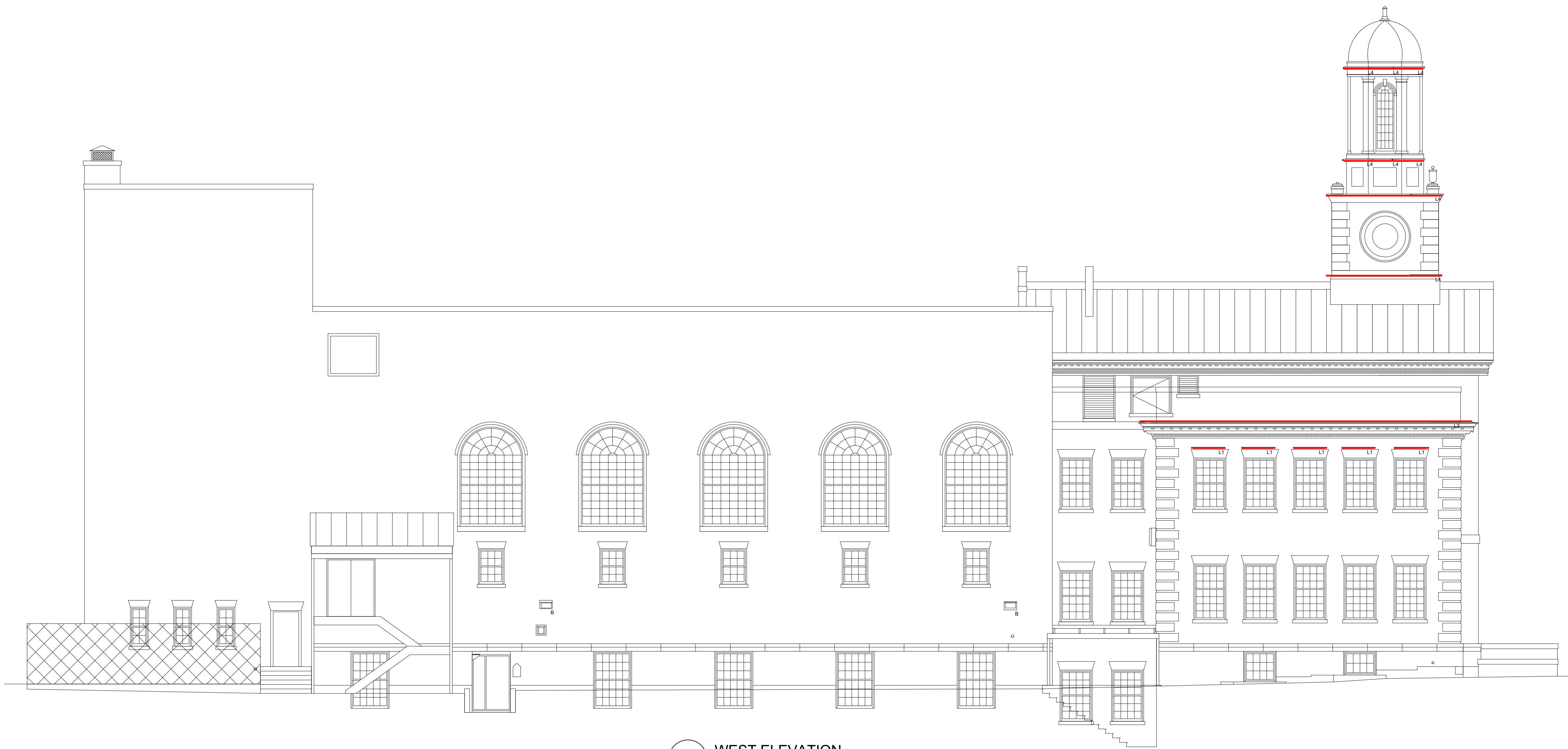
Site Plan Review Lighting Regulations - LOH has reviewed the proposed exterior lighting in the context of the City's Site Plan Review regulations for exterior lighting. In general, the proposed lighting conforms with these standards. In certain cases, there is ambiguity between the General Requirements set forth in Section 6.7 B and Lighting of Building Façades and Landscaping set forth in Section 6.7 E. These instances of ambiguity, and other instances where the proposed lights do not conform with the Site Plan Regulations are explained below:

- Fixture Height - Section 6.7 B 5 limits the height of light fixtures to 20 feet in commercial, institutional and mixed zoning districts. As noted above, lights proposed for the rear fly wall would be positioned above the 20 foot height limit. However, Section 6.7 E 4 requires that "to the extent possible, light fixtures shall be directed downward, below the horizontal plane." Because of the height the wall, it is not possible to meet both the height limit in the General Requirements and the downlight requirement established for building façades. The alternative would be to uplight the rear wall, which would conform with the height limit but would not meet the intent to downlight where possible.
- Fixture Type - Section 6.7 B 6 of the General Requirements states: "Technological advances in outdoor lighting may allow for options not otherwise considered in these Regulations. The use of new technologies, especially those that have energy-saving properties is encouraged." All the proposed fixtures for the exterior lighting incorporate low-energy LED type lights. Furthermore, LOH believes the fixture type proposed for the clock tower, rear wall line art, and at the bases of the front façade triangular pediment and office friezes represent newer, technologically advanced types of lighting which merit special consideration. While the clock tower lights are not intended to wash the clock tower faces, neither are these lights "directed towards adjacent properties, streets or roads, nor skyward" [6.7.E.2]. Rather, these fixtures are intended to glow dimly with warm colors, which outline the existing building architecture but do not provide glare or create light trespass onto neighboring properties. LOH believes the types of proposed lights are different than the type of lighting which the Site Plan regulations seek to regulate. Accordingly, LOH expressly hopes that the Heritage Commission and other planning regulatory bodies consider the specific type and use of the proposed fixtures, and the intended impact of such lights on City Hall as well as to the surrounding area when these lights are being utilized.

Conclusion - LOH and the City look forward to discussing the exterior lighting proposal with the Heritage Commission. The intent of these new lights is to accentuate the existing architectural elements of City Hall during evening hours, through the use of modern, technologically advanced, low-energy, colored LED light fixtures. While these lights are intended to draw attention to City Hall when in use, these fixtures do not produce glare, light pollution, or adversely impact dark skies. Furthermore, these lights are programmable in many ways. Foot-candles can be controlled in part by the color selected. Traditional bright white light colors produce the highest foot-candles, while darker hues such as blues, purples, reds and greens generate lower foot-candles. Finally, use of these exterior lights can be programmed to turn off after established times, or when LOH is not hosting evening performances. Thank you for your consideration.



1 EAST ELEVATION
Scale: 1/8" = 1'-0"



2 WEST ELEVATION
Scale: 1/8" = 1'-0"

Swaney Lighting
Associates
15 Pleasant Hill Rd
Scarborough, ME 04070
(207) 883-7100



PROJECT: LEBANON OPERA HOUSE/CITY HALL
LOCATION: LEBANON, NH

SYSTEM #:
REP: SWANEY LIGHTING ASSOCIATES

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REVISIONS

SCALE:
As Noted

DRAWN BY:
Jay Lehrhaupt

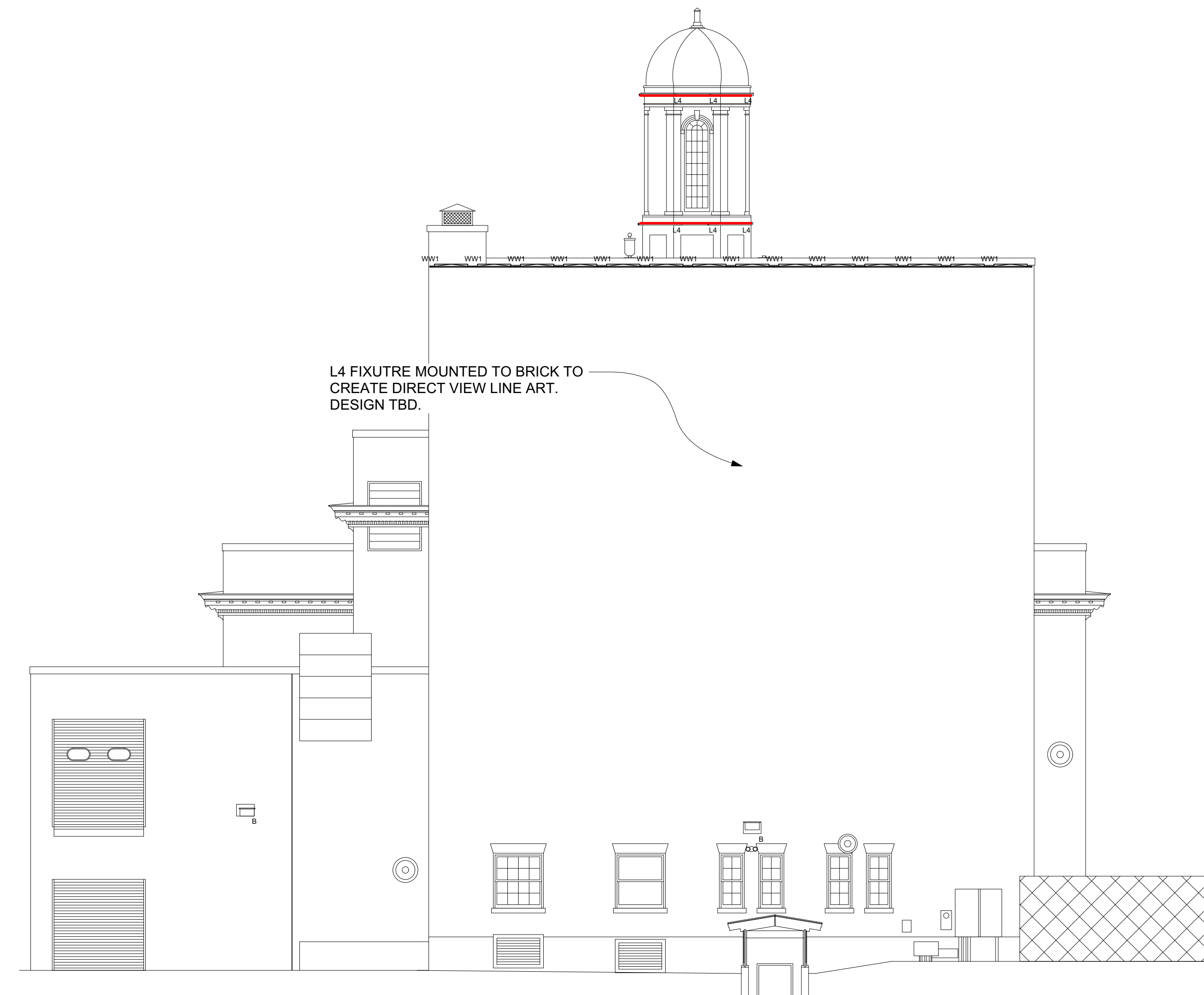
DATE:
Oct 23, 2023

DRAWING:

EXL-1



1 SOUTH ELEVATION
Scale: 1/8" = 1'-0"



2 NORTH ELEVATION
Scale: 1/8" = 1'-0"

FIXTURE SCHEDULE				
TYPE	DESCRIPTION	MFCTR	MODEL	NOTES
A	COLOR CHANGING CYLINDER SCENE WITH 16" UP AND 41" DOWN LIGHT	BK	MA-LED-C26-SP/FL-***-12-B-DMX	PROVIDE WITH DMX INTERFACE
A1	COLOR CHANGING CYLINDER SCENE WITH 16" UP LIGHT	BK	AP-LED-C26-SP-***-12-B-DMX	PROVIDE WITH DMX INTERFACE
B	WALL MOUNT SCENCE 3500 LUMENS 3000K WITH INTEGRATED SENSOR	CURRENT	LNC248L-25-3K7-FT-UNV--BLT-BTS012F	
FL1	3000K FLOOD LIGHT FOR FLAG	CURRENT		
L1	4' LINEAR RGBW FIXTURE 6W/FT WITH PER FOOT CONTROL; 10"X80" OPTICS	TRAXON	PP.L5.944452	
L2	4' LINEAR 3000K FIXTURE 6W/FT WITH PER FOOT CONTROL; 10"X80" OPTICS	TRAXON	XB.N7.8374110	
L3	IP67 DIGITAL RGBW TAPE WITH MOUNTING CHANNEL	TMB	FFLCDRGBWWB/FFALCH13PC12M	
L4	DIRECT VIEW LINEAR RGBW STRIP WITH PER FT RESOLUTION AND MOUNTING CHANNEL	TMB	FFFSDRGBWWB	
L5	4' LINEAR RGBW FIXTURE 12W/FT WITH PER FOOT CONTROL; 15" OPTICS	TRAXON	PP.L1.944423	
WW1	4' LINEAR RGBW WALL WASH 8000 LUMEN OUTPUT WITH PER FOOT CONTROL 9" OPTICS	TMB	SURGBW1161BBC00	

PROJECT: LEBANON OPERA HOUSE/CITY HALL
LOCATION: LEBANON, NH

SYSTEM #:
REP: SWANEY LIGHTING ASSOCIATES

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REVISIONS

SCALE: As Noted

DRAWN BY: Jay Lehrhaupt

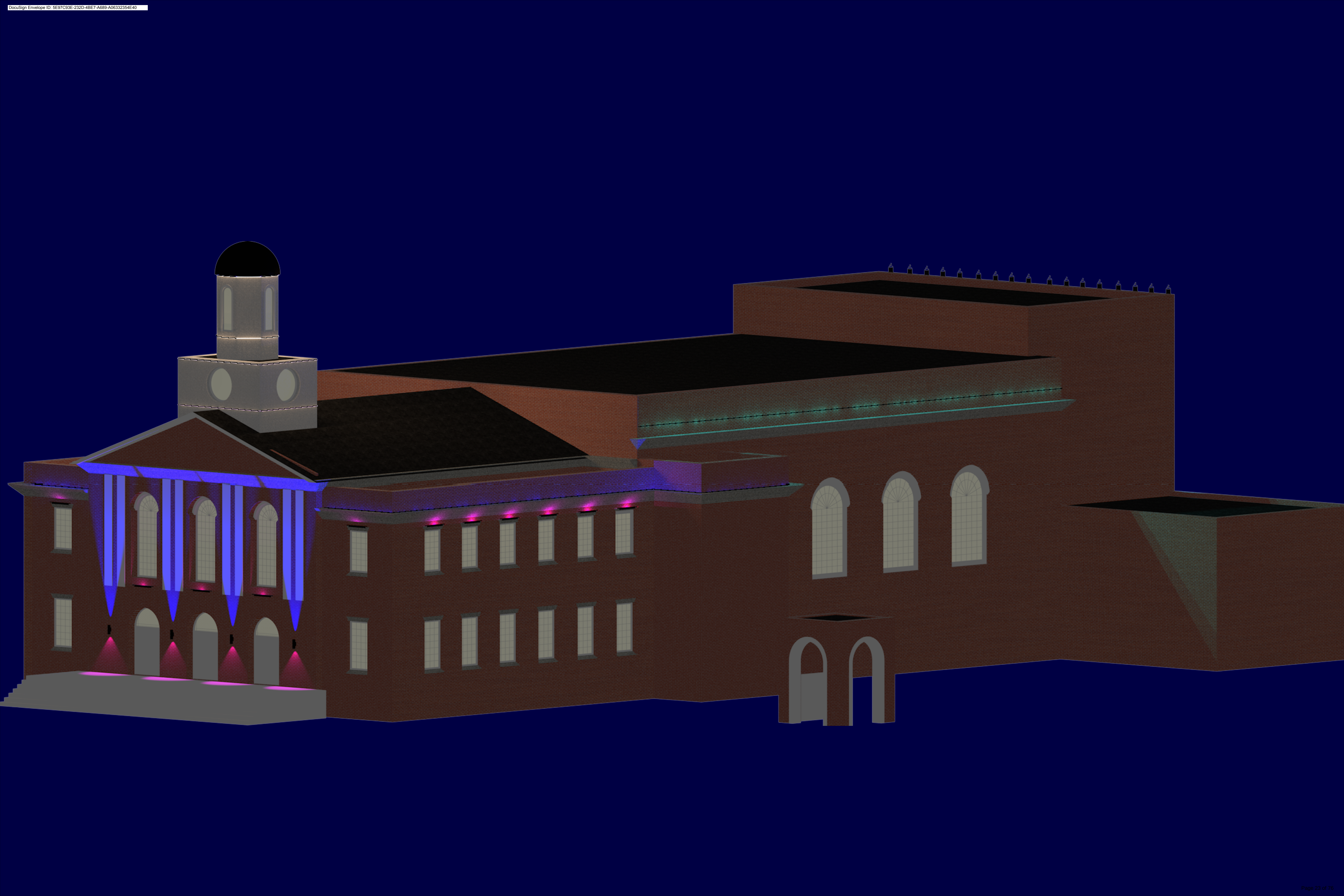
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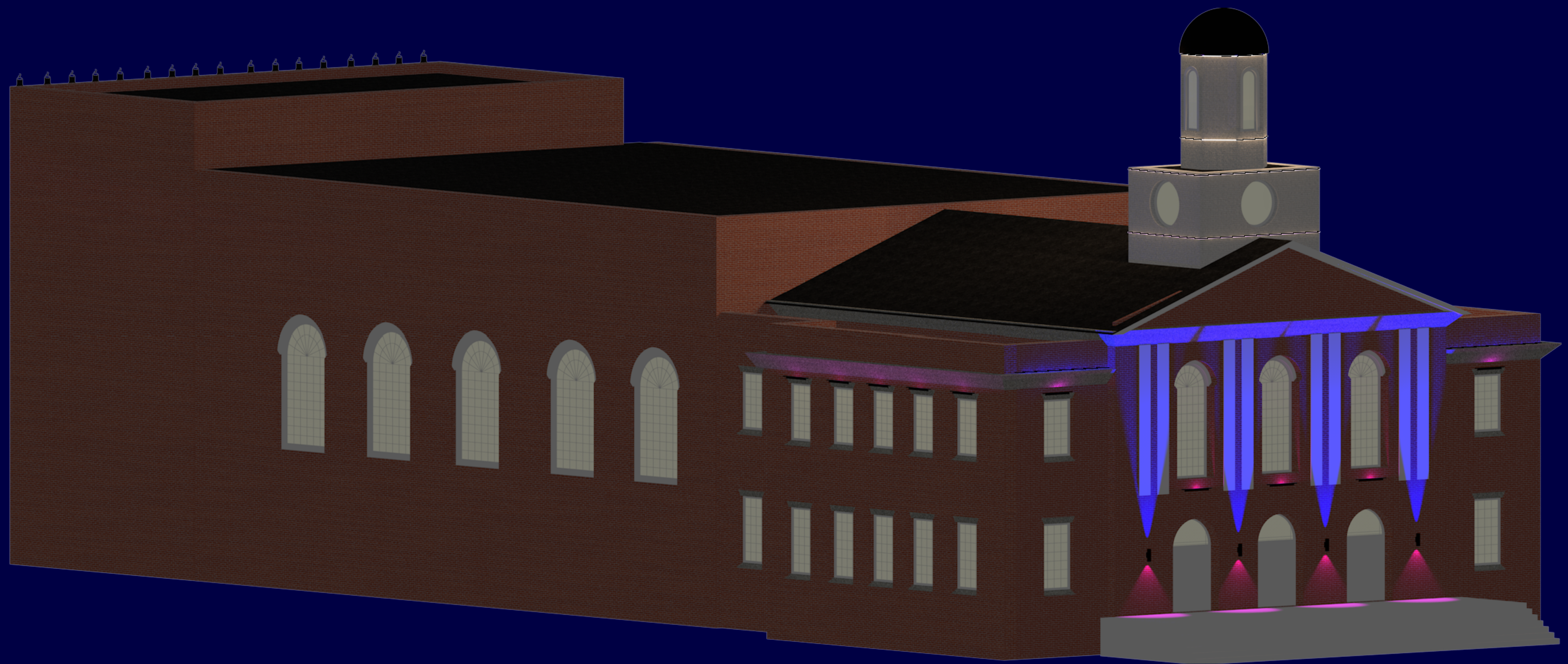
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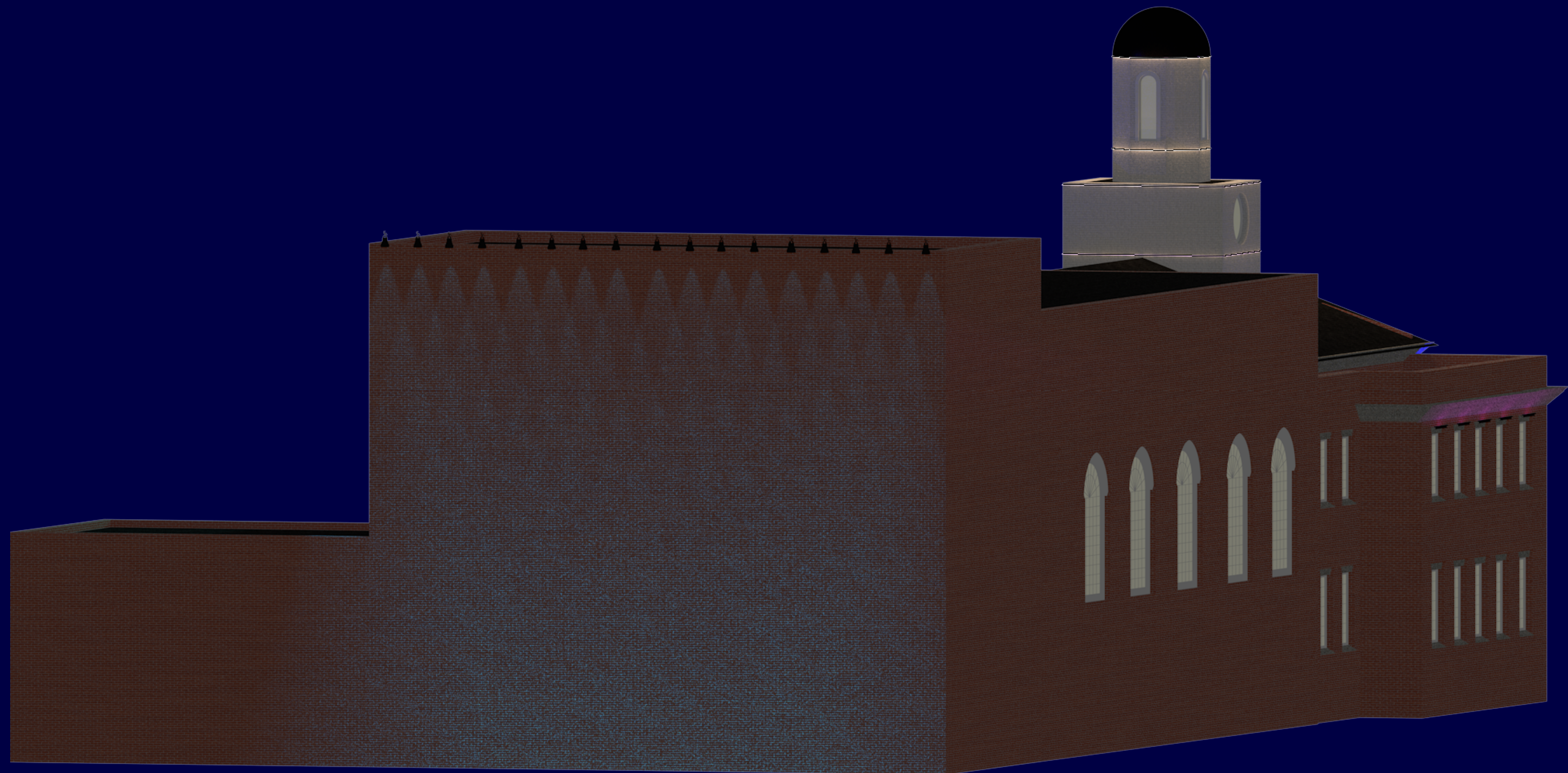
Swaney Lighting Associates
15 Pleasant Hill Rd
Scarborough, ME 04070
(207) 883-7100



EXL-2



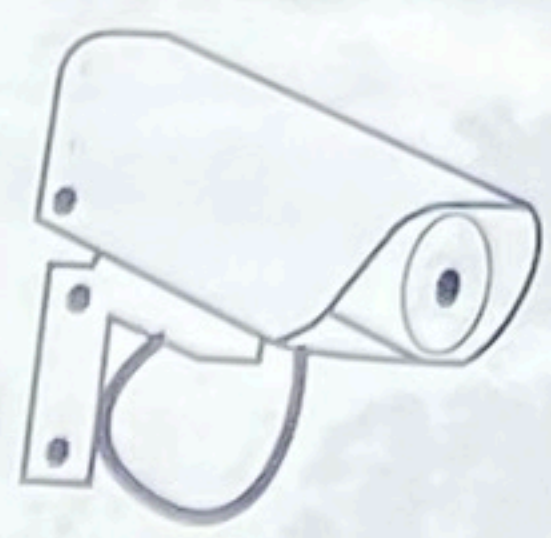




HALL



NOTICE



VIDEO
SURVEILLANCE
IN USE ON
THESE PREMISES



CITY

NO PUBLIC
RESTROOMS
FROM OCT 30-
NOV 8, WE
APOLOGIZE FOR
THE
INCONVENIENCE
PLEASE USE SIDE
ENTRANCE
→

RESTRICTED
AREA
CONSTRUCTION
WORK IN PROGRESS

At the
BRIGGS OPERA HOUSE
in
White River Junction VT
© 2018 by White River Junction, VT

NO PUBLIC
RESTROOMS
FROM OCT 30-
NOV 8, WE
APOLOGIZE FOR
THE
INCONVENIENCE
PLEASE USE SIDE
ENTRANCE
→

RESTRICTED
AREA
CONSTRUCTION
WORK IN PROGRESS





792

LEBANON
OPERA
HOUSE



NO PUBLIC
RESTROOMS
PLEASE USE THE
SIDE ENTRANCE
FOR THE
CONCERTS









DATE:	PROJECT:	TYPE: A
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CATALOG NUMBER LOGIC: **MA-LED-C26-SP/FL-BLP**

**Accommodates up to 2 shielding media. Two shielding prices required.*

CATALOG NUMBER LOGIC

Example: MA - LED - C26 - FL/FL - SAP - 12 - 11/11 - B

MATERIAL

Aluminum

SERIES

MA - Mammoth

SOURCE

LED - with Color Tuning Technology

LED TYPE

C26 - 42W LED/1650-8000K + Saturation and Hue

OPTICS

SP - Spot (16°) MFL - Medium Flood (34°) FL - Flood (41°)

FINISH (See page 2 for full-color swatches)

Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)

Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRM, HUG, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)

Also available in RAL Finishes

LENS TYPE

12 - Soft Focus

SHIELDING*

11 - Honeycomb Baffle

CAP STYLE

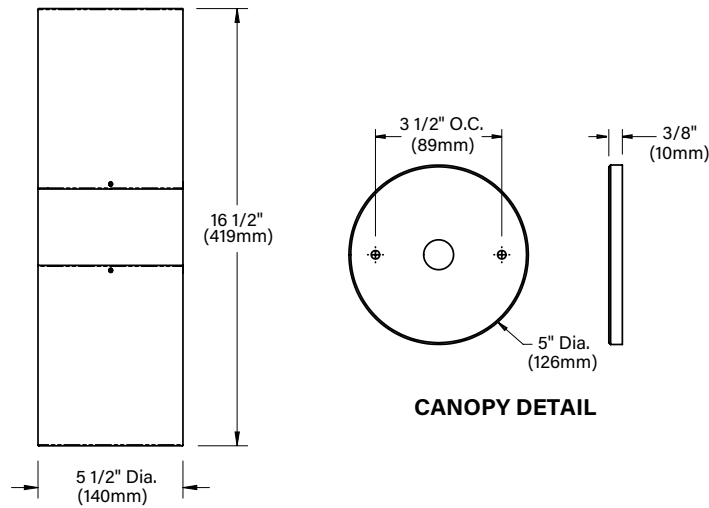
B - 90°

C - Flush

E - 90° Less Weephole (Interior use only)

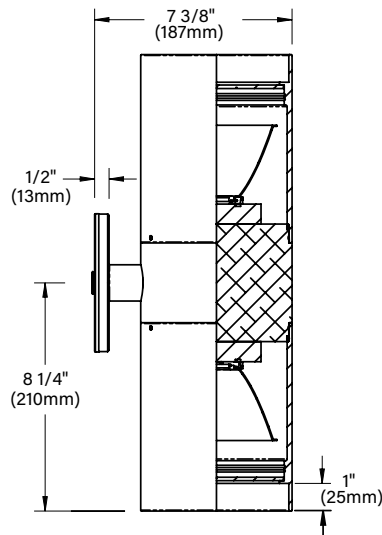
DATE:

PROJECT:

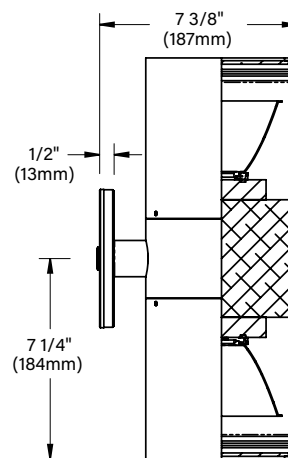
TYPE: **A**

CANOPY DETAIL

"B/E" CAP



"C" CAP



STANDARD FINISHES



[Click Here](#) to view larger, full-color swatches of all available finishes on our website.

PREMIUM FINISHES

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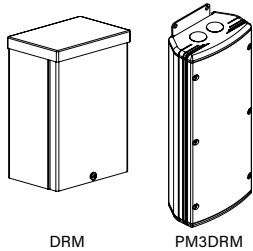
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12/06/2022 SKU-1279
SUB-2395-00

DATE:	PROJECT:	TYPE: A
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Accessories (Configure separately)

Drivers (Configure separately)



DRM

PM3DRM

SPECIFICATIONS

ELECTRICAL	WATTAGE	(2x) 42W
	INSPIRATION (Wireless Bluetooth® Controls)	Wireless communication system creates dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed via free Inspiration mobile application available at the Apple App Store. Requirements: iOS device with installed Inspiration app (not included). Compatible with iPhone® (4S or newer); iPad® (3rd gen or newer); iPad Mini®; iPad Air®; iPod Touch® (5th gen or newer).
	0-10V WIRED CONTROL	Requires two (2) sets of 0-10V industry wired controls; one provides CCT modulation between 1650K through 8000K in 1% increments and the second enables 5-100% dimming in 1% increments. Two (2) sets of control wires wired direct to the fixture. iOS device may also be utilized to select a single color point off the Planckian curve for dynamic full color output with the remaining functions enabled by the 0-10V controls.
	WIRING REMOTE DRIVER	XLPE Stranded 18GA wire. Rated 150C, 600V. For use with remote LED Driver. See remote driver submittal(s) to determine remote distance and wiring requirements prior to detailing field installation of any remote wiring.
PHYSICAL   	MATERIALS	Furnished in copper-free aluminum (6061-T6).
	BODY	Unibody design with enclosed, water-proof wireway and integral heat sink is fully machined from solid billet.
	CAP	Fully machined and accommodates one (1) lens or louver media.
	LENS	Shock-resistant, tempered glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.
	LED	Integrated solid state system is scalable for field upgrade, provides long life, significant energy reduction and exceptional thermal management. Modular design with electrical quick disconnects permit field maintenance. Minimum 50,000 hour rated life at 70% of initial lumens (L70).
	TUNABLE WHITE	Dynamically controlled, close tolerance system replicates a wide spectrum of natural white light. Enables continuous modulation from 1650K through 8000K CCT (+/- 2 SCDM). Dimmable from 5-100% in 1% increments. Precision control of high color values are maintained across the tunable range. Industry-leading CRI performance (RA @ 3000K 95. R9 @ 3000K 92).
	SATURATION & HUE	Provides additional flexibility to add varying levels of saturation and hue to a chosen fixed color point off the Planckian curve. Once a CCT value is selected, the saturation function allows movement away from the black body curve toward fully saturated color in 1% increments. The Hue function permits further refinement by circulating around the chosen color point in 1% increments.
	OPTICS	Batwing optics command control of light rays exiting luminaire for an even illumination with superior spacing criteria. Delivers wide-angle distribution while limiting undesired light in the glare zone above 60 degrees, creating a balance between wide spacing and visual comfort. The result is a more evenly illuminated area space and a huge energy savings by using fewer fixtures.
	INSTALLATION	5 1/16" dia., machined canopy permits mounting to 4" octagonal junction box (by others).
	HARDWARE	Tamper-resistant, stainless steel hardware. Canopy mounting screws are black oxide treated for additional corrosion resistance
	FINISH	StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant.
	WARRANTY	5-year limited warranty.
	CERTIFICATION & LISTING	ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use, in wet locations, and for installation within 4' of the ground. IP66 Rated. Made in the USA with sustainable processes.

B-K LIGHTING**MADE IN THE USA**

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12/06/2022 SKU-1279
SUB-2395-00

DATE:

PROJECT:

TYPE: **A1**

CATALOG NUMBER LOGIC:



Driver housing required. Configure separately.

CATALOG NUMBER LOGIC

Example: AP - LED - C26 - FL - SAP - 12 - 11 - B

MATERIAL

Aluminum

SERIES

AP - Alpine

SOURCE

LED - with Color Tuning Technology

LED TYPE

C26 - 42W LED/1650-8000K + Saturation and Hue

OPTICS

SP - Spot (16°) MFL - Medium Flood (34°) FL - Flood (41°)

FINISH (See page 2 for full-color swatches)

Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)

Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRM, HUG, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)

Also available in RAL Finishes

LENS TYPE

12 - Soft Focus

SHIELDING

11 - Honeycomb Baffle

CAP STYLE

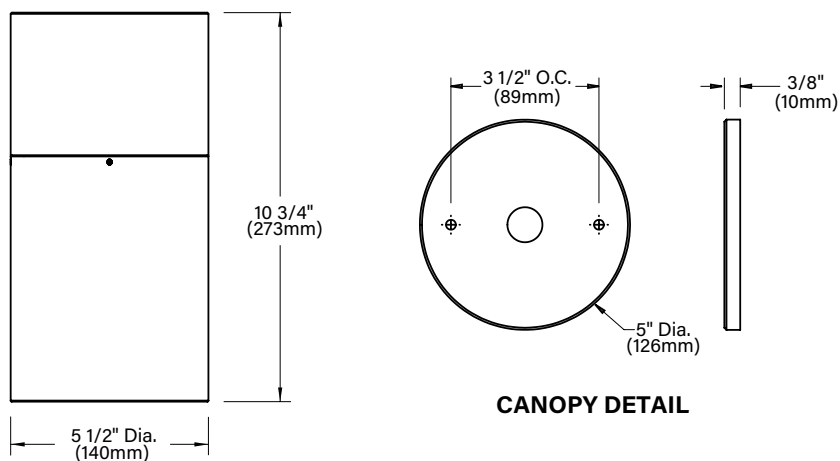
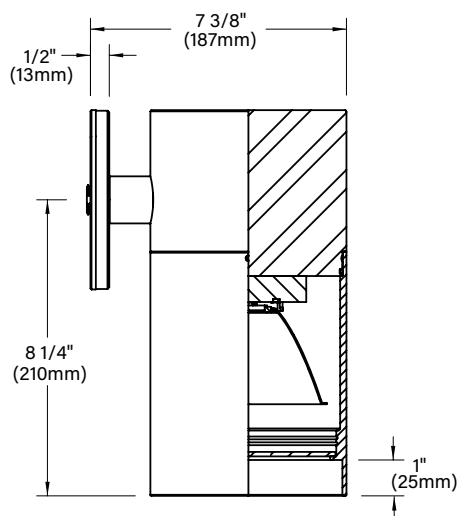
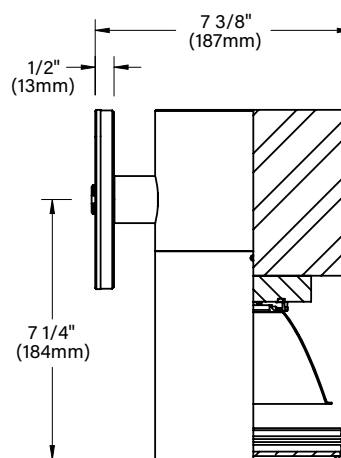
B - 90°

C - Flush

E - 90° Less Weephole (Interior use only)

DATE:

PROJECT:

TYPE: **A1****"B/E" CAP****"C" CAP****STANDARD FINISHES**

[Click Here](#) to view larger, full-color swatches of all available finishes on our website.

PREMIUM FINISHES**B-K LIGHTING****MADE IN THE USA**559.438.5800 | INFO@BKLIGHTING.COM | BKLIGHTING.COM

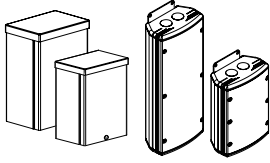
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12/06/2022 SKU-1278
SUB-2394-00

DATE:	PROJECT:	TYPE: A1
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Accessories (Configure separately)

Drivers (Configure separately)



DRM & RM PM3DRM & PM3RM

SPECIFICATIONS

ELECTRICAL	WATTAGE	42W
	INSPIRATION (Wireless Bluetooth® Controls)	Wireless communication system creates dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed via free Inspiration mobile application available at the Apple App Store. Requirements: iOS device with installed Inspiration app (not included). Compatible with iPhone® (4S or newer); iPad® (3rd gen or newer); iPad Mini®; iPad Air®; iPod Touch® (5th gen or newer).
	0-10V WIRED CONTROL	Requires two (2) sets of 0-10V industry wired controls; one provides CCT modulation between 1650K through 8000K in 1% increments and the second enables 5-100% dimming in 1% increments. Two (2) sets of control wires wired direct to the fixture. iOS device may also be utilized to select a single color point off the Planckian curve for dynamic full color output with the remaining functions enabled by the 0-10V controls.
	WIRING REMOTE DRIVER	XLPE Stranded 18GA wire. Rated 150C, 600V. For use with remote LED Driver. See remote driver submittal(s) to determine remote distance and wiring requirements prior to detailing field installation of any remote wiring.
PHYSICAL	MATERIALS	Furnished in copper-free aluminum (6061-T6).
	BODY	Unibody design with enclosed, water-proof wireway and integral heat sink is fully machined from solid billet.
	CAP	Fully machined and accommodates one (1) lens or louver media.
	LENS	Shock-resistant, tempered glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.
	LED	Integrated solid state system is scalable for field upgrade, provides long life, significant energy reduction and exceptional thermal management. Modular design with electrical quick disconnects permit field maintenance. Minimum 50,000 hour rated life at 70% of initial lumens (L70).
	TUNABLE WHITE	Dynamically controlled, close tolerance system replicates a wide spectrum of natural white light. Enables continuous modulation from 1650K through 8000K CCT (+/- 2 SCDM). Dimmable from 5-100% in 1% increments. Precision control of high color values are maintained across the tunable range. Industry-leading CRI performance (RA @ 3000K 95. R9 @ 3000K 92).
	SATURATION & HUE	Provides additional flexibility to add varying levels of saturation and hue to a chosen fixed color point off the Planckian curve. Once a CCT value is selected, the saturation function allows movement away from the black body curve toward fully saturated color in 1% increments. The Hue function permits further refinement by circulating around the chosen color point in 1% increments.
	OPTICS	Batwing optics command control of light rays exiting luminaire for an even illumination with superior spacing criteria. Delivers wide-angle distribution while limiting undesired light in the glare zone above 60 degrees, creating a balance between wide spacing and visual comfort. The result is a more evenly illuminated area space and a huge energy savings by using fewer fixtures.
	INSTALLATION	5 1/16" dia., machined canopy permits mounting to 4" octagonal junction box (by others).
	HARDWARE	Tamper-resistant, stainless steel hardware. Canopy mounting screws are black oxide treated for additional corrosion resistance
	FINISH	StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant.
	WARRANTY	5-year limited warranty.
	CERTIFICATION & LISTING	ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use, in wet locations, and for installation within 4' of the ground. IP66 Rated. Made in the USA with sustainable processes.

**B-K LIGHTING****MADE IN THE USA**

559.438.5800 | INFO@BKLIGHTING.COM | BKLIGHTING.COM

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12/06/2022 SKU-1278
SUB-2394-00

LAMP & DRIVER DATA

DATE:

PROJECT:

TYPE: **A1**

LM79 DATA

BK No.	CCT (Typ.)	CRI (R9@3000K)	Input Watts (Typ.)
C26	2700	95+	42W
	2700	95+	42W
	2700	95+	42W
C26	3000	95+	42W
	3000	95+	42W
	3000	95+	42W
C26	4000	95+	42W
	4000	95+	42W
	4000	95+	42W

L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L70)
50,000
50,000
50,000
50,000
50,000
50,000
50,000
50,000
50,000

OPTICAL DATA

Beam Type	Angle	CBCP	Source Lumens	Delivered Lumens
SP	16°	5,824	2000	834
MFL	34°	2,113	2000	801
FL	41°	1,611	2000	787
SP	16°	6,763	2000	968
MFL	34°	2,454	2000	930
FL	41°	2,076	2000	914
SP	16°	9,393	2000	1,345
MFL	34°	3,408	2000	1,292
FL	41°	2,598	2000	1,269

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Date: _____ Quantity: _____

Company: _____

Project: _____



ProPoint™ Linear SO RGBW

The ProPoint Linear SO RGBW is an AC Line powered luminaire in a slim profile. The ProPoint Linear SO RGBW is available in 8W (SO) or 12W (HO) per foot output, 4 beam options, standard & custom finishes which can meet the needs for most projects. The daisy chain topology is augmented with a separate Data Injector allowing single cable feed combining data and power to fixtures.

Product Specifications

Model	ProPoint Linear SO RGBW 1'	ProPoint Linear SO RGBW 4'
Light Source	4-in-1 LED cluster x 5	4-in-1 LED cluster x 20
Color Range	RGBW (White CCT: 4000K standard) Other White CCT and RGBA available ¹	
Beam Angle	15°, 25°, 35°, 50° x 30°, 105° x 105°	
Luminous Flux	332 lm @15°	1,275 lm @15°
Efficacy	41 lm/W @15°	43 lm/W @15°
Lumen Maintenance	L ₇₀ @ 25° 81,000 hours	
Cover Lens	Tempered Glass	
Housing	Die Cast Aluminum	
Adjustment Options	±90°	
Size	300mm x 58mm x 90mm (12" x 2.3" x 3.6")	1200mm x 58mm x 90mm (48" x 2.3" x 3.6")
Weight	1.35 kg (3 lbs.)	3.6 kg (8 lbs.)
Regulatory/Product Certifications	cETLus, FCC, RoHS, ASTM B117-16, ANSI 3G, IK08	
Operating Temperature	-30°C to +55°C (-22°F to +131°F)	
Minimum Starting Temperature	-20°C (-4°F)	
Storage Temperature	-40°C to +80°C (-40°F to +176°F)	
Environment	IP66 Outdoor, suitable for coastal environments	
Humidity	85%, non-condensing	

Electrical Specifications

Input Voltage ²	100-277V _{AC} 50/60Hz	
Wattage	8W	32W
Power Factor	≥0.9	

System Specifications

Power	AC Line
Control	DMX512, RDM Enabled
Power Supply	Integrated

1. No MOQ required. Please consult regional sales office for pricing and lead time.

2. Auto-switching. Single phase (line, neutral and ground).

LED CHARACTERISTICS: Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process always results in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

As with all electronic devices, LED output degrades over time – a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicated function involving many factors, such as operating efficiency, duration of continuous operation and, more significantly, environmental conditions (ambient temperature for example). If allowed, working under optimal operating temperature range and with good ventilation, LED devices enjoy long service lives over conventional light sources. When using/installing LED devices, care should be taken to ensure that the devices will operate within the operating conditions specified in respective product literature.

Lumen measurement complies with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

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ProPoint™ Linear SO RGBW

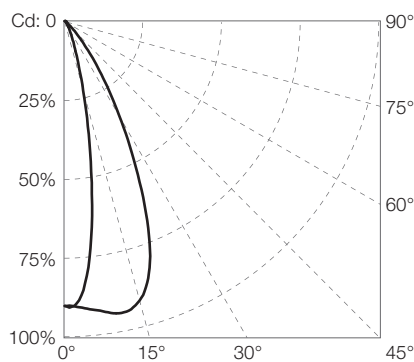
Photometrics

Source Specifications

LED Source	4-in-1 LED clusters x5 / x20
Beam Angle	50° x 30°
Cover Lens	Tempered Glass

Candela Distribution

Light Output



Color Temperature	Luminous Flux (lm)	Candela Distribution @100%	Efficacy (lm/W)
ProPoint Linear SO RGBW 50° x 30° 1'			
White (full on)	298.19	806.62	36.36
White (RGB off)	98.5	265.88	35.18
RGB	196.05	535.42	31.62
Red	52.85	141.34	24.02
Green	122.55	341.43	42.26
Blue	21.66	61.2	7.73

ProPoint Linear SO RGBW 50° x 30° 4'			
White (full on)	1,150.5	3,060.36	38.48
White (RGB off)	360.91	964.67	35.73
RGB	774.02	2,075.92	34.55
Red	207.99	577.15	25.36
Green	503.33	1,346.11	49.35
Blue	70.55	192.52	6.92

Illuminance at a Distance

ProPoint Linear SO RGBW 50° x 30° 1'

	Center Beam LUX	Beam Width	
		V	H
1m	767	0.29	0.97
2m	192	0.58	1.9
3m	85	0.86	2.9
4m	48	1.2	3.9
5m	31	1.4	4.9

- Vert Spread: 16.4°
- Horiz Spread: 51.8°

For feet multiply by 3.28

For fc divide by 10.7

ProPoint Linear SO RGBW 50° x 30° 4'

	Center Beam LUX	Beam Width	
		V	H
1m	2,815	0.36	1.0
2m	704	0.73	2.1
3m	313	1.1	3.1
4m	176	1.5	4.1
5m	113	1.8	5.2

- Vert Spread: 20.6°
- Horiz Spread: 54.8°

For feet multiply by 3.28

For fc divide by 10.7

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Product Specification

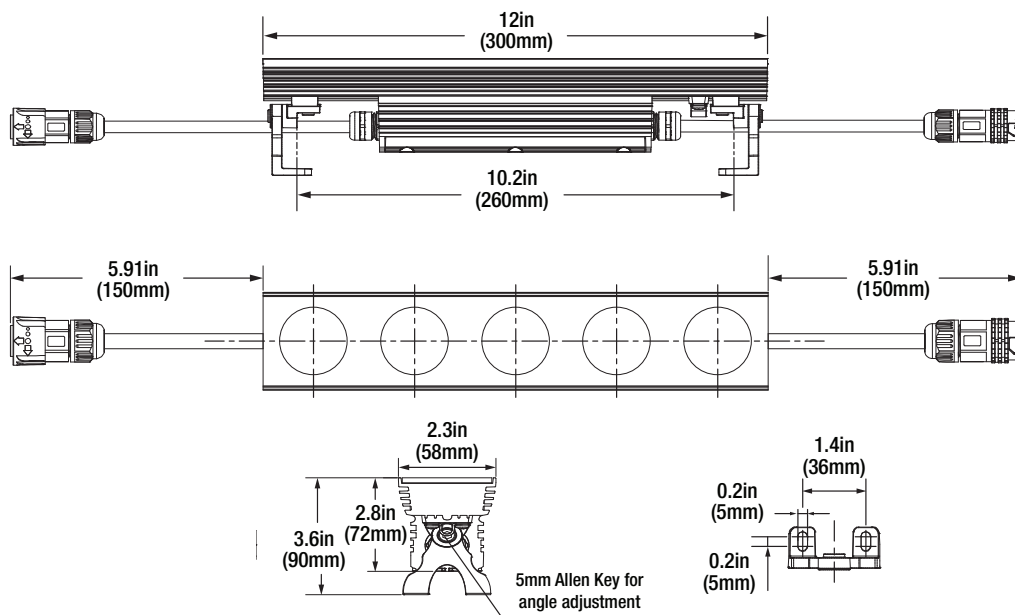
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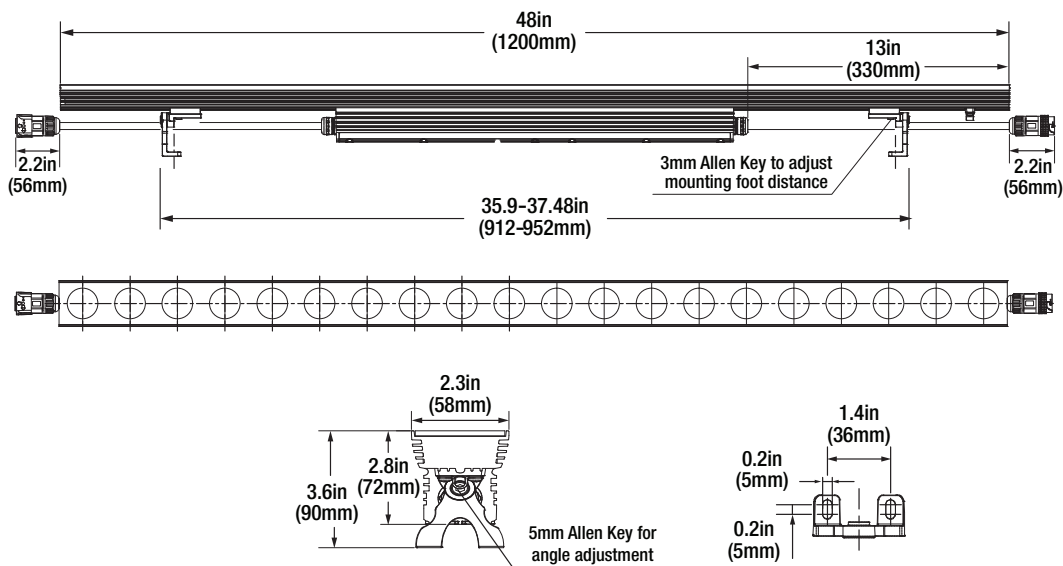
ProPoint™ Linear SO RGBW

Dimensions

ProPoint™ Linear 1'



ProPoint Linear 4'



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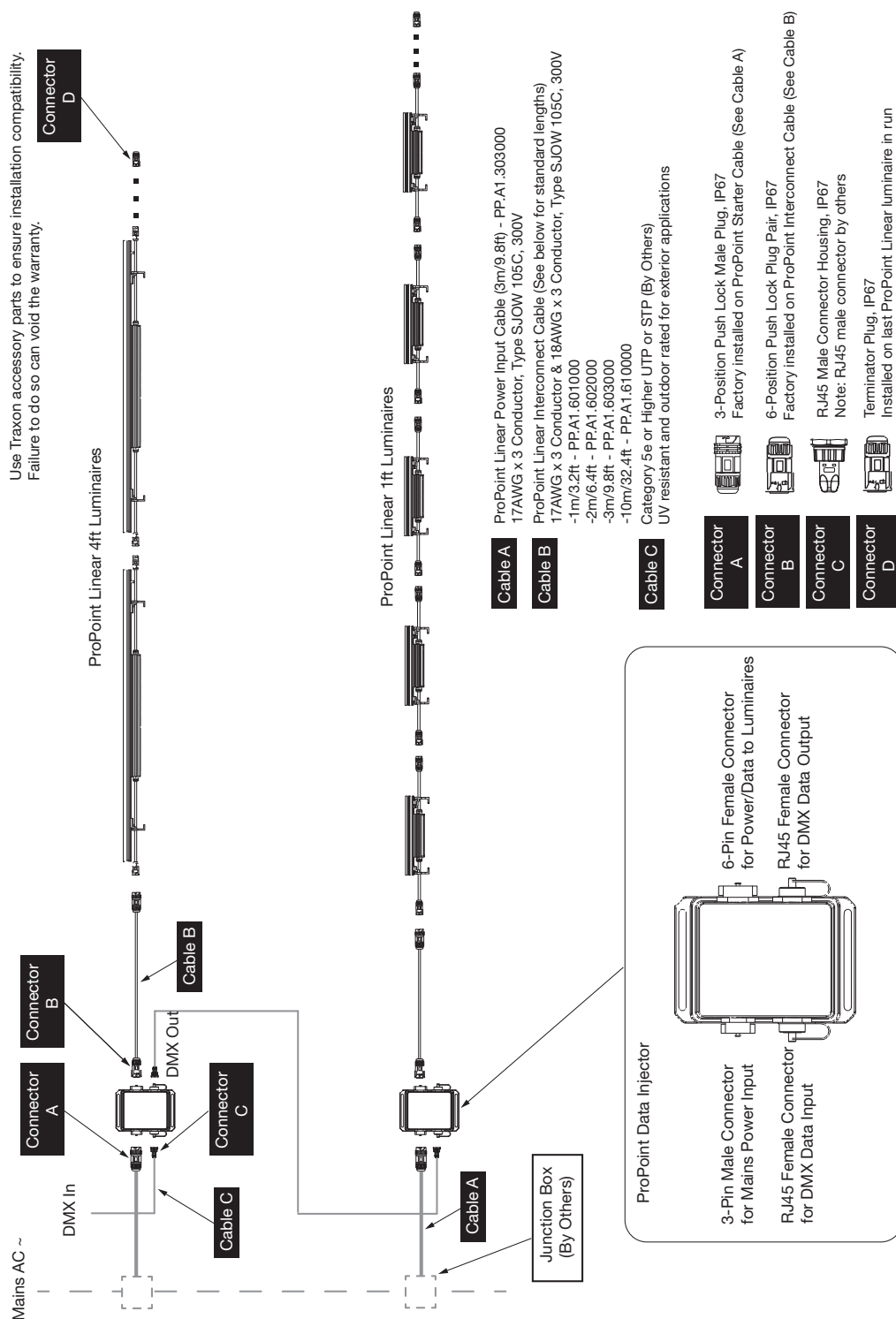
Product Specification

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ProPoint™ Linear SO RGBW

System Diagram



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Product Specification

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ProPoint™ Linear SO RGBW

Ordering

Model Number

PP	.	XX	.	9	4	4	4	X	X
ProPoint		Linear SO		Control	Color	CCT	Approbation	Optic	Finish
		L5 - 4' 32W		9: DMX	4: RGBW	4: 4000K	4: cETLus	2: 15°	1: Gray
		L8 - 1' 8W						3: 25°	2: Black
								4: 35°	3: White
								5: 50° x 30°	
								6: 105° x 105°	

Fixtures

Model Number	Description	Item Code
PP.L8.944421	ProPoint Linear SO (8W) 1' RGBW 15°	AM284280055
PP.L8.944431	ProPoint Linear SO (8W) 1' RGBW 25°	
PP.L8.944441	ProPoint Linear SO (8W) 1' RGBW 35°	AS000120055
PP.L8.944451	ProPoint Linear SO (8W) 1' RGBW 50°x30°	
PP.L5.944421	ProPoint Linear SO (32W) 4' RGBW 15°	AM284290055
PP.L5.944431	ProPoint Linear SO (32W) 4' RGBW 25°	
PP.L5.944441	ProPoint Linear SO (32W) 4' RGBW 35°	AS000130055
PP.L5.944451	ProPoint Linear SO (32W) 4' RGBW 50°x30°	
PP.L8.944422	ProPoint Linear SO (8W) 1' RGBW 15° BL	
PP.L8.944432	ProPoint Linear SO (8W) 1' RGBW 25° BL	
PP.L8.944442	ProPoint Linear SO (8W) 1' RGBW 35° BL	
PP.L8.944452	ProPoint Linear SO (8W) 1' RGBW 50°x30° BL	
PP.L5.944422	ProPoint Linear SO (32W) 4' RGBW 15° BL	
PP.L5.944432	ProPoint Linear SO (32W) 4' RGBW 25° BL	
PP.L5.944442	ProPoint Linear SO (32W) 4' RGBW 35° BL	
PP.L5.944452	ProPoint Linear SO (32W) 4' RGBW 50°x30° BL	
PP.L8.944423	ProPoint Linear SO (8W) 1' RGBW 15° WT	
PP.L8.944433	ProPoint Linear SO (8W) 1' RGBW 25° WT	
PP.L8.944443	ProPoint Linear SO (8W) 1' RGBW 35° WT	
PP.L8.944453	ProPoint Linear SO (8W) 1' RGBW 50°x30° WT	
PP.L5.944423	ProPoint Linear SO (32W) 4' RGBW 15° WT	
PP.L5.944433	ProPoint Linear SO (32W) 4' RGBW 25° WT	
PP.L5.944443	ProPoint Linear SO (32W) 4' RGBW 35° WT	
PP.L5.944453	ProPoint Linear SO (32W) 4' RGBW 50°x30° WT	

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Product Specification

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ProPoint™ Linear SO RGBW

Ordering

Accessories

Model Number	Description	Item Code
PP.AC.100001	ProPoint Data Injector Box (cETLus/CE)	AM280370055
PP.AC.100002	ProPoint Data Injector Box (cETLus/CE) BL	
PP.AC.100003	ProPoint Data Injector Box (cETLus/CE) WT	
PP.AC.600000	ProPoint Linear End Cap w/ Termination Resistor	AM280380055
PP.AC.400000	ProPoint RJ45 Field Install Connectors (pair)	AM280400055
PP.A1.303000	3m Power Input Cable (cETLus)	AM280360055
PP.A1.601000	1m ProPoint Linear Power/Data Int Cable (cETLus)	AM280310055
PP.A1.602000	2m ProPoint Linear Power/Data Int Cable (cETLus)	AM280330055
PP.A1.603000	3m ProPoint Linear Power/Data Int Cable (cETLus)	AM280340055
PP.A1.610000	10m ProPoint Linear Power/Data Int Cable (cETLus)	AM280350055
PP.LA.200011	Asymmetric Louver 1'	
PP.LA.200012	Asymmetric Louver 1' BL	
PP.LA.200013	Asymmetric Louver 1' WT	
PP.LA.200041	Asymmetric Louver 4'	
PP.LA.200042	Asymmetric Louver 4' BL	
PP.LA.200043	Asymmetric Louver 4' WT	
PP.LA.100001	Wall Mount Arm	
PP.LA.100002	Wall Mount Arm BL	
PP.LA.100003	Wall Mount Arm WT	
PP.AK.000003	ProPoint 3mm Allen Key	
PP.AK.000005	ProPoint 5mm Allen Key	

Our Brands



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Date: _____ Quantity: _____

Company: _____

Project: _____

Allegro Linear AC RGBW



The Allegro Linear AC RGBW family is a slim-profile, AC-line powered high-brightness luminaire. The family is controllable via DMX512, and is available in 1ft and 4ft lengths, with 16.7 million additive RGB colors plus white, and various optics. The simplicity of the luminaire's topology means it can be easily daisy-chained to form long runs. Remote Device Management (RDM) circuits are built into each luminaire that enables extensive control and monitoring of the entire lighting installation.

Product Specifications



DynaMood®

	300	1200
Light Source	High power LEDs	
Color Range	RGBW (white CCT 3000K)	
Beam Angle	10°, 40°, 60° × 10°, 60° × 30°	
Luminous Flux	778 lm	3132 lm
Efficacy	52 lm/W typ.	
Lumen Maintenance	L70 @25°C - 80,000hrs	
Cover Lens	Tempered glass cover	
Housing	Aluminium, powder coating	
Adjustment Options	±90 tilt	
Dimensions (L × W × H)	320 × 50 × 86mm 12.6" × 2.0" × 3.4"	1215 × 50 × 86mm 47.8" × 2.0" × 3.4"
Weight	2.0kg/4.4lb	5.5kg/12.1lb
Regulatory Listing & Safety Approval	cETLus, IEC 60598-2-3, 3G ANSI C136.31, IK07	
Operating Temperature	-30°C to +50°C / -22°F to +122°F (-20°C / -4°F starting)	
Storage Temperature	-40°C to +70°C / -40°F to +158°F	
Environment	Outdoor (IP66), suitable for coastal environments	
Humidity	85%, non-condensing	

Electrical Specifications

Input Voltage	120V - 277V AC nominal	
Power Consumption	15W	55W
Power Factor	≥ 0.9	

System Specifications

Power	AC line
Control	DMX512; Remote Device Management (RDM) DynaMood®: BinOne · BoostOne · AddressOne
Power Supply	Built-in
Fixture Interconnection	Refer to System Diagram

LED CHARACTERISTICS Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process results always in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

As with all electronic devices, LED output degrades over time – a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicate function of many factors such as operating efficiency, duration of continuous operation, and more significantly, environmental conditions (ambient temperature for example). If allowed working under optimal operating temperature range and with good ventilation, LED devices enjoy long service lives over conventional light sources. When using/installing LED devices, care should be taken to ensure that the devices will operate within the operating conditions specified in respective product literature.

Lumen measurement complies with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

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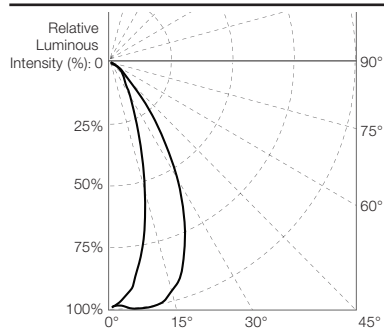
Allegro Linear AC RGBW

Photometrics

Source Specifications

Optics 60° x 30°

Candela Distribution

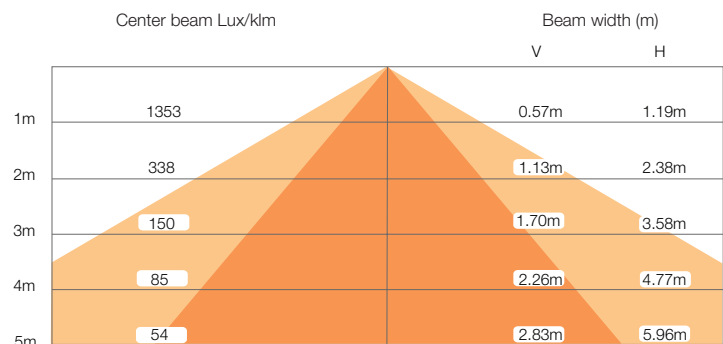


Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
White 4000K (RGBW full-on)	724.83	980.679	52.48
RGB	472.22	638.91	45.64
Red	131.97	178.549	25.23
Green	338.56	458.068	50.25
Blue	4.82	6.51762	1.46
White 3000K (RGB off)	253.25	342.637	42.43
1200			
White 4000K (RGBW full-on)	2956.23	3999.71	62.09
RGB	1925.98	2605.84	58.05
Red	538.23	728.199	39.03
Green	1380.83	1868.25	71.21
Blue	19.65	26.5708	3.4
White 3000K (RGB off)	1032.87	1397.43	60.61

Luminaire setting: White-balance mode.

Illuminance at a Distance



Vert. Spread: 61.6°
 Horiz. Spread: 31.6°

For fc divide by 10.7

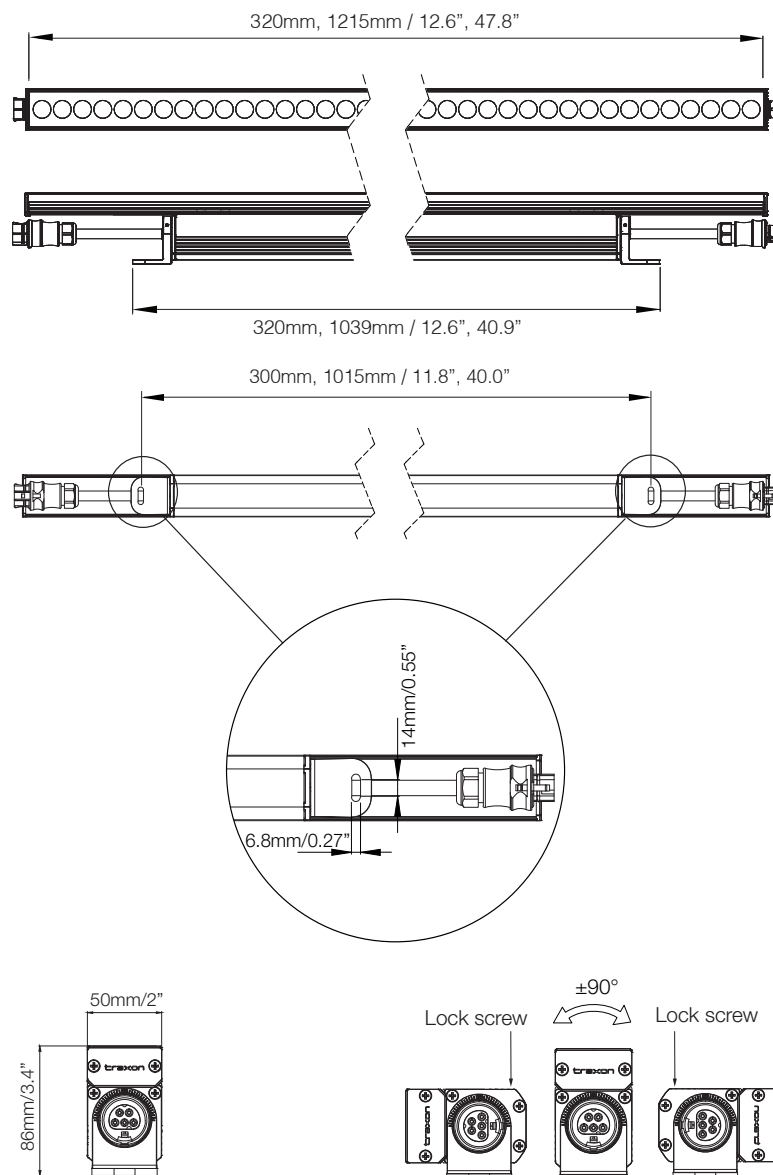
For feet multiply by 3.28

IES and LDT files are available for download from the Traxon website.

traxon

Allegro Linear AC RGBW

Dimensions



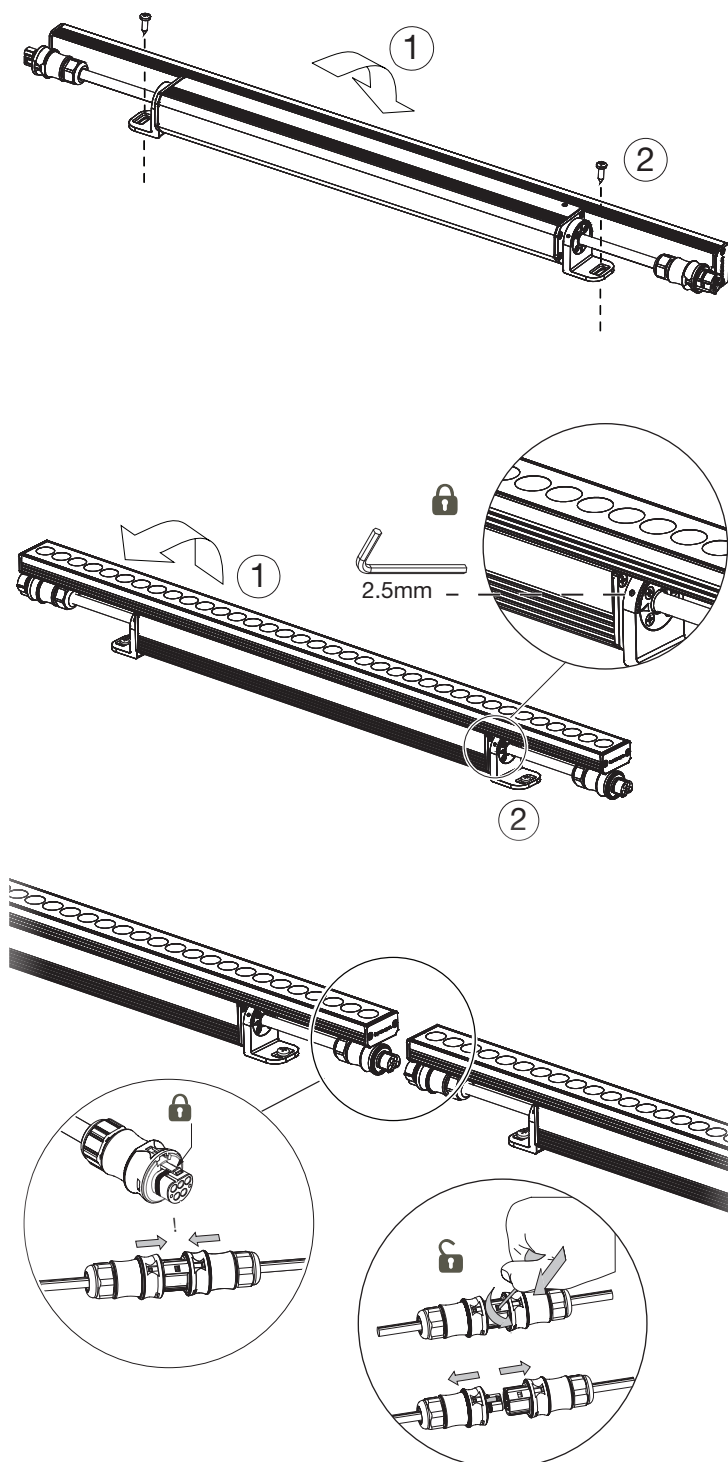
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Product Specification

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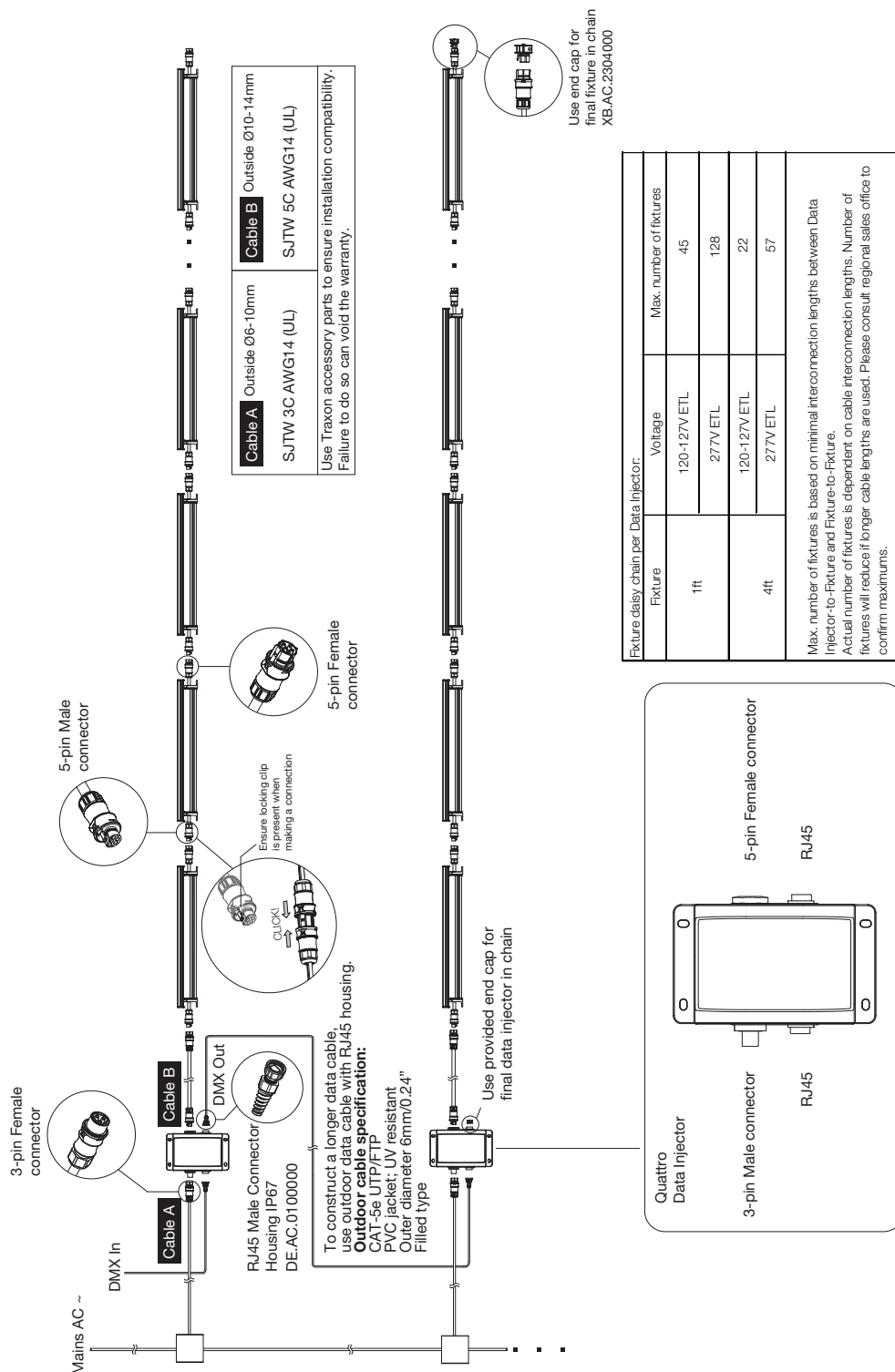
Product Specification

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Allegro Linear AC RGBW

System Diagram



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Product Specification

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Allegro Linear AC RGBW

Ordering

Luminaire Models

Model No.	Description	Item Code
XB.N4.8301110	ALLEGRO LINEAR AC 1ft RGBW 10deg ETL 120/277V AC	AM322790055
XB.N4.8304110	ALLEGRO LINEAR AC 1ft RGBW 60X10deg ETL 120/277V AC	AM322090155
XB.N4.8307110	ALLEGRO LINEAR AC 1ft RGBW 60X30deg ETL 120/277V AC	AM322690055
XB.N4.8306110	ALLEGRO LINEAR AC 1ft RGBW 40deg ETL 120/277V AC	AM322880055
XB.N7.8301110	ALLEGRO LINEAR AC 4ft RGBW 10deg ETL 120/277V AC	AM322820055
XB.N7.8304110	ALLEGRO LINEAR AC 4ft RGBW 60X10deg ETL 120/277V AC	AM322500155
XB.N7.8307110	ALLEGRO LINEAR AC 4ft RGBW 60X30deg ETL 120/277V AC	AM322730055
XB.N7.8306110	ALLEGRO LINEAR AC 4ft RGBW 40deg ETL 120/277V AC	AM322920055

Accessories

Model No.	Description	Item Code
XB.AC.4000000	QUATTRO AC XB DATA INJECTOR 100-277V ETL/CE	AB389160055
XB.AC.2302000	5-pin Field Installable AC Connector Plug IP66	AA438580235
XB.AC.2303000	5-pin Field Installable AC Connector Socket IP66	AA438570235
XB.AC.3106000	3-pin Field Installable AC Connector Socket IP66	AA792890035
	XB 5C-AWG14 CABLE AC US 10M/32.8ft	AA639240054
	XB 5C-AWG14 CABLE AC US 50M/164ft	AA639250054
	XB 5C-AWG14 CABLE AC US 100M/328ft	AA569430155
	XB 3C-AWG14 CABLE AC US 10M/32.8ft	AA639270054
	XB 3C-AWG14 CABLE AC US 50M/164ft	AA639260054
	XB 3C-AWG14 CABLE AC US 100M/328ft	AA556630155
DE.AC.0100000	RJ45 Male Connector Housing IP67	AA556100155
XB.AC.2304000	5-pin Connector Socket End Cap IP66	AA508870335



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Product Specification

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Description

FloppyFlex Digital Lucent is flexible housed 24V LED tape with multi-pixel control for advanced chasing, programmable scenes, and animated visual effects via FloppyDrive. It features a rich, vibrant color palette available in RGB and RGBWW LEDs with a pixel size of 125 mm and an average beam angle of 90°. The minimum front-to-back bend diameter is 50 mm. Black base is standard with a translucent top and visible LED package. Premium, Longer Lasting Silicone Versions available.

Features

- Digital RGB and RGBWW with multi-pixel control in 125 mm sections
- Super bright, exposed pixel package under translucent lighting surface
- 90° beam angle with incredibly tight FTB bend
- Highest quality, professional grade, flexible IP67 housed tape
- Seamless color mixing, beautiful dimming via FloppyDrive Digital
- Auto-addressing allows for quick setup and patching
- Smallest footprint in the FloppyFlex family at 6mm height
- Intensity bright LEDs illuminate a surface or object with undiffused light
- Wide range of aluminum profiles with diffusion options
- Wide range of accessories for joining, terminating, mounting, powering
- Easy to use and install
- Unlimited and unprecedented possibilities

Applications

Installation, architectural, digital signage, gameshows, arcades, signs, film and television sets, theme parks, bars and clubs, cruise ships, creating words, indirect applications, and scenic elements

Available Connectors

EZ-Connect power feeds and end caps allow for easy onsite terminations with IP67 ratings, and also allow for the End, Side, Middle, or Bottom power feed entry.

Injection Molded IP65 End Feed and End cap connectors available, fully customizable for no-hassle installations.

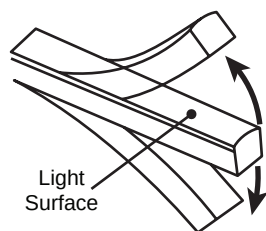
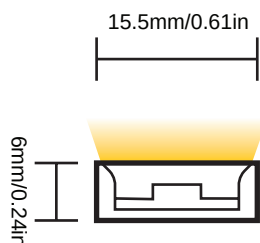
Flame Resistant — UV Resistant — Solvents Resistant
Saltwater Resistant — IP67 Protection — IK08 Protection

Certifications

When connectors are correctly installed.
 cULus Listed, CE, TUV and RoHS compliant and passes rigorous environmental, optical, mechanical, and electrical testing.



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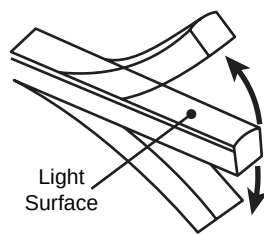
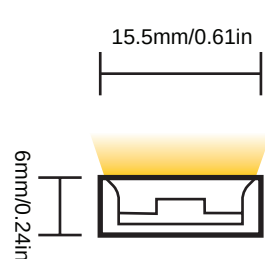
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SPECIFICATIONS									
Part Number	FFLCDRGBB					FFLCDRGBWWB			
Type	Digital (Individually controlled segments)								
LED Color	RGB					RGBWW			
Base Color	Black Base + Transparent cover								
Average Beam Angle (50%)	90.2°								
Voltage	24 VDC								
Power Consumption	12 W/m					15 W/m			
Bending Direction	Front-to-Back (FTB)								
Cut Length	125 mm [4.92 in]								
Pixels per meter	8								
LEDs per pixel	7								
LEDs per meter	56								
Wiring	3-Wire								
Control	DMX (Requires FloppyDrive Digital, https://tmb.com/proplex-floppydrives)								
Min. Bend Diameter	50 mm								
Housing	PVC								
Ambient Temperature - Installation	0 to 45 °C [32 to 113 °F]								
Ambient Temperature - Operation	-20 to 45 °C [-4 to 113 °F]					-20 to 35 °C [-4 to 95 °F]			
Max. Mounting Surface Temperature	60 °C [140 °F]								
Storage Temperature	-20 to 60 °C [-4 to 140 °F]								
Dimensions WxH	15.5 x 6 mm [0.61 x 0.24 in]								
Color/CCT	Red	Green	Blue	R+G+B	Red	Green	Blue	White	R+G+B+WW
Wavelength	618-624nm	522-528nm	468-474nm	n/a	618-624nm	522-528nm	468-474nm	2725 ± 275K	n/a
Lumen/m	85	230	40	355	85	230	40	230	585
Lumen/ft	26	70	12	108	26	70	12	70	178
Connectors	IP67 (EZ-Connect) IP65 Molded								
Operation	Static Full Loading		Dynamic Operating		Static Full Loading		Dynamic Operating		
Max. Length - Single End Feed	10 m	32.8 ft	15 m	49.6 ft	7 m	22.96 ft	10 m	32.8 ft	
Max. Length - Double End Feed	20 m	65.6 ft	30 m	99.2 ft	14 m	45.92 ft	20 m	65.6 ft	

Specifications and features are subject to change without notice.



FTB Bend

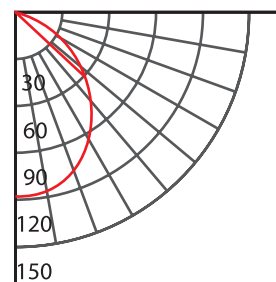


Min. Bending Diameter
50mm/1.97in



Min. Cutting Length
125mm/4.92in, 7 Leds

PHOTOMETRY



UNIT: cd
- C90/270

AVERAGE BEAM ANGLE (50%) : 90.2°

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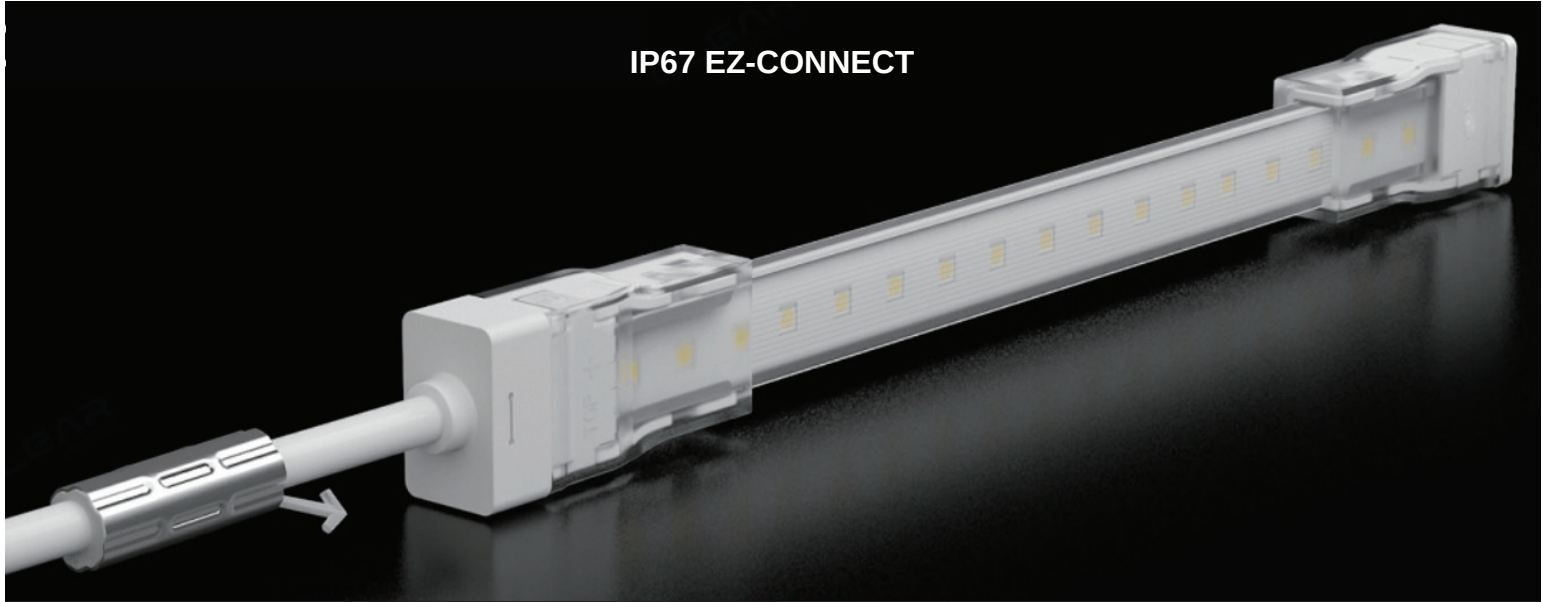
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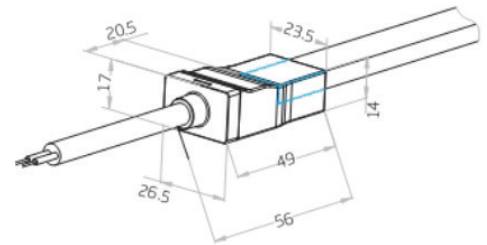
IP67 EZ-CONNECT



EZ-Connect End Entry Connection IP67

Part number: FFLCEZ3W01F__M

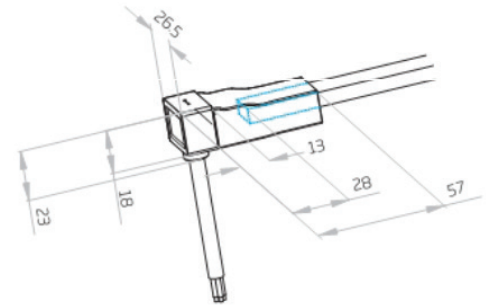
Cable length available in 0.3m, 1m, 3m, 5m, 10m



EZ-Connect Bottom Entry Connection IP67

Part number: FFLCEZ3W01B__M

Cable length available in 0.3m, 1m, 3m, 5m, 10m

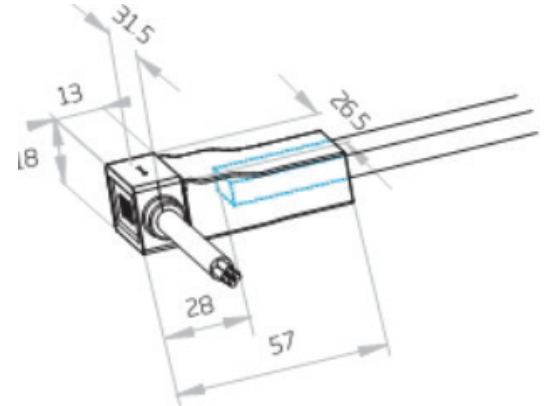
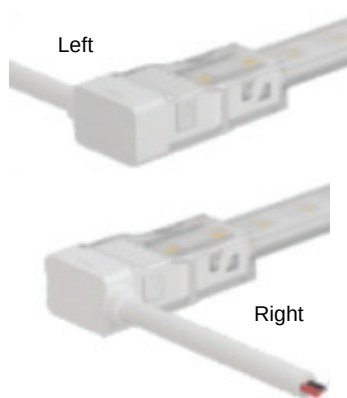


EZ-Connect Side Entry Connection IP67

Left part number: FFLCEZ3W01SL__M

Right part number: FFLCEZ3W01SR__M

Cable length available in 0.3m, 1m, 3m, 5m, 10m



more —>

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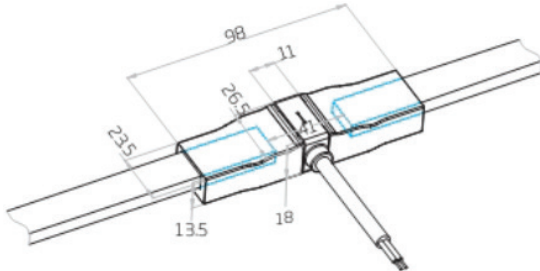
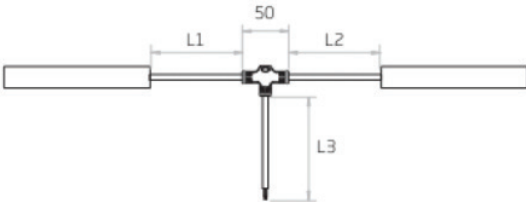
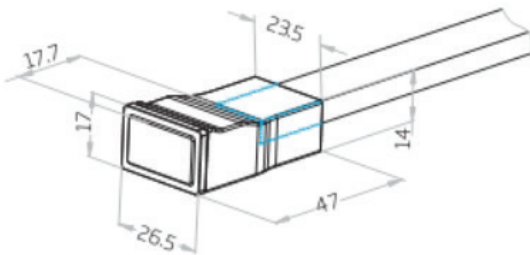
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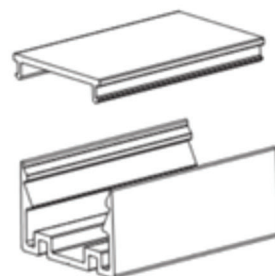
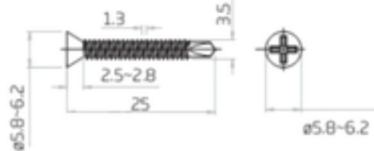
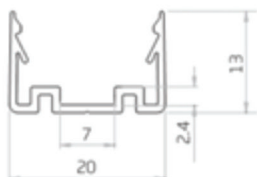
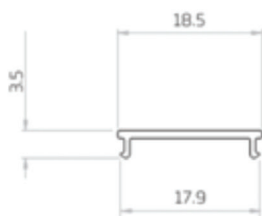
IP67 EZ-CONNECT continued

EZ-Connect Middle Power Feed IP67 Part number: FFLCEZ3WMC__M Cable length available in 0.3m, 1m, 3m, 5m, 10m		
EZ-Connect T-Feed IP67 Part number: FFLCEZ3T__M L1 and L2 available in 0.3m L3 available in 0.3m, 1m, 3m		
EZ-Connect Middle IP67 Part number: FFLCEZ3WMC		
EZ-Connect Jumper IP67 Part number: FFLCEZ3J__M Cable length available in 0.3m, 1m		
EZ-Connect End Cap IP67 Part number: FFLCEZCON02EC		

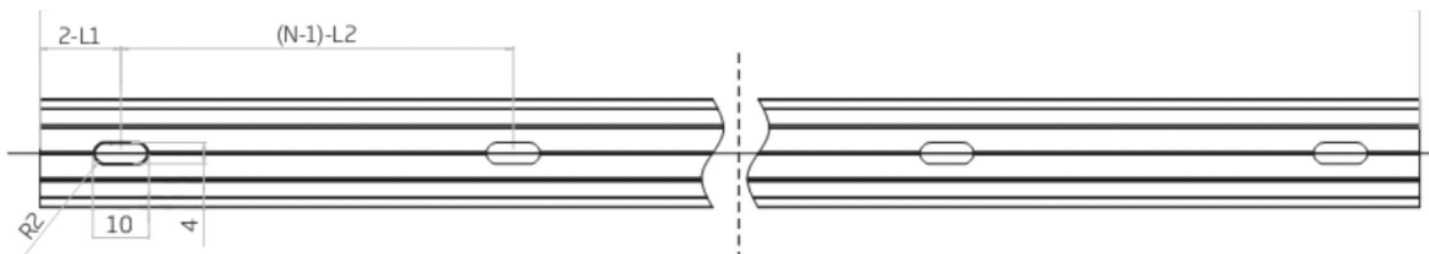
Covered Aluminum Profile H13



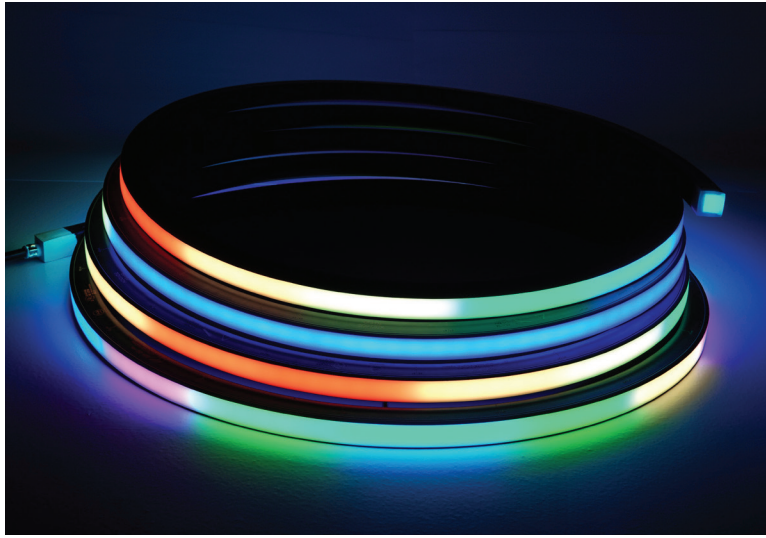
Made of high-quality 6063 architectural aluminum built to last in outdoor environments. FloppyFlex is easily installed with a tight pressure fit. PC cover snaps into place, and helps decrease glare and dust, while adding protection to FloppyFlex and increasing lifespan. Polycarbonate lens available in either Transparent PC1 or Milky White PC2 diffusion



Tolerance(PC): $\pm 0.3\text{mm}$ Tolerance(AL): $\pm 0.2\text{mm}$



Part Number	Lens Type	Standard Length	L1	L2	Slotted Hole	Number of Holes
FFACLCH13PC10.5M	Transparent	0.5m/19.68in	50mm/1.97in	200mm/7.87in	4x10mm/0.16x0.39in	3
FFACLCH13PC20.5M	Milky White	1m/39.37in	100mm/3.93in	200mm/7.87in	4x10mm/0.16x0.39in	5
FFACLCH13PC11M	Transparent	2m/78.74in	100mm/3.93in	200mm/7.87in	4x10mm/0.16x0.39in	10
FFACLCH13PC21M	Milky White					
FFACLCH13PC12M	Transparent					
FFACLCH13PC22M	Milky White					



Description

FloppyFlex Digital Flat FTB is flexible 24V LED neon with multi-pixel control for advanced chasing, programmable scenes, and animated visual effects via FloppyDrive Digital. It features a rich, vibrant color palette with RGB or RGBW LEDs and a pixel size of 83.34 mm. Available with PVC housing with an average (50%) beam angle of 116.2° or longer lasting Silicone housing with an average (50%) beam angle of 113.5°. The minimum front-to-back bend diameter is 300 mm. Black base is standard with a homogenous LED package without "skittles" effect.

Features

- Digital multi-pixel control in 83.34 mm "pixel" sections
- Super bright, pixel package with homogenous lighting surface
- 116.2° beam angle (PVC), 113.5° beam angle (Silicone)
- Seamless color mixing, beautiful dimming via FloppyDrive Digital
- Auto-addressing allows for quick setup and patching
- Wide range of accessories for joining, terminating, mounting, powering
- Easy to use and install
- 300 mm minimum front-to-back bend diameter
- Unlimited and unprecedented possibilities

Applications

Installation, architectural, digital signage, gameshows, arcades, signs, film and television sets, theme parks, bars and clubs, cruise ships, creating words, indirect applications, and scenic elements

Available Connectors

Injection Molded Power Feed and End cap connectors, fully customizable for no-hassle installations. PVC IP67, Silicone IP68.

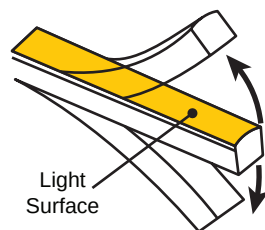
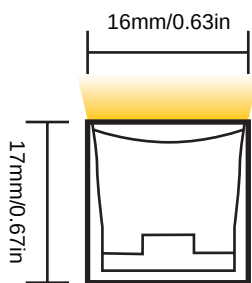
Double Molded IP68 Power Feed and End cap connectors, suitable for submersible applications. PVC only - not available for silicone versions.

Flame Resistant — UV Resistant — Solvents Resistant
Saltwater Resistant — IP67 Protection — IK08 Protection

Certifications

With factory-installed connectors.

cULus Listed, CE, TUV and RoHS compliant and passes rigorous environmental, optical, mechanical, and electrical testing.



Front-to-Back 300 mm
Minimum Bend



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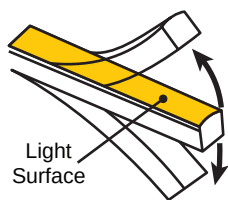
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	Digital Flat RGBW PVC Specifications				Digital Flat RGBW Silicone Specifications			
Part Number	FFFDRGBWWB					FFFSDRGBWWB		
Type	Digital Multi-Pixel Control				Digital Multi-Pixel Control			
Color	RGBW				RGBW			
Color/CCT	Red	Green	Blue	White	Red	Green	Blue	White
Wavelength	618-624nm	522-528nm	468-474nm	2725±145K	618-624nm	522-528nm	468-474nm	2725 ± 85K
Lumen/m	80	190	30	190	90	240	40	200
Lumen/ft	24	58	9	58	27	73	12	61
Beam Angle, Average (50%)	116.2°				113.5°			
Number of Pixels Per Meter	12				12			
LED Quantity Per Pixel	7				7			
LED Quantity Per Meter	84				84			
DMX Channels	4 per pixel / 48 per meter				4 per pixel / 48 per meter			
Base Color	Black base standard, other colors available on request				Black base standard, other colors available on request			
Housing	PVC				Silicone			
Cut & Connect Joints	Located Every 83.34 mm [3.28"]				Located Every 83.34 mm [3.28"]			
Minimum Bend Diameter	300 mm [11.81"]				300 mm [11.81"]			
Bending Direction	Front-to-back (FTB)				Front-to-back (FTB)			
Connectors & Hardware	Factory molded connectors, Aluminum mounting channels, Plastic mounting channels							
Operating Voltage	24 VDC				24 VDC			
Wiring	3-Wire				3-Wire			
Power Consumption	22 W/m				22 W/m			
Max Fixture Runs	Single end feed	8 m [26.2'] Dynamic Operation			Single end feed	12 m [39.4'] Dynamic Operation		
		5 m [16.4'] Full Static Load				8 m [26.2'] Full Static Load		
	Double end feed	16 m [52.4'] Dynamic Operation			Double end feed	24 m [78.8'] Dynamic Operation		
		10 m [32.8'] Full Static Load				16 m [52.4'] Full Static Load		
Control	DMX-512 via FloppyDrive Digital				DMX-512 via FloppyDrive Digital			
Installation Temperature	0 to 45 °C [32 to 113°F]				-40 to 50°C [-40 to 122°F]			
Operating Temperature	-20 to 35 °C [-4 to 95 °F]				-40 to 45 °C [-40 to 113 °F]			
Mounting Surface Temperature	60 °C [140 °F] Max.				85 °C [185 °F] Max.			
Storage Temperature	-20 to 60 °C [-4 to 140 °F]				-40 to 60 °C [-40 to 140 °F]			
Dimensions (WxHxD)	16 mm x 17 mm x variable [0.63" x 0.67" x variable]				16 mm x 17 mm x variable [0.63" x 0.67" x variable]			
Ingress Protection	IP67 with Molded connectors IP68 with Double Molded connectors				IP68 with Molded connectors			
Listing	UL2108 Class 2, UL676*, CE-EMC				UL2108 Class 2, CE-EMC			
Warranty	3 Years				5 Years			

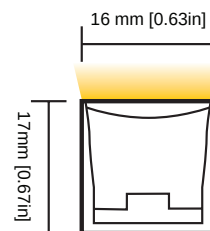
* UL676 rating requires the use of Thickened Plastic Profile for mounting



Front-to-Back Bend



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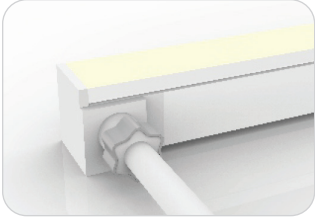
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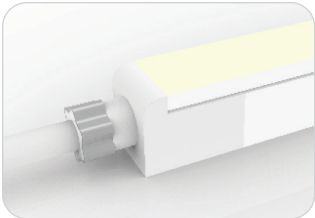
Molded Bottom Entry Connection

Connects FloppyFlex Flat to power supply with pre-installed end feed cable, IP67.
Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.



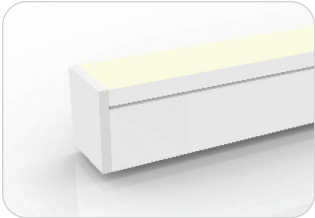
Molded Side Entry Connection

Connects FloppyFlex Flat to power supply with pre-installed side feed cable, IP67.
Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.



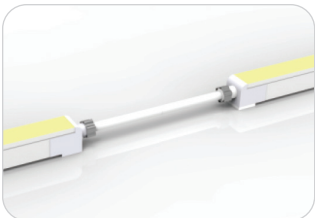
Molded End Entry Connection

Connects FloppyFlex Flat to power supply with pre-installed end feed cable, IP67.
Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.



Molded End Cap

Pre-installed termination protection of FloppyFlex Flat, IP67.



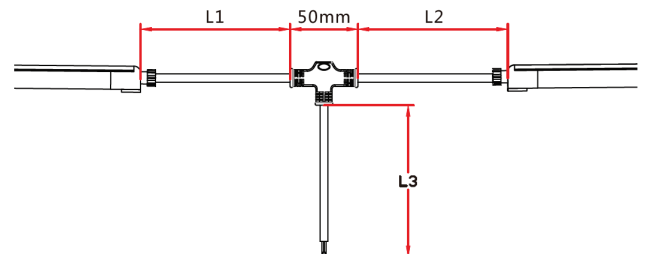
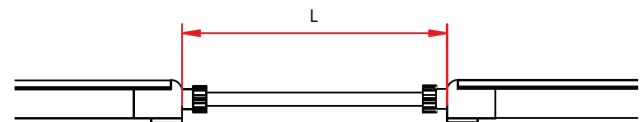
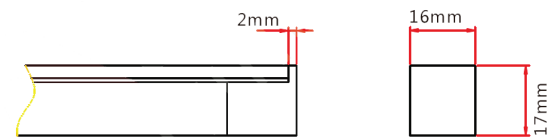
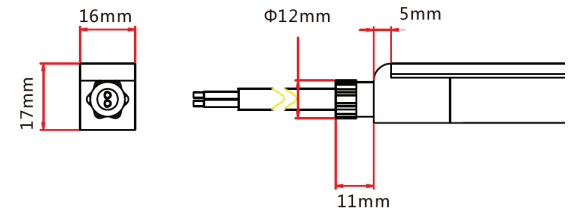
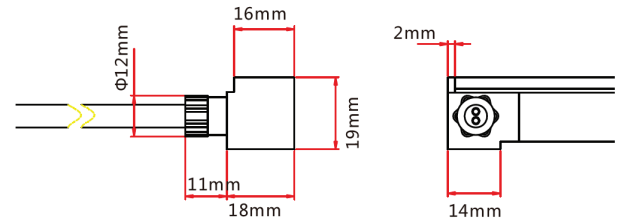
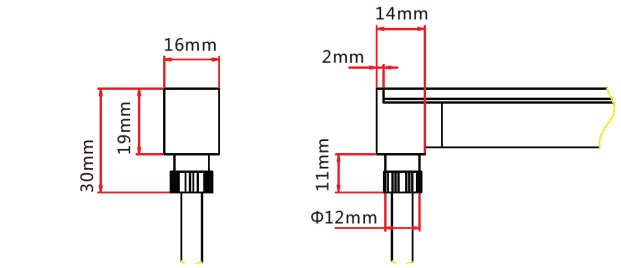
Molded End Entry Connection

Connects two pieces of FloppyFlex Flat together with a flexible cable, IP67.
Cable length available in 0.3 - 1 m.
Maximum 8 jumpers per 20 m
Maximum 4 jumpers per 10 m



Molded T-Feed Connection

Connects two pieces of FloppyFlex Flat together with powered T-joint, IP67.
L1 and L2 length available in 0.15-0.5 m.
L3 length available in 0.3 - 1 m
Maximum 8 T-Feeds per 20 m
Maximum 4 T-Feeds per 10 m



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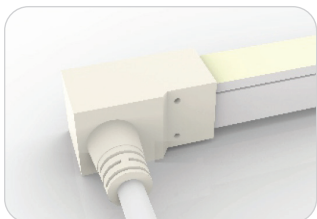
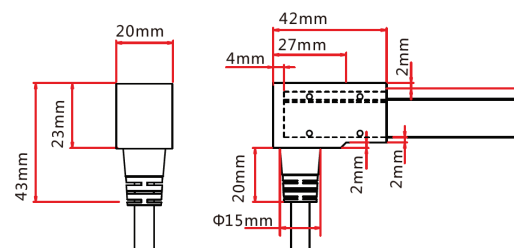
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Double-Molded Bottom Entry Connection

Connects FloppyFlex Flat to power supply with pre-installed end feed cable, IP68.

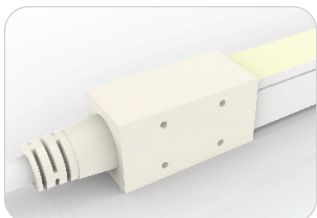
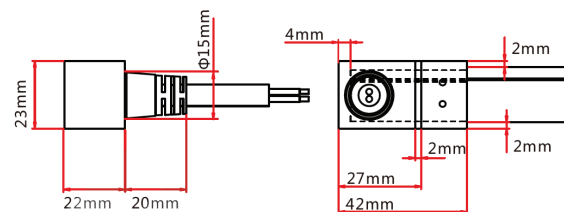
Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.



Double-Molded Side Entry Connection

Connects FloppyFlex Flat to power supply with pre-installed side feed cable, IP68.

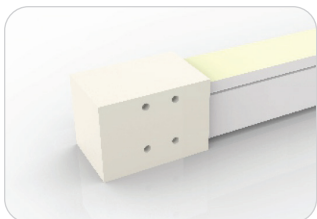
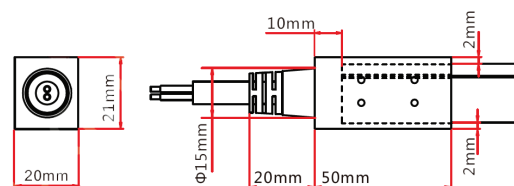
Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.



Double-Molded End Entry Connection

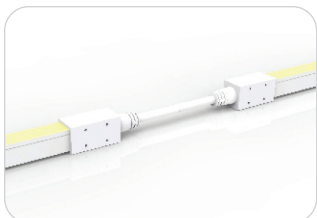
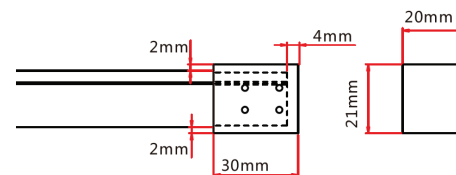
Connects FloppyFlex Flat to power supply with pre-installed end feed cable, IP68.

Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.



Double-Molded End Cap

Pre-installed termination protection of FloppyFlex Flat, IP68.



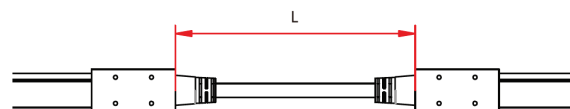
Double-Molded End Entry Connection

Connects two pieces of FloppyFlex Flat together with a flexible cable. IP68.

Cable length available in 0.3 - 1 m.

Maximum 8 jumpers per 20 m

Maximum 4 jumpers per 10 m



Double-Molded T-Feed Connection

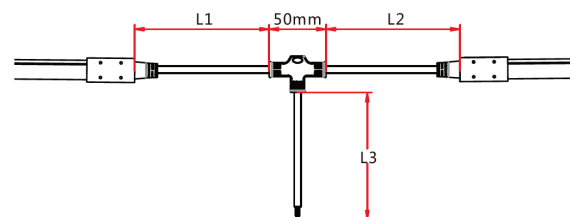
Connects two pieces of FloppyFlex Flat together with powered T-joint. IP68.

L1 and L2 length available in 0.15-0.5 m.

L3 length available in 0.3 - 1 m

Maximum 8 T-Feeds per 20 m

Maximum 4 T-Feeds per 10 m



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+44 (0)20.8574.9700

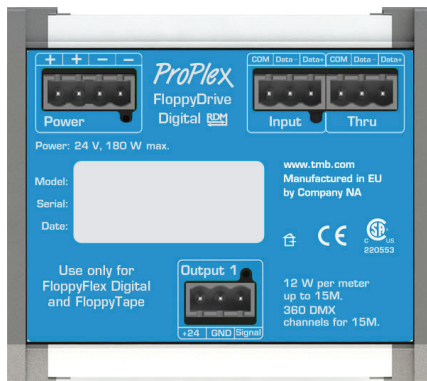
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+1 201.896.8600

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FloppyDrive Digital DIN Rail Mount

- DMX multi-pixel dimming for FloppyFlex Digital RGB or RGBW
- Addressing, monitoring and reporting of all functions, via RDM
- 1200Hz flicker-free refresh rate
- Pluggable Terminal Block (PTB) screw terminals for bare-wire, installation flexibility
- Requires external 24 VDC Power Supply



FloppyDrive Digital PortableMount

- One 24 VDC, FloppyFlex Digital output. Up to 1x 15-meter run (varies with product type).
- Color LCD Display with easy function control buttons for easy setup and configuration
- Rugged, tour-ready ProPlex "Blue Box" PortableMount chassis. Packaged for extreme conditions. Shock-mounted circuitry. Advanced thermal management
- Heavy-duty yoke for truss mounting. Optional RackMount Kit available.
- RDM functionality for complete system monitoring and addressing via RDM
- Self-healing overcurrent / short circuit protection
- Neutrik connectors throughout

More information and full specification sheets at
<https://tmb.com/proplex-floppydrives>

Exclusive Distribution – The Americas, Europe, and Asia

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sales@tmb.com

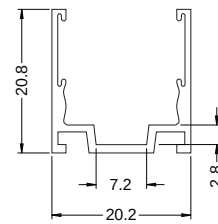
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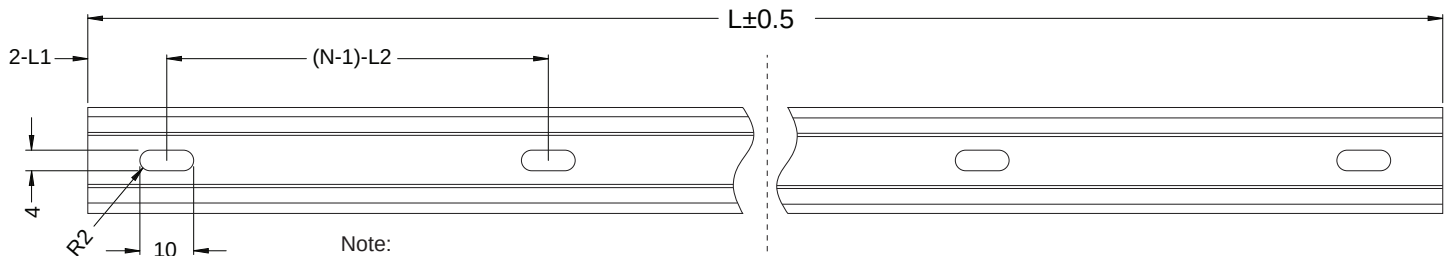
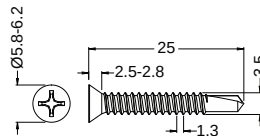
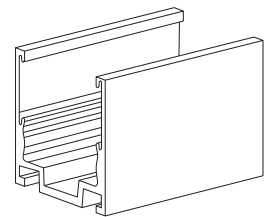
Riga
+371 6389 8886



Versatile self-locking profile can be used to mount FloppyFlex Flat LED neon in any orientation including overhead at any angle. Extruded 6063 aluminum construction with elastic serrated grip tape hold the FloppyFlex neon firmly through varying temperatures of -20 to +70 °C.

Tolerance: ± 0.2 mm

Dimensions in millimeters



Note:

1. 2-L1 refers to two of symmetric L1 in each piece of profile.
2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.

"N" hereby stands for its corresponding "Hole Number" in the table below.

Part Number	Length	L1	L2	Slotted Hole	Number of Holes
FFACLK20MMV3	20 mm [0.787 in]	10 mm [0.39 in]	N/A	4x10 mm [0.16x0.39 in]	1
FFACLK5.5MV3	500 mm [19.68 in]	50 mm [1.97 in]	200 mm [7.87 in]	4x10 mm [0.16x0.39 in]	3
FFACLK1MV3	1000 mm [39.37 in]	100 mm [3.93 in]	200 mm [7.87 in]	4x10 mm [0.16x0.39 in]	5
FFACLK2MV3	2000 mm [78.74 in]	100 mm [3.93 in]	200 mm [7.87 in]	4x10 mm [0.16x0.39 in]	10

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Riga
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Date: _____ Quantity: _____

Company: _____

Project: _____



ProPoint™ Linear HO RGBW

The ProPoint Linear HO RGBW is an AC Line powered luminaire in a slim profile. The ProPoint Linear HO RGBW is available in 8W (SO) or 12W (HO) per foot output, 4 beam options, standard & custom finishes which can meet the needs for most projects. The daisy chain topology is augmented with a separate Data Injector allowing single cable feed combining data and power to fixtures.

Product Specifications

Model	ProPoint Linear HO RGBW 1'	ProPoint Linear HO RGBW 4'
Light Source	4-in-1 LED cluster x 5	4-in-1 LED cluster x 20
Color Range	RGBW (White CCT: 4000K standard) Other White CCT and RGBA available ¹	
Beam Angle	15°, 25°, 35°, 50° x 30°, 105° x 105°	
Luminous Flux	493 lm @15°	2,096 lm @15°
Efficacy	42 lm/W @15°	45 lm/W @15°
Lumen Maintenance	L ₇₀ @ 25° 81,000 hours	
Cover Lens	Tempered Glass	
Housing	Die Cast Aluminum	
Adjustment Options	±90°	
Size	300mm x 58mm x 90mm (12" x 2.3" x 3.6")	1200mm x 58mm x 90mm (48" x 2.3" x 3.6")
Weight	1.35 kg (3 lbs.)	3.6 kg (8 lbs.)
Regulatory/Product Certifications	cETLus, FCC, RoHS, ASTM B117-16, ANSI 3G, IK08	
Operating Temperature	-30°C to +55°C (-22°F to +131°F)	
Minimum Starting Temperature	-20°C (-4°F)	
Storage Temperature	-40°C to +80°C (-40°F to +176°F)	
Environment	IP66 Outdoor, suitable for coastal environments	
Humidity	85%, non-condensing	

Electrical Specifications

Input Voltage ²	100-277V _{AC} 50/60Hz	
Wattage	12W	48W
Power Factor	≥ 0.9	

System Specifications

Power	AC Line
Control	DMX512, RDM Enabled
Power Supply	Integrated

1. No MOQ required. Please consult regional sales office for pricing and lead time.

2. Auto-switching. Single phase (line, neutral and ground).

LED CHARACTERISTICS: Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process always results in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

As with all electronic devices, LED output degrades over time – a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicated function involving many factors, such as operating efficiency, duration of continuous operation and, more significantly, environmental conditions (ambient temperature for example). If allowed, working under optimal operating temperature range and with good ventilation, LED devices enjoy long service lives over conventional light sources. When using/installing LED devices, care should be taken to ensure that the devices will operate within the operating conditions specified in respective product literature.

Lumen measurement complies with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

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ProPoint™ Linear HO RGBW

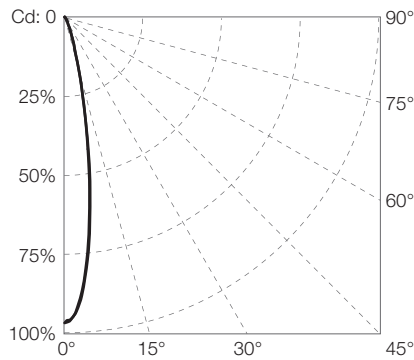
Photometrics

Source Specifications

LED Source	4-in-1 LED clusters x5 / x20
Beam Angle	15°
Cover Lens	Tempered Glass

Candela Distribution

Light Output



Color Temperature	Luminous Flux (lm)	Candela Distribution @100%	Efficacy (lm/W)
ProPoint Linear HO RGBW 15° 1'			
White (full on)	493.46	3,373.42	41.82
White (RGB off)	166.57	1,183.98	41.64
RGB	327.77	2,198.03	37.25
Red	88.34	550.36	30.46
Green	207.32	1,417.42	53.16
Blue	38.35	278.94	9.83

ProPoint Linear HO RGBW 15° 4'			
White (full on)	2,096.3	14,046.52	45.18
White (RGB off)	745.08	5,374.44	48.38
RGB	1,343.8	8,694.56	39.06
Red	372.34	2,452.1	31.29
Green	838.52	5,377.6	53.75
Blue	151.24	990.09	9.88

Illuminance at a Distance

ProPoint Linear HO RGBW 15° 1'

	Center Beam LUX	Beam Width
1m	3,391	0.31m
2m	847.8	0.63m
3m	376.8	0.94m
4m	211.9	1.25m
5m	135.6	1.56m

- Vert. Spread: 17.8°
- Horiz. Spread: 17.8°

For feet multiply by 3.28

For fc divide by 10.7

ProPoint Linear HO RGBW 15° 4'

	Center Beam LUX	Beam Width
1m	14,099	0.31m
2m	3,525	0.62m
3m	1,567	0.93m
4m	881.2	1.24m
5m	564.0	1.56m

- Vert. Spread: 17.7°
- Horiz. Spread: 17.7°

For feet multiply by 3.28

For fc divide by 10.7

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Product Specification

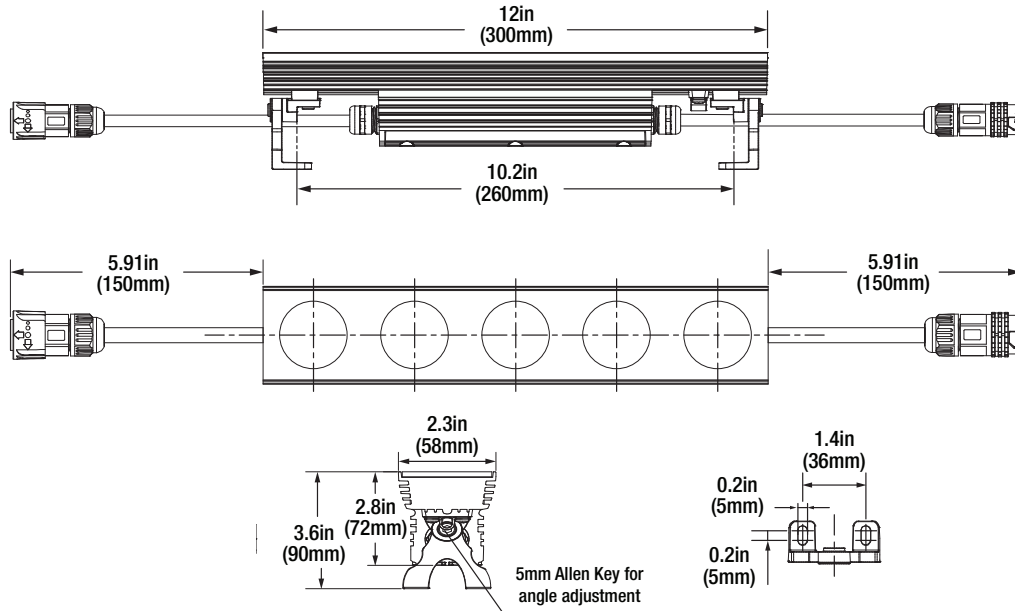
08/19 V1.0

2 of 9

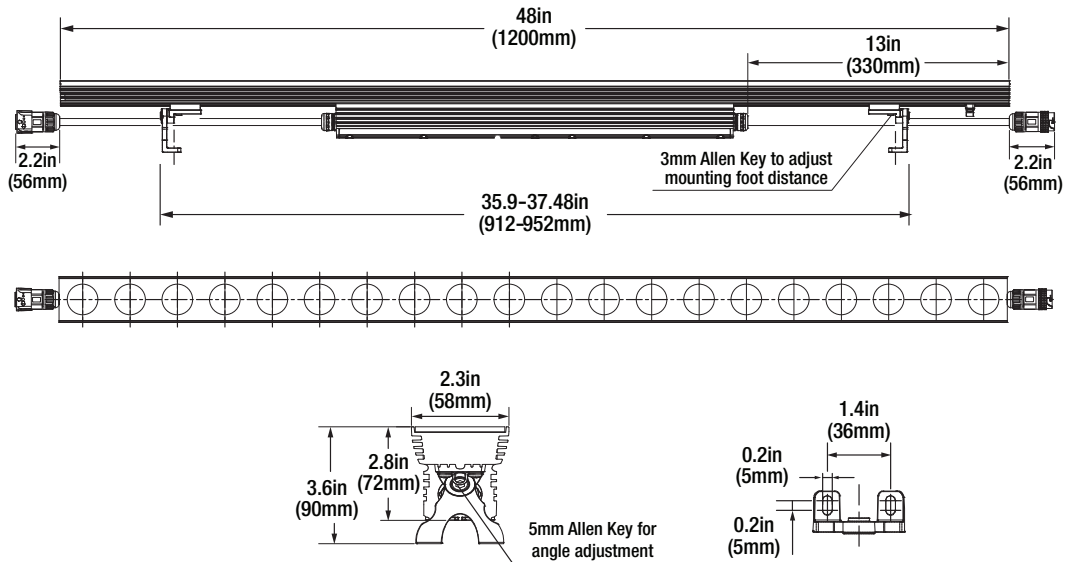
ProPoint™ Linear HO RGBW

Dimensions

ProPoint™ Linear 1'



ProPoint Linear 4'



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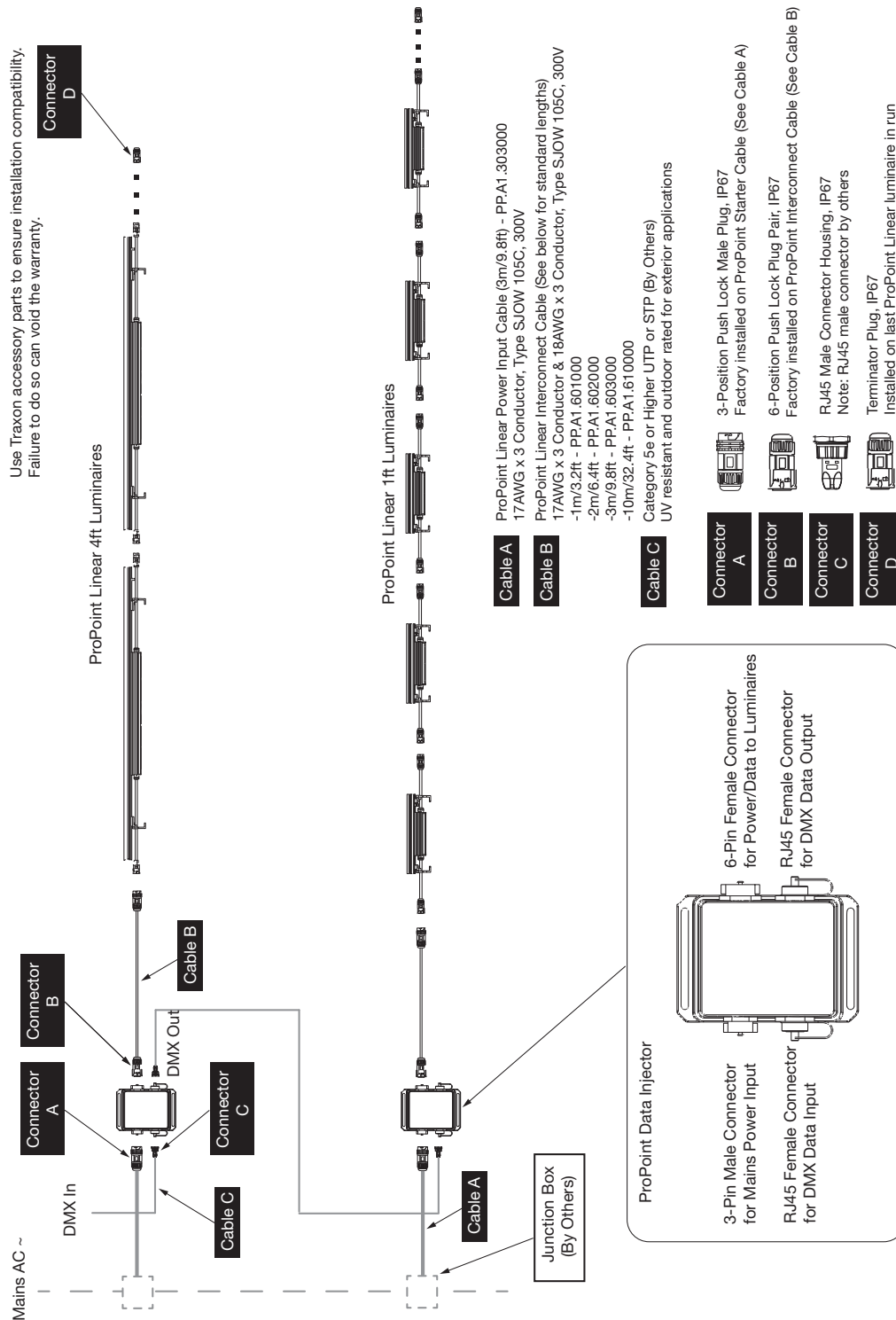
Product Specification

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ProPoint™ Linear HO RGBW

System Diagram



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Product Specification

08/19 V1.0

7 of 9

ProPoint™ Linear HO RGBW

Ordering

Model Number

PP	.	XX	.	9	4	4	4	X	X
ProPoint		Linear HO		Control	Color	CCT	Approbation	Optic	Finish
		L1 - 4' 48W		9: DMX	4: RGBW	4: 4000K	4: cETLus	2: 15°	1: Gray
		L4 - 1' 12W						3: 25°	2: Black
								4: 35°	3: White
								5: 50° x 30°	
								6: 105° x 105°	

Fixtures

Model Number	Description	Item Code
PP.L4.944421	ProPoint Linear HO (12W) 1' RGBW 15°	AM310240055
PP.L4.944431	ProPoint Linear HO (12W) 1' RGBW 25°	
PP.L4.944441	ProPoint Linear HO (12W) 1' RGBW 35°	AS000140055
PP.L4.944451	ProPoint Linear HO (12W) 1' RGBW 50°x30°	
PP.L1.944421	ProPoint Linear HO (48W) 4' RGBW 15°	
PP.L1.944431	ProPoint Linear HO (48W) 4' RGBW 25°	
PP.L1.944441	ProPoint Linear HO (48W) 4' RGBW 35°	AS000150055
PP.L1.944451	ProPoint Linear HO (48W) 4' RGBW 50°x30°	
PP.L4.944422	ProPoint Linear HO (12W) 1' RGBW 15° BL	
PP.L4.944432	ProPoint Linear HO (12W) 1' RGBW 25° BL	
PP.L4.944442	ProPoint Linear HO (12W) 1' RGBW 35° BL	
PP.L4.944452	ProPoint Linear HO (12W) 1' RGBW 50°x30° BL	
PP.L1.944422	ProPoint Linear HO (48W) 4' RGBW 15° BL	
PP.L1.944432	ProPoint Linear HO (48W) 4' RGBW 25° BL	
PP.L1.944442	ProPoint Linear HO (48W) 4' RGBW 35° BL	
PP.L1.944452	ProPoint Linear HO (48W) 4' RGBW 50°x30° BL	
PP.L4.944423	ProPoint Linear HO (12W) 1' RGBW 15° WT	
PP.L4.944433	ProPoint Linear HO (12W) 1' RGBW 25° WT	
PP.L4.944443	ProPoint Linear HO (12W) 1' RGBW 35° WT	
PP.L4.944453	ProPoint Linear HO (12W) 1' RGBW 50°x30° WT	
PP.L1.944423	ProPoint Linear HO (48W) 4' RGBW 15° WT	
PP.L1.944433	ProPoint Linear HO (48W) 4' RGBW 25° WT	
PP.L1.944443	ProPoint Linear HO (48W) 4' RGBW 35° WT	
PP.L1.944453	ProPoint Linear HO (48W) 4' RGBW 50°x30° WT	

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Product Specification

08/19 V1.0

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ProPoint™ Linear HO RGBW

Ordering

Accessories

Model Number	Description	Item Code
PP.AC.100001	ProPoint Data Injector Box (cETLus/CE)	AM280370055
PP.AC.100002	ProPoint Data Injector Box (cETLus/CE) BL	
PP.AC.100003	ProPoint Data Injector Box (cETLus/CE) WT	
PP.AC.600000	ProPoint Linear End Cap w/ Termination Resistor	AM280380055
PP.AC.400000	ProPoint RJ45 Field Install Connectors (pair)	AM280400055
PP.A1.303000	3m Power Input Cable (cETLus)	AM280360055
PP.A1.601000	1m ProPoint Linear Power/Data Int Cable (cETLus)	AM280310055
PP.A1.602000	2m ProPoint Linear Power/Data Int Cable (cETLus)	AM280330055
PP.A1.603000	3m ProPoint Linear Power/Data Int Cable (cETLus)	AM280340055
PP.A1.610000	10m ProPoint Linear Power/Data Int Cable (cETLus)	AM280350055
PP.LA.200011	Asymmetric Louver 1'	
PP.LA.200012	Asymmetric Louver 1' BL	
PP.LA.200013	Asymmetric Louver 1' WT	
PP.LA.200041	Asymmetric Louver 4'	
PP.LA.200042	Asymmetric Louver 4' BL	
PP.LA.200043	Asymmetric Louver 4' WT	
PP.LA.100001	Wall Mount Arm	
PP.LA.100002	Wall Mount Arm BL	
PP.LA.100003	Wall Mount Arm WT	
PP.AK.000003	ProPoint 3mm Allen Key	
PP.AK.000005	ProPoint 5mm Allen Key	

Our Brands



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LNC2

SMALL LED LITEPAK

FEATURES

- 60% more lumens and increased performance than smaller LNC models
- 3000K, 4000K and 5000K as well as Amber
- Type II, III and IV distributions available for a variety of application needs
- Quick-mount adapter allows easy installation/maintenance
- 347V and 480V versions for industrial applications and Canada
- Stock versions available for fast service
- Full cut-off, neighbor friendly
- Optional photocontrol for additional energy savings



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Rugged die-cast aluminum housing protects components and provides an architectural appearance
- Casting thermally conducts LED heat to optimize performance and long life
- Powder paint finish provides durability in outdoor environments. Tested to meet 1000 hour salt spray rating.

OPTICS

- Zero uplight distributions using individual acrylic Micro Strike Optics
- LED optics provide IES type III and IV distributions. Optional (CS) acrylic diffuser available for reduced glare
- Prismatic refractor lens provides ~10% uplight for increased vertical footcandles and forward light projection ideal for security lighting
- L96 at 60,000hrs (Projected per IESNA TM-21-11), see table on page 3 for all values

INSTALLATION

- Quick-mount adapter provides easy installation to wall or to recessed junction boxes (4" square junction box)
- Designed for direct j-box mount.
- Optional 1/2" conduit hubs available (standard for control options and battery versions)

ELECTRICAL

- 120V-277V universal voltage 50/60Hz 0-10V dimming drivers
- 347V and 480V dimmable driver option available in 25W and 35W configurations
- Minimum operating temperature is -40°C/-40°F
- Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion
- Driver RoHS and IP66
- 10kA surge protector
- 3000K CCT nominal, 4000K CCT nominal, 5000K CCT nominal (70 CRI)

CONTROLS

- Universal button photocontrol for use with 120-277V configurations
- Occupancy sensor options available for complete on/off and dimming control
- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- Integral Battery Backup provides emergency lighting for the required 90 minute path of egress
- Dual Driver and Dual Power Feed option for 18L-070 versions. Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire.



CERTIFICATIONS

- Listed to UL1598 and CSAC22.2#250.0-24 for wet locations
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/23/2020.

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	1000-5600
Wattage Range	10-45
Efficacy Range (LPW)	108-124
Fixture Projected Life (Hours)	L96>60K
Weights lbs. (kg)	9.6 (24.5)

ORDERING GUIDE

Example: LNC2-48L-25-3K7-3-UNV-DBT-PC

CATALOG # LNC2-48L25-3K7-FT-UNV--BLT-BTSO12F

ORDERING INFORMATION

LNC2	48L-25	3K7	FT	UNV
Series	Light Engine	CCT/CRI	Distribution	Voltage
LNC2 Small LitePak LNC2	48L-10 1000 lumens 48L-15 2000 lumens 48L-20 2500 lumens 48L-25 3500 lumens 48L-35 4500 lumens 48L-45 5500 lumens P15 15w Prismatic P25 25w Prismatic P35 35w Prismatic	3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI AM Amber	3 Type 3 4W Type 4 Wide FT Forward Throw ⁸	UNV 120-277V 120 120V 208 208V 240 240V 277 277V 347 347V ⁷ 480 480V ⁷

Mounting	BLT	Control Options	Additional Options
Leave blank for down NV Inverted ³	Finish BLT Black Matte Textured BLS Black Gloss Smooth DBT Dark Bronze Matte Textured DBS Dark Brone Gloss Smooth GTT Graphite Matte Textured LGS Light Grey Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VG Verde Green Textured Color Option CC Custom Color	PC Photocontrol ⁴ BTSO12F "Bluetooth Programmable, PIR Occupancy/Daylight Sensor, up to 12' mounting height ⁵ NXW NX hubbNET Wireless Radio Module NXRM2 and Bluetooth Programming without Sensor NXWS12F NX hubbNET Wireless Enabled Integral NXSMP2-OMNI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	F Fusing (specify voltage) EH Battery Backup Unit with Heater (-30°C) ⁶ E Battery Backup Unit (0°C) ⁶ CS Comfort Shield (N/A with Prismatic Refractor) 2DR Dual Driver ^{1,2} 2PF Dual Power Feed ^{1,2} CH Surface Conduit Hubs ⁵

Items with a grey background can be done as a custom order.
Contact brand representative for more information

NOTES

- Available in 35 & 45W
- Options cannot be combined with controls or PC option
- Not available with occupancy sensor, battery backup or prismatic refractor options
- PC comes in standard housing
- BTS, NX and CH options come in medium back box
- E and EH come in large back box
- 347V & 480V only available in 25 and 35W
- FT only for P15, P25, P35 Prismatic lenses option

REPLACEMENT PART - MADE TO ORDER

Catalog Number	Description
☐ WP-BB-XXX*	Accessory for conduit entry

Notes:

* Replace XXX with paint color

PERFORMANCE DATA

System Watts	Input Voltage	Current (AMPS)	System Power (W)
10W	120	0.09	10.6
	277	0.038	
	347	0.031	
	480	0.022	
15W	120	0.12	14.5
	277	0.07	
	347	0.04	
	480	0.03	
20W	120	0.169	20
	277	0.072	
	347	0.058	
	480	0.042	
25W	120	0.235	28
	277	0.101	
	347	0.081	
	480	0.058	
35W	120	0.305	36.4
	277	0.131	
	347	0.105	
	480	0.076	
45W	120	0.378	45.1
	277	0.163	
	347	0.13	
	480	0.094	

PROJECTED LUMEN MAINTENANCE

STANDARD 9, 12 AND 18L VERSIONS

Ambient Temperature	OPERATING HOURS					
	0	25,000	50,000	TM-21-11* L96 60,000	100,000	L70 (Hours)
25°C / 77°F	1	0.97	0.95	0.94	0.91	408,000
40°C / 104°F	0.99	0.96	0.94	0.93	0.89	356,000

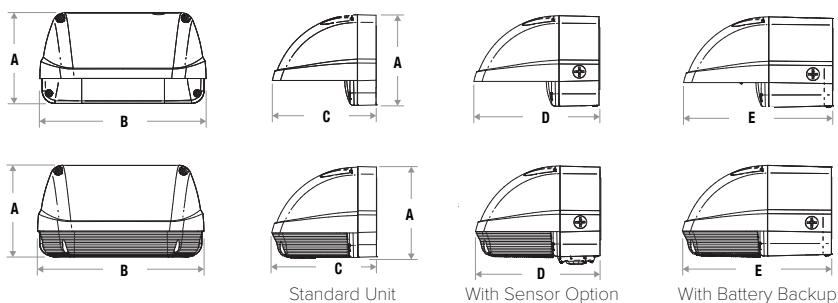
LUMINAIRE AMBIENT TEMP FACTOR

AMB TEMP		LUMEN MULTIPLIER
0C	32F	1.03
10C	50F	1.01
20C	68F	1
25C	77F	1
30C	86F	0.99
40C	104F	0.98

LUMEN

Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)			4K (4000K NOMINAL 70 CRI)			3K (3000K NOMINAL 80 CRI)		
			Lumens	LPW	B-U-G	Lumens	LPW	B-U-G	Lumens	LPW	B-U-G
10W	10.6W	Type 3	1213	121	B0-U0-G0	1117	112	B0-U0-G0	1081	108	B0-U0-G0
		Type 4	1244	124	B0-U0-G0	1144	114	B0-U0-G0	1109	111	B0-U0-G0
15W	14.5W	Type 3	1820	121	B0-U0-G0	1676	112	B0-U0-G1	1622	108	B0-U0-G1
		Type 4	1868	125	B0-U0-G1	1718	115	B0-U0-G1	1663	111	B0-U0-G1
20W	20W	Type 3	2427	121	B0-U0-G1	2234	112	B0-U0-G1	2163	108	B0-U0-G1
		Type 4	2487	124	B0-U0-G1	2292	115	B0-U0-G1	2218	111	B0-U0-G1
25W	28W	Type 3	3033	121	B1-U0-G1	2793	112	B0-U0-G1	2703	108	B0-U0-G1
		Type 4	3112	124	B0-U0-G1	2862	114	B0-U0-G1	2772	111	B0-U0-G1
35W	36.4W	Type 3	4247	121	B1-U0-G1	3910	112	B1-U0-G1	3785	108	B0-U0-G1
		Type 4	4355	124	B1-U0-G2	4011	115	B1-U0-G1	3881	111	B1-U0-G1
45W	45.1W	Type 3	5466	118	B1-U0-G1	5031	112	B1-U0-G1	4871	106	B1-U0-G2
		Type 4	5604	117	B1-U0-G2	5159	108	B1-U0-G2	4995	104	B1-U0-G2

DIMENSIONS



A	B	C	D	E
5.54" (141 mm)	10.16" (258 mm)	6.33" (161 mm)	7.64" (194 mm)	9.10" (231 mm)

ADDITIONAL INFORMATION

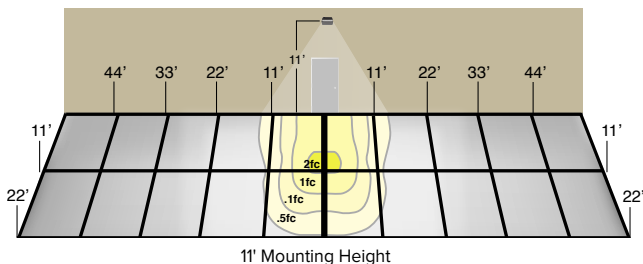
SHIPPING INFORMATION

Catalog Number	G.W(kg)/ CTN	Carton Dimensions			Carton Qty. per Master Pack
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)	
LNC2	14.3 (6.5)	14.5 (37)	11.4 (29)	8.4 (21.5)	2

CONTROL TABLE

Control Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	On/Off Control	Programming	Pair with Sensor	Sensor Mounting Height
PC	—	—	—	—	—	✓	—	—	—
NXWE	—	✓	✓	—	—	✓	Requires additional devices	—	—
NXSPW_F	NXSM-P	✓	✓	✓	✓	✓	Bluetooth	—	12 ft
BTSO12F	BTSMP-OMNI	—	—	✓	✓	with auxiliary driver	—	—	12 ft

LNC2 - BATTERY BACK UP



Provides Life Safety Code average illuminance of 1.0 fc. Assumes open space with no obstructions and mounting height of 11'.

Diagrams for illustration purposes only, please consult factory for application layout.

Battery backup units consume 6 watts when charging a dead battery and 2 watts during maintenance charging. EH (units with a heater) consume up to an additional 8 watts when charging if the battery temp is lower than 10°C

USE OF TRADEMARKS AND TRADE NAMES

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URBAN COLOR

RGBW/RGBA LED 1X INLINE

TYPE WW1


ARCHITECTURAL	1X1 RGBW	1X1 RGBA	1X4 RGBW	1X4 RGBA	1X8 RGBW	1X8 RGBA	1X16 RGBW	1X16 RGBA
Light Sources	1x Osram OSTAR Stage		4x Osram OSTAR Stage		8x Osram OSTAR Stage		16x Osram OSTAR Stage	
Number of LEDs	1		4		8		16	
Number of Individually Controllable Segments “Pixels”	1		1		2		4	
Colors	Red, Green, Blue, White	Red, Green, Blue, Amber	Red, Green, Blue, White	Red, Green, Blue, Amber	Red, Green, Blue, White	Red, Green, Blue, Amber	Red, Green, Blue, White	Red, Green, Blue, Amber
CRI	>80 (White LEDs only)							
Front Lens Material	Scratch-resistant tempered glass, impact rating IK07.							
Beam Spread	9°, 25°, 35°							
Lumen Output	500		2000		4000		8000	
Refresh Rate	1200 Hz							
Intensity Control	16 bit							
Control	DMX512 with RDM over DoP*							
Control Channels	4		4		8		16	
Operating Temperature	-4 to +122 °F [-20 to +50 °C], Heat tested up to 70 °C, freeze tested.							
Cooling	Passive							
Mains Power	100-277 VAC 50/60 Hz							
DoP Cabling	Type SOOW 12/5, 10 ft length, bare end. Armored cable by special order.							
Nominal Power Consumption	10 W		50 W		100 W		200 W	
Idle Power Consumption [120 V, 60 Hz]	TBA		2.0 W		5.3 W		10.5 W	
Idle Power Consumption [230 V, 50 Hz]	TBA		2.2 W		5.0 W		10.0 W	
Idle Power Consumption [277 V, 60 Hz]	TBA		2.2 W		5.1 W		10.0 W	
Max Power Consumption [120 V, 60 Hz]	TBA		58 W		110 W		222 W	
Max Power Consumption [230 V, 50 Hz]	TBA		57 W		110 W		221 W	
Max Power Consumption [277 V, 60 Hz]	TBA		58 W		110 W		221 W	
Power Factor [100 V, 60 Hz]	TBA		0.98		0.98		0.98	
Power Factor [230 V, 50 Hz]	TBA		0.82		0.91		0.92	
Power Factor [277 V, 60 Hz]	TBA		0.69		0.83		0.84	
Housing	Aluminum Extrusion							
Housing Color	White (RAL9003), Gray (RAL9006), Black (RAL9005), Custom colors available							
Certifications	CE		CE, cCSAus		CE, cCSAus		CE, cCSAus	
Environmental Ratings	IP67, Salt spray rated, Cat5 Hurricane rated, Can be Bridge rated or Boat rated by special order.							
H x W x L (fixture body only)	5.5 x 3.9 x 3.86 in [140 x 99 x 98 mm]		5.5 x 3.9 x 9.84 in [140 x 99 x 250 mm]		5.5 x 3.9 x 19.68 in [140 x 99 x 500 mm]		5.5 x 3.9 x 39.37 in [140 x 99 x 1000 mm]	
Weight	TBA		TBA		TBA		24.7 lb [11.2 kg]	

* DoP - Data over Power. Power and DMX/RDM data are combined in one 5-core cable, simplifying installation. Requires external DoP Injector.

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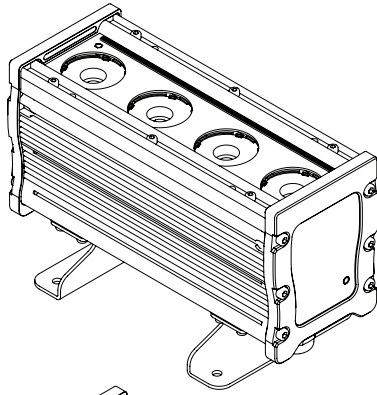
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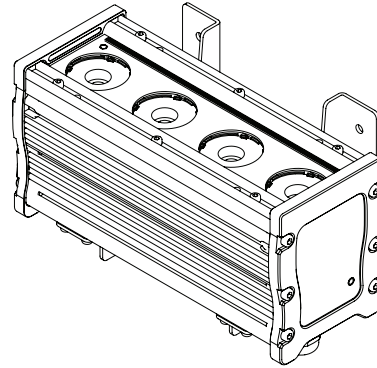
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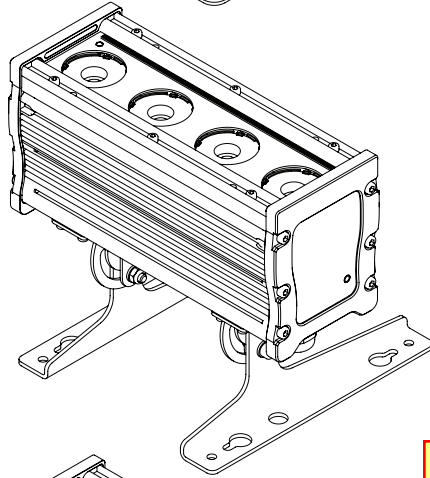
Fixed Mount 180 Degree



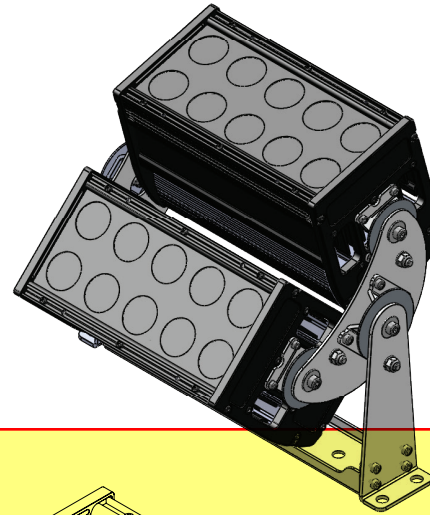
Fixed Mount 90 Degree



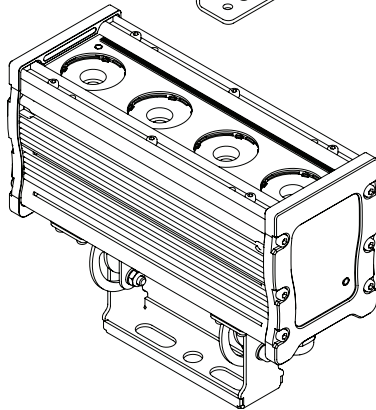
Universal Adjustable Mount



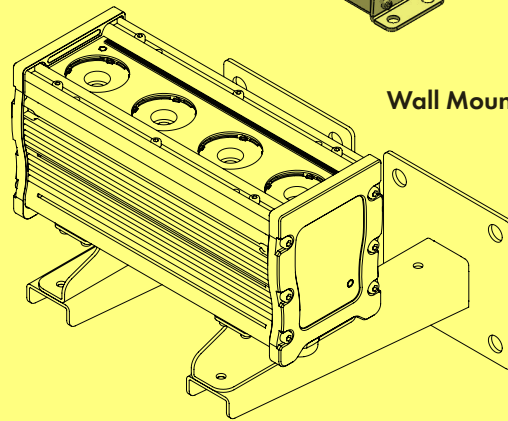
Double Adjustable Mount



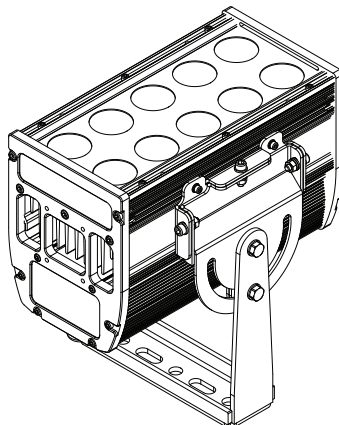
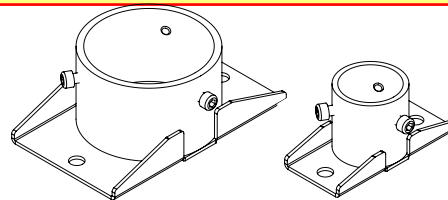
Adjustable Yoke



Wall Mount Fixed 180 Degree



Vertical Adjustable Yoke

4" Pole Adapter
2" Pole Adapter

**ALSO AVAILABLE — Wall Mount Fixed 90 Degree
Wall Mount Adjustable**

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FIXTURE ORDERING CODE EXAMPLE

SU **CLR** **215** **3** **B** **D** **M** **16**

SU Solaris Urban

COLOR

CLR	Color RGBW
CLA	Color RGBA
HBW	Hybrid White
30K	3000K White
40K	4000K White
57K	5700K White
65K	6500K White

MODEL

101	1x1
104	1x4
108	1x8
116	1x16
202	2x2
205	2x5
210	2x10
215	2x15

LENSING

1	9° Lenses
2	25° Lenses
3	35° Lenses

FINISH

B	Black (RAL 9005)
G	Grey (RAL 9006)
W	White (RAL 9003)
C	Custom

FILTER (Optional)

00	No Filter
13	10x30 Filter
16	10x60 Filter
19	10x90 Filter
33	30x30 Filter
36	30x60 Filter
66	60x60 Filter
88	80x80 Filter

ADAPTER

A	Wall Mount - 6" Adjustable Angle
B	Wall Mount - 6" Fixed Angle
C	Wall Mount - 12" Adjustable Angle
D	Wall Mount - 12" Fixed Angle
E	Wall Mount - 6"
F	Wall Mount - 12"
G	2" Pole Adapter
H	4" Pole Adapter
I	Adjustable Pole Adapter
O	No Adapter

MOUNTING

A	Fixed Mount 180°
B	Fixed Mount 90°
C	Universal Adjustable Mount
D	Adjustable Yoke
E	Vertical Yoke [2x5 only]
F	Double Fixture Adjustable Yoke [2x5, 1x4 only]
G	Triple Fixture Adjustable Yoke [1x4 only]
O	No Mount

1x16 **1x8** **1x4** **1x1** **2x2** **2x5** **2x10** **2x15**