

December 4, 2018 - Unitarian Society of Hartford Board Meeting

Present - Sherry Manetta, Carolyn Carlson, Sue Tenorio, Tom Richardson, Sarah McKenzie, Marye Gail Harrison, Joe Rubin, and Revs Cathy Rion Starr & Heather Rion Starr, ex officio members

Guests - David Newtown, Janice Newton, Stu Spence, Peter Meny, Hugh Schweitzer

6:33 - Sherry called meeting to order, Joe lit the menorah and read opening words for the 3rd night of Hannukah

6:36 - thank you notes are being passed around for Ginny Hedrick, Nancy Reed, Martha Bradley, Fern Street Leaders for T-giving, Kristal Kelley, Diana Heymann, Susan and Don Hope, & Judy Robbins

6:38 - Judy read board covenant

6:40 - consent agenda - Joe made the motion to approve, Carolyn seconded (see attached)

Aye - 8

Nay - 0

Abs - 0

6:41 - Board Objectives (see attached) - are there any substantive discussions needed before we vote on these objectives? Sue had a question on the language of "required 2-year commitment" for worship associates, Sherry will change it to "expected". Sue moved to approve, Tom seconded

Aye - 8

Nay - 0

Abs - 0

6:46 - Tom has tried to update some of our financial reporting to show risks of revenue shortfall/overexpenditure, and to show some opportunities for repeatable revenue increases/expense reduction. (see attached). Planning for the FY 2020 budget needs to start soon. Tom will reconfigure chart of accounts to allocate compensation and better reflect our mission and council/sub-council structure.

7:07 - Intern Minister (see attached) do we want to move forward? Details are in Rev. Heather's email, with additional details to be found in the Executive Committee Meeting minutes. Multiple board members are concerned about how tight our budget is currently, and the worry that the \$ won't be there. What we're looking at right now, is not a black or white yes or no to hire someone. What the board is looking at right now is do we want to post the position and see what happens. IF we find someone and make a commitment to a candidate by March 1, at that point we would need to begin planning for the expense in the FY 2020 budget. Because our

commitment would be spread over 3 fiscal years, the costs to USH would be approximately as follows (based on \$1,000/mo, 10 months/year, 0.5 FTE):

FY 2020 - \$3,200

FY 2021 - \$7,300

FY 2022 - \$4,100

Marye Gail will assist with putting together an ad hoc committee for reviewing and interviewing candidates.

Sherry called for a vote to commit to moving forward with having an intern and committing the finances to make that possible. Joe seconded

Aye - 6

Nay - 2

Abs - 0

7:55 - Sanctuary Lighting. Hugh walked us through the project statement and the recommendations (see attached documents)

Sherry asked that the board remand the project back to B&G to pick out some fixture options and get feedback from the congregation. Board affirmed this action.

8:50 - The Meeting was adjourned

Respectfully Submitted,

Sarah H McKenzie

Secretary

USH Board Meeting Timing Agenda--December 4, 2018

Shaded items are in every meeting

FY2019 Theme: Deepening and Connection

The Unitarian Society of Hartford Mission:

As a growing, evolving spiritual community inspired by our denomination values, we will commit ourselves to:

Nurture our needs for personal spiritual growth, inspirational worship and a mutually caring community

Devote ourselves to religious learning for all ages

Embrace human diversity by welcoming individuals and families of all kinds

Join with the larger community to promote love, justice and service to society

Toward these ends we pledge our talents, energies and resources

AGENDA

Materials/Discussion

Opening

6:30 PM	0:04 Opening words--??
6:34 PM	0:03 Board covenant (back of this agenda)
6:37 PM	0:01 any changes to agenda

Discussion Items/Votes

6:38 PM	0:01 Thank you notes (RevCathy, All)	
6:39 PM	0:03 Consent agenda	Motion
6:42 PM	0:10 Board Objectives	Motion
6:52 PM	0:15 Board Objective C: Sustainable Financial Model Financial Management (Tom)	
7:07 PM	0:05 Credit cards for staff (Tom)	Motion
7:07 PM	0:20 Board Objectives C & D: Sustainable Fin Model and Adult RE Intern Minister (Heather)	Motion
7:27 PM	0:10 Co-ministers' report highlights (RevCathy, RevHeather)) written reports and) verbal highlights only
7:27 PM	0:10 Council Chair report highlights (Judy, Sue, Carolyn, Marye Gail)	
7:37 PM	0:10 President/President-elect's report highlights (Sherry, Joe)	
7:47 PM	0:05 Review decisions and follow-up actions, under the stairs, other matters (All)	
7:52 PM	0:05 Guest comments (if time allows)	
7:57 PM	0:05 Recognition	
8:02 PM	0:20 Sanctuary lighting considerations (Hugh Schweitzer, Stu Spence, David Newton)	

Closing Items

8:22 PM	0:08 Executive session
8:30 PM	Adjourn

Follow ups and Parking lot items

New from November board meeting

Board Objective C: Resource planning at December EC--continue to Jan EC (Revs)

QCDs for y/e tax planning and Stewardship (Sue)--enews, testimonial being scheduled

Board Objective A: Membership component

Board Objective A: Nominating Committee kick off meeting/add one or two more individuals

Carried forward

July '18 mtg Finalize Board and Co-Minister priorities

Apr '18 mtg Safer Congregation policy to be finalized

Feb '18 mtg Sabbatical--began dialogue w/ Joe Sullivan, timing to be approved 10/18, task force to develop plan

Jan '18 mtg Comprehensive lighting plan/projection/sound project--proposal to come to board December 2018

Dec '17 mtg Other Hartford Foundation grants or other funders available?

Nov '17 mtg Meeting House security--comprehensive exploration

USH Board Covenant

The USH Board of Directors covenants and affirms its commitment to the seven principles of Unitarian Universalism, to the USH mission and to the following:

We acknowledge that our work takes place in the context of a spiritual community, one that covenants each week that "love is the spirit of this church." Therefore, we will strive to work together in a loving, courteous, and nonjudgmental way. We will be intentionally accountable to one another and to the congregation as a whole, e.g., we will work within an orderly process, regularly communicate what we can and cannot do, be responsive to each other by providing updates and revisions to plans/expectations as needed, and model respectful behavior with each other.

We will conduct our work with transparency and at the same time with sensitivity and discretion. We will seek to work as a team and we will be compassionate and forgiving as individuals to ourselves and one another, assuming mutual good will and positive intentions.

Consent Agenda

USH Board meeting December 4, 2018

1. Approve minutes of November 7, 2018 board meeting
2. Co-minister housing Allowance: "For the 2019 tax year, the housing allowances for Rev. Heather Rion Starr and Rev. Cathy Rion Starr will be no more than \$12,363 for each minister."

This motion by the board is required to allocate a portion of the co-ministers' salary towards housing expenses for their tax purposes. It does not change the amount paid to the co-ministers.

3. RESOLVED, that the Board of Directors hereby authorizes People's United Bank to issue credit cards on the Unitarian Society of Hartford's behalf to:
 - a. Cathy Rion Starr
 - b. Heather Rion Starr
 - c. Brian Mullen
 - d. Samuel Moffett
 - e. Rayla Mattson
 - f. Linda Clark

The Unitarian Society of Hartford

Board Objectives for FY2019

Presented for approval at the December 4, 2018 Board meeting

Introduction

The USH Board of Directors prioritized the FY2019 Board Objectives through a planning process that began at the June 2018 Board retreat and continued through several Board meetings. While the final vote was taken at the December 2018 Board meeting, there has been consensus for many months on the key elements and work has proceeded, guided by these Objectives.

- The Objectives are a guide for the Board as it strives to fulfill its leadership and governance role in furthering the USH mission
- The Objectives are intended to be a guide for establishing certain objectives for the Co-ministers in fulfilling their roles.
- The Objectives are dynamic and should be adapted by the Board as circumstances might suggest.

The Board and the Co-ministers are committed to further discussion on accountabilities and responsibilities for achieving these Objectives as well as overall in providing governance and management of USH and its operations.

We will focus on the things we say we're going to do and do what we say we're going to do better.

Objective A: Leadership development/capacity building

There are two stages identified by the Board for leadership development and capacity building:

1. short-term, to develop strategies that will identify and engage leaders to fill leadership "holes" in FY2019 and start to fill the pipeline for FY2020, and
2. a longer-term strategy to take visitors from membership to involvement to leadership roles. This second strategy ties into Objective D, Adult Religious Education.

Work by the Nominating and Membership Committees, the Co-ministers and a Board task force of Joe Rubin and Sarah McKenzie in FY2018 identified a broad list of leadership candidates. We should leverage this foundational work.

1. Work with the Nominating Committee in identifying candidate lists for Board positions for FY2020 and positions for Board sub-councils, committees and task forces throughout the year. These efforts should start no later than January 2019 and the Committee should start to compile a file of potential leaders and member interests.
2. Work with the Membership Sub-council Chair, Rev Heather and others as appropriate to restructure the Membership Sub-council and USH membership operations, identify and involve new leaders, and begin to re-design the path to membership and leadership.
3. Focus on support for a short list of Sub-councils and Committees and help identify ways to make them more effective and start to shift the culture of leadership.

For each of these efforts, the following will be considered:

1. A Board and Co-minister “sponsor”
2. An approach and timeline
3. Consideration of strategies for recruiting leaders from various congregational cohorts

Background and Other Considerations for Objective A

An untapped group may be members who joined 2-3 years ago, who have not been mentored and engaged.

Evaluate strategies that could be appealing when recruiting volunteers from different member cohorts, e.g., 20s/30s, parents with kids, etc. How do should we shift what we do, and how we do things, to address the shifting demographics of the congregation and engage new member cohorts?

Using Worship Associates as a successful leadership model, the following characteristics were noted:

- One-on-one mentoring through a series of stages until emerging as a full-fledged WA
- A structure and rhythm to services through an annual cycle
- Consistent minister/staff focus and involvement during most of the year
- Required 2-year commitment for volunteers
- Very few group meetings—mostly for trainings
- Shared google docs for sign up

We should consider how the Board best supports volunteer leaders and helps make them more effective. Which are the key sub-councils, committees and task forces where the Board and ministers are spending their time, and how are we intentionally making those groups more effective, making the work more rewarding, and using those groups to help develop new volunteer leaders

In the process of doing these things, we want to start to shift the culture of leadership.

We should tap more into UUA resources. An example includes a Leadership Development session in October attended by Judy Robbins and Rick Tsukada attended in West Hartford and by Joe Rubin, Brian Harvey and Sherry Manetta in Dedham.

The Membership Sub-council chair will step down by the end of 2019. The functions can be decomposed, and staff and volunteers can be repositioned in new and different ways. Functions include: Welcome Volunteers, activities such as pancake breakfasts/picnic/new member dinner, educational classes such as First Sunday Connections and UU/USH&You, and mentoring which could be more broadly based.

Objective B: Anti-racism

FY2019 we will focus primarily on changing **internal** congregational culture and attitudes with respect to race by providing discussion opportunities and educational programs for the congregation:

1. Race Matters task force - Gloria Francesca Mengual will host a series of programs on Sundays after services during the first six months of the fiscal year.
2. Beloved Conversations curriculum will start in late January with a 1.5 day seminar January 18 and 19 and eight 2-hour sessions (every other week) thereafter.

The Board will show leadership by participating in task force discussions and in Beloved Conversations.

External activities that focus on anti-racism may continue but will not be emphasized in FY2019.

Objective C: Sustainable Financial Model to include staff capacity, budget, capital campaign, legacy giving and endowment

The Board has ultimate accountability and fiduciary responsibility for the sustainable financial stability of USH. The Board exercises this role through governance and oversight.

Efforts will include:

1. Use a financial management process that is risk-based and focused on maximizing revenue and controlling expenditures to achieve the budgeted surplus or better. Financial management is largely the responsibility of the Co-ministers and staff although volunteers may be included in various processes.
2. Continually work to identify sources of additional revenue. For example, can rental income be increased if space is more compelling to rent?
3. Organize the budget line items and simplify reporting so there is greater transparency
4. Pledge income—adapt financial management and collection processes to assure budgeted revenue is achieved; processes should be quarterly
5. Stewardship goals for FY2020—set targets, ensure processes are geared toward achieving increased and sustainable giving (e.g., through quartile management, reduced dependency on high donors, etc.)
6. Staffing and organizational development—develop and discuss options for short and long-term; decide on incremental changes for next 18 months; includes intern minister considerations
7. Budget process for FY2020—establish goals for FY2020 and effective budgeting process
8. Endowment—oversee prudent management of the endowment by the Endowment Committee

New initiatives will include:

1. Capital campaign—Establish a task force and develop an approach to pursuing a capital campaign. First steps for FY2019 are to determine what we want from a capital campaign, e.g., better space utilization; increase in endowment; seed money/reserves for special initiatives
2. Legacy giving—initiate a program

Objective D: Adult Religious Education

Better define and address the need—programmatic and administrative.

There are two approaches to adult religious education that have been discussed.

1. One is related to Adult Programs being explored by the Community Within Council—this is largely focused on considerations for FY2019
2. Another is a broader spiritual path that navigates from visitors to members to engaged members to leaders. This is being explored by Spiritual Life and by the Membership Sub-council in conjunction with Community Within.

Both short-term and long-term goals will be established over the course of the year and priorities agreed. There may be a dependency for FY2020 on hiring an intern minister.

These efforts will be informed by “Faith Forward”, a program developed by the Dallas UU congregation. This is a three-stage curriculum (the third, leadership development, is not available yet) that is described at <https://faithforwarduu.org/about/>

Objective E: Congregational Covenant—Right Relations

Developing a congregational covenant, formally, will be deferred until FY2020. In FY 2019, the Board will focus on the following:

1. Establish an effective Co-minister evaluation process that will be in place for FY2019, including agreeing on Co-minister objectives and the evaluation process
2. Ensure Safer Congregation policy is finalized and an intervention team in place
3. Continue to work on roles and responsibilities in board meetings and retreats, including achieving a better understanding of and respect for governance, management and volunteer structures

Longer term, this objective could include policies related to conflict resolution and disruptive persons.

Voting Members: Steve Basche (Endowment) present
 Caron Lanouette (Stewardship) present
 Peter Meny (Buildings & Grounds) present
 Tom Richardson, Chair (Treasurer) present
 Sue Tenorio (Administration) present

Non-voting: Brian Mullen [present] and Cathy Rion Starr [present]

Materials: November 1, 2018 Minutes
 Risks and opportunities document

Agenda	Draft Minutes
1. Open with mission	Tom read the USH mission statement.
2. Approve 11/1/2018 minutes	Approved
3. [new] Discuss (not solve) risks to current year and repeatable opportunities	Tom walked the group through the risk and opportunities document. Stressed that this will be an evolving document. Some items are “directional” and others are immediate tasks. The enclosed USH Financial Management file includes updates from discussion of the line items.
4. [old] Improved communication to congregation re money	No time to discuss
5. [old] Could USH make better/more payment options available?	Caron Lanouette has investigated our options and will work with Brian Mullen to assess feasibility and plan implementation. Caron noted that 1) there would be very little effort in setting up the options (including credit card via PayPal); 2) the options have the potential to reduce the administrative burden of collecting money; and 3) this would address a significant congregational demand to make giving us money easier.
6. Other business	Next meeting to include initial discussion of a new budget structure and initiating the FY2020 budget development process
7. Tabled items	Policies on expenditure authorization and rebudgeting until after FY2020 budget process complete (11/1/2018)

Voting Members: Steve Basche (Endowment) present
 Caron Lanouette (Stewardship) present
 Peter Meny (Buildings & Grounds) present
 Tom Richardson, Chair (Treasurer) present
 Sue Tenorio (Administration) present

Non-voting: Brian Mullen [present] and Cathy Rion Starr [present]

Materials: September 29, 2018 Minutes
 Budget Review Summary (9/30/18)
 Variance Summary (current) and Proposed COLA's
 September Budget Review Excel file

Approved
11/29/2018

Agenda	Minutes
1. Candle lighting and mission	We did not light a candle. Tom read the mission statement.
2. Approve 9/29/2018 minutes	Approved
3. Follow-up on draft policies on expenditure authorization and rebudgeting	Cathy reported staff enthusiasm for delineation of responsibility for managing budget line items and signature authority for expenditures. However, they do not feel the line items themselves are clear enough and have many questions. Sue reported that the other Council Chairs are very much in favor of more involvement in the budgeting process and management of the budget/expenditures. It is not clear how that would work for the Administration section of the budget. Tom recommended that we should defer the two policies until after next year's budget process, which should include restructuring the budget to facilitate management of it. No consensus on feasibility of implementing policies for just the Councils other than Admin.
4. September Budget Review	Full line item budget e-mailed to Committee prior to meeting. Reviewed the budget summary (format the Board approved). Tom noted that as of 9/30/18 we are "on budget." Collection of Prior Fiscal Year pledges is substantially higher than budgeted. The sound equipment gift has been booked and most of it was expended by 9/30 (it has since been fully spent). We project to spend \$3K rather than \$1500 on computer maintenance. Collection of current year pledges is slightly better than this point last year, though there is a high number of pledge units who have paid nothing yet. Decision made to send that group a letter now (Peter to draft) and then distribute giving statements as usual in December. Consensus that next year, Stewardship should incorporate such letters/statements into their communication plan.
5. Proposed additional staff pay raises	Reviewed Variance Summary, which identifies and totals known additional revenue and expenses, including an assumption that the Board will approve the remaining staff COLA's. Known additional revenue exceeds expenses by \$1,353 (after the COLA's). Consensus that remaining COLA's should be approved by Board. Discussed HFPG/Garmany grant and budgeted revenue sources for Choral Scholars (\$1K operating income; \$3K Music Sunday donations). Tom will ask Board to approve a motion authorizing use of \$3K Music Sunday funds towards COLA's since Choral Scholars will be supported with the grant.
6. Other business	Discussion of the need for better/more communication re budget. Caron raised question if USH could make better/more payment options available.

Risks of revenue shortfall/overexpenditure in FY19

Risk	Action Needed	Responsible Board Member
Using the existing mechanism to recover current year cost of water from Knox (\$2,000 to \$2,500) was stalled by an MDC change in billing practices	Brian Mullen will follow-up with Knox to re-establish billing; Peter Meny to talk with B & G about getting Knox a separate meter, which would dovetail with Joe Rubin's suggestion that Knox may be able to get a "discount" from MDC because they do not produce any sewage	Rev. Cathy
Meeting House Presents has not generated any net revenue fiscal year to-date (budgeted for \$3,500 net revenue for fiscal year)	Review expectations with Ciprianos and verify or adjust projected net revenue; develop a reasonable plan to maximize revenue from remaining concerts	Carolyn Carlson
Counting prior year pledge payments received in FY19 (\$7,619 through 9/30) towards FY19 pledges would have unknown effects on overall pledge giving	Make a decision on whether or not to change the current practice of applying pledge payments made through December first towards prior year pledges then current year pledges. Sue Tenorio - Get Stewardship Sub-Council recommendation; Tom Richardson - Get Finance Sub-Council recommendation	Tom Richardson
Potential under-payment of FY19 pledges	Brian Mullen to produce pledge statements as insert for Rev's December letter	Rev Cathy
	Brian Mullen prepare letter to \$0-paid pledge units in January	Tom Richardson
Potential Building & Grounds overexpenditure	Peter Meny to ask B & G for a mid-year update on expected expenses (also, Tom Richardson to ensure FY2020 budget is realistic for B & G, including clarification of "small projects" versus "general maintenance")	Sue Tenorio

Opportunities for repeatable revenue increases/expense reductions

Opportunity	Action Needed	Responsible Board Member
Enhanced communications about tax-advantaged mechanisms for charitable contributions. This should help increase contributions to USH. Communications on QCD/RMDs in November. For those who are eligible for this tax benefit, contributing to USH in pre-tax vs. after-tax dollars may result in higher contributions.	A testimonial from the pulpit in November	Sue Tenorio to ask Bob White
Develop a Stewardship and Pledge Collection Communication Plan	Steve Basche to acquire recommended materials from Hartford Foundation, <i>et al.</i> for Stewardship to use; Peter Meny to ask a USH member to help Stewardship document a communication timeline for integration with a broader \$-related timeline including budget cycle, revenue and expense review, endowment reporting, <i>etc.</i>	Sue Tenorio
We should recover the cost of water from Knox in at least one previous fiscal year, giving us a few thousand dollars of unbudgeted revenue	Brian Mullen will follow-up with Knox to re-establish billing	Rev. Cathy

Routine Financial Management Practices

Reconfigure Chart of Accounts for FY20 to allocate compensation and better reflect mission and Council/Sub-Council structure

Leverage improved Chart of Accounts/budget structure to establish quarterly budget reporting (by Bookkeeper and relevant manager/Sub-Council) and review (by Finance Sub-Council), including updated projections, for

Pledge payments

Building maintenance and small capital projects

Rental income

Endowment performance



Sarah McKenzie <sarah.h.mckenzie@gmail.com>

[Boardonly] notes on Intern Minister 2020-21 possibility

1 message

Rev. Heather Rion Starr <revheatherharrionstarr@gmail.com>

Sat, Dec 1, 2018 at 11:31 AM

To: boardonly@ushartford.com

Hello USH Board!

At our Board Exec meeting this past Tuesday, we discussed the Intern Minister possibility specifically in terms of timing, and the need to make a decision about advertising/outreach for Intern applicants in order to be able to tell Rev. David Pettee at the UUA that we have an Intern by March 1, 2019, in order to obtain the \$3,625.00 in Internship Stipend Grant money that we applied for. To quote David directly: **"To receive this grant money, you will need to find an intern by March 1, 2019, and the intern must minimally be in aspirant status."** I can explain more about aspirant status if you wish at any time, but essentially it means that a person pursuing ministry as a profession has, at a minimum, "logged" their interest with the UUA and begun to build up a portfolio of materials, there. I believe (and I can confirm) that it also means that a UU Minister has sent in a brief letter of affirmation on their behalf, attesting to their identity and potential. (The fuller description of what Aspirant status includes is here:

<https://www.uua.org/careers/ministers/becoming/preparatory-stages>)

In brief review, the primary reasons I'm aware of (but feel free to add others!) that it'd be meaningful and worthwhile for the Unitarian Society of Hartford to have a half-time two-year Intern Minister from January 2020-December 2021 (typically 10 months of each church year, unless other arrangements are made for the summertime) include:

- it is energizing for a congregation to think of itself as a Teaching Congregation and take a role in the development of a person into a UU minister
- the Intern Minister would have ample opportunities both at USH and in the surrounding community to witness and take part in a variety of UU congregations
- in our 6th and 7th years as USH's Co-Ministers, RevCathy and I feel that this would be an ideal and enriching time to bring in a new perspective and voice--into the pulpit and throughout congregational activities and conversations--of someone exploring what UU ministry, and UUism more broadly, has to offer to people at this time in our country and in this world. What is the significance of all our machinations as a community? What is our purpose and reason for being? How do we do all that we do in line with our UU values and covenant? These are core questions to a UU minister-to-be, and enriching for all those who engage with the Intern Minister in these conversations, as well.
- We would advertise a focus area of this Intern Minister position as revitalizing, energizing, giving structure and visibility to Adult Programs at USH, an area that very much needs some concentrated attention and support.
- at approximately \$550/month for half-time ministry, this is an extremely cost-effective way to bring another skilled and engaging person on board (on board in the lowercase, broad sense, though they would likely attend Board meetings) for a time.

In terms of the cost, we discussed at the Board Exec meeting Tuesday that the "going rate" seems to be \$1000/month for half-time Intern Ministry. We primarily see this when scrolling through the 2019-20 Internship Opportunities that are already posted, here:

<http://h5.uua.org/MinInterns/PositionList.asp>

We talked on Tuesday about wanting to offer a reasonable and competitive wage so that we are not only an Internship site of interest to those who can afford extremely low pay (i.e. independently wealthy applicants), and wanting to be compelling to a diverse group of potential applicants. Take careful note when you look at the site just above about whether or not the monetary amount that is being offered is for "full-time" or "part-time," as noted in the far right column. I felt a moment of panic when I clicked on the top few records and saw that their deadlines for applying had already passed. But many others are in the December/January range, and Rev. David Pettee has assured me that there continue to be more students seeking internships than vice versa. We have the materials to pretty quickly get up our record on this site, using our Internship Stipend Grant application.

We need to: discuss and vote as a Board on continuing with this possibility, committing to a certain amount of pay for a half-time minister (\$10,000 for 10 months was the amount we were discussing on Tuesday, incorporating the Internship Stipend Grant of \$3625 for FY20, and the possibility of a 2nd grant for \$1182.50 for FY21), and proceeding with getting our record up on this site. We could also discuss making a one-page flier and sending it to relevant seminaries where there is a UU population of students. Simultaneously with posting the Internship Announcement,

which I believe I could do with your go-ahead, we'd need to constitute an Intern Search Committee to receive applications, vet, interview, and select an Intern. We had some good conversation on Tuesday about setting a high bar for "the right person" and not going with "just anyone," as the wrong person could be more of a drain than a benefit, to the congregation.

It's possible you might find this more overview-oriented site helpful to glance at, as well:

<https://www.uua.org/careers/ministers/becoming/internships>

I really try not to write such long e-mails, but I also want to be thorough. I can make copies of this e-mail and bring them to our Tuesday evening Board meeting if that would be helpful. Please e-mail me individually, rather than as a whole group, if you have questions or comments (or just want to let me know that you read all this! smile), so that I can try to address them directly or research the answers to your good questions prior to our Tuesday meeting...I just know I can't keep up with extensive group discussions on e-mail so I'm trying to lay out these details for your reflection prior to our Tuesday evening Board meeting, in hopes that we can have a productive discussion in person that evening.

Thanks so much, USH Board! I feel good about our collective thoughtfulness about this possibility for USH thus far, and am truly open to whatever the consensus decision ends up being, about whether or not, and how, to move forward with this.

Gratefully,
Heather

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Rev. Heather Rion Starr

Co-Minister, Unitarian Society of Hartford, Conn. www.ushartford.com

Consulting Minister, Unitarian Universalist Congregation of Danbury, Conn. <https://uudanbury.org>

I only check e-mail Tuesday through Sunday morning (before leaving for worship) and during daylight hours. I work part-time, receive a lot of e-mail, and sometimes miss messages. If you are concerned that I've missed an e-mail from you, or need to reach me urgently, please call or text me on my cell phone: 541-390-6052. Thank you!

Boardonly mailing list

Boardonly@ushartford.com

http://ushartford.com/mailman/listinfo/boardonly_ushartford.com



Sarah McKenzie <sarah.h.mckenzie@gmail.com>

[Boardonly] What a Weekend! (Revs belated report)

1 message

Rev. Cathy Rion Starr <revcathy@ushartford.com>

Tue, Dec 4, 2018 at 11:55 AM

To: Board Only <boardonly@ushartford.com>

(Note: I will bring copies of this tonight, given the late sending!)

Dear Board—

As I said to RevHeather on Sunday evening, you know we serve a vibrant congregation when there's

- a concert Friday evening,
- a boisterous and fun Festival full of our members, kids from the Village, and family & friends & neighbors on Saturday,
- a lovely worship service welcoming 7 new members on Sunday,
- followed by Green Sanctuary's Regifting Sale
- our youth leading a discussion about youth organizing today following the showing of the Civil Rights documentary "The Children's March" with our Race Matters group,
- a Stewardship Retreat to debrief the successful auction (both in community-building and in raising over \$10,000) and plan this year's Pledge Drive.

ALL of these many, many events were relatively well attended (as well as well-staffed with volunteers and some paid staff). What a weekend! Huzzah! Thank you to all!and thus, you don't have a formal co-ministers report this month. Let us instead celebrate the wonderful happenings of USH! What a pleasure and joy it is to serve such a vibrant congregation.

A few other happenings to lift up:

- About a dozen USHers, including RevHeather, were part of a wonderful 35-person Thanksgiving Dinner at the Universalist Church of West Hartford
- RevHeather is beginning our annual Holiday Card project - where we send personalized notes to all members and friends, vendors, and key community contacts
- A mailing will soon be in your mailbox with our many December happenings, along with a giving statement and invitation to end-of-year-giving
- Beloved Conversations enrollment is full enough to start a waiting list, and we have 4 strong facilitators lined up (RevCathy, Gloria Francesca Mengual, Rick Tsukada, and Laurie Kelliher)
- This Thursday is our annual staff holiday party — one of our 2 annual staff appreciation events (with gift exchange and thank you cards to all staff)

Below is a sneak preview of our December happenings (Sneak Peak because a version of this will soon be in your mailbox and your email).

With love,
Revs Cathy & Heather

Here is everything you need to know about nourishing your spirit, building community, and working for justice at USH this month: (in almost-complete draft form)

Ongoing:

Our children and youth are collecting men's winter clothing for My Sisters' Place and new toys and games (nothing with batteries) for children of the Cheyenne River Sioux Tribe in South Dakota via Hawkwing. You'll find boxes for donations in the foyer

Green Sanctuary's Regifting Sale runs every Sunday through 12/16, and is a great place to buy affordable presents, raise funds

for the church, and keep things out of the landfill.

This Sunday, December 9th at 10:30am is our Bernstein Music Sunday. Join us as we celebrate music of Leonard Bernstein on the occasion of his 100th birthday in a service filled to the brim with music provided by the USH Choir and musicians. Our children will begin with Children's Chapel followed by regular Religious Education classes.

Sunday, December 16th at 10:30am is our Annual Solstice Service "Where is the Light?" with Rev. Cathy and friends. A Whole Congregation service as we mark the darkest time of the year together. *(Anyone of any age is invited to participate as an actor: please come to Rehearsal Sunday, 12/9 after worship)*

Friday, December 21st, 7pm is our Special Solstice Vespers Service with Rev. Cathy Rion Starr and Sam Moffett, Director of Music Ministries. Come bask in the darkness of the longest night with candles and music. *Singers and instrumentalists welcome – please come at 6pm (Instrumentalists, please let [RevCathy](#) know what instrument/s you're bringing ahead of time)*

Sunday, December 23rd at 10:30am is our Blue Christmas Contemplative Service with Rev. Heather. Children will have RE together while our Youth make soup for all. A special offering will go to our Ministers' Discretionary Fund.

Monday, December 24th, 4pm is our annual Christmas Eve Service (Hymn-sing begins at 3:30pm). All are welcome to this celebrative candlelight service. Bring a plate of cookies to share afterwards, if you are able. Our offering will go to support our Ministers' Discretionary Fund (We welcome gifts to this fund by mail if you will be out of town) *(Anyone of any age is invited to participate as an actor: please come to Rehearsal Sunday, 12/23 after worship)*

Wednesday, January 26th – Kwaanza service led by Margalie Belizaire and Viola Abbitt(Spelling)? – at Springfield UU congregation, time TBD

Friday, December 28th at 7:30pm: Our own Sarah Harmon McKenzie will be joined by Ellen Iovino at the Meeting House Presents concert

December 25 through January 1st – USH Office Closed

December 30th – Affiliated Community Minister Rev. Erica Richmond leads worship

Boardonly mailing list

Boardonly@ushartford.com

http://ushartford.com/mailman/listinfo/boardonly_ushartford.com



Sarah McKenzie <sarah.h.mckenzie@gmail.com>

[Boardonly] 2 "Ministers' Report" notes I didn't get to share last night

1 message

Rev. Heather Rion Starr <revheatherharrionstarr@gmail.com>

Wed, Dec 5, 2018 at 11:30 AM

To: boardonly@ushartford.com

Hi USH Board --

Thank you for such a fulsome and deep-diving meeting last night. It did not feel like we just skated across the surface of things! I am grateful for the time spent on the key topics we covered.

And I didn't get a chance to share aloud two things I'd planned to mention, last night --

1) the Danbury UU congregation voted last Sunday (Dec 2) in a Congregational Meeting to continue in the current arrangement with me as their half-time Consulting Minister for two more years (so, through June 2020). This is good news for the Rion Starrs and provides some steadiness for us for at least the next couple years. Huzzah! These two congregations -- Hartford and Danbury -- have such different strengths and challenges -- perhaps there might be a time at some point in the future where I could offer some observations, or even some connecting between lay leaders of the two congregations that might be fruitful. Something to think about.

2) the Thanksgiving Day collaborative CommUUal meal at Fern Street Universalist went very well, and the key organizers at the Fern Street congregation (Sarah and Cindy Schafer, a mother-daughter team, among others) would like to plan on doing it next year. They've asked for some names from USH of congregants who'd like to help coordinate. I've reached out to one person/USH member so far who has attended one of these Thanksgiving Day meals (Yakhonda Mwenelupembe) and she was glad to be asked and is happy to be involved, but if you think of others who might be interested, let me know. Thanks!

That's all for now--
so grateful for all your support of USH--
Heather

--

Rev. Heather Rion Starr

Co-Minister, Unitarian Society of Hartford, Conn. www.ushartford.com

Consulting Minister, Unitarian Universalist Congregation of Danbury, Conn. <https://uudanbury.org>

I only check e-mail Tuesday through Sunday morning (before leaving for worship) and during daylight hours. I work part-time, receive a lot of e-mail, and sometimes miss messages. If you are concerned that I've missed an e-mail from you, or need to reach me urgently, please call or text me on my cell phone: 541-390-6052. Thank you!

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Unitarian Society of Hartford
Board of Directors Meeting
December 4, 2018

ADMINISTRATION COUNCIL:
MONTHLY REPORT
December, 2018

submitted by Sue Tenorio, Adm Council Chair

I. Buildings and Grounds:

Meeting of 11/11/18

-) After being terminated as non-residents by the City of Hartford, PaineTrash and Recycling (with whom we have contracted) has satisfactorily begun weekly trash pick-up.
-) Following discussion, it was moved and approved to purchase a bluetooth receiver at approximately \$200 to remotely add volume to the existing sound system.
-) Recent vandalism to an outside faucet of the Meetinghouse resulted in a sizable backflow of water into the downstairs men's bathroom and Fellowship Hall. An outside faucet has now been turned off and efforts will be made to seal the piping to eliminate problems of backflow.
-) A project proposal, *Sanctuary Lighting Over the Pews*, was presented by David Newton, discussed, and approved by motion. It is a 7 step approval process for lighting over *only the pews*, a general design of which will be presented by Hugh Sweitzer, architect at the December Board meeting. Following this, Building and Grounds will develop a more specific plan, including alternatives, for discussion by the Congregation, possibly under the stairs. Based upon feedback, Building and Grounds will prepare an action proposal. which when Committee approved, will be recommended to the Board. Specific cost estimates will be prepared by the Committee for Board approval. The approved Project will result in an RFP and construction bid(s) to be approved by the Board.

II. Finance

Meeting of 11/29/18:

-) Steve Basche and Brian Mullen have been welcomed to the Committee.
-) Thomas Richardson presented, for discussion purposes only, a charting of current year potential financial risks as well as opportunities for recurring revenue/expense reductions.
-) Caron Lanouette raised the possibility of use of Pay Pal as a payment option for successful Auction bidders specifically and in general use for payment of annual pledges. Caron and Brian will meet to discuss mechanics of options further.
-) NOTE: Please also see Tom's monthly report for further details.

III. Human Resources

Meeting: 11/11/18

-) Reverend Cathy joined Greg Nickett, Ron Sexton and Adm Chair to brainstorm regarding staffing needs and possible options. Related materials and/or information from other similar congregations, e.g. congregation size, were shared by Cathy. No decisions resulted.
-) It was suggested that a Survey Monkey, e.g. "How Are We Doing? Here Are Our Goals" could be developed to elicit overall Congregation satisfaction and feedback regarding needs..

IV. Stewardship

-) Activities have continued towards a wrap up of the October Auction particularly offering final bidding opportunities for items as yet still open.
-) A daylong retreat of the Committee will be held December 2 to review the Auction and discuss desirable changes to next year's effort.

ST/st
12/2/18

Community Within Monthly Report for November 2018

Dec. 2, 2018

Festival of the Seasons event was held on Saturday, December 1, chaired by Diana Heymann and Crystal Kelly. It was considered very successful based on the general feedback of both adults and children. Approximately 130 people attending, including a large number of children. Approximately 85 people stayed for the dinner. Events included Ginger-bread Making, Wreath Making, Tattoos, Magician, Balloon Artist, Dancing, Singing. Total income was just under \$1,000 and expenses were similar. Final details are being collected.

Meeting House Presents hosted a trio know has "Lula Wiles" on November 30. Advertising was increased, weather was good, and more than 80 people attended, which was the best attendance yet. \$1600 was collected and expenses are still being determined but there will be some profit. Paul and Laura Cipriano are in final stages of negotiating last performers for the spring season to complete the season and starting planning for fall.

Adult Programs:

Connection Circles (formerly Small Group Ministries) completed a general series, led by Martha Bradley and a handicapped series, led by Susan and Don Hope. Each series was six weeks long and well attended. Martha, Sue and Don all plan to offer something in February and are working on details now.

Financial review of adult programs is going through a mid-year review.

Book Table

Clara Horn would like to continue the Coffee Hour Book Table after the holidays. Current plan is to set up the book table twice a month on same Sunday's as late daycare. Help is still needed.

Membership planning is continuing with Membership chair Brian Harvey, Sherry Manetta, Rev. Heather and myself. Brian has agreed to continue as chair until end of 2019, through the sabbaticals of the two Reverend's.

Adult programming planning is continuing in coordination with the Spirituality Workgroup with next meeting convened for January 15, 2019.

Respectfully Submitted,
Carolyn Carlson



Sarah McKenzie <sarah.h.mckenzie@gmail.com>

[Boardonly] Chair Spiritual Life report

1 message

marye Gail Harrison <maryegailh@gmail.com>

Mon, Dec 3, 2018 at 11:44 AM

To: boardonly@ushartford.com

At the moment the areas under Spiritual Life (Worship and Worship Associates, RE, music and chancel arts) are well staffed and stable and wonderfully enriching our weekly spiritual life at USH. In this last month, they have operated without my input. Let us be grateful for that.

I continue to contribute a brief Spiritual Life blog to most weekly E News.

Two things are on the horizon for Spiritual Life.

One is prep for the possible Intern as Rev Heather explains below and in her attachment to you. Such an intern dovetails nicely with the other activity I want to report on.

There is an ad hoc group exploring a spiritual development program for USH. Judy Robbins and Tim Garvais, based on their own interests and the Adult Programs they have created and offered, are meeting with me to brainstorm and explore options. We are looking at what other UU congregations and the UUA have already developed. Tim is especially motivated to do research. I have cc'd Carolyn and the Revs to try to prep a convergence of thinking in the next few months. I think Judy Robbins and Tim's initiative and motivation are a attribute to the vitality of spiritual life here at USH.

Blessing be, Marye Gail Harrison

From: Boardonly [mailto:boardonly-bounces@ushartford.com] **On Behalf Of** Rev. Heather Rion Starr**Sent:** Saturday, December 1, 2018 11:31 AM**To:** boardonly@ushartford.com**Subject:** [Boardonly] notes on Intern Minister 2020-21 possibility

Hello USH Board!

At our Board Exec meeting this past Tuesday, we discussed the Intern Minister possibility specifically in terms of timing, and the need to make a decision about advertising/outreach for Intern applicants in order to be able to tell Rev. David Pettee at the UUA that we have an Intern by March 1, 2019, in order to obtain the \$3,625.00 in Internship Stipend Grant money that we applied for. To quote David directly: **"To receive this grant money, you will need to find an intern by March 1, 2019, and the intern must minimally be in aspirant status."** I can explain more about aspirant status if you wish at any time, but essentially it means that a person pursuing ministry as a profession has, at a minimum, "logged" their interest with the UUA and begun to build up a portfolio of materials, there. I believe (and I can confirm) that it also means that a UU Minister has sent in a brief letter of affirmation on their behalf, attesting to their identity and potential. (The fuller description of what Aspirant status includes is here:

<https://www.uua.org/careers/ministers/becoming/preparatory-stages>)

In brief review, the primary reasons I'm aware of (but feel free to add others!) that it'd be meaningful and worthwhile for the Unitarian Society of Hartford to have a half-time two-year Intern Minister from January 2020-December 2021 (typically 10 months of each church year, unless other arrangements are made for the summertime) include:

--it is energizing for a congregation to think of itself as a Teaching Congregation and take a role in the development of a person into a UU minister

--the Intern Minister would have ample opportunities both at USH and in the surrounding community to witness and take part in a variety of UU congregations

--in our 6th and 7th years as USH's Co-Ministers, RevCathy and I feel that this would be an ideal and enriching time to bring in a new perspective and voice--into the pulpit and throughout congregational activities and conversations--of someone exploring what UU ministry, and UUism more broadly, has to offer to people at this time in our country and in this world. What is the significance of all our machinations as a community? What is our purpose and reason for being? How do we do all that we do in line with our UU values and covenant? These are core questions to a UU minister-to-be, and enriching for all those who engage with the Intern Minister in these conversations, as well.

--We would advertise a focus area of this Intern Minister position as revitalizing, energizing, giving structure and visibility to Adult Programs at USH, an area that very much needs some concentrated attention and support.

--at approximately \$550/month for half-time ministry, this is an extremely cost-effective way to bring another skilled and engaging person on board (on board in the lowercase, broad sense, though they would likely attend Board meetings) for a time.

In terms of the cost, we discussed at the Board Exec meeting Tuesday that the "going rate" seems to be \$1000/month for half-time Intern Ministry. We primarily see this when scrolling through the 2019-20 Internship Opportunities that are already posted, here:

<http://h5.uua.org/MinInterns/PositionList.asp>

We talked on Tuesday about wanting to offer a reasonable and competitive wage so that we are not only an Internship site of interest to those who can afford extremely low pay (i.e. independently wealthy applicants), and wanting to be compelling to a diverse group of potential applicants. Take careful note when you look at the site just above about whether or not the monetary amount that is being offered is for "full-time" or "part-time," as noted in the far right column. I felt a moment of panic when I clicked on the top few records and saw that their deadlines for applying had already passed. But many others are in the December/January range, and Rev. David Pettee has assured me that there continue to be more students seeking internships than vice versa. We have the materials to pretty quickly get up our record on this site, using our Internship Stipend Grant application.

We need to: discuss and vote as a Board on continuing with this possibility, committing to a certain amount of pay for a half-time minister (\$10,000 for 10 months was the amount we were discussing on Tuesday, incorporating the Internship Stipend Grant of \$3625 for FY20, and the possibility of a 2nd grant for \$1182.50 for FY21), and proceeding with getting our record up on this site. We could also discuss making a one-page flier and sending it to relevant seminaries where there is a UU population of students. Simultaneously with posting the Internship Announcement, which I believe I could do with your go-ahead, we'd need to constitute an Intern Search Committee to receive applications, vet, interview, and select an Intern. We had some good conversation on Tuesday about setting a high bar for "the right person" and not going with "just anyone," as the wrong person could be more of a drain than a benefit, to the congregation.

It's possible you might find this more overview-oriented site helpful to glance at, as well:

<https://www.uua.org/careers/ministers/becoming/internships>

I really try not to write such long e-mails, but I also want to be thorough. I can make copies of this e-mail and bring them to our Tuesday evening Board meeting if that would be helpful. Please e-mail me individually, rather than as a whole group, if you have questions or comments (or just want to let me know that you read all this! smile), so that I can try to address them directly or research the answers to your good questions prior to our Tuesday meeting...I just know I can't keep up with extensive group discussions on e-mail so I'm trying to lay out these details for your reflection prior to our Tuesday evening Board meeting, in hopes that we can have a productive discussion in person that

evening.

Thanks so much, USH Board! I feel good about our collective thoughtfulness about this possibility for USH thus far, and am truly open to whatever the consensus decision ends up being, about whether or not, and how, to move forward with this.

Gratefully,

Heather

--

Rev. Heather Rion Starr

Co-Minister, Unitarian Society of Hartford, Conn. www.ushartford.com

Consulting Minister, Unitarian Universalist Congregation of Danbury, Conn. <https://uudanbury.org>

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Social Justice Council Report

December 4, 2018

Refugee Resettlement

USH Refugee Resettlement is a member of the Interreligious Refugee Resettlement Committee (IRRC) which was formed in 2015 in order to sponsor a refugee family in Bloomfield. The Al Asmi family arrived in May of 2016 from Syria, after living in Lebanon for two years.

On November 26, the IRRC was presented with a citation from Suzette DeBeatham-Brown, Mayor of Bloomfield which reads:

“On behalf of the Town Council and the entire Town of Bloomfield, thank you for sharing in the values of Bloomfield being a ‘Welcoming Community’. You have opened your arms to others to better their lives. You have embraced the Town’s value that everyone is welcome here and that we are here to help, and for that we express our sincere appreciation.”

This award is in appreciation of the many volunteers from multiple organizations that worked together to support Fadi and Eman Al Asmi and their three young children. USH has been an integral part of this committee and while the Al Asmi family is now growing more independent, many volunteers continue their relationship with the family.

I have attached both the Citation and the letter in response to the recognition, written by IRRC co-chairs David Hager and Richard Groothuis (USH). This letter is a wonderful summary of the planning, implementation and accomplishment of this committee. This has truly been an opportunity for the participating organizations to work together as a community and become involved in the larger community on behalf of a common cause.

Race Matters

A series of three anti-racism presentations, organized by Gloria Mengual, took place over the past 6 weeks. The last was December 2: the USH youth offered a showing of the documentary movie, The Children’s March. The movie portrays the 1963 Birmingham demonstration in which over 4,000 children were jailed. The conversation following the movie was facilitated by USH youth.

The Beloved Conversations program is scheduled to begin with orientation on January 18 & 19. We currently have a wait list of interested participants.

Green Sanctuary

ReGifting Sale: December 2, 9 and 16. The annual reminder to recycle and regift is now! Many volunteers organized by Jeff Howard and Mary Sherwin are working to help us reduce our overabundance, shop for affordable gifts and donate to USH. – win, win, win!

Respectfully Submitted,

Judy Sullivan
Chair, Social Justice Council

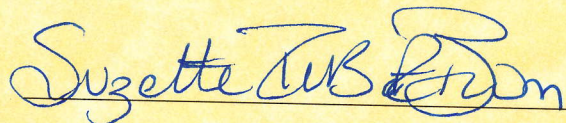
Town of Bloomfield, Connecticut

Citation for:

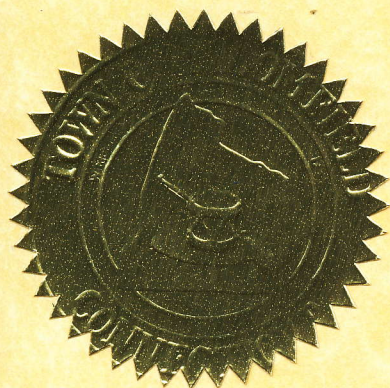
The Interreligious Refugee Resettlement Committee

On behalf of the Town Council and the entire Town of Bloomfield, thank you for sharing in the values of Bloomfield being a "Welcoming Community." You have opened your arms to others to better their lives. You have embraced the Town's value that everyone is welcome here and that we are here to help, and for that we express our sincere appreciation.

Dated at Bloomfield, Connecticut this 28th day of November 2018



Suzette DeBeatham-Brown, Mayor



*Deputy Mayor Rickford Kirton, Councilor Patrick DeLorenzo,
Councilor G. Kevin Gough, Councilor David Mann,
Councilor Jennifer Marshall-Nealy, Councilor Kenneth McClary,
Councilor Joseph P. Merritt, and Councilor Elizabeth Waterhouse*

November 19, 2018

Dear Mayor DeBeatham-Brown,

We are delighted that you want to recognize efforts in Bloomfield associated with the resettlement of refugees and support of immigrants. In the autumn of 2015 we formed the **IRRC** (Interreligious Refugee Resettlement Committee) and started working with the **IRIS** (Integrated Refugee and Immigrant Services) so that we could resettle a refugee family in Bloomfield. In May of 2016 the Al Asmi family of five arrived from Syria via Lebanon.

The United Nations High Commissioner for Refugees (UNHCR) defines a refugee as an individual who have left his own country because of persecution and sought protection in a second country. By definition a refugee is unable to return to his home. Refugee Support Centers in these second countries provide access for those interested in coming to the United States to a thorough vetting by both the U.S. State Department and the Department of Homeland Security. Resettlement then is the permanent relocation of a refugees in a place outside the second country and into a third country which has agreed to allow the refugee to establish residence and become a productive member of society with the guarantee of access to civil, political, economic, social and cultural rights similar to those enjoyed by nationals .

In Connecticut there are three Refugee Resettlement Organizations (RRO) or organizations who have been approved to work with the State Department in receiving refugees. **IRIS** is one of those and has been working from its base in New Haven since 1982. Following publication in September of 2015 of the image of the infant body of Alan Kurdi washed up on the shore of the Aegean Sea and following the arrival of the Syrian family in New Haven which had been rejected admission to Indianapolis, a surge in interest in the worldwide refugee crisis developed both in Connecticut and nationwide. Chris George, the executive director of IRIS, spoke to many of us in the Hartford area and throughout the state. The result was there are now over nine Syrian families resettled in Hartford County. In Syria, over two million had fled their country and over 4.25 million were displaced within their own country.

Traditionally, IRIS provides all of the support for refugees it resettles in Connecticut. However, because of the increased demand to resettle more families, a model of co-sponsoring developed. IRIS provides the required administrative liaison with the State Department, but the actual work of resettling and integrating a family into a community becomes the work of a co-sponsoring group. The funds allocated through the Federal Department of Health and

Human Services to a refugee are managed by IRIS. These monies provide support for the initial payments of rent and household care for a refugee family. The identification of a residence, the furnishing of the apartment, the acquisition of clothing, the finding of a job, the provision of transportation, education in English, connection with banking, with health care, with schools, etc are all organized by the co-sponsoring group. Each co-sponsoring group is required to raise a fund to be used to continue support of a family for six to twelve months.

In the fall of 2015 several groups in the Hartford area formed. The **IRRC or Interreligious Refugee Resettlement Committee** has volunteers from multiple religious organizations, life care facilities, and other organizations. Other individuals just heard about the effort and joined us. Volunteers come from:

1. Bloomfield Muslim Community Center (Lighthouse for Humanity)
2. The Church of Jesus Christ of Latter-day Saints
3. The Unitarian Society of Hartford
4. Flagg Road United Church of Christ
5. The Jewish Federation of Greater Hartford
6. The First Church Windsor
7. The First Congregational Church of Bloomfield
8. Old Saint Andrews
9. Sacred Heart
10. Seabury
11. Duncaster
12. A number of independent parties

Thus a number of towns are represented including:

1. Avon
2. Bloomfield
3. Hartford
4. Simsbury
5. West Hartford
6. Windsor
7. Simsbury

In total, over 80 individuals contributed to the committee's work. In addition, a wonderful group of translators (many from the University of Hartford) have spent hours helping in conversation and in working with the family and volunteers in the process of getting the Al Asmis oriented to living in Connecticut.

In May of 2016, Eman and Fadi Al Asmi with their three children arrived. Sham was three months at the time; Farah was one and a half, and Hamdi was eight. The family has been living in the Wedgewood Apartments. Fadi is the pastry chef at City Steam in downtown Hartford; Eman works at the Madina Academy in Windsor; Farah is at the Bloomfield Early Learning Center; and Hamdi is in fourth grade at Metacomet.

The family spent a period of time in Lebanon after fleeing Syria. Now, after two and a half years here, they have green cards. Almost immediately they applied for and received Social Security cards and work permits. They have participated in Bloomfield Adult Education programs for English; Hamdi receives tremendous support at Metacomet from the staff including Ms Donna Mims and Ms Elka Spencer. Support at the Prosser Library has been available. Volunteers have spent hours teaching English, transporting the family to events, to medical appointments at UCONN Health Center and CCMC and to stores for shopping. Job searches were extensive. Other volunteers have worked to teach budgets and the management of money and credit cards. The Al Asmis have learned to use the buses. Fadi now has a driving license, and Eman needs to continue with driver training. They are negotiating the U.S. banking system. There have been many visits to the Connecticut Department of Social Services.

With this activity wonderful friendships have developed. Folks who did not know each other at all from multiple different backgrounds and with skills and interests in many different areas have come together with an energy and enthusiasm resulting in real progress in getting the Al Asmis increasingly adjusted to life in Connecticut. There have been periods of stress, periods of great fun and amusement, periods of emotion but definite **joy in building community and relationships.**

Richard Groothuis and David Hager

President and President-elect Report to Board

December 4, 2018

Executive Committee

Minutes are distributed in a separate document.

Under-the-Stairs

There was a UTS on November 18th hosted by Sherry and Judy. While attendance was light, there was interest in Board activities

The next several dates for Board Under-the-Stairs could be used for sanctuary lighting, intern minister, or endowment discussions. Not scheduled, but could be, is Dec 16.

- Dec 9
- Jan 13

Other Upcoming Dates

- | | | | |
|---------------|-----------------------|--------|--------------------------------|
| • Jan 7 (Mon) | Exec Cmte meeting | Feb 5 | Board meeting |
| • Jan 8 | Board meeting | Feb 9 | Board retreat |
| • Jan 18-19 | Beloved Conversations | Feb 24 | Semi-annual congregational mtg |
| • Jan 29 | Exec Cmte meeting | Feb 26 | Exec Cmte meeting |

Endowment and Legacy Giving Committee

The Endowment and Legacy Giving Committee met on November 13, 2018. Members include Steve Basche (Chair), Bob White, Greg Nickett, Eve Pech, and Derek Slap but I don't have an attendance list.

Progress on priorities during the meeting:

1. Design and distribute a survey about the endowment, e.g., to gauge members' understanding about the endowment, ask what would motivate them to give to the endowment
Expect to distribute in January
2. Initiate a legacy giving campaign and take advantage, if possible, of the Wake Now Our Vision matching funds for operations
Waiting for survey completion
3. Consider making another loan to the Unitarian Universalist Meeting Southern Berkshires. We are being asked to participate, along with members of their congregation, in refinancing a \$100,000 loan in mid-2019. We made a \$50,000 10-year loan in 2014 secured by real estate and which is being paid down, principal and interest, on a timely basis each month.
Steve Basche is in contact with Bill Young.
4. Evaluate investment manager performance. Understand UUA investment performance.
Joe Sullivan provided contact names at UUA. Comparison will be made with UBS.
5. Develop a more standard spending policy
Agreed to consider and make a recommendation for consideration by the Board
6. Review investment policy
Contacting UBS for investment policy

Next Endowment Committee meeting is scheduled for December 12 at 7:00 p.m. at the Meeting House.

USH Executive Committee Meeting Agenda and Minutes

November 27, 2018

Joe Rubin's home 6:00 to 7:30 pm

1. *Appreciation and personal check-in*

Topics discussed:

- Concerns about the spoofing emails using Rev Cathy's and Sherry's names
- Joe read a Wilbur Cross Thanksgiving piece
- Diane Cadrain provided a lovely soup and bread dinner

2. *Objective C: Sustainable Financial Model*

a. *Financial management—Tom*

Action steps to assure bottom line budget is achieved and USH is positioned to continue to achieve fair compensation fair compensation for staff in FY2020

Tom circulated a risk-based analysis of potential revenue shortfalls and over-expenditures which will be revised and reviewed with the Finance Committee and then provided to the Board. The matrix identified responsible individuals for follow up and management. It was agreed that financial management should be an ongoing effort to assure that the bottom line budget is achieved or bettered; that collecting revenues and managing expenses are a necessity in order to continue to target fair compensation for staff. There was some discussion of capacity for managing communications effectively between stewardship for FY2020 and collections for FY2019; Joe Rubin will ask Peter Meny if he can do this.

b. *Organization and staffing considerations, including intern minister—open discussion, brainstorming—Revs Cathy and Heather*

Rev Cathy distributed schedules related to staffing, including information from a discussion with the HR Sub-council and a survey of other congregations. It was agreed that these warranted further discussion, and discussion was deferred until the January EC meeting. It was agreed that the goal was to identify a long-term organizational structure and short-term changes (e.g., next 18 months). One of the questions to be answered is whether there is a reasonable prospect for membership growth and what that might mean for staffing needs and revenue generation.

Facts and logistics on hiring an intern minister:

- We have approval for 50% of the UUA designated stipend, or \$3,675
- The necessary process is for USH to post to a "looking for an intern" UUA website, screen proposals received, interview candidates as appropriate, make

an offer if appropriate, and have an intern acceptance by March. Candidates are already applying and interviewing.

- If no one has accepted our offer by March, or we have not made an offer, the stipend will be assigned to another congregation. We can always go back later, if there is an intern offer and acceptance, and claim an unused stipend if there is one.

There was extensive discussion on hiring an intern minister that included:

- Does the congregation want to help someone become a minister?
- Is it energizing to have an intern on board?
- Will an intern bring new perspectives that the congregation might enjoy?
- Would we want to pay more than the UUA stipend for a part-time minister for a congregation our size, e.g., \$10,000 for 9 or 10 months which would make the USH portion \$6,325 in year one and approximately \$8,100 in year two (at the UUA-designated stipend level the amounts would be \$3,675 and approximately \$5,400, respectively); what about housing and other costs?
- Will the amount we pay limit the quality of the intern we might get?
- How would we pay for this? Would we want to do a separate fundraising?

Next steps

- Board to decide whether to proceed
- Board to communicate with the congregation

3. Finalize Board agenda

- a. Lighting—first step as outlined in B&G minutes**
- b. Other**

Some changes are reflected in the final agenda. Thank you's for Fern Street Thanksgiving and Diane Cadrain dinners.

ITEMS BELOW NOT DISCUSSED as meeting was already extended to 8:00 p.m.

4. Co-ministers objectives
5. Outstanding administrative
 - a. Signatories outstanding?
 - b. Board portal
 - c. Board staff support
6. Recognition

For future EC meetings

1. Finalize Board priorities document
2. Board objective #1: Leadership development/capacity building/Membership
3. Audit committee goals and expectations—priority setting
4. Healthy Congregations
5. Security
6. Benefits, e.g., vacations, development, etc.
7. Social justice



SANCTUARY LIGHTING STUDY

PROJECT: Unitarian Society of Hartford
Sanctuary Lighting Improvements

MEETING DATE: December 4, 2018

Define the problem

1. The Sanctuary is under illuminated. There is no direct illumination over seating; only indirect.
 - a. The seating area requires greater illumination for reading.
 - b. The chancel requires spotlighting at the pulpit, and on the display wall. It also requires improved lighting over choir seating.
2. There is no dimming ability.
3. There is no built-in visual display ability.
4. At present there is no master plan to address these shortcomings.

Identify the range of solutions and benefits

1. Replace the “puck” upright with a new pendant fixture that provides both direct and indirect lighting. Supplement it with additional pendant light fixtures for direct and indirect illumination.
2. Remove the “puck” entirely, and provide area lighting pendant fixtures.
3. Provide spotlights to illuminate the chancel.
4. Provide downlights above the chancel.
5. Relamp perimeter cove lights with dimmable lamps.
6. All fixtures and lamps are to be dimmable, with controls in two locations:
 - a. Pulpit
 - b. Usher station at rear of seating
7. Add digital projector to a new “puck”; provide manual or motorized screen at head of chancel display wall.

Recommendations

1. Top priority: provide improved area lighting over sanctuary seating.
 - a. Approximately 12 direct/indirect pendants.
 - b. Dimmer controls in two locations (pulpit, west usher station)
 - c. Probable cost; within 20%:

Fixtures	\$22,000
Installation	<u>\$12,000</u>
	\$34,000
2. Medium priority: install spotlights on columns 3 and 10 to illuminate chancel.
3. Medium priority: provide wall washers for chancel display wall.
4. Medium priority: replace the “puck” with a custom fabrication containing uplights, and space for a future projector.
5. Medium priority: provide suspended linear fixture(s) at north chancel (over choir).
6. Low priority: provide suspended linear fixture(s) at south chancel.
7. Low priority: provide dimmable LED gooseneck fixture at pulpit.
8. Low priority: replace perimeter cove lamps with LED ropes.

Building and Grounds Meeting Minutes
November 11, 2018
Meeting in Murray

THOSE MARKED WITH "*" WERE PRESENT: Paul Cipriano, Laura Cipriano, Toni Gold, Bill Simmons*, Peter Meny*, David Newton*, Ron Sexton*, Chair Stu Spence*, Jim Venneman*, Fred Louis*, Hugh Schweitzer - Friends of B&G: Ed Sax, Janice Newton, Dylan Maldonado

Staff: The Rev. Heather Rion Starr, The Rev. Cathy Rion Starr, Rayla Mattson, John Bengtson, Briana Bittel, Linda Clark

Guests: Sue Tenorio*, Administration Council Chair

Scheduled Meetings and Work days

Most meetings at **9:15 AM in Murray; Work Days usually 9 - 12:00**

2018: 12/9; **2019:** 1/13; 2/10; 3/10; 4/13 Workday 9-12 noon; 4/14; 5/5 (avoiding Mothers' Day); 6/9; 7/14; 8/11

Business

1. **Minutes** - of the Meeting of October 14, 2018, were approved.
2. **Garbage and Recycling Service** - The Paine service is working well. Trash is picked up on Monday. Thus, we will arrange with the Sunday Sexton to take out the remaining can of trash after clean up from the Sunday service. This is so because we have great need for a can inside on the weekend, so we do not want both cans out on Thursday or Friday leaving no inside can available for weekend deposit unless they are totally full.
3. **Sound System** - Stu met with Peter Delloro, Peter Delloro, Experienced Voiceovers and Audio Production (pdproductions.org) about our system. All cables and microphones were checked and those with defects were removed from circulation. Also, a bluetooth receiver can be added inexpensively to the system giving remote control to the volume setting for the system.

***Motion:** B and G shall acquire an appropriate bluetooth receiver for up to \$200 and use it to control volume on the sound system. Passed unanimously*
4. **Chair Cart Repair** - Bill has checked with one vendor, and is checking with another to seek a lower price. He will go ahead with one offer or the other reasonably soon.

5. **Library external Hose Assembly Leak into Fellowship Hall** - We have been having problems with significant rain events causing some back flow along the underground pipe from Fellowship Hall to the hose assembly outside of the library. A vandal turned on the water and a large volume of water back flowed into the mens room and out into Fellowship Hall and adjacent spaces before the problem was discovered. It was a big mess that Kevin G cleaned up. However, we will attempt to reseal the pipe with a clay infusion to see if we can eliminate all back flow leakage going forward. Meanwhile, the water has been shut off to the outside hose assembly.
6. **Handicapped Parking Drain Nearest the Berm** - Fred noted it needs to be repaired more or less like the one repaired nearer the building. Request will be to John and Kevin to perform a similar repair along the lines of the previous one nearest the building.
7. **Sanctuary Roof** - So far no leaking has occurred. We will plan to install a remote camera on a buttress using the current circuit for the roof heaters for power. The camera can focus on the Southwest drain where we normally accumulate debris. That way we can avoid excess walking on the roof by remotely viewing the drain screen to learn when clean up of debris is needed.
8. **Sanctuary Lighting Project** - The need to get constituencies informed and lay out a series of steps to effectuate the project were discussed in some detail. The following motion was discussed:

*B and G herewith Adopts the following process for the, **Sanctuary Lighting over the Pews Project**:*

The initial proposal will be for lighting over the pews only and will not adversely impact subsequent lighting/audiovisual projects involving the puck or chancel lighting.

- 1. At the December Board meeting Hugh Schweitzer, AIA, LEED AP Director, Architectural Planning and Design Clohessy, Harris & Kaiser, LLC, will present a preliminary general project design for the information of the Board requesting no action at that time.*
- 2. Subsequently, a more specific plan will be prepared by B and G providing alternatives for discussion of the congregation either under the stairs or in a more general meeting (or both).*
- 3. In the light of the feedback received, a specific proposal will be prepared for action by the B and G Committee, and upon approval, recommendation to the Board.*
- 4. With Board approval, specific cost estimates will be prepared.*
- 5. The Board will then be asked to approve the project with the estimated projected costs.*

6. Upon that Board approval, the project will move to RFP, and construction. If bids vary significantly from the estimate, the Board will be asked to approve bid(s) as necessary prior to contract issuance.

7. When the wiring access phase of the project is clear, if it is possible, the ceiling rays will be refinished during that stage of the process.

Passed unanimously

Bill noted he would be pleased on short notice to prepare a 3D model for those working on the layout for the proposed lighting system

Sue Tenorio will share her support of the approved Proposal at the Board of Directors level.

9. **Visitor Parking Signs** - No progress to date.

The meeting was adjourned.

David Newton,
Secretary Pro Tem



CLOHESSEY
HARRIS &
KAISER, LLC



GREYSTONE COURT WEST
573 HAVENDALE W STREET
PO BOX 95
SMBURY, CT 06070-0095
860-651-3777
860-651-7316
dtk@chkr.com

ARCHITECTURE • INTERIOR DESIGN • FACILITIES PLANNING

Consultants

Unitarian Society of Hartford Sanctuary Lighting Improvements

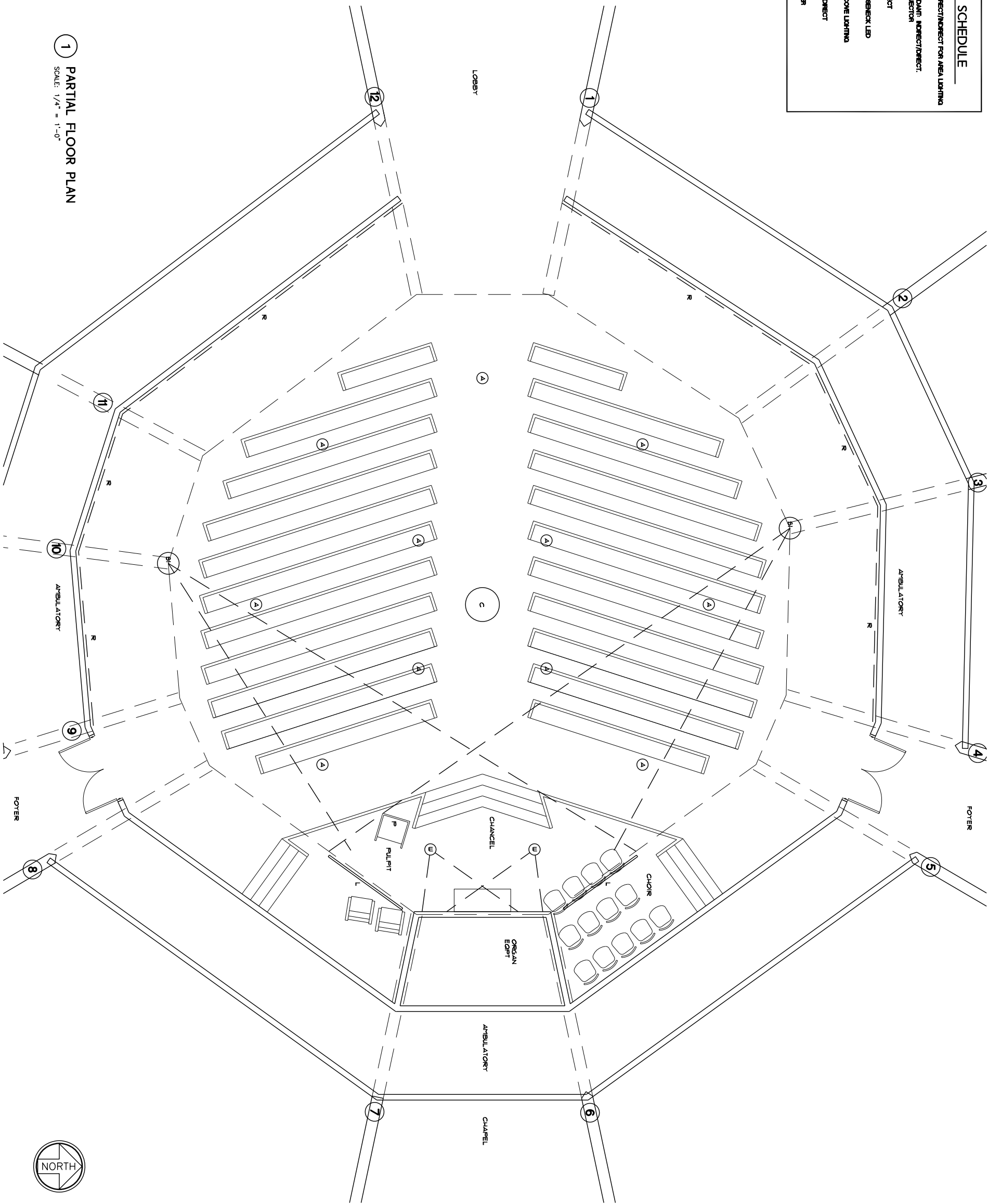
50 Bloomfield Avenue
Hartford, Connecticut

Revisions

Date 12/01/2018
Scale AS NOTED
Project Number
Drawn By hls

A101

FIXTURE SCHEDULE	
A	PERMANENT DIRECT/DIRECT FOR AREA LIGHTING
C	CURTAIN PERMANENT DIRECT/DIRECT; FUTURE PROJECTOR
L	LINEAR DIRECT
P	PULPIT GOOSENECK LED
R	ROOF LED COVE LIGHTING
S	SPOTLIGHT DIRECT
W	WALL WASHER



1 PARTIAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

CP4341 – CYLINDER™ LED

25" Pin Accent



Type:

Project:

VisaLighting.com/products/Cylinder

Fill in shaded boxes using information listed below

Order Code: CP4341

MODEL

A BODYLIGHT

B DOWNLIGHT
Optional

- MVOLT

VOLTAGE

C OPTICS
Optional Downlight

D FINISH

E DIFFUSER

F OPTION(S)

G OAH



The uniformly illuminated body, energy efficient source and an L70 lifetime of over 60,000 hours, Cylinder is here to stay. With it's modern or classic accents, it can be easily incorporated into any design. These fixtures are available in environmentally and budget friendly finishes including 16 paint colors or 11 metal finish options.

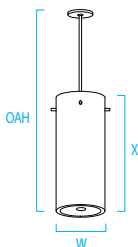
DIMENSIONS

W = Width OAH = Overall Height X = Body Height

OAH is the distance (in inches) from the bottom of the fixture to the ceiling plane. Example - OAH(192) indicates an overall fixture height of 192"

G ⚠ OAH must be specified

W 10" (254 mm)
OAH 42" (1067 mm)
X 25" (635 mm)



A Bodylight SOURCE (Select one) VOLTAGE

MVOLT fixture accepts 120 through 277 input voltage
Dimmable 0-10V to 1% and 82CRI, within 3-step MacAdam

Sources	CCT	Delivered Lumens	Power (watts)	Voltage
• L30K-L	3000K	1900	22	MVOLT
• L35K-L	3500K			
• L40K-L	4000K	2000	48	
• L30K-H	3000K	4400		
• L35K-H	3500K			
• L40K-H	4000K	4500		

B Optional Downlight SOURCE

Fixture bottom is solid if
no downlight is specified

Sources	CCT	Delivered Lumens	Power (watts)
• L30K-L	3000K	1300	14
• L35K-L	3500K	1400	
• L40K-L	4000K		
• L30K-H	3000K	2700	28
• L35K-H	3500K	2800	
• L40K-H	4000K		

C OPTICS

For Downlight Only

MED	48° beam
NRW	34° beam
WIDE	84° beam

D FINISHES - Accent, Stem and Canopy (Select one)

See page 2 for color chart

Powder Coat Painted Finishes (Standard)

AG7038	Agate Grey	CVBL	Cove Blue	GW9002	Grey White	PB1035	Pearl Beige
BMAT	Bronze Matte	CW9001	Cream	HTHR	Heather	RUST	Rust
BRNZ	Bronze	GLIM	Glimmer	JB9005	Jet Black	SUNG	Sungold
BSIL	Blade Silver	GSIL	Graphite Silver	OBRZ	Old Bronze	TW9016	Traffic White

Metal Finishes (Premium)

BA	Brushed Aluminum	BUA	Brushed Copper Alternative	PRA	Pewter Alternative
BB	Bushed Brass	BZA	Brushed Bronze Alternative	RBA	Rustic Brass Alternative
BBA	Brushed Brass Alternative	OBA	Oil-Rubbed Bronze Alternative	SNA	Satin Nickel Alternative
BCA	Brushed Chrome Alternative	PB	Polished Brass		

E DIFFUSER OPTION

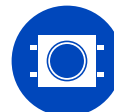
Diffuser is matte white acrylic unless ABA option is selected

- ABA Hand painted Alabaster Alternative

F OPTIONS (Multiple Selections Allowed)

⚠ Option availability may be interdependent with Voltage, Source or Other Options

- DCC Damp clear coat for metal finishes (required for 5 year warranty when used in damp locations)
- XPS Express 10 day shipping. Items marked with a bullet (•) are not available with XPS



LED



ETL Listed



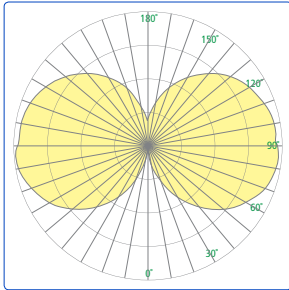
5 Year Warranty

CP4341 – CYLINDER LED

25" Pin Accent



Photometrics

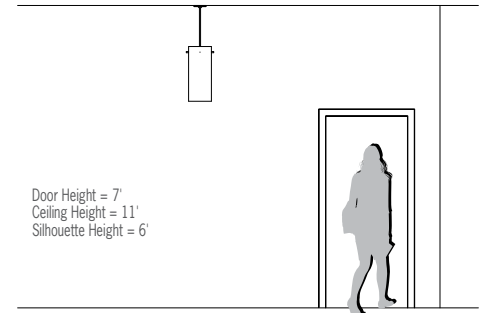


Body Light

Technical Information

- Integral driver
- Wired for dual circuit operation (bodylight/downlight)
- Spun downlight baffle trim, painted white with downlight option (bottom is solid white aluminum when no downlight is specified)
- Mounts to standard electrical junction box (by others) for sloped ceiling up to 45 degrees from horizontal
- Extruded 1/8" thick white acrylic diffuser with matte finish
 - ♦ UV stable
 - ♦ UL-94 HB Flame Class rated
- No VOC powder coat paint finish; Low VOC clear coat on metal finishes
- ETL listed for damp locations. Not suited for exterior applications

Relative Scale Drawing



Specify color code when ordering. For accurate color matching, individual paint and finish samples are [available upon request](#).
For additional information see VisaLighting.com/materials-finishes

Painted Finishes (Standard)



Metal Finishes (Premium)



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Philips Color Kinetics

eW Blast Powercore gen4

Customizable exterior LED wash luminaire with solid white light



eW Blast Powercore gen4 high-performance LED luminaires provide a high-intensity wash of white light with simplified installation. eW Blast Powercore gen4 offers a range of accessories that allow for customizable beam angles for floodlighting, spotlighting, wall washing, and grazing, along with the efficiency and cost-effectiveness of Powercore technology in a rugged die-cast aluminium housing.

- Expands customization with a wide range of new Philips accessory options. In addition to the native 6° lens, five different diffuser lenses can customize the luminaire to produce 20°, 40°, 60°, 80°, and 10° x 40° (asymmetric) beam angles. Three housing color choices (black, gray, and white)—plus the option to add or combine a louver, rock guard, full glare shield, and half glare shield—create new aesthetic possibilities for designers and architects.
- Meets ASTM B117 standard for > 1,500 hours of corrosion resistance and ANSI C136.31-2010 standard with a 3G vibration rating.
- ELV dimming versions of eW Blast gen4 luminaires are available as custom configurations.

Product page

Beam Angle	6°, 20°, 40°, 60°, 80°, 10° x 40°
Lumens†	2,687 to 3,213
Color Temperature*	2700 K, 3000 K, 3500 K, 4000 K
Power Consumption	50 W

[Custom products information available](#)

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz
Housing	Die-cast aluminium, powder-coated finish
Approbations	UL/cUL, FCC Class B, CE, PSE, CQC, RCM, EAC, UA
Environment	Dry/Damp/Wet Location, IP66

2700 K Specification Sheets

PDF Download	Beam Angle	Item Number	Spread Lens	12 NC	Spread Lens 12 NC
2700 K, 100 – 277 VAC, 10° x 40° asymmetric spread lens, Black housing	10° x 40°	523-000100-01	120-000185-12	912400134973	912400130348
2700 K, 100 – 277 VAC, 10° x 40° asymmetric spread lens, Gray housing	10° x 40°	523-000100-08	120-000185-12	912400134977	912400130348
2700 K, 100 – 277 VAC, 10° x 40° asymmetric spread lens, White housing	10° x 40°	523-000100-00	120-000185-12	912400134975	912400130348
2700 K, 100 – 277 VAC, 20° spread lens, Black housing	20°	523-000100-01	120-000185-08	912400134973	912400130344
2700 K, 100 – 277 VAC, 20° spread lens, Gray housing	20°	523-000100-08	120-000185-08	912400134977	912400130344
2700 K, 100 – 277 VAC, 20° spread lens, White housing	20°	523-000100-00	120-000185-08	912400134975	912400130344
2700 K, 100 – 277 VAC, 40° spread lens, Black housing	40°	523-000100-01	120-000185-09	912400134973	912400130345
2700 K, 100 – 277 VAC, 40° spread lens, Gray housing	40°	523-000100-08	120-000185-09	912400134977	912400130345
2700 K, 100 – 277 VAC, 40° spread lens, White housing	40°	523-000100-00	120-000185-09	912400134975	912400130345
2700 K, 100 – 277 VAC, 60° spread lens, Black housing	60°	523-000100-01	120-000185-10	912400134973	912400130346
2700 K, 100 – 277 VAC, 60° spread lens, Gray housing	60°	523-000100-08	120-000185-10	912400134977	912400130346
2700 K, 100 – 277 VAC, 60° spread lens, White housing	60°	523-000100-00	120-000185-10	912400134975	912400130346
2700 K, 100 – 277 VAC, 6° Native (no spread lens), Black housing	6°	523-000100-01		912400134973	
2700 K, 100 – 277 VAC, 6° Native (no spread lens), Gray housing	6°	523-000100-08		912400134977	
2700 K, 100 – 277 VAC, 6° Native (no spread lens), White housing	6°	523-000100-00		912400134975	
2700 K, 100 – 277 VAC, 80° spread lens, Black housing	80°	523-000100-01	120-000185-11	912400134973	912400130347
2700 K, 100 – 277 VAC, 80° spread lens, Gray housing	80°	523-000100-08	120-000185-11	912400134977	912400130347
2700 K, 100 – 277 VAC, 80° spread lens, White housing	80°	523-000100-00	120-000185-11	912400134975	912400130347

For help estimating the light output and distribution of lighting luminaires, please contact Philips Color Kinetics Applications Engineering Services at www.lighting.philips.com/support/connect/contact-us.

3000 K

PDF Download	Beam Angle	Lumens [†]	Efficacy	Item Number	Spread Lens	12 NC	Spread Lens 12 NC
3000 K, 100 – 277 VAC, 10° x 40° asymmetric spread lens, Black housing	10° x 40°	2,917	61.2	523-000100-25	120-000185-12	912400135497	912400130348
3000 K, 100 – 277 VAC, 10° x 40° asymmetric spread lens, Gray housing	10° x 40°	2,917	61.2	523-000100-26	120-000185-12	912400135498	912400130348
3000 K, 100 – 277 VAC, 10° x 40° asymmetric spread lens, White housing	10° x 40°	2,917	61.2	523-000100-24	120-000185-12	912400135496	912400130348
3000 K, 100 – 277 VAC, 20° spread lens, Black housing	20°	2,747	57.6	523-000100-25	120-000185-08	912400135497	912400130344
3000 K, 100 – 277 VAC, 20° spread lens, Gray housing	20°	2,747	57.6	523-000100-26	120-000185-08	912400135498	912400130344
3000 K, 100 – 277 VAC, 20° spread lens, White housing	20°	2,747	57.6	523-000100-24	120-000185-08	912400135496	912400130344
3000 K, 100 – 277 VAC, 40° spread lens, Black housing	40°	2,728	57.2	523-000100-25	120-000185-09	912400135497	912400130345
3000 K, 100 – 277 VAC, 40° spread lens, Gray housing	40°	2,728	57.2	523-000100-26	120-000185-09	912400135498	912400130345
3000 K, 100 – 277 VAC, 40° spread lens, White housing	40°	2,728	57.2	523-000100-24	120-000185-09	912400135496	912400130345
3000 K, 100 – 277 VAC, 60° spread lens, Black housing	60°	2,723	57.1	523-000100-25	120-000185-10	912400135497	912400130346
3000 K, 100 – 277 VAC, 60° spread lens, Gray housing	60°	2,723	57.1	523-000100-26	120-000185-10	912400135498	912400130346
3000 K, 100 – 277 VAC, 60° spread lens, White housing	60°	2,723	57.1	523-000100-24	120-000185-10	912400135496	912400130346
3000 K, 100 – 277 VAC, 6° Native (no spread lens), Black housing	6°	3,213	67.4	523-000100-25		912400135497	
3000 K, 100 – 277 VAC, 6° Native (no spread lens), Gray housing	6°	3,213	67.4	523-000100-26		912400135498	
3000 K, 100 – 277 VAC, 6° Native (no spread lens), White housing	6°	3,213	67.4	523-000100-24		912400135496	
3000 K, 100 – 277 VAC, 80° spread lens, Black housing	80°	2,701	56.6	523-000100-25	120-000185-11	912400135497	912400130347
3000 K, 100 – 277 VAC, 80° spread lens, Gray housing	80°	2,701	56.6	523-000100-26	120-000185-11	912400135498	912400130347
3000 K, 100 – 277 VAC, 80° spread lens, White housing	80°	2,701	56.6	523-000100-24	120-000185-11	912400135496	912400130347

3500 K

PDF Download	Beam Angle	Item Number	Spread Lens	12 NC	Spread Lens 12 NC
3500 K, 100 – 277 VAC, 10° x 40° asymmetric spread lens, Black housing	10° x 40°	523-000100-31	120-000185-12	912400135504	912400130348
3500 K, 100 – 277 VAC, 10° x 40° asymmetric spread lens, Gray housing	10° x 40°	523-000100-32	120-000185-12	912400135505	912400130348
3500 K, 100 – 277 VAC, 10° x 40° asymmetric spread lens, White housing	10° x 40°	523-000100-30	120-000185-12	912400135503	912400130348
3500 K, 100 – 277 VAC, 20° spread lens, Black housing	20°	523-000100-31	120-000185-08	912400135504	912400130344
3500 K, 100 – 277 VAC, 20° spread lens, Gray housing	20°	523-000100-32	120-000185-08	912400135505	912400130344
3500 K, 100 – 277 VAC, 20° spread lens, White housing	20°	523-000100-30	120-000185-08	912400135503	912400130344
3500 K, 100 – 277 VAC, 40° spread lens, Black housing	40°	523-000100-31	120-000185-09	912400135504	912400130345
3500 K, 100 – 277 VAC, 40° spread lens, Gray housing	40°	523-000100-32	120-000185-09	912400135505	912400130345
3500 K, 100 – 277 VAC, 40° spread lens, White housing	40°	523-000100-30	120-000185-09	912400135503	912400130345
3500 K, 100 – 277 VAC, 60° spread lens, Black housing	60°	523-000100-31	120-000185-10	912400135504	912400130346
3500 K, 100 – 277 VAC, 60° spread lens, Gray housing	60°	523-000100-32	120-000185-10	912400135505	912400130346
3500 K, 100 – 277 VAC, 60° spread lens, White housing	60°	523-000100-30	120-000185-10	912400135503	912400130346
3500 K, 100 – 277 VAC, 6° Native (no spread lens), Black housing	6°	523-000100-31		912400135504	
3500 K, 100 – 277 VAC, 6° Native (no spread lens), Gray housing	6°	523-000100-32		912400135505	
3500 K, 100 – 277 VAC, 6° Native (no spread lens), White housing	6°	523-000100-30		912400135503	
3500 K, 100 – 277 VAC, 80° spread lens, Black housing	80°	523-000100-31	120-000185-11	912400135504	912400130347
3500 K, 100 – 277 VAC, 80° spread lens, Gray housing	80°	523-000100-32	120-000185-11	912400135505	912400130347
3500 K, 100 – 277 VAC, 80° spread lens, White housing	80°	523-000100-30	120-000185-11	912400135503	912400130347

4000 K

PDF Download	Beam Angle	Lumens†	Efficacy	Item Number	Spread Lens	12 NC	Spread Lens 12 NC
4000 K, 100 – 277 VAC, 10° x 40° asymmetric spread lens, Black housing	10° x 40°	2,894	59.7	523-000100-05	120-000185-12	912400134979	912400130348
4000 K, 100 – 277 VAC, 10° x 40° asymmetric spread lens, Gray housing	10° x 40°	2,894	59.7	523-000100-09	120-000185-12	912400134983	912400130348
4000 K, 100 – 277 VAC, 10° x 40° asymmetric spread lens, White housing	10° x 40°	2,894	59.7	523-000100-04	120-000185-12	912400134981	912400130348
4000 K, 100 – 277 VAC, 20° spread lens, Black housing	20°	2,726	56.2	523-000100-05	120-000185-08	912400134979	912400130344
4000 K, 100 – 277 VAC, 20° spread lens, Gray housing	20°	2,726	56.2	523-000100-09	120-000185-08	912400134983	912400130344
4000 K, 100 – 277 VAC, 20° spread lens, White housing	20°	2,726	56.2	523-000100-04	120-000185-08	912400134981	912400130344
4000 K, 100 – 277 VAC, 40° spread lens, Black housing	40°	2,707	55.8	523-000100-05	120-000185-09	912400134979	912400130345
4000 K, 100 – 277 VAC, 40° spread lens, Gray housing	40°	2,707	55.8	523-000100-09	120-000185-09	912400134983	912400130345
4000 K, 100 – 277 VAC, 40° spread lens, White housing	40°	2,707	55.8	523-000100-04	120-000185-09	912400134981	912400130345
4000 K, 100 – 277 VAC, 60° spread lens, Black housing	60°	2,713	55.9	523-000100-05	120-000185-10	912400134979	912400130346
4000 K, 100 – 277 VAC, 60° spread lens, Gray housing	60°	2,713	55.9	523-000100-09	120-000185-10	912400134983	912400130346
4000 K, 100 – 277 VAC, 60° spread lens, White housing	60°	2,713	55.9	523-000100-04	120-000185-10	912400134981	912400130346
4000 K, 100 – 277 VAC, 6° Native (no spread lens), Black housing	6°	3,189	65.8	523-000100-05		912400134979	
4000 K, 100 – 277 VAC, 6° Native (no spread lens), Gray housing	6°	3,189	65.8	523-000100-09		912400134983	
4000 K, 100 – 277 VAC, 6° Native (no spread lens), White housing	6°	3,189	65.8	523-000100-04		912400134981	
4000 K, 100 – 277 VAC, 80° spread lens, Black housing	80°	2,687	55.4	523-000100-05	120-000185-11	912400134979	912400130347
4000 K, 100 – 277 VAC, 80° spread lens, Gray housing	80°	2,687	55.4	523-000100-09	120-000185-11	912400134983	912400130347
4000 K, 100 – 277 VAC, 80° spread lens, White housing	80°	2,687	55.4	523-000100-04	120-000185-11	912400134981	912400130347

* Correlated color temperature (CCT) complies with ANSI C78.377-2008 for the chromaticity of solid state lighting products.

† Lumen output measurements comply with IES LM-79-08 testing procedures.



CIRRUS SUSPENSION DOWNLIGHT WITH POWER, END FEED

REV 02.23.18

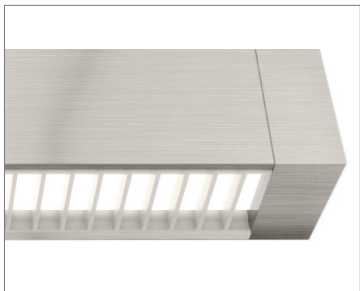
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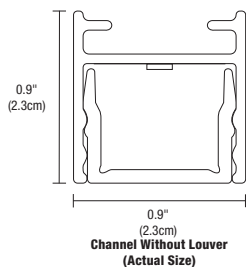
Diffused White Lens



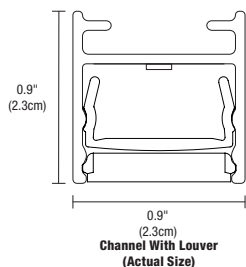
Clear Frosted Lens with Black Louver



Diffused White Lens with White Louver



Channel Without Louver (Actual Size)



Channel With Louver (Actual Size)
System



Description

Cirrus Power Suspension Downlight with a 24VDC power supply in the canopy is a linear LED fixture that offers direct light in a clean, contemporary style. Cirrus is available in various increments from 12" to 720" (60ft), with a 100° white diffused lens or 60° clear frosted lens, optional black or white louver, and a variety of finishes with Warm Dim and Tunable White options. Fixture includes a 5 year warranty. For custom designs and quotes, send drawings to Design@PureEdgeLighting.com.

Wattages for this fixture are available in the following options:

- 2W 2.5 watts per foot, lengths up to 720" (60ft)
- 5W 4.4 watts per foot, lengths up to 420" (35ft)
- 7W 7.3 watts per foot, lengths up to 288" (24ft)
- 10W 9.6 watts per foot, lengths up to 240" (20ft)

Installation

- Includes canopy with 120V/24VDC Electronic Low Voltage LED power supply. For 60 watts (Non-IC), the power supply will fit inside the electrical junction box with a flush 4.6" canopy
- Includes adjustable 12ft coaxial cables (additional aircraft cables included for support when fixture exceeds 96")

Finishes

- Chrome, Satin Aluminum, Satin Nickel and White finishes come with Satin Nickel hardware
- Satin Black, Satin Brass and Antique Bronze finishes come with Antique Bronze hardware

Lenses

- Diffused White 100° lens or Clear Frosted 60° lens, both offered with black or white louver (60° lens not available without louvers)

Applications

Designed for indoor use only. Ideal environments include: Kitchens, dining rooms, hallways, conference rooms, offices, architectural and retail.

Lamping

- Choose from 9 different color temperatures from 22K - 57K including Warm Dim and Tunable White options
- Warm Dim (optional): 2700K to 2000K (27D) or 3000K to 2000K (30D)
- Tunable White (optional): 2000K to 4000K
- 50,000 Hour Lamp Life

Power Supply (included in canopy)

- 120V input, 24VDC 100 watt Class 2 output; Electronic Low Voltage LED power supply

Dimming

- Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2

*Dimmers not available through PureEdge Lighting

	Wattage Per Foot	Canopy	Nominal Size	Color Temperature	Finish
CSDSP	2W	E	720	22K	SN
CSDSP Cirrus Suspension Diffused lens, Standard Efficiency, Power CSDHP Cirrus Suspension Diffused lens, High Efficiency, Power CSDWP Cirrus Suspension Diffused with White louver, Power CSDBP Cirrus Suspension Diffused with Black louver, Power CSCWP Cirrus Suspension Clear frosted lens with White louver, Power CSCBP Cirrus Suspension Clear frosted lens with Black louver, Power	2W 2.5 Watts (720" max, 60ft) 5W 4.4 Watts (420" max, 35ft) 7W 7.5 Watts (288" max, 24ft) 10W 9.6 Watts (240" max, 20ft)	E End Feed E2 End Feed, 2 Canopies	12-720 Order in various increments from 12" to 720". Maximum shipping length is 120"; Maximum shipping length for Chrome is 84". *See length chart for exact dimensions	22K 2200K Amber White 27K 2700K Very Warm White 27D 2700K Warm Dim (5W only) 30K 3000K Warm White 30D 3000K Warm Dim (5W only) 35K 3500K Neutral White 40K 4000K Cool White 57K 5700K Daylight White 2K4K 2000K-4000K (5W only, 20 ft. max)	BK Satin Black BZ Antique Bronze CH Chrome SA Satin Aluminum SB Satin Brass SN Satin Nickel WH White

PROJECT		FIXTURE TYPE		DATE	
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CIRRUS SUSPENSION DOWNLIGHT WITH POWER, END FEED

REV 02.23.18 DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

Lamp Data: Lamp data for Downlight Channel

CSDSP																										
DESCRIPTION	Standard Efficiency, 100 Degree Diffused White Lens without Louver																									
WATTS PER FOOT	2w (2.5 watts)						5w (4.4 watts)						7w (7.3 watts)						10w (9.6 watts)							
COLOR TEMPERATURE	22K	27K	30K	35K	40K	57K	22K	27K	27D*	30K	30D*	35K	40K	57K	22K	27K	30K	35K	40K	57K	22K	27K	30K	35K	40K	57K
LUMENS PER FOOT (lm/ft)	99	121	132	152	165	175	195	238	236	260	259	298	324	345	307	374	409	469	509	542	362	442	483	553	602	640
LUMENS PER WATT (lm/w)	40	48	53	61	66	70	44	54	49	59	54	68	74	78	42	51	56	64	70	74	38	46	50	58	63	67
CRI	85+	95+	95+	85+	84	84	85+	95+	95+	95+	95+	85+	84	84	85+	95+	95+	85+	84	84	85+	95+	95+	85+	84	84

CSDHP																										
DESCRIPTION	High Efficiency, 100 Degree Diffused White Lens without Louver																									
WATTS PER FOOT	2w (2.5 watts)						5w (4.4 watts)						7w (7.3 watts)						10w (9.6 watts)							
COLOR TEMPERATURE	22K	27K	30K	35K	40K	57K	22K	27K	27D*	30K	30D*	35K	40K	57K	22K	27K	30K	35K	40K	57K	22K	27K	30K	35K	40K	57K
LUMENS PER FOOT (lm/ft)	122	149	163	187	203	216	240	293	291	320	318	366	398	424	377	461	503	576	627	667	446	544	594	681	740	788
LUMENS PER WATT (lm/w)	49	60	65	75	81	86	55	67	61	73	66	83	91	96	52	63	69	79	86	91	46	57	62	71	77	82
CRI	85+	95+	95+	85+	84	84	85+	95+	95+	95+	95+	85+	84	84	85+	95+	95+	85+	84	84	85+	95+	95+	85+	84	84

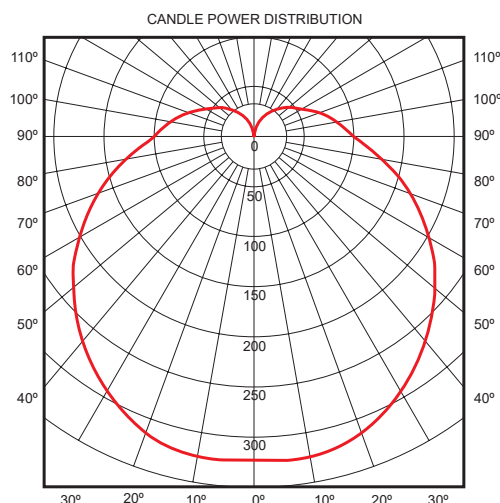
CSDWP																										
DESCRIPTION	100 Degree Diffused White Lens with White Louver																									
WATTS PER FOOT	2w (2.5 watts)						5w (4.4 watts)						7w (7.3 watts)						10w (9.6 watts)							
COLOR TEMPERATURE	22K	27K	30K	35K	40K	57K	22K	27K	27D*	30K	30D*	35K	40K	57K	22K	27K	30K	35K	40K	57K	22K	27K	30K	35K	40K	57K
LUMENS PER FOOT (lm/ft)	82	100	109	125	136	145	161	196	218	215	238	246	267	284	253	309	338	387	420	448	299	365	399	457	497	529
LUMENS PER WATT (lm/w)	33	40	44	50	54	58	37	45	45	49	50	56	61	65	35	42	46	53	58	61	31	38	42	48	52	55
CRI	85+	95+	95+	85+	84	84	85+	95+	95+	95+	95+	85+	84	84	85+	95+	95+	85+	84	84	85+	95+	95+	85+	84	84

CSCWP																										
DESCRIPTION	60 Degree Clear Frosted Lens with White Louver																									
WATTS PER FOOT	2w (2.5 watts)						5w (4.4 watts)						7w (7.3 watts)						10w (9.6 watts)							
COLOR TEMPERATURE	22K	27K	30K	35K	40K	57K	22K	27K	27D*	30K	30D*	35K	40K	57K	22K	27K	30K	35K	40K	57K	22K	27K	30K	35K	40K	57K
LUMENS PER FOOT (lm/ft)	101	123	134	154	167	178	198	242	229	264	250	302	329	350	312	380	415	476	517	550	368	449	491	562	611	650
LUMENS PER WATT (lm/w)	40	49	54	62	67	71	45	55	48	60	52	69	75	79	43	52	57	65	71	75	38	47	51	59	64	68
CRI	85+	95+	95+	85+	84	84	85+	95+	95+	95+	95+	85+	84	84	85+	95+	95+	85+	84	84	85+	95+	95+	85+	84	84

CSDBP																										
DESCRIPTION	100 Degree Diffused White Lens with Black Louver																									
WATTS PER FOOT	2w (2.5 watts)						5w (4.4 watts)						7w (7.3 watts)						10w (9.6 watts)							
COLOR TEMPERATURE	22K	27K	30K	35K	40K	57K	22K	27K	27D*	30K	30D*	35K	40K	57K	22K	27K	30K	35K	40K	57K	22K	27K	30K	35K	40K	57K
LUMENS PER FOOT (lm/ft)	47	58	63	72	79	84	93	113	139	124	152	142	154	164	146	178	195	223	243	258	173	211	230	264	287	305
LUMENS PER WATT (lm/w)	19	23	25	29	31	33	21	26	29	28	32	32	35	37	20	24	27	31	33	35	18	22	24	27	30	32
CRI	85+	95+	95+	85+	84	84	85+	95+	95+	95+	95+	85+	84	84	85+	95+	95+	85+	84	84	85+	95+	95+	85+	84	84

CSCBP																										
DESCRIPTION	60 Degree Clear Frosted Lens with Black Louver																									
WATTS PER FOOT	2w (2.5 watts)						5w (4.4 watts)						7w (7.3 watts)						10w (9.6 watts)							
COLOR TEMPERATURE	22K	27K	30K	35K	40K	57K	22K	27K	27D*	30K	30D*	35K	40K	57K	22K	27K	30K	35K	40K	57K	22K	27K	30K	35K	40K	57K
LUMENS PER FOOT (lm/ft)	58	71	78	89	97	103	114	139	159	152	174	174	190	202	180	219	240	274	298	318	212	259	283	324	352	375
LUMENS PER WATT (lm/w)	23	28	31	36	39	41	26	32	33	35	36	40	43	46	25	30	33	38	41	44	22	27	29	34	37	39
CRI	85+	95+	95+	85+	84	84	85+	95+	95+	95+	95+	85+	84	84	85+	95+	95+	85+	84	84	85+	95+	95+	85+	84	84

*27D, 30D - Warm Dim (4.8 Watts)



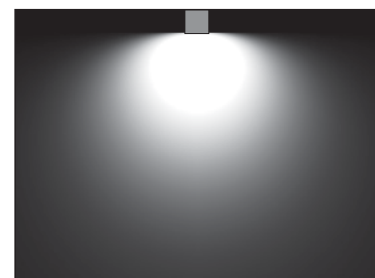
2 Watt 100°		Distance	Foot Candles
		1'	76
		1.5'	49
		2'	36
		3'	23
		4'	16
		5'	12
		6'	9
		7'	7
		8'	5

5 Watt 100°		Distance	Foot Candles
		1'	122
		1.5'	80
		2'	59
		3'	38
		4'	27
		5'	20
		6'	15
		7'	12
		8'	10

7 Watt 100°		Distance	Foot Candles
		1'	200
		1.5'	131
		2'	96
		3'	62
		4'	45
		5'	33
		6'	26
		7'	21
		8'	18

10 Watt 100°		Distance	Foot Candles
		1'	227
		1.5'	148
		2'	110
		3'	71
		4'	51
		5'	38
		6'	30
		7'	23
		8'	18

Cirrus Downlight 100° Beam Spread



PROJECT	FIXTURE TYPE										DATE
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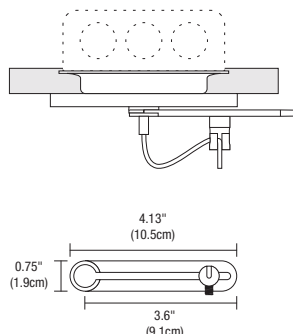
CIRRUS SUSPENSION DOWNLIGHT WITH POWER, END FEED

REV 02.23.18

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Accessories: Accessories for Cirrus Suspension

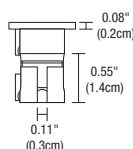
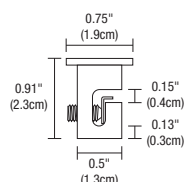
6 Inch Canopy
(Not Included)



Channel Suspension Adjustable Swag Bar & Hook

The Adjustable Swag Bar and Hook allows a cable to form a straight connection to the channel when the Power Canopy is not located directly above the fixture. Use when you have two or more power supply and canopies on the same fixture run. The Adjustable Swag Hook is compatible with the 2R, 2S, 4S, 4R, 5S and 6S Power Canopies (Canopy not included).

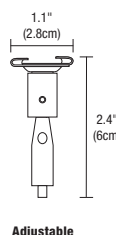
Product	Type	Finish
CS	ADJ-SWAG	SN
CS Channel Suspension	ADJ-SWAG Adjustable Swag Hook for Static White ADJ-DP-SWAG Dual Post Adjustable Swag Hook for 2K4K & RGB	SN Satin Nickel



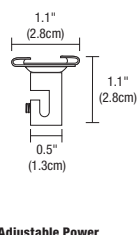
Channel Suspension Swag Hook

The clear plastic Swag Hook extends a cable from an electrical box that is not located directly above desired fixture location.

System	Type
CS	SWAG
CS Channel Suspension	SWAG Swag Hook



Adjustable



Adjustable Power

Cirrus Suspension Adjustable T-Bar Clip

Cirrus Suspension Adjustable T-Bar Clip mounts to T-Bar grid ceiling. Available in Satin Nickel hardware as adjustable power and non-power versions.

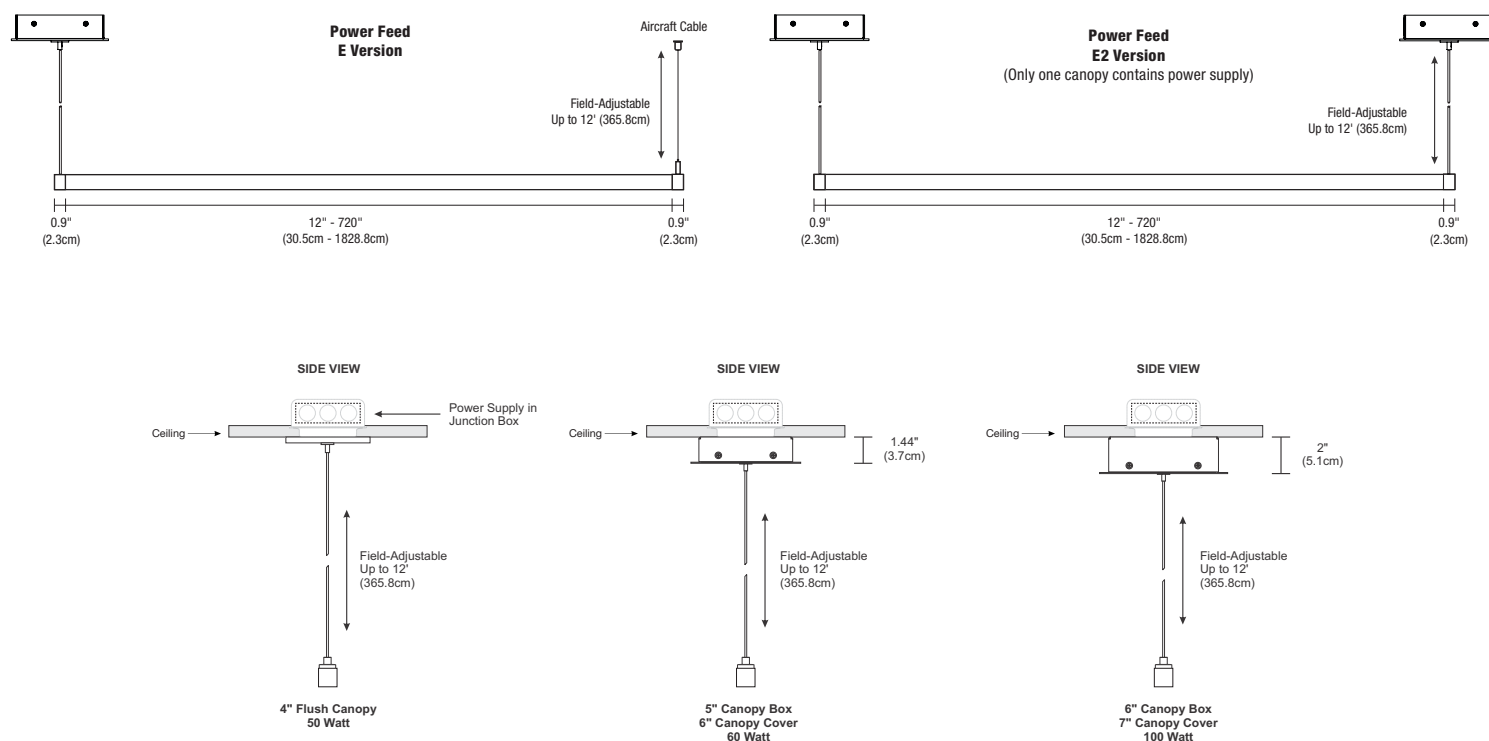
Product	Type	Options	Finish
CS	TBAR	A	W
CS Channel Suspension	TBAR 9/16" and 15/16"	A Adjustable AP Adjustable Power	W White B Black

CIRRUS SUSPENSION DOWNLIGHT WITH POWER, END FEED

REV 02.23.18

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Canopy: Sizes and wattages for the Cirrus Suspension Downlight End Feed Canopy



Canopy Chart				
Version	4" FLUSH CANOPY (50 WATTS)	5" SURFACE MOUNT CANOPY (60 WATTS)	6" SURFACE MOUNT CANOPY (100 WATTS)	6" SURFACE MOUNT CANOPY (200 WATTS)
2W Lengths	Up to 240"	241" - 288"	289" - 480"	481" - 720" (60ft)
5W Lengths	Up to 120"	123" - 144"	146" - 240"	241" - 420" (35ft)
7W Lengths	Up to 80"	84" - 96"	98" - 162"	163" - 288" (24ft)
10W Lengths	Up to 60"	61" - 72"	74" - 120"	121" - 240" (20ft)

Finishes: The finishes available for the Cirrus Suspension Downlight End Feed with Power



PROJECT		FIXTURE TYPE		DATE	
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CIRRUS SUSPENSION DOWNLIGHT WITH POWER, END FEED

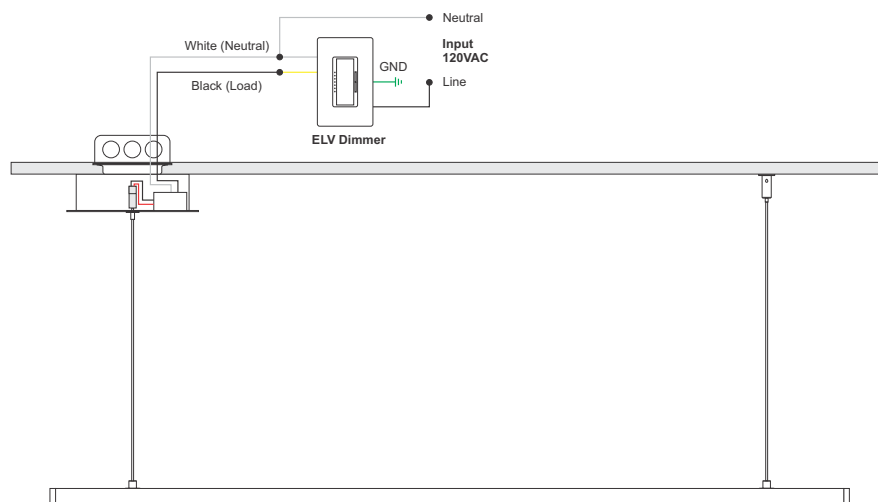
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Wiring Diagram: Wiring diagram for a ELV Dimmer

Application: ELV dimming for Cirrus Power Suspension, End Feed, Static White

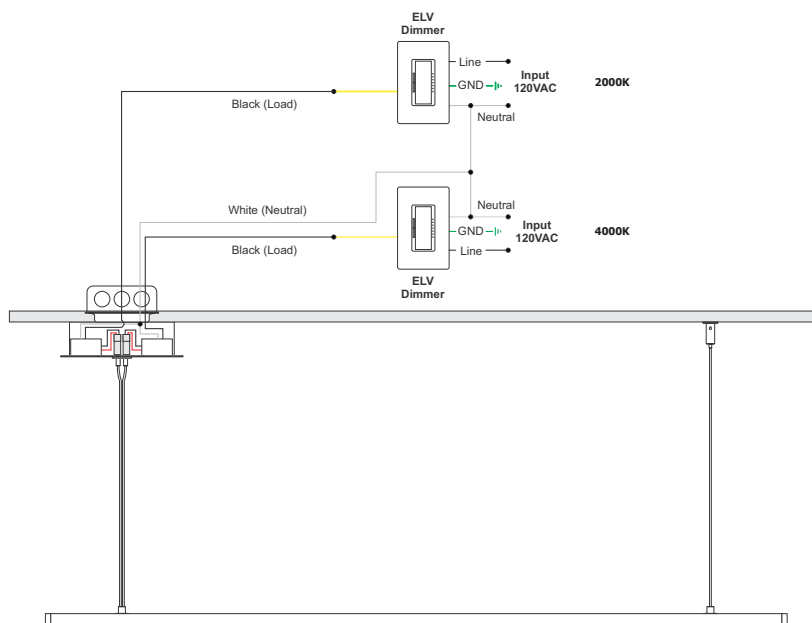
Dimming: Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU;
Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2



Wiring Diagram: Wiring diagram for a ELV Dimmer

Application: ELV dimming for Cirrus Power Suspension, End Feed, Tunable White 2000K-4000K

Dimming: Dimmable with ELV dimmer: Philips: Sunrise SR1200ZTUNV; Lutron: Diva DVTV-WH, Nova-T NTSTV-DV-XX
Grafix Eye QS QSGRJ-XP, Radio RA2 RRD-1-ND; Leviton: LEV40050, IP 710-LFZ; Legrand ADPD4FBL3P2W4



PROJECT	FIXTURE TYPE	DATE
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CIRRUS SUSPENSION DOWNLIGHT WITH POWER, END FEED

REV 02.23.18

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Length Chart: Actual lengths for Cirrus Suspension Downlight with Power, End Feed.

22K, 27K, 30K, 35K, 40K, 57K, & 2K4K								
ORDERING CODE (NOMINAL SIZE)	ACTUAL LENGTH (INCHES)	ACTUAL LENGTH (CHROME)	ORDERING CODE (NOMINAL SIZE)	ACTUAL LENGTH (INCHES)	ACTUAL LENGTH (CHROME)	ORDERING CODE (NOMINAL SIZE)	ACTUAL LENGTH (INCHES)	ACTUAL LENGTH (CHROME)
12	13.1	13.1	171	171.9	172.3	329	330.7	331.1
15	15.5	15.5	173	174.3	174.7	332	333.1	333.5
17	17.9	17.9	176	176.7	177.1	334	335.5	335.9
20	20.3	20.3	178	179.1	179.5	336	337.9	338.3
22	22.7	22.7	180	181.5	181.9	339	340.3	341.1
24	25.1	25.1	183	183.9	184.3	341	342.7	343.5
27	27.5	27.5	185	186.3	186.7	344	345.0	345.9
29	29.9	29.9	188	188.7	189.1	346	347.4	348.3
32	32.3	32.3	190	191.1	191.5	348	349.8	350.7
34	34.7	34.7	192	193.5	193.9	351	352.2	353.0
36	37.1	37.1	195	195.9	196.3	353	354.6	355.4
39	39.5	39.5	197	198.3	198.7	356	357.0	357.8
41	41.9	41.9	200	200.7	201.1	358	359.4	360.2
44	44.3	44.3	202	203.1	203.5	360	361.8	362.6
46	46.7	46.7	204	205.5	205.9	363	364.6	365.0
48	49.1	49.1	207	207.9	208.3	365	367.0	367.4
51	51.5	51.5	209	210.3	210.7	368	369.4	369.8
53	53.9	53.9	212	212.7	213.1	370	371.8	372.2
56	56.3	56.3	214	215.1	215.5	372	374.2	374.6
58	58.7	58.7	216	217.5	217.9	375	376.6	377.0
60	61.1	61.1	219	219.9	220.3	377	379.0	379.4
63	63.5	63.5	221	222.3	222.7	380	381.4	381.8
65	65.9	65.9	224	224.7	225.1	382	383.8	384.2
68	68.3	68.3	226	227.1	227.5	384	386.2	386.6
70	70.7	70.7	228	229.5	229.9	387	388.6	389.0
72	73.1	73.1	231	231.9	232.3	389	391.0	391.4
75	75.5	75.5	233	234.3	234.7	392	393.4	393.8
77	77.9	77.9	236	236.7	237.1	394	395.8	396.2
80	80.3	80.3	238	239.1	239.5	396	398.2	398.6
82	82.7	82.7	240 (2K4K max)	241.5	241.9	399	400.6	401.0
84	85.1	85.1	243	244.3	244.7	401	403.0	403.4
87	87.5	87.9	245	246.7	246.7	404	405.4	405.8
89	89.9	90.3	248	249.1	249.1	406	407.8	408.2
92	92.3	92.7	250	251.5	251.5	408	410.2	410.6
94	94.7	95.1	252	253.9	253.9	411	412.6	413.0
96	97.1	97.5	255	256.3	256.7	413	415.0	415.4
99	99.5	99.9	257	258.7	259.1	416	417.4	417.8
101	101.9	102.3	260	261.1	261.5	418	419.8	420.2
104	104.3	104.7	262	263.5	263.9	420	422.2	422.6
106	106.7	107.1	264	265.9	266.3	423	424.6	425.0
108	109.1	109.5	267	268.3	268.7	425	427.0	427.4
111	111.5	111.9	269	270.7	271.1	428	429.4	430.2
113	113.9	114.3	272	273.1	273.5	430	431.8	432.6
116	116.3	116.7	274	275.5	275.9	432	434.2	435.0
118	118.7	119.1	276	277.9	278.3	435	436.6	437.4
120	121.1	121.5	279	280.3	280.7	437	439.0	439.8
123	123.9	123.9	281	282.7	283.1	440	441.4	442.2
125	126.3	126.3	284	285.1	285.5	442	443.8	444.6
128	128.7	128.7	286	287.5	287.9	444	446.2	447.0
130	131.1	131.1	288	289.9	290.3	447	448.6	449.4
132	133.5	133.5	291	292.3	292.7	449	451.0	451.8
135	135.9	135.9	293	294.7	295.1	452	453.4	454.2
137	138.3	138.3	296	297.1	297.5	454	455.8	456.6
140	140.7	140.7	298	299.5	299.9	456	458.2	459.0
142	143.1	143.1	300	301.9	302.3	459	460.6	461.4
144	145.5	145.5	303	304.3	304.7	461	463.0	463.8
147	147.9	147.9	305	306.7	307.1	464	465.4	466.2
149	150.3	150.3	308	309.1	309.5	466	467.8	468.6
152	152.7	152.7	310	311.5	311.9	468	470.2	471.0
154	155.1	155.1	312	313.9	314.3	471	472.6	473.4
156	157.5	157.5	315	316.3	316.7	473	475.0	475.8
159	159.9	159.9	317	318.7	319.1	476	477.4	478.2
161	162.3	162.3	320	321.1	321.5	478	479.8	480.6
164	164.7	164.7	322	323.5	323.9	480	482.2	483.0
166	167.1	167.1	324	325.9	326.3	483	485.0	485.4
168	169.5	169.5	327	328.3	328.7	485	487.4	487.8

Continued on next page

PROJECT		FIXTURE TYPE		DATE	
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CIRRUS SUSPENSION DOWNLIGHT WITH POWER, END FEED

REV 02.23.18

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

Length Chart: Actual lengths for Cirrus Suspension Downlight with Power, End Feed.

22K, 27K, 30K, 35K, 40K & 57K					
ORDERING CODE (NOMINAL SIZE)	ACTUAL LENGTH (INCHES)	ACTUAL LENGTH (CHROME)	ORDERING CODE (NOMINAL SIZE)	ACTUAL LENGTH (INCHES)	ACTUAL LENGTH (CHROME)
488	489.8	490.2	605	607.8	608.6
490	492.2	492.6	608	610.2	611.0
492	494.6	495.0	610	612.6	613.4
495	497.0	497.4	612	615.0	615.8
497	499.4	499.8	615	617.4	618.2
500	501.8	502.2	617	619.8	620.6
502	504.2	504.6	620	622.2	623.0
504	506.6	507.0	622	624.6	625.4
507	509.0	509.8	624	627.0	627.8
509	511.4	512.2	627	629.4	630.2
512	513.8	514.6	629	631.8	632.6
514	516.2	517.0	632	634.2	635.0
516	518.6	519.4	634	636.6	637.4
519	521.0	521.8	636	639.0	639.8
521	523.4	524.2	639	641.4	642.2
524	525.8	526.6	641	643.8	644.6
526	528.2	529.0	644	646.2	647.0
528	530.6	531.4	646	648.6	649.4
531	533.0	533.8	648	651.0	651.8
533	535.4	536.2	651	653.4	654.2
536	537.8	538.6	653	655.8	656.6
538	540.2	541.0	656	658.2	659.0
540	542.6	543.4	658	660.6	661.4
543	545.0	545.8	660	663.0	663.8
545	547.4	548.2	663	665.4	666.2
548	549.8	550.6	665	667.8	668.6
550	552.2	553.0	668	670.2	671.0
552	554.6	555.4	670	672.6	673.4
555	557.0	557.8	672	675.0	675.8
557	559.4	560.2	675	677.4	678.6
560	561.8	562.6	677	679.8	681.0
562	564.2	565.0	680	682.2	683.4
564	566.6	567.4	682	684.6	685.8
567	569.0	569.8	684	687.0	688.2
569	571.4	572.2	687	689.4	690.6
572	573.8	574.6	689	691.8	693.0
574	576.2	577.0	692	694.2	695.4
576	578.6	579.4	694	696.6	697.8
579	581.0	581.8	696	699.0	700.2
581	583.4	584.2	699	701.4	702.6
584	585.8	586.6	701	703.8	705.0
586	588.2	589.0	704	706.2	707.4
588	590.6	591.4	706	708.6	709.8
591	593.0	594.2	708	711.0	712.2
593	595.4	596.6	711	713.4	714.6
596	597.8	599.0	713	715.8	717.0
598	600.2	601.4	716	718.2	719.4
600	602.6	603.8	718	720.6	721.8
603	605.4	606.2	720	723.0	724.2

PROJECT		FIXTURE TYPE		DATE	
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CIRRUS SUSPENSION DOWNLIGHT WITH POWER, END FEED

REV 02.23.18

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

Length Chart: Actual lengths for Cirrus Suspension Downlight with Power, End Feed.

27D & 30D (5W)								
ORDERING CODE (NOMINAL SIZE)	ACTUAL LENGTH (INCHES)	ACTUAL LENGTH (CHROME)	ORDERING CODE (NOMINAL SIZE)	ACTUAL LENGTH (INCHES)	ACTUAL LENGTH (CHROME)	ORDERING CODE (NOMINAL SIZE)	ACTUAL LENGTH (INCHES)	ACTUAL LENGTH (CHROME)
12	13.0	13.0	171	172.4	172.8	330	331.8	332.2
15	16.0	16.0	174	175.4	175.8	333	334.8	335.2
18	19.0	19.0	177	178.4	178.8	336	337.8	338.2
21	22.0	22.0	180	181.4	181.8	339	340.8	341.6
24	25.0	25.0	183	184.4	184.8	342	343.8	344.6
27	28.0	28.0	186	187.4	187.8	345	346.8	347.6
30	31.0	31.0	189	190.4	190.8	348	349.8	350.6
33	34.0	34.0	192	193.4	193.8	351	352.8	353.6
36	37.0	37.0	195	196.4	196.8	354	355.8	356.6
39	40.0	40.0	198	199.4	199.8	357	358.8	359.6
42	43.0	43.0	201	202.4	202.8	360	361.8	362.6
45	46.0	46.0	204	205.4	205.8	363	365.2	365.6
48	49.0	49.0	207	208.4	208.8	366	368.2	368.6
51	52.0	52.0	210	211.4	211.8	369	371.2	371.6
54	55.0	55.0	213	214.4	214.8	372	374.2	374.6
57	58.0	58.0	216	217.4	217.8	375	377.2	377.6
60	61.0	61.0	219	220.4	220.8	378	380.2	380.6
63	64.0	64.0	222	223.4	223.8	381	383.2	383.6
66	67.0	67.0	225	226.4	226.8	384	386.2	386.6
69	70.0	70.0	228	229.4	229.8	387	389.2	389.6
72	73.0	73.0	231	232.4	232.8	390	392.2	392.6
75	76.0	76.0	234	235.4	235.8	393	395.2	395.6
78	79.0	79.0	237	238.4	238.8	396	398.2	398.6
81	82.0	82.0	240	241.4	241.8	399	401.2	401.6
84	85.0	85.0	243	244.8	244.8	402	404.2	404.6
87	88.0	88.4	246	247.8	247.8	405	407.2	407.6
90	91.0	91.4	249	250.8	250.8	408	410.2	410.6
93	94.0	94.4	252	253.8	253.8	411	413.2	413.6
96	97.0	97.4	255	256.8	257.2	414	416.2	416.6
99	100.0	100.4	258	259.8	260.2	417	419.2	419.6
102	103.0	103.4	261	262.8	263.2	420	422.2	422.6
105	106.0	106.4	264	265.8	266.2			
108	109.0	109.4	267	268.8	269.2			
111	112.0	112.4	270	271.8	272.2			
114	115.0	115.4	273	274.8	275.2			
117	118.0	118.4	276	277.8	278.2			
120	121.0	121.4	279	280.8	281.2			
123	124.4	124.4	282	283.8	284.2			
126	127.4	127.4	285	286.8	287.2			
129	130.4	130.4	288	289.8	290.2			
132	133.4	133.4	291	292.8	293.2			
135	136.4	136.4	294	295.8	296.2			
138	139.4	139.4	297	298.8	299.2			
141	142.4	142.4	300	301.8	302.2			
144	145.4	145.4	303	304.8	305.2			
147	148.4	148.4	306	307.8	308.2			
150	151.4	151.4	309	310.8	311.2			
153	154.4	154.4	312	313.8	314.2			
156	157.4	157.4	315	316.8	317.2			
159	160.4	160.4	318	319.8	320.2			
162	163.4	163.4	321	322.8	323.2			
165	166.4	166.4	324	325.8	326.2			
168	169.4	169.4	327	328.8	329.2			

PROJECT		FIXTURE TYPE		DATE	
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CIRRUS SUSPENSION DOWNLIGHT WITH POWER, END FEED

REV 02.23.18

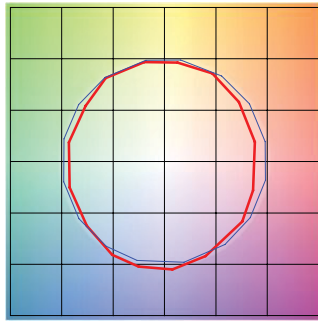
DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

TM 30-15

TM-30-15 DATA: The data below is for SS2C, SS5C, SS7C, and SS10C bare LED Soft Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

2200K | Rf: 83.9 | Rg: 94.9

COLOR VECTOR GRAPHIC

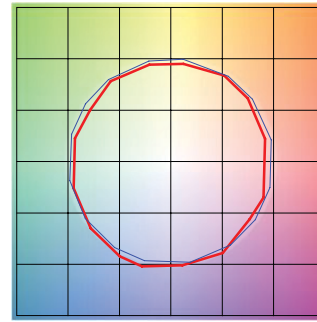


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	77.6	-10.0%	1.8%
2	80.7	-7.5%	7.0%
3	79.5	-2.9%	8.9%
4	90.5	-3.1%	2.4%
5	93.9	-1.3%	1.9%
6	91.9	-0.9%	-0.2%
7	87.6	-6.3%	-2.7%
8	90.5	-5.4%	2.7%
9	83.8	-4.7%	6.5%
10	81.2	-2.5%	10.0%
11	83.3	3.9%	9.4%
12	86.4	5.6%	2.6%
13	86.2	4.5%	-12.4%
14	64.3	-1.0%	-21.9%
15	85.1	-4.4%	-7.5%
16	75.0	-9.9%	-12.0%

2700K | Rf: 87.7 | Rg: 96.1

COLOR VECTOR GRAPHIC

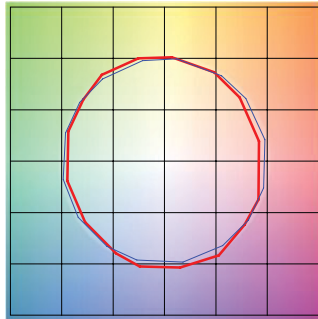


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	86.4	-5.6%	2.3%
2	89.7	-3.3%	3.1%
3	90.5	-1.5%	3.8%
4	90.0	-4.3%	1.1%
5	92.9	-3.7%	0.2%
6	93.5	-2.5%	-0.8%
7	86.3	-7.2%	2.5%
8	90.7	-4.0%	3.2%
9	85.2	-2.4%	8.1%
10	81.7	0.9%	10.8%
11	85.4	4.5%	8.9%
12	88.7	5.7%	-1.4%
13	88.3	1.3%	-7.9%
14	85.1	2.4%	-10.4%
15	88.1	-4.8%	-2.7%
16	81.7	-4.3%	-10.9%

3000K | Rf: 88.1 | Rg: 99.7

COLOR VECTOR GRAPHIC

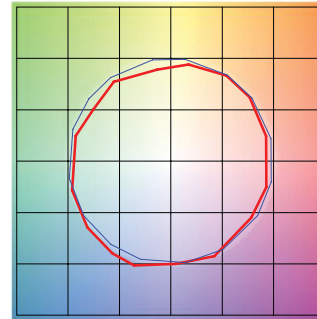


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	87.7	-5.9%	-0.3%
2	87.9	-4.4%	4.3%
3	82.9	-1.2%	7.9%
4	89.9	0.6%	4.7%
5	92.7	3.0%	3.5%
6	92.7	3.6%	-1.7%
7	90.8	-1.3%	-4.4%
8	93.7	-2.5%	-2.2%
9	91.7	-3.7%	2.3%
10	85.5	-2.8%	7.8%
11	83.3	0.7%	11.0%
12	86.4	5.5%	3.8%
13	90.6	4.6%	-3.6%
14	85.6	5.9%	-8.4%
15	89.5	-0.6%	-5.7%
16	82.6	-2.7%	-12.0%

3500K | Rf: 86.1 | Rg: 95.5

COLOR VECTOR GRAPHIC

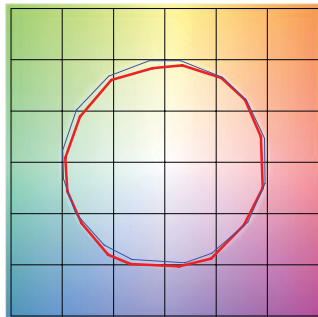


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	86.6	-4.2%	3.4%
2	91.7	-1.4%	1.8%
3	94.9	-0.7%	0.4%
4	87.9	-4.5%	-4.1%
5	85.9	-10.3%	-2.7%
6	89.8	-5.2%	-0.4%
7	79.6	-9.5%	6.5%
8	87.6	-4.0%	5.7%
9	81.4	-0.5%	11.8%
10	78.3	3.3%	11.4%
11	85.7	6.3%	6.1%
12	86.3	7.1%	-4.6%
13	86.1	-0.7%	-9.6%
14	85.1	0.8%	-10.4%
15	83.4	-4.1%	-5.3%
16	82.5	-3.6%	-5.7%

4000K | Rf: 87.6 | Rg: 96.8

COLOR VECTOR GRAPHIC

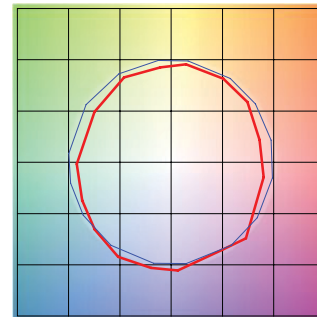


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	89.0	-3.1%	2.1%
2	93.2	-0.9%	1.3%
3	94.3	-1.1%	0.7%
4	89.5	-4.0%	-2.3%
5	87.6	-7.8%	-1.8%
6	92.2	-4.6%	0.1%
7	87.4	-6.6%	3.6%
8	85.7	-3.8%	7.0%
9	81.5	-1.3%	12.4%
10	80.0	0.9%	11.4%
11	83.3	5.9%	8.7%
12	89.7	4.8%	-0.3%
13	88.5	2.4%	-6.3%
14	92.7	4.0%	-3.8%
15	86.1	-1.6%	-4.5%
16	85.0	-1.4%	-5.0%

5700K | Rf: 80.3 | Rg: 91.5

COLOR VECTOR GRAPHIC



■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	73.8	-11.2%	2.6%
2	83.7	-5.5%	5.8%
3	84.2	-4.0%	5.5%
4	85.8	-3.5%	1.3%
5	85.3	-7.1%	0.6%
6	89.2	-5.8%	-2.2%
7	81.5	-10.7%	1.2%
8	75.7	-9.7%	8.5%
9	74.9	-7.8%	18.8%
10	67.8	-1.6%	18.0%
11	76.1	5.5%	12.0%
12	90.8	4.9%	-1.6%
13	83.6	5.0%	-9.5%
14	81.7	-1.2%	-10.0%
15	69.0	2.0%	-22.8%
16	83.2	-8.5%	-1.0%

PROJECT		FIXTURE TYPE		DATE	
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CIRRUS SUSPENSION DOWNLIGHT WITH POWER, END FEED

REV 02.23.18

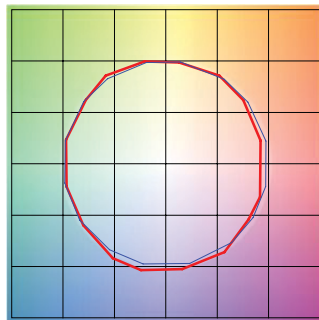
DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

TM 30-15

TM-30-15 DATA: The data below is for SS2C, SS5C, SS7C, and SS10C bare LED Soft Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

2700D | Rf: 89.5 | Rg: 100.8

COLOR VECTOR GRAPHIC

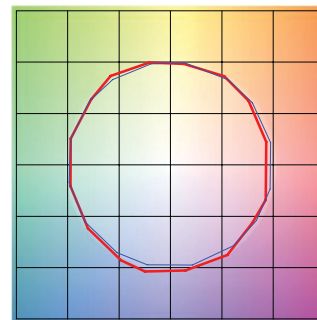


■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	88.8	-5.1%	1.4%
2	89.8	-2.7%	4.1%
3	87.2	0.3%	5.9%
4	92.3	-0.9%	1.0%
5	93.3	1.5%	1.7%
6	92.4	3.6%	-0.2%
7	92.2	-0.9%	-2.4%
8	96.7	-0.4%	-1.1%
9	92.3	-1.2%	3.7%
10	88.9	-0.0%	6.1%
11	86.4	5.1%	7.4%
12	88.2	6.3%	-0.9%
13	87.2	3.8%	-8.1%
14	84.2	3.8%	-11.0%
15	89.8	-2.6%	-4.3%
16	82.7	-3.4%	-11.1%

3000D | Rf: 89.8 | Rg: 101.4

COLOR VECTOR GRAPHIC

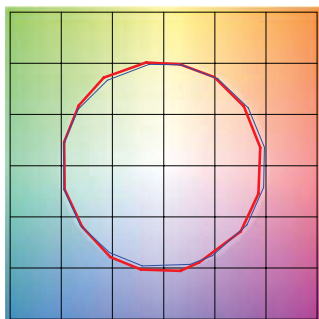


■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	90.2	-4.2%	1.5%
2	90.9	-2.0%	3.7%
3	87.9	0.8%	5.5%
4	92.1	-0.9%	0.6%
5	93.0	1.5%	1.6%
6	92.2	3.9%	-0.2%
7	92.1	-0.3%	-2.0%
8	96.7	0.0%	-1.2%
9	92.5	-0.6%	3.7%
10	88.3	1.1%	7.0%
11	87.2	4.1%	7.4%
12	87.2	6.7%	-1.0%
13	88.2	3.8%	-7.2%
14	85.3	4.3%	-9.9%
15	90.9	-2.2%	-3.6%
16	83.4	-2.2%	-11.2%

2000K only (2K4K) | Rf: 91.6 | Rg: 100.1

COLOR VECTOR GRAPHIC

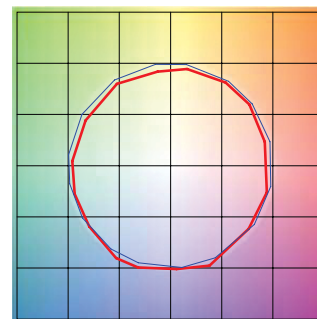


■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	90.2	-4.5%	0.7%
2	90.2	-3.1%	3.8%
3	91.1	-1.0%	4.2%
4	95.0	-0.3%	1.4%
5	95.1	1.5%	2.3%
6	93.5	3.2%	1.5%
7	94.6	0.8%	-3.1%
8	96.5	-0.7%	-0.4%
9	95.9	-1.0%	1.1%
10	93.8	-0.7%	3.1%
11	92.0	3.2%	3.4%
12	91.6	3.9%	-0.4%
13	88.1	4.2%	-11.0%
14	71.4	-1.9%	-14.4%
15	86.4	-2.0%	-8.8%
16	86.2	-4.3%	-7.3%

4000K only (2K4K) | Rf: 87.2 | Rg: 94.9

COLOR VECTOR GRAPHIC

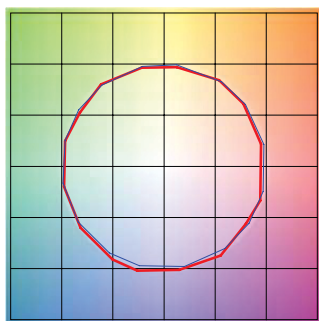


■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	86.6	-5.6%	1.1%
2	91.5	-2.9%	1.5%
3	91.8	-2.8%	1.9%
4	90.1	-4.3%	-1.1%
5	88.6	-7.4%	-0.6%
6	92.2	-4.7%	0.2%
7	88.0	-6.7%	2.9%
8	86.9	-4.9%	5.4%
9	83.3	-3.0%	10.8%
10	80.6	-1.1%	11.0%
11	83.5	4.5%	9.3%
12	89.7	4.4%	0.4%
13	91.0	0.5%	-5.6%
14	85.7	3.1%	-9.4%
15	84.4	-2.4%	-7.1%
16	83.2	-3.1%	-6.8%

2K4K (3000K) | Rf: 91.9 | Rg: 99.6

COLOR VECTOR GRAPHIC



■ Test ■ Reference

		GRAPHIC SHIFTS %	
HUE BIN	Rf	CHROMA	HUE
1	92.1	-3.2%	1.1%
2	94.0	-1.7%	1.8%
3	93.0	-0.3%	2.9%
4	93.4	-2.5%	-0.7%
5	94.8	-1.4%	1.0%
6	96.3	0.6%	0.1%
7	92.3	-3.0%	1.2%
8	97.3	-0.6%	0.9%
9	92.3	-0.6%	4.3%
10	88.9	1.0%	6.5%
11	89.2	3.6%	6.5%
12	89.8	5.2%	-0.8%
13	90.9	2.1%	-5.9%
14	88.3	3.3%	-7.8%
15	92.0	-2.4%	-2.0%
16	86.1	-1.4%	-9.5%

PROJECT		FIXTURE TYPE		DATE	
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Littlite®

Gooseneck Task Lamps & Accessories

P-LED Series

Product details

Red/White LED Array Circuit Board
12-Volt Operation
Threaded End

Wattage: 1.5 Watts
Draw @ 12V: 150mA
Light Output @ 12": 398 Lux/36.98 fc
Color Temperature: 4000K
CRI: 85 Ra
Average Life @ 12V: 60,000 Hours

Models

- 6P-LED – 6" Gooseneck
- 12P-LED – 12" Gooseneck
- 18P-LED – 18" Gooseneck



Recommended Accessories and Parts

- MP – Mounting Plate

Littlite®
Gooseneck Task Lamps & Accessories

SS3 SOFT STRIP 2.5W 24VDC HIGH OUTPUT, ECONOMY GRADE (80+CRI)

REV.02.03.17



SS3-24V-_-WW

Maximum Length Before Refeeding: 40 Ft*

LENGTH IN FEET	TOTAL WATTAGE	LENGTH IN FEET	TOTAL WATTAGE
1	3	21	51
2	5	22	53
3	8	23	56
4	10	24	58
5	12	25	60
6	15	26	63
7	17	27	65
8	20	28	68
9	22	29	70
10	24	30	72
11	27	31	75
12	29	32	77
13	32	33	80
14	34	34	82
15	36	35	84
16	39	36	87
17	41	37	89
18	44	38	92
19	46	39	94
20	48	40	96

*25 Ft maximum when used with
PSB-60W-ELV-24VDC

Description:

Soft Strip (SS3) provides high levels of light with warm white or very warm white LEDs. The 1/2" wide flexible copper strip, with optically clear protective coating is sold in 1 ft increments up to 40 feet with cutting increments every 4 inches. Snap & Light Power Connector is required and is sold separately (pages 4-5). Additional Snap & Light Connectors (pages 4-5) are also available for making custom configurations. At only 2.5 system watts per foot, this economical system uses an electronic low-voltage or 0-10V power supply (sold separately). Self-adhering SS3 mounts to most smooth finished surfaces with industrial strength 3M tape (provided on back of strip); some unfinished surfaces may require screw-in mounting clips (sold separately). Designed for indoor/damp locations. Soft Strip is compatible with solderless Snap & Light Connectors. Fixtures include a 5 year warranty.

Applications:

Indoor/Damp Location - Task lighting, inside/under/above cabinet, office work stations, wine racks, shelves, accent and toe kicks. ETL listed to conform to UL 2108 for closet and under-cabinet applications.

Lamp:

Watts per Foot	Color Temp.	CRI	Lumens per Watt per Foot	50,000 Hour Lamp Life
2.5	2700K	80+	84 210	●
2.5	3000K	80+	93 233	●

24VDC Power Supply (sold separately):

PSB-96W-010-24VDC 120-277VAC input, 96 watt output
PSB-2X96W-010-24VDC 120-277VAC input, 2x96 watt output
PSB-3X96W-010-24VDC 120-277VAC input, 3x96 watt output
PSB-4X96W-010-24VDC 120-277VAC input, 4x96 watt output
PSB-60W-ELV-24VDC 120VAC input, 60 watt output
PSB-100W-ELV-24VDC 120VAC input, 96 watt output
PSB-2X100W-ELV-24VDC 120VAC input, 2x96 watt output
PSB-3X100W-ELV-24VDC 120VAC input, 3x96 watt output
PSB-4x100W-ELV-24VDC 120VAC input, 4x96 watt output

Dimming:

0-10 power supplies use 0-10V dimmer: Philips Sunrise SR1200ZTUNV.
 ELV power supplies use ELV dimmer: Legrand, Adorne ADTP703TU;
 Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and
 Radio Ra 2

Mounting Straps & Clips: (see page 6)

SS-SU

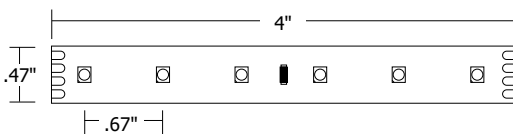
Use U-Strap every 6 to 12 inches for extra support (30 per package).

SS-ST

Use Tie Strap every 6 to 12 inches for extra support (30 per package).

SS-MCL

Mounts beneath strip, snapping strip in place for additional support (10 per package).



System	Voltage	Length in Feet	Color Temperature
SS3	24V	40	27K
SS3 Soft Strip 2.5W per Ft	24V 24 Volt	Sold in 1 ft increments up to 40ft (Example 40=40')	27K 2700K Very Warm White 30K 3000K Warm White

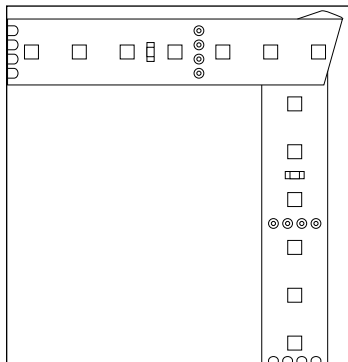
PROJECT:

FIXTURE
TYPE:

DATE:

EDGE
LIGHTING

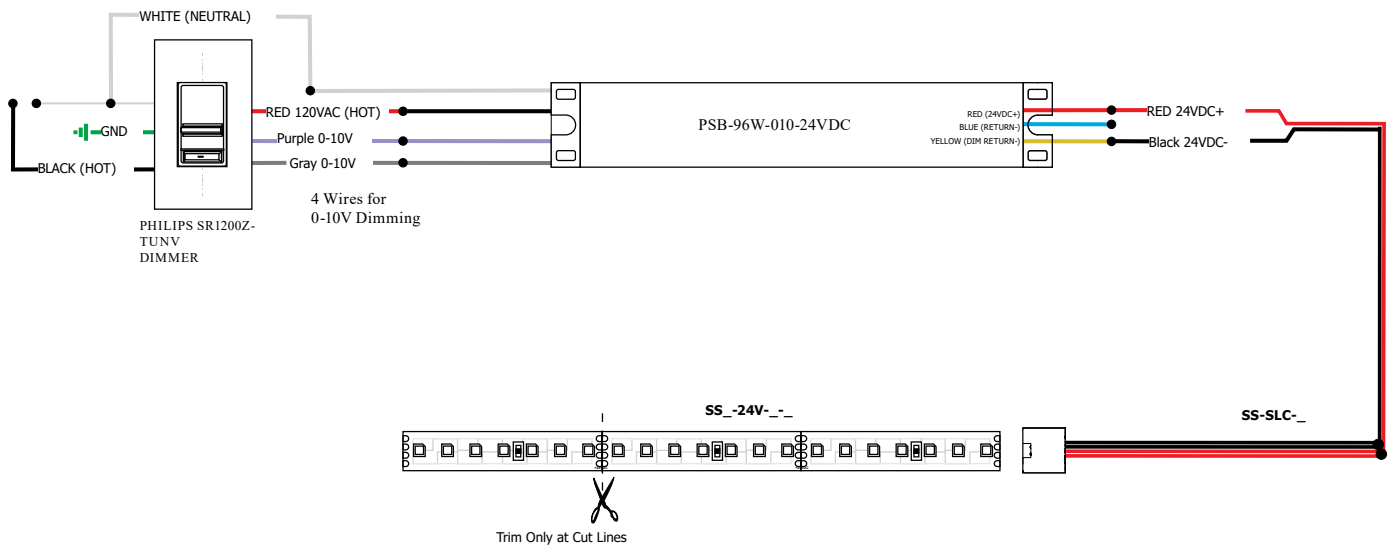
Dimming: Dimmable with low voltage electronic dimmer using power supply above. See power supply spec sheet for additional details. Lutron: Diva DVELV-300P; Skylark SELV-300P; Maestro MAELV-600 dimmers are recommended.



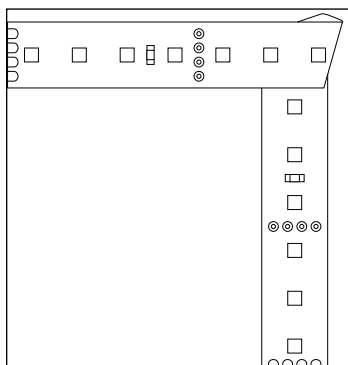
Application: 0-10V dimming for SS3 Soft Strip

Power Supply: Class 2, 24VDC output: 120-277VAC input, 96 watt output PSB-96W-010-24VDC

Dimming: Dimmable with 0-10V dimmer using power supply above. See power supply spec sheet for additional details. Philips Sunrise SR1200ZTUNV, 0-10V dimmer recommended.



STRIP **DOES NOT** BEND 90°



PROJECT:

FIXTURE
TYPE:

DATE:

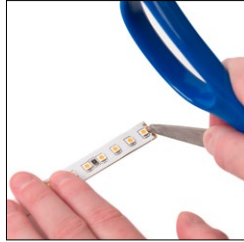
EDGE
LIGHTING

SNAP & LIGHT ACCESSORIES

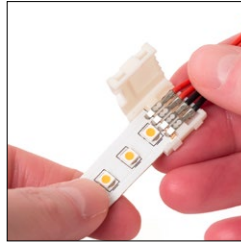
REV.02.03.17



Cut in middle of joining contacts



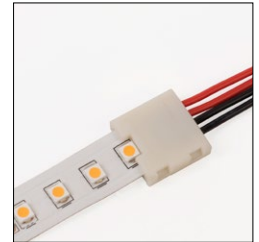
Scrape protective coating from contacts



Place the Strip end under the plastic guide and push under the snap contacts.



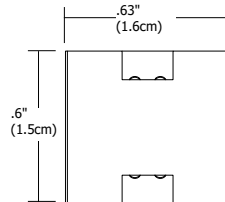
Close the cover



Snap the cover to secure in place

Snap & Light Accessories

Snap & Light Accessories provide easy connection of white or RGB Soft Strip sections. The do-it-yourself accessories — without limitations— allow cutting and rejoining of Soft Strip at any point. The accessories attach to the end of Soft Strip, secure the Strip and snap shut to lock it into place. Snap & Light Accessories ensure a tightly sealed connection, while the gold plated pins provide better connectivity without oxidation.



Snap & Light Straight Joiner Connectors

Snap & Light Straight Joiner Connectors join two cut sections of white or RGB Soft Strip end to end.

Product

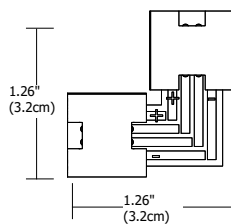
Type

SS

SLC

SS Soft Strip

SLC Snap & Light Straight Connector



Snap & Light L-Connectors

Snap & Light L-Connectors join and conduct power to two sections of white or RGB Soft Strip in an L-shape.

Product

Type

SS

SLL

SS Soft Strip

SLL Snap & Light L-Connector

PROJECT:

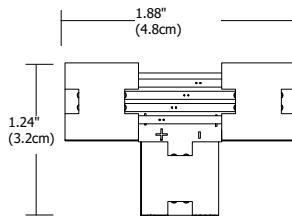
FIXTURE
TYPE:

DATE:

EDGE
LIGHTING

SNAP & LIGHT ACCESSORIES

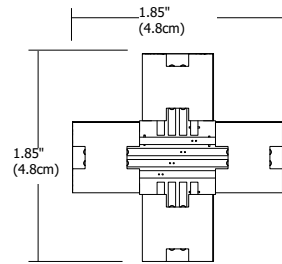
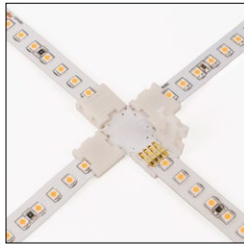
REV.02.03.17



Snap & Light T-Connectors

Snap & Light T-Connectors join and conduct power to three sections of white or RGB Soft Strip in a T-shape.

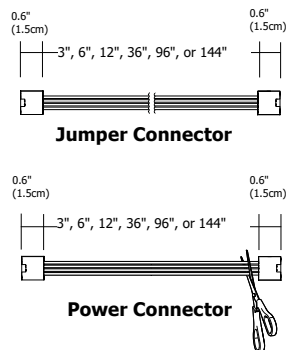
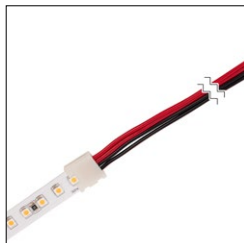
Product	Type
SS	SLT
SS Soft Strip	SLT Snap & Light T-Connector



Snap & Light X-Connectors

Snap & Light X-Connectors join and conduct power to four sections of white or RGB Soft Strip in an X-shape.

Product	Type
SS	SLX
SS Soft Strip	SLX Snap & Light X-Connector



Snap & Light Jumper or Power Connectors

Snap & Light Jumper or Power Connectors join two cut sections of white or RGB Soft Strip end-to-end. Cut and strip the connector wires to use as a Power Connector.

Product	Type	Size
SS	SLC	12IN
SS Soft Strip	SLC Snap & Light Jumper or Power Connectors	
		3IN 3 Inches 6IN 6 Inches 12IN 12 Inches 36IN 36 Inches 96IN 96 Inches 144IN 144 Inches

PROJECT:

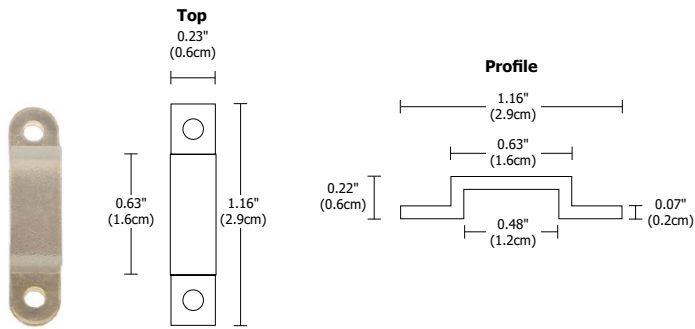
FIXTURE
TYPE:

DATE:



MOUNTING STRAPS

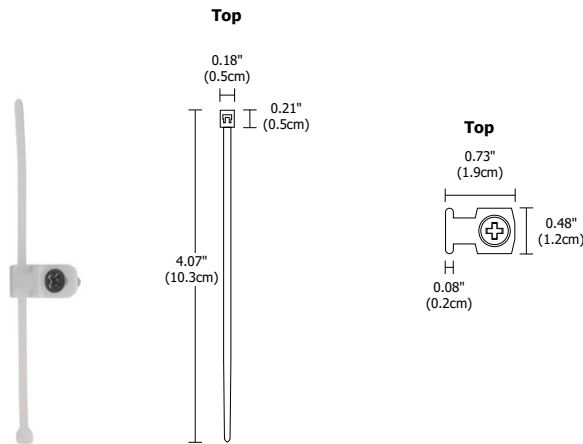
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Soft Strip U Strap

Use U-Strap every 6 to 12 inches for extra support (30 per package).

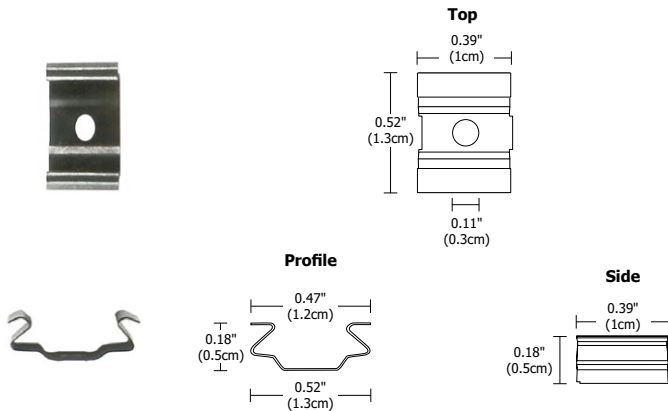
System	Product
SS	SU
SS Soft Strip	SU U-Strap



Soft Strip Tie Strap

Use Tie Strap every 6 to 12 inches for extra support (30 per package).

System	Product
SS	ST
SS Soft Strip	ST Tie Strap



Soft Strip Mounting Clip

Screw In Mounting Clip mounts beneath strip, snapping the Strip into place for additional support (10 per package).

System	Product
SS	MCL
SS Soft Strip	MCL Mounting Clip

PROJECT:

FIXTURE
TYPE:

DATE:

EDGE
LIGHTING

PHX 150W LED ZOOM SPOT

150 Watt LED

The 15°-35° and 30°-55° PHX LED Zoom ellipsoids are state of the art luminaires in function, style, and efficiency. These ellipsoids have been designed and engineered with a number of innovative details and features enhancing versatility and efficiency without sacrificing performance.

A diverse line of LED choices are available including RGBA, RGBW, 3000K, 5600K, and tunable white 3000K/5600K versions. A 360° rotating barrel help you keep the artistic part of your fixtures' focus intact with virtually no light leak.

These new and innovative options are what makes the PHX LED ellipsoids ideal for theatres, special events, television studios, or any location where superior, energy efficient lighting performance is required.



PHX 150W LED Zoom Spot

Product Features:

- 360-degree rotating barrel
- Heat resistant Plano-Convex lensing
- Die-cast aluminum and sheet metal fabrication
- Color frame, C-Clamp, soft focus pattern holder, safety cable and 5 foot PowerCON included
- PowerCON in and out for daisy-chaining units - Up to 8 fixtures (20A Max) may be linked
- Available standard in Black or White
- Positive locking double-clutch fixture body
- Wide accessory slot with sliding cover for motorized pattern devices or optional iris
- Yoke made from rigid flat steel with dual locking handles, two mounting positions and indexed tilt angle markings
- DMX512 in/thru via 5-pin XLR connector
- Multiple on-board control options: RGB(A/W)color fades and strobes
- Console free Master/Slave mode
- 8-bit or 16-bit virtual dimming engine provides smooth, high quality fades and minimizes color shift during dimming
- User friendly control interface
- Carries standard three year Altman Warranty
- 27.15 lbs. (12.34 kg.)
- cETLus listed and CE marked (IP20 Rated for indoor use)
- Assembled in the USA

Photometric Performance - PHX 150W RGBA with 15-35 Degree Zoom Lens

Narrow

		Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
		Beam Size Diameter	2' - 9" 0.85m	3' - 11" 1.19m	5' 1.54m	6' - 2" 1.89m	7' - 4" 2.24m	8' - 6" 2.58m	9' - 7" 2.93m	10' - 9" 3.28m	11' - 11" 3.63m	13' 3.97m
Full on RGBA	Illuminance = fc (Illuminance = lux)	454.52 (4892.45)	202.01 (2174.42)	113.63 (1223.11)	72.72 (782.79)	50.50 (543.60)	37.10 (399.38)	28.41 (305.77)	22.45 (241.60)	18.18 (195.69)	15.03 (161.73)	
Red	Illuminance = fc (Illuminance = lux)	112.90 (1215.27)	50.18 (540.12)	28.23 (303.81)	18.06 (194.44)	12.54 (135.03)	9.22 (99.20)	7.06 (75.95)	5.58 (60.01)	4.52 (48.61)	3.73 (40.17)	
Green	Illuminance = fc (Illuminance = lux)	242.07 (2605.63)	107.59 (1158.06)	60.52 (651.40)	38.73 (416.90)	26.90 (289.51)	19.76 (212.70)	15.13 (162.85)	11.95 (128.67)	9.68 (104.22)	8.00 (86.13)	
Blue	Illuminance = fc (Illuminance = lux)	55.88 (601.45)	24.83 (267.31)	13.97 (150.36)	8.94 (96.23)	6.21 (66.82)	4.56 (49.09)	3.49 (37.59)	2.76 (29.70)	2.24 (24.05)	1.85 (19.88)	
Amber	Illuminance = fc (Illuminance = lux)	73.30 (789.02)	32.58 (350.67)	18.33 (197.25)	11.73 (126.24)	8.14 (87.66)	5.98 (64.41)	4.58 (49.31)	3.62 (38.96)	2.93 (31.56)	2.42 (26.08)	

Medium

		Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
		Beam Size Diameter	4' - 3" 1.30m	6' - 2" 1.88m	8' - 1" 2.46m	9' - 11" 3.03m	11' - 10" 3.61m	13' - 9" 4.18m	15' - 7" 4.76m	17' - 6" 5.34m	19' - 5" 5.91m	21' - 3" 6.49m
Full on RGBA	Illuminance = fc (Illuminance = lux)	230.90 (2485.43)	102.62 (1104.63)	57.73 (621.35)	36.94 (397.66)	25.66 (276.15)	18.85 (202.89)	14.43 (155.33)	11.40 (122.73)	9.24 (99.41)	7.63 (82.16)	
Red	Illuminance = fc (Illuminance = lux)	58.08 (625.12)	25.81 (277.83)	14.52 (156.28)	9.29 (100.01)	6.45 (69.45)	4.74 (51.03)	3.63 (39.07)	2.87 (30.87)	2.32 (25.00)	1.92 (20.66)	
Green	Illuminance = fc (Illuminance = lux)	120.33 (1295.24)	53.48 (575.66)	30.08 (323.81)	19.25 (207.23)	13.37 (143.91)	9.82 (105.73)	7.52 (80.95)	5.94 (63.96)	4.81 (51.80)	3.98 (42.81)	
Blue	Illuminance = fc (Illuminance = lux)	26.98 (290.41)	11.99 (129.07)	6.75 (72.60)	4.32 (46.46)	3.00 (32.26)	2.20 (23.70)	1.69 (18.15)	1.33 (14.34)	1.08 (11.61)	0.89 (9.60)	
Amber	Illuminance = fc (Illuminance = lux)	37.97 (408.72)	16.88 (181.65)	9.49 (102.18)	6.08 (65.39)	4.22 (45.41)	3.10 (33.36)	2.37 (25.54)	1.88 (20.18)	1.52 (16.34)	1.26 (13.51)	

Wide

		Throw Distance (d)	10' 3.048m	15' 4.572m	20' 6.096m	25' 7.62m	30' 9.144m	35' 10.668m	40' 12.192m	45' 13.716m	50' 15.24m	55' 16.764m
		Beam Size Diameter	5' - 10" 1.79m	8' - 6" 2.60m	11' - 3" 3.42m	13' - 11" 4.24m	16' - 7" 5.05m	19' - 3" 5.87m	21' - 11" 6.69m	24' - 7" 7.50m	27' - 3" 8.32m	29' - 11" 9.14m
Full on RGBA	Illuminance = fc (Illuminance = lux)	109.49 (1178.57)	48.66 (523.80)	27.37 (294.64)	17.52 (188.57)	12.17 (130.95)	8.94 (96.20)	6.84 (73.66)	5.41 (58.20)	4.38 (47.14)	3.62 (38.96)	
Red	Illuminance = fc (Illuminance = lux)	27.56 (296.60)	12.25 (131.82)	6.89 (74.15)	4.41 (47.45)	3.06 (32.95)	2.25 (24.21)	1.72 (18.53)	1.36 (14.64)	1.10 (11.86)	0.91 (9.80)	
Green	Illuminance = fc (Illuminance = lux)	56.26 (605.57)	25.00 (269.14)	14.07 (151.39)	9.00 (96.89)	6.25 (67.28)	4.59 (49.43)	3.52 (37.84)	2.78 (29.90)	2.25 (24.22)	1.86 (20.01)	
Blue	Illuminance = fc (Illuminance = lux)	12.25 (131.82)	5.44 (58.58)	3.06 (32.95)	1.96 (21.09)	1.36 (14.64)	1.00 (10.76)	0.77 (8.23)	0.60 (6.50)	0.49 (5.27)	0.40 (4.35)	
Amber	Illuminance = fc (Illuminance = lux)	18.70 (201.28)	8.31 (89.46)	4.68 (50.32)	2.99 (32.20)	2.08 (22.36)	1.53 (16.43)	1.17 (12.58)	0.92 (9.94)	0.75 (8.05)	0.62 (6.65)	

Photometric Performance - PHX 150W RGBA with 30-55 Degree Zoom Lens

Narrow

		Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
		Beam Size Diameter	5' - 6" 1.69m	8' 2.45m	10' - 7" 3.22m	13' - 1" 3.98m	15' - 7" 4.75m	18' - 1" 5.52m	20' - 7" 6.28m	23' - 2" 7.05m	25' - 8" 7.82m	28' - 2" 8.58m
Full on RGBA	Illuminance = fc (Illuminance = lux)		167.46 (1802.56)	74.43 (801.14)	41.87 (450.64)	26.79 (288.41)	18.61 (200.28)	13.67 (147.14)	10.47 (112.66)	8.27 (89.01)	6.70 (72.10)	5.54 (59.58)
Red	Illuminance = fc (Illuminance = lux)		40.47 (435.64)	17.99 (193.61)	10.12 (108.91)	6.48 (69.70)	4.50 (48.40)	3.30 (35.56)	2.53 (27.22)	2.00 (21.51)	1.62 (17.42)	1.34 (14.40)
Green	Illuminance = fc (Illuminance = lux)		88.34 (950.89)	39.26 (422.61)	22.09 (237.72)	14.13 (152.14)	9.82 (105.65)	7.21 (77.62)	5.52 (59.43)	4.36 (46.95)	3.53 (38.03)	2.92 (31.43)
Blue	Illuminance = fc (Illuminance = lux)		20.54 (221.13)	9.13 (98.28)	5.14 (55.28)	3.29 (35.38)	2.28 (24.57)	1.68 (18.05)	1.28 (13.82)	1.01 (10.92)	0.82 (8.84)	0.68 (7.31)
Amber	Illuminance = fc (Illuminance = lux)		26.80 (288.51)	11.91 (128.23)	6.70 (72.12)	4.29 (46.16)	2.98 (32.05)	2.19 (23.55)	1.68 (18.03)	1.32 (14.24)	1.07 (11.54)	0.89 (9.53)

Medium

		Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
		Beam Size Diameter	7' - 1" 2.16m	10' - 5" 3.17m	13' - 8" 4.17m	17' 5.18m	20' - 3" 6.18m	23' - 7" 7.19m	26' - 11" 8.19m	30' - 2" 9.20m	33' - 6" 10.20m	36' - 9" 11.21m
Full on RGBA	Illuminance = fc (Illuminance = lux)		111.36 (1198.70)	49.49 (532.75)	27.84 (299.67)	17.82 (191.79)	12.37 (133.18)	9.09 (97.85)	6.96 (74.91)	5.50 (59.19)	4.45 (47.94)	3.68 (39.62)
Red	Illuminance = fc (Illuminance = lux)		26.91 (289.70)	11.96 (128.75)	6.73 (72.42)	4.31 (46.35)	2.99 (32.18)	2.20 (23.64)	1.68 (18.10)	1.33 (14.30)	1.08 (11.58)	0.89 (9.57)
Green	Illuminance = fc (Illuminance = lux)		58.75 (632.34)	26.11 (281.04)	14.69 (158.08)	9.40 (101.17)	6.53 (70.26)	4.80 (51.61)	3.67 (39.52)	2.90 (31.22)	2.35 (25.29)	1.94 (20.90)
Blue	Illuminance = fc (Illuminance = lux)		13.66 (147.05)	6.07 (65.35)	3.42 (36.76)	2.19 (23.76)	1.52 (16.33)	1.12 (12.00)	0.85 (9.19)	0.67 (7.26)	0.55 (5.88)	0.45 (4.86)
Amber	Illuminance = fc (Illuminance = lux)		17.82 (191.86)	7.92 (85.27)	4.46 (47.96)	2.85 (30.69)	1.98 (21.31)	1.46 (15.66)	1.11 (11.99)	0.88 (9.47)	0.71 (7.67)	0.59 (6.34)

Wide

		Throw Distance (d)	10' 3.048m	15' 4.572m	20' 6.096m	25' 7.62m	30' 9.144m	35' 10.668m	40' 12.192m	45' 13.716m	50' 15.24m	55' 16.764m
		Beam Size Diameter	8' - 10" 2.68m	13' 3.95m	17.1' 5.22m	21' - 3" 6.48m	25' - 5" 7.75m	29' - 7" 9.01m	33' - 9" 10.28m	37' - 10" 11.54m	42' 12.81m	46' - 2" 14.08m
Full on RGBA	Illuminance = fc (Illuminance = lux)		61.62 (663.28)	27.39 (294.79)	15.41 (165.82)	9.86 (106.82)	6.85 (73.69)	5.03 (54.14)	3.85 (41.45)	3.04 (32.75)	2.46 (26.53)	2.04 (21.92)
Red	Illuminance = fc (Illuminance = lux)		15.20 (163.64)	6.76 (72.72)	3.80 (40.91)	2.43 (26.18)	1.69 (18.18)	1.24 (13.35)	0.95 (10.22)	0.75 (8.08)	0.61 (6.54)	0.50 (5.40)
Green	Illuminance = fc (Illuminance = lux)		32.05 (344.97)	14.24 (153.32)	8.01 (86.24)	5.13 (55.19)	3.56 (38.33)	2.62 (28.16)	2.00 (21.56)	1.58 (17.03)	1.28 (13.79)	1.06 (11.40)
Blue	Illuminance = fc (Illuminance = lux)		6.78 (72.97)	3.01 (32.43)	1.69 (18.24)	1.08 (11.67)	0.75 (8.10)	0.55 (5.95)	0.42 (4.56)	0.33 (3.60)	0.27 (2.91)	0.22 (2.41)
Amber	Illuminance = fc (Illuminance = lux)		9.64 (103.73)	4.28 (46.10)	2.41 (25.93)	1.54 (16.59)	1.07 (11.52)	0.79 (8.46)	0.60 (6.48)	0.48 (5.12)	0.39 (4.14)	0.32 (3.42)

Photometric Performance - PHX 150W RGBW with 15-35 Degree Zoom Lens

Narrow

	Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
	Beam Size Diameter	2' - 9" 0.85m	3' - 11" 1.19m	5' 1.54m	6' - 2" 1.89m	7' - 4" 2.24m	8' - 6" 2.58m	9' - 7" 2.93m	10' - 9" 3.28m	11' - 11" 3.63m	13' 3.97m
Full on RGBW	Illuminance = fc (Illuminance = lux)	722.89 (7781.16)	321.29 (3458.29)	180.72 (1223.11)	115.66 (1945.29)	80.32 (864.57)	59.01 (6.35.19)	45.18 (486.32)	35.70 (384.25)	28.92 (311.24)	23.90 (257.22)
Red	Illuminance = fc (Illuminance = lux)	112.90 (1215.27)	50.18 (540.12)	28.23 (303.81)	18.06 (194.44)	12.54 (135.03)	9.22 (99.20)	7.06 (75.95)	5.58 (60.01)	4.52 (48.61)	3.73 (40.17)
Green	Illuminance = fc (Illuminance = lux)	242.07 (2605.63)	107.59 (1158.06)	60.52 (651.40)	38.73 (416.90)	26.90 (289.51)	19.76 (212.70)	15.13 (162.85)	11.95 (128.67)	9.68 (104.22)	8.00 (86.13)
Blue	Illuminance = fc (Illuminance = lux)	55.88 (601.45)	24.83 (267.31)	13.97 (150.36)	8.94 (96.23)	6.21 (66.82)	4.56 (49.09)	3.49 (37.59)	2.76 (29.70)	2.24 (24.05)	1.85 (19.88)
White	Illuminance = fc (Illuminance = lux)	351.15 (3779.71)	156.07 (1679.87)	87.79 (944.92)	56.18 (604.75)	39.02 (419.96)	28.67 (308.54)	21.95 (236.23)	17.34 (186.65)	14.05 (151.18)	11.61 (124.94)

Medium

	Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
	Beam Size Diameter	4' - 3" 1.30m	6' - 2" 1.88m	8' 2.46m	9' - 11" 3.03m	11' - 10" 3.61m	13' - 9" 4.18m	15' - 7" 4.76m	17' - 6" 5.34m	19' - 5" 5.91m	21' - 3" 6.49m
Full on RGBW	Illuminance = fc (Illuminance = lux)	367.24 (3952.93)	163.22 (1756.85)	91.81 (988.23)	58.76 (632.46)	40.80 (439.21)	29.98 (322.68)	22.95 (247.05)	18.14 (195.20)	14.69 (158.11)	12.14 (130.67)
Red	Illuminance = fc (Illuminance = lux)	58.08 (625.12)	25.81 (277.83)	14.52 (156.28)	9.29 (100.01)	6.45 (69.45)	4.74 (51.03)	3.63 (39.07)	2.87 (30.87)	2.32 (25.00)	1.92 (20.66)
Green	Illuminance = fc (Illuminance = lux)	120.33 (1295.24)	53.48 (575.66)	30.08 (323.81)	19.25 (207.23)	13.37 (143.91)	9.82 (105.73)	7.52 (80.95)	5.94 (63.96)	4.81 (51.80)	3.98 (42.81)
Blue	Illuminance = fc (Illuminance = lux)	26.98 (290.41)	11.99 (129.07)	6.75 (72.60)	4.32 (46.46)	3.00 (32.26)	2.20 (23.70)	1.69 (18.15)	1.33 (14.34)	1.08 (11.61)	0.89 (9.60)
White	Illuminance = fc (Illuminance = lux)	181.90 (1957.91)	80.84 (870.18)	45.47 (489.47)	29.10 (313.26)	20.21 (217.54)	14.85 (159.82)	11.37 (122.36)	8.98 (96.68)	7.28 (78.31)	6.01 (64.72)

Wide

	Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
	Beam Size Diameter	5' - 10" 1.79m	8' - 6" 2.60m	11' - 2" 3.42m	13' - 11" 4.24m	16' - 7" 5.05m	19' - 3" 5.87m	21' - 11" 6.69m	24' - 7" 7.50m	27' - 3" 8.32m	29' - 11" 9.14m
Full on RGBW	Illuminance = fc (Illuminance = lux)	182.66 (1966.14)	81.18 (873.84)	45.67 (491.53)	29.23 (314.58)	20.30 (218.46)	14.91 (160.50)	11.42 (122.88)	9.02 (97.09)	7.31 (78.64)	6.04 (64.99)
Red	Illuminance = fc (Illuminance = lux)	27.56 (296.60)	12.25 (131.82)	6.89 (74.15)	4.41 (47.45)	3.06 (32.95)	2.25 (24.21)	1.72 (18.53)	1.36 (14.64)	1.10 (11.86)	0.91 (9.80)
Green	Illuminance = fc (Illuminance = lux)	56.26 (605.57)	25.00 (269.14)	14.07 (151.39)	9.00 (96.89)	6.25 (67.28)	4.59 (49.43)	3.52 (37.84)	2.78 (29.90)	2.25 (24.22)	1.86 (20.01)
Blue	Illuminance = fc (Illuminance = lux)	12.25 (131.82)	5.44 (58.58)	3.06 (32.95)	1.96 (21.09)	1.36 (14.64)	1.00 (10.76)	0.77 (8.23)	0.60 (6.50)	0.49 (5.27)	0.40 (4.35)
White	Illuminance = fc (Illuminance = lux)	87.07 (937.20)	38.70 (416.53)	21.77 (234.30)	13.93 (149.95)	9.67 (104.13)	7.11 (76.50)	5.44 (58.57)	4.30 (46.28)	3.48 (37.48)	2.88 (30.98)

Photometric Performance - PHX 150W RGBW with 30-55 Degree Zoom Lens

Narrow

	Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
	Beam Size Diameter	5' - 6" 1.69m	8' 2.45m	10' - 7" 3.22m	13' - 1" 3.98m	15' - 7" 4.75m	18' - 1" 5.52m	20' - 7" 6.28m	23' - 2" 7.05m	25' - 8" 7.82m	28' - 2" 8.58m
Full on RGBW	Illuminance = fc (Illuminance = lux)	269.92 (2905.43)	119.97 (1291.30)	67.48 (726.35)	43.19 (464.86)	29.99 (322.82)	22.03 (237.17)	16.87 (181.58)	13.33 (143.47)	10.80 (116.21)	8.92 (96.04)
Red	Illuminance = fc (Illuminance = lux)	40.47 (435.64)	17.99 (193.61)	10.12 (108.91)	6.48 (69.70)	4.50 (48.40)	3.30 (35.56)	2.53 (27.22)	2.00 (21.51)	1.62 (17.42)	1.34 (14.40)
Green	Illuminance = fc (Illuminance = lux)	88.34 (950.89)	39.26 (422.61)	22.09 (237.72)	14.13 (152.14)	9.82 (105.65)	7.21 (77.62)	5.52 (59.43)	4.36 (46.95)	3.53 (38.03)	2.92 (31.43)
Blue	Illuminance = fc (Illuminance = lux)	20.54 (221.13)	9.13 (98.28)	5.14 (55.28)	3.29 (35.38)	2.28 (24.57)	1.68 (18.05)	1.28 (13.82)	1.01 (10.92)	0.82 (8.84)	0.68 (7.31)
White	Illuminance = fc (Illuminance = lux)	127.99 (1377.68)	56.89 (612.30)	32.00 (344.42)	20.48 (220.42)	14.22 (153.07)	10.45 (112.46)	8.00 (86.10)	6.32 (68.03)	5.12 (55.10)	4.23 (45.54)

Medium

	Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
	Beam Size Diameter	7' - 1" 2.16m	10' - 5" 3.17m	13' - 8" 4.17m	17' 5.18m	20' - 3" 6.18m	23' - 7" 7.19m	26' - 11" 8.19m	30' - 2" 9.20m	33' - 6" 10.20m	36' - 9" 11.21m
Full on RGBW	Illuminance = fc (Illuminance = lux)	179.50 (1932.11)	79.78 (8558.71)	44.87 (483.02)	28.72 (309.13)	19.94 (214.67)	14.65 (157.72)	11.22 (120.75)	8.86 (95.41)	7.18 (77.28)	5.93 (63.87)
Red	Illuminance = fc (Illuminance = lux)	26.91 (289.70)	11.96 (128.75)	6.73 (72.42)	4.31 (46.35)	2.99 (32.18)	2.20 (23.64)	1.68 (18.10)	1.33 (14.30)	1.08 (11.58)	0.89 (9.57)
Green	Illuminance = fc (Illuminance = lux)	58.75 (632.34)	26.11 (281.04)	14.69 (158.08)	9.40 (101.17)	6.53 (70.26)	4.80 (51.61)	3.67 (39.52)	2.90 (31.22)	2.35 (25.29)	1.94 (20.90)
Blue	Illuminance = fc (Illuminance = lux)	13.66 (147.05)	6.07 (65.35)	3.42 (36.76)	2.19 (23.76)	1.52 (16.33)	1.12 (12.00)	0.85 (9.19)	0.67 (7.26)	0.55 (5.88)	0.45 (4.86)
White	Illuminance = fc (Illuminance = lux)	85.11 (916.16)	37.83 (407.18)	21.28 (229.04)	13.62 (146.58)	9.46 (101.79)	6.95 (74.78)	5.32 (57.26)	4.20 (45.24)	3.40 (36.24)	2.81 (30.28)

Wide

	Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
	Beam Size Diameter	8' - 10" 2.68m	13' 3.95m	17.1' 5.22m	21' - 3" 6.48m	25' - 5" 7.75m	29' - 7" 9.01m	33' - 9" 10.28m	37' - 10" 11.54m	42' 12.81m	46' - 2" 14.08m
Full on RGBW	Illuminance = fc (Illuminance = lux)	95.04 (1022.95)	42.24 (454.64)	23.76 (255.73)	15.21 (163.67)	10.56 (113.66)	7.76 (83.50)	5.94 (63.93)	4.69 (50.51)	3.80 (40.91)	3.14 (33.81)
Red	Illuminance = fc (Illuminance = lux)	15.20 (163.64)	6.76 (72.72)	3.80 (40.91)	2.43 (26.18)	1.69 (18.18)	1.24 (13.35)	0.95 (10.22)	0.75 (8.08)	0.61 (6.54)	0.50 (5.40)
Green	Illuminance = fc (Illuminance = lux)	32.05 (344.97)	14.24 (153.32)	8.01 (86.24)	5.13 (55.19)	3.56 (38.33)	2.62 (28.16)	2.00 (21.56)	1.58 (17.03)	1.28 (13.79)	1.06 (11.40)
Blue	Illuminance = fc (Illuminance = lux)	6.78 (72.97)	3.01 (32.43)	1.69 (18.24)	1.08 (11.67)	0.75 (8.10)	0.55 (5.95)	0.42 (4.56)	0.33 (3.60)	0.27 (2.91)	0.22 (2.41)
White	Illuminance = fc (Illuminance = lux)	48.28 (519.67)	21.46 (230.96)	12.07 (129.91)	7.72 (83.14)	5.36 (57.74)	3.94 (42.42)	3.02 (32.47)	2.38 (25.66)	1.93 (20.78)	1.60 (17.17)

Photometric Performance - PHX 150W 3000K with 15-35 Degree Zoom Lens

Narrow

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	2' - 9" 0.85m	3' - 11" 1.19m	5' 1.54m	6' - 2" 1.89m	7' - 4" 2.24m	8' - 6" 2.58m	9' - 7" 2.93m	10' - 9" 3.28m	11' - 11" 3.63m	13' 3.97m
Illuminance = fc (Illuminance = lux)	1156.38 (12447.12)	513.94 (5532.05)	289.09 (3111.77)	185.02 (1991.53)	128.49 (1383.01)	94.40 (1016.09)	72.27 (777.94)	57.10 (614.67)	46.26 (497.88)	38.23 (411.47)

Medium

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	4' - 3" 1.30m	6' - 2" 1.88m	8' - 1" 2.46m	9' - 11" 3.03m	11' - 10" 3.61m	13' - 9" 4.18m	15' - 7" 4.76m	17' - 6" 5.34m	19' - 5" 5.91m	21' - 3" 6.49m
Illuminance = fc (Illuminance = lux)	587.45 (6323.29)	261.09 (2810.35)	146.86 (1580.82)	93.99 (1011.72)	65.27 (702.58)	47.96 (516.18)	36.72 (395.20)	29.01 (312.26)	23.50 (252.93)	19.42 (209.03)

Wide

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	5' - 10" 1.79m	8' - 6" 2.60m	11' - 2" 3.42m	13' - 11" 4.24m	16' - 7" 5.05m	19' - 3" 5.87m	21' - 11" 6.69m	24' - 7" 7.50m	27' - 3" 8.32m	29' - 11" 9.14m
Illuminance = fc (Illuminance = lux)	278.57 (2998.45)	123.81 (1332.64)	69.64 (749.61)	44.57 (479.75)	30.95 (333.16)	22.74 (244.77)	17.41 (187.40)	13.76 (148.07)	11.14 (119.93)	9.21 (99.12)

Photometric Performance - PHX 150W 3000K with 30-55 Degree Zoom Lens

Narrow

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	5' - 6" 1.69m	8' 2.45m	10' - 7" 3.22m	13' - 1" 3.98m	15' - 7" 4.75m	18' - 1" 5.52m	20' - 7" 6.28m	23' - 2" 7.05m	25' - 8" 7.82m	28' - 2" 8.58m
Illuminance = fc (Illuminance = lux)	426.05 (4585.98)	189.36 (2038.21)	106.51 (1146.49)	68.17 (733.75)	47.34 (509.55)	34.78 (374.36)	26.63 (286.62)	21.04 (226.62)	17.04 (183.43)	14.08 (151.60)

Medium

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	7' - 1" 2.16m	10' - 5" 3.17m	13' - 8" 4.17m	17' 5.18m	20' - 3" 6.18m	23' - 7" 7.19m	26' - 11" 8.19m	30' - 2" 9.20m	33' - 6" 10.20m	36' - 9" 11.21m
Illuminance = fc (Illuminance = lux)	283.32 (3049.68)	125.92 (1355.41)	70.83 (762.42)	45.33 (487.94)	31.48 (338.85)	23.13 (248.95)	17.71 (190.60)	13.99 (150.60)	11.33 (121.98)	9.37 (100.81)

Wide

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.764m
Beam Size Diameter	8' - 10" 2.68m	13' 3.95m	17.1' 5.22m	21' - 3" 6.48m	25' - 5" 7.75m	29' - 7" 9.01m	33' - 9" 10.28m	37' - 10" 11.54m	42' 12.81m	46' - 2" 14.08m
Illuminance = fc (Illuminance = lux)	156.77 (1687.48)	69.68 (749.99)	39.19 (421.87)	25.08 (269.99)	17.42 (187.49)	12.80 (137.75)	9.80 (105.46)	7.74 (83.33)	6.27 (67.49)	5.18 (55.78)

Photometric Performance - PHX 150W 5600K with 15-35 Degree Zoom Lens

Narrow

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	2' - 9" 0.85m	3'-11" 1.19m	5' 1.54m	6'- 2" 1.89m	7'- 4" 2.24m	8'- 6" 2.58m	9' - 7" 2.93m	10' - 9" 3.28m	11'- 11" 3.63m	13' 3.97m
Illuminance = fc (Illuminance = lux)	1333.99 (14358.90)	592.88 (6381.73)	333.50 (3589.72)	213.44 (2297.42)	148.22 (1595.43)	108.90 (1172.15)	83.37 (897.43)	65.88 (709.08)	53.36 (574.35)	44.10 (474.67)

Medium

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	4' - 3" 1.30m	6' - 2" 1.88m	8' - 1" 2.46m	9'- 11" 3.03m	11' - 10" 3.61m	13' - 9" 4.18m	15' - 7" 4.76m	17' - 6" 5.34m	19' - 5" 5.91m	21' - 3" 6.49m
Illuminance = fc (Illuminance = lux)	677.68 (7294.50)	301.19 (3242.00)	169.42 (1823.62)	108.43 (1167.12)	75.30 (810.50)	55.32 (595.47)	42.36 (455.90)	33.47 (360.22)	27.11 (291.78)	22.40 (241.14)

Wide

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	5' - 10" 1.79m	8' - 6" 2.60m	11' - 2" 3.42m	13' - 11" 4.24m	16' - 7" 5.05m	19' - 3" 5.87m	21' - 11" 6.69m	24' - 7" 7.50m	27' - 3" 8.32m	29' - 11" 9.14m
Illuminance = fc (Illuminance = lux)	321.35 (3458.99)	142.82 (1537.33)	80.34 (864.74)	51.42 (553.43)	35.71 (384.33)	26.23 (282.36)	20.08 (216.18)	15.87 (170.81)	12.85 (138.35)	10.62 (114.34)

Photometric Performance - PHX 150W 5600K with 30-55 Degree Zoom Lens

Narrow

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	5' - 6" 1.69m	8' 2.45m	10' - 7" 3.22m	13' - 1" 3.98m	15' - 7" 4.75m	18 - 1" 5.52m	20' - 7" 6.28m	23' - 2" 7.05m	25' - 8" 7.82m	28' - 2" 8.58m
Illuminance = fc (Illuminance = lux)	491.49 (5290.36)	218.44 (2351.27)	122.87 (1322.59)	78.64 (846.45)	54.61 (587.81)	40.12 (431.86)	30.72 (330.64)	24.27 (261.25)	19.66 (211.61)	16.25 (174.88)

Medium

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	7' - 1" 2.16m	10' - 5" 3.17m	13 - 8" 4.17m	17' 5.18m	20' - 3" 6.18m	23' - 7" 7.19m	26 - 11" 8.19m	30' - 2" 9.20m	33' - 6" 10.20m	36' - 9" 11.21m
Illuminance = fc (Illuminance = lux)	326.84 (3518.09)	145.26 (1563.59)	81.71 (879.52)	52.29 (562.89)	36.32 (390.89)	26.68 (287.19)	20.43 (219.88)	16.14 (173.73)	13.07 (140.72)	10.80 (116.30)

Wide

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.764m
Beam Size Diameter	8' - 10" 2.68m	13' 3.95m	17.1' 5.22m	21' - 3" 6.48m	25' - 5" 7.75m	29' - 7" 9.01m	33' - 9" 10.28m	37' - 10" 11.54m	42' 12.81m	46' - 2" 14.08m
Illuminance = fc (Illuminance = lux)	180.85 (1946.67)	80.38 (865.18)	45.21 (486.66)	28.94 (311.46)	20.09 (216.29)	14.76 (158.91)	11.30 (121.66)	8.93 (96.13)	7.23 (77.86)	5.98 (64.35)

Photometric Performance - PHX 150W Tunable White (4200K) with 15-35 Degree Zoom Lens

Narrow (3K & 5.6K Channels at Full, 4200K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	2' - 9" 0.85m	3'-11" 1.19m	5' 1.54m	6'- 2" 1.89m	7'- 4" 2.24m	8'- 6" 2.58m	9'- 7" 2.93m	10'- 9" 3.28m	11'- 11" 3.63m	13' 3.97m
Illuminance = fc (Illuminance = lux)	1236.19 (13306.23)	549.42 (5913.88)	309.05 (3326.55)	197.79 (2128.99)	137.35 (1478.47)	100.91 (1086.22)	77.26 (831.63)	61.05 (657.09)	49.45 (532.24)	40.87 (439.87)

Medium (3K & 5.6K Channels at Full, 4200K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	4' - 3" 1.30m	6' - 2" 1.88m	8' - 1" 2.46m	9'- 11" 3.03m	11' - 10" 3.61m	13' - 9" 4.18m	15' - 7" 4.76m	17' - 6" 5.34m	19' - 5" 5.91m	21' - 3" 6.49m
Illuminance = fc (Illuminance = lux)	628.00 (6759.73)	279.11 (3004.32)	157.00 (1689.93)	100.48 (1081.55)	69.78 (751.08)	51.27 (751.81)	39.25 (422.48)	31.01 (333.81)	25.12 (270.38)	20.76 (223.46)

Wide (3K & 5.6K Channels at Full, 4200K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	5' - 10" 1.79m	8' - 6" 2.60m	11' - 2" 3.42m	13' - 11" 4.24m	16' - 7" 5.05m	19' - 3" 5.87m	21' - 11" 6.69m	24' - 7" 7.50m	27' - 3" 8.32m	29' - 11" 9.14m
Illuminance = fc (Illuminance = lux)	297.79 (3205.41)	132.35 (1424.62)	74.45 (801.35)	47.65 (512.86)	33.09 (356.15)	24.31 (261.66)	18.61 (200.33)	14.71 (158.29)	11.91 (128.21)	9.84 (105.96)

Photometric Performance - PHX 150W Tunable White (3000K) with 15-35 Degree Zoom Lens

Narrow (3K Channel at Full, 3000K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	2' - 9" 0.85m	3'-11" 1.19m	5' 1.54m	6'- 2" 1.89m	7'- 4" 2.24m	8'- 6" 2.58m	9'- 7" 2.93m	10'- 9" 3.28m	11'- 11" 3.63m	13' 3.97m
Illuminance = fc (Illuminance = lux)	523.36 (5633.36)	232.60 (2503.71)	130.84 (1408.34)	83.74 (901.33)	58.15 (625.92)	42.72 (459.86)	32.71 (352.08)	25.84 (278.19)	20.93 (225.33)	17.30 (186.22)

Medium (3K Channel at Full, 3000K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	4' - 3" 1.30m	6' - 2" 1.88m	8' - 1" 2.46m	9'- 11" 3.03m	11' - 10" 3.61m	13' - 9" 4.18m	15' - 7" 4.76m	17' - 6" 5.34m	19' - 5" 5.91m	21' - 3" 6.49m
Illuminance = fc (Illuminance = lux)	265.87 (2861.82)	118.17 (1271.92)	66.47 (715.45)	42.54 (457.89)	29.54 (317.98)	21.70 (233.61)	16.62 (178.86)	13.13 (141.47)	10.63 (114.47)	8.79 (94.60)

Wide (3K Channel at Full, 3000K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	5' - 10" 1.79m	8' - 6" 2.60m	11' - 2" 3.42m	13' - 11" 4.24m	16' - 7" 5.05m	19' - 3" 5.87m	21' - 11" 6.69m	24' - 7" 7.50m	27' - 3" 8.32m	29' - 11" 9.14m
Illuminance = fc (Illuminance = lux)	124.91 (1344.52)	55.52 (597.56)	31.23 (336.13)	19.99 (215.12)	13.88 (149.39)	10.20 (109.75)	7.81 (84.03)	6.17 (66.39)	5.00 (53.78)	4.13 (44.44)

Photometric Performance - PHX 150W Tunable White (5600K) with 15-35 Degree Zoom Lens

Narrow (5.6K Channel at Full, 5600K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	2' - 9" 0.85m	3'-11" 1.19m	5' 1.54m	6'- 2" 1.89m	7'- 4" 2.24m	8'- 6" 2.58m	9'- 7" 2.93m	10' - 9" 3.28m	11'- 11" 3.63m	13' 3.97m
Illuminance = fc (Illuminance = lux)	728.47 (7841.17)	323.76 (3484.96)	182.12 (1960.29)	116.56 (1254.58)	80.94 (871.24)	59.47 (640.09)	45.53 (490.07)	35.97 (387.21)	29.14 (313.64)	24.08 (259.21)

Medium (5.6K Channel at Full, 5600K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	4' - 3" 1.30m	6'- 2" 1.88m	8'- 1" 2.46m	9'- 11" 3.03m	11'- 10" 3.61m	13'- 9" 4.18m	15'- 7" 4.76m	17'- 6" 5.34m	19'- 5" 5.91m	21'- 3" 6.49m
Illuminance = fc (Illuminance = lux)	370.07 (3983.41)	164.48 (1770.40)	92.52 (995.85)	59.21 (637.34)	41.12 (442.60)	30.21 (325.17)	23.13 (248.96)	18.28 (196.71)	14.80 (159.33)	12.23 (131.68)

Wide (5.6K Channel at Full, 5600K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	5' - 10" 1.79m	8'- 6" 2.60m	11'- 2" 3.42m	13'- 11" 4.24m	16'- 7" 5.05m	19'- 3" 5.87m	21'- 11" 6.69m	24'- 7" 7.50m	27'- 3" 8.32m	29'- 11" 9.14m
Illuminance = fc (Illuminance = lux)	178.05 (1916.49)	79.13 (851.77)	44.51 (479.12)	28.49 (306.63)	19.78 (212.94)	14.53 (156.44)	11.13 (119.78)	8.79 (94.64)	7.12 (76.65)	5.89 (63.35)

Photometric Performance - PHX 150W Tunable White (4200K) with 30-55 Degree Zoom Lens

Narrow (3K & 5.6K Channels at Full, 4200K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	5' - 6" 1.69m	8' 2.45m	10' - 7" 3.22m	13'- 1" 3.98m	15'- 7" 4.75m	18 - 1" 5.52m	20'- 7" 6.28m	23'- 2" 7.05m	25'- 8" 7.82m	28'- 2" 8.58m
Illuminance = fc (Illuminance = lux)	455.46 (4902.51)	202.43 (2178.89)	113.86 (1225.62)	72.87 (784.40)	50.61 (544.72)	37.18 (400.20)	28.47 (306.40)	22.49 (242.09)	18.22 (196.10)	15.06 (162.06)

Medium (3K & 5.6K Channels at Full, 4200K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	7' - 1" 2.16m	10'- 5" 3.17m	13 - 8" 4.17m	17' 5.18m	20'- 3" 6.18m	23'- 7" 7.19m	26 - 11" 8.19m	30'- 2" 9.20m	33'- 6" 10.20m	36'- 9" 11.21m
Illuminance = fc (Illuminance = lux)	302.88 (3260.17)	134.61 (1448.96)	75.72 (815.04)	48.46 (521.62)	33.65 (362.24)	24.72 (266.13)	18.93 (203.76)	14.96 (160.99)	12.12 (130.40)	10.01 (107.77)

Wide (3K & 5.6K Channels at Full, 4200K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.764m
Beam Size Diameter	8' - 10" 2.68m	13' 3.95m	17.1' 5.22m	21'- 3" 6.48m	25'- 5" 7.75m	29'- 7" 9.01m	33'- 9" 10.28m	37'- 10" 11.54m	42' 12.81m	46'- 2" 14.08m
Illuminance = fc (Illuminance = lux)	167.59 (1803.95)	74.49 (801.75)	41.90 (450.98)	26.81 (288.63)	18.62 (200.43)	13.68 (147.26)	10.47 (112.74)	8.28 (89.08)	6.70 (72.15)	5.54 (59.63)

Photometric Performance - PHX 150W Tunable White (3000K) with 30-55 Degree Zoom Lens

Narrow (3K Channel at Full, 3000K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	5' - 6" 1.69m	8' 2.45m	10' - 7" 3.22m	13' - 1" 3.98m	15' - 7" 4.75m	18' - 1" 5.52m	20' - 7" 6.28m	23' - 2" 7.05m	25' - 8" 7.82m	28' - 2" 8.58m
Illuminance = fc (Illuminance = lux)	194.01 (2088.34)	86.23 (928.15)	48.50 (522.08)	31.04 (334.13)	21.56 (232.03)	15.84 (170.47)	12.13 (130.52)	9.58 (103.12)	7.76 (83.53)	6.41 (69.03)

Medium (3K Channel at Full, 3000K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	7' - 1" 2.16m	10' - 5" 3.17m	13 - 8" 4.17m	17' 5.18m	20' - 3" 6.18m	23' - 7" 7.19m	26 - 11" 8.19m	30' - 2" 9.20m	33' - 6" 10.20m	36' - 9" 11.21m
Illuminance = fc (Illuminance = lux)	129.02 (1388.75)	57.34 (617.22)	32.25 (347.18)	20.64 (222.19)	14.34 (154.30)	10.53 (113.36)	8.06 (86.79)	6.37 (68.58)	5.16 (55.54)	4.27 (45.90)

Wide (3K Channel at Full, 3000K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.764m
Beam Size Diameter	8' - 10" 2.68m	13' 3.95m	17.1' 5.22m	21' - 3" 6.48m	25' - 5" 7.75m	29' - 7" 9.01m	33' - 9" 10.28m	37' - 10" 11.54m	42' 12.81m	46' - 2" 14.08m
Illuminance = fc (Illuminance = lux)	70.59 (759.78)	31.37 (337.68)	17.65 (189.94)	11.29 (121.56)	7.84 (84.42)	5.76 (62.02)	4.41 (47.48)	3.49 (37.52)	2.82 (30.39)	2.33 (25.11)

Photometric Performance - PHX 150W Tunable White (5600K) with 30-55 Degree Zoom Lens

Narrow (5.6K Channel at Full, 5600K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	5' - 6" 1.69m	8' 2.45m	10' - 7" 3.22m	13' - 1" 3.98m	15' - 7" 4.75m	18' - 1" 5.52m	20' - 7" 6.28m	23' - 2" 7.05m	25' - 8" 7.82m	28' - 2" 8.58m
Illuminance = fc (Illuminance = lux)	269.13 (2896.94)	119.62 (1287.53)	67.28 (724.23)	43.06 (463.51)	29.90 (321.88)	21.97 (236.48)	16.82 (181.05)	13.29 (143.05)	10.77 (115.87)	8.90 (95.76)

Medium (5.6K Channel at Full, 5600K)

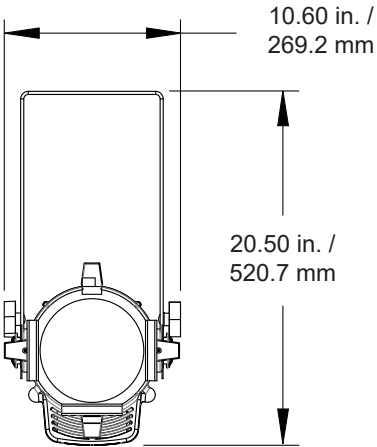
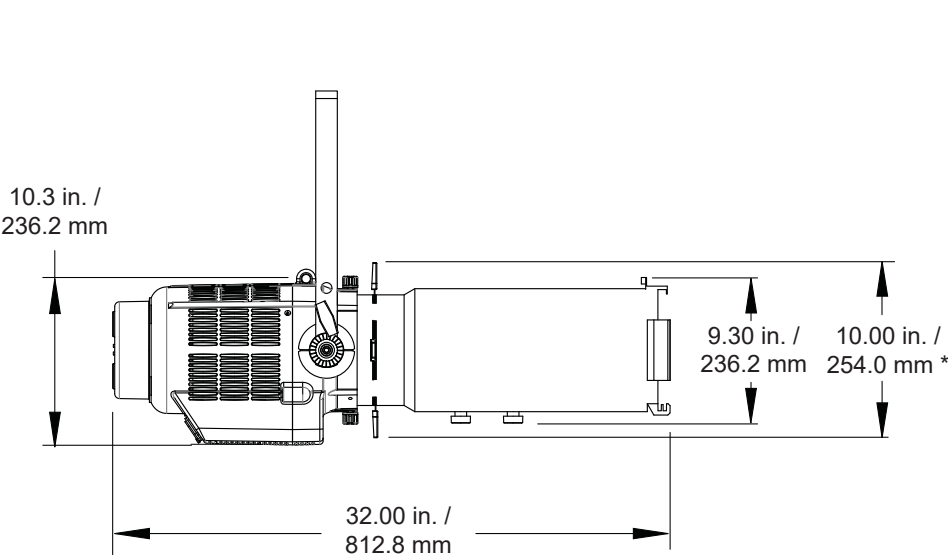
Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.76m
Beam Size Diameter	7' - 1" 2.16m	10' - 5" 3.17m	13 - 8" 4.17m	17' 5.18m	20' - 3" 6.18m	23' - 7" 7.19m	26 - 11" 8.19m	30' - 2" 9.20m	33' - 6" 10.20m	36' - 9" 11.21m
Illuminance = fc (Illuminance = lux)	178.97 (1926.46)	79.54 (856.20)	44.74 (481.61)	28.64 (308.23)	19.89 (214.05)	14.61 (157.26)	11.19 (120.40)	8.84 (95.13)	7.16 (77.05)	5.92 (63.68)

Wide (5.6K Channel at Full, 5600K)

Throw Distance (d)	10' 3.05m	15' 4.57m	20' 6.09m	25' 7.62m	30' 9.14m	35' 10.67m	40' 12.19m	45' 13.72m	50' 15.24m	55' 16.764m
Beam Size Diameter	8' - 10" 2.68m	13' 3.95m	17.1' 5.22m	21' - 3" 6.48m	25' - 5" 7.75m	29' - 7" 9.01m	33' - 9" 10.28m	37' - 10" 11.54m	42' 12.81m	46' - 2" 14.08m
Illuminance = fc (Illuminance = lux)	99.18 (1067.51)	44.08 (474.45)	24.79 (266.87)	15.87 (170.80)	11.02 (118.61)	8.10 (87.14)	6.20 (66.71)	4.90 (52.71)	3.97 (42.70)	3.28 (35.28)

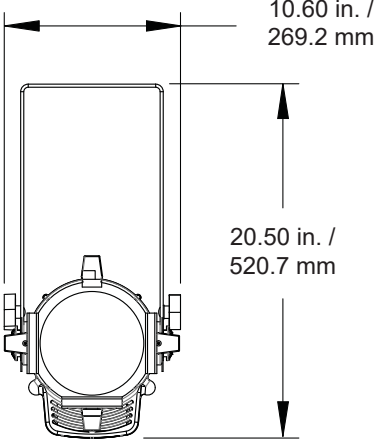
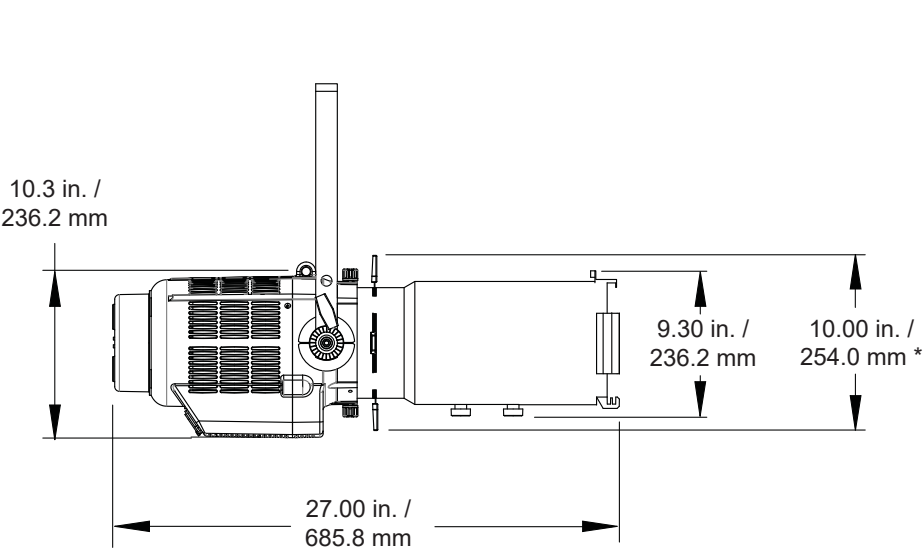
Product Dimensions

PHX150 15 - 35 Degree Zoom



**Dimensions shown are with shutter blades fully retracted (pushed in).*

PHX150 30 - 55 Degree Zoom



**Dimensions shown are with shutter blades fully retracted (pushed in).*

Specifications

Materials:	Construction employs all corrosion-resistant materials and hardware.
Control:	DMX /RDM - DMX512 in/thru via 5-pin XLR connector. RDM ANSI E1.20 Compliant
Light Engines:	60 LED Array. Available in RGBA, RGBW, 3000K, 5600K, and 3000K/5600K (Tunable White)
Input Voltages:	120VAC - 240VAC, 50/60 Hz, universal power input (PowerCON in/thru - up to 8 fixtures (20A Max) may be linked via PowerCON. Requires a non-dim source.
Cooling:	Natural Convection (no fans)
Environment:	-10 to 40 degrees C (-14 to 104 degrees F) / 5%-95% Non condensing
Weight:	27.15 lbs. (12.34 kg.)
Compliance:	cETLus Listed, CE marked (IP20 rated for indoor use)

Ordering Information

PHX1-(LED Array)-(Lens Type)-(Finish Color)

Model:	PHX1 (PHX 150W LED Zoom Spot)
LED Array:	RGBA (RGBA), RGBW (RGBW), 3K (3000K), 5K (5600K) or 3K5K (3000K/5600K Tunable White)
Lens Type:	15Z (15°-35° zoom) or 30Z (30°-55° zoom)
Body Color:	Black (B) or White (W)

Note: Each unit ordered includes a 7-1/2" x 7-1/2" Color Frame (6-CF), C-Clamp (510), 36" Black Safety Cable (SC-36-BK), PHX Soft Focus Lens with B-Size Pattern Holder (PHXZ-SFLGSB), and 5 Foot AC Cable PowerCON to Edison (PCL-PBG-12-).*

Optional Accessories

6-CF*	Color Frame, 7 1/2" x 7 1/2"
510	Malleable Iron Pipe Clamp
SC-36-BK	36" Black Safety Cable with Spring Clamp
PHXZ-SFLGSB	PHX Soft Focus lens with B Size Pattern Holder
PCL-PBG-12-*	5' 20A PowerCON with Parallel Blade U Ground (Edison)
510-HD	Heavy Duty Malleable Iron Pipe Clamp
6-DN	7-1/2" x 7-1/2" with 3" Hole Donut, Black
PHXZ-PHGSB	B Size Steel Pattern Holder (86mm OD/ 64.5mm IA)
PHXZ-PHGSB-3T	B Size Steel Pattern Holder (86mm OD/ 64.5mm IA) 3 Tab Style
PHX-PHISB	B Size Steel Pattern Holder (86mm OD/ 64.5mm IA) for Iris Slot
PHX-PHISA-GLS	A Size Glass Pattern Holder (100mm OD/75mm IA) for Iris Slot
PHX-PHISB-GLS	B Size Glass Pattern Holder (82mm OD/ 64.5mm IA) for Iris Slot
PHX-PHIS86-GLS	B Size Glass Pattern Holder (86mm OD/ 64.5mm IA) for Iris Slot
PCL-2P&G-12-5-*	5' 20A PowerCON with 2P&G Stage Pin Connector, Male
PCL-TLG-12-5-*	5' 20A PowerCON with L5-20P Twist Locking Ground Connector, Male
PCL-BARE-12-5-*	5' 20A PowerCON with Bare End Lead

*Note: *=W for White Cable, Black is standard and no suffix is required*