# Architectural Review Board Staff Report 

Project Type: Site Development Section Plan
Meeting Date: July 14, 2016
From: Jonathan Raiche, AICP
Senior Planner
Cc: Aimee Nassif, Planning \& Development Services Director
Location: 17298 North Outer 40 Road

Applicant: Dawdy \& Associates, Inc.
Description: Boone's Crossing NE, Lot 1B (Midwest Regional Bank): A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and an Architect's Statement of Design for a 1.18 acre tract of land zoned "PC" Planned Commercial District located north of US Highway 40/Interstate 64 and east of its intersection with Boone's Crossing (17U620194).

## PROPOSAL SUMMARY

The proposed plan is for construction of a new 4,711 square foot, 1 -story bank building with two drive-thru service lanes and one additional ATM lane. The subject site, Lot 1B of Boones Crossing NE subdivision, is the middle lot in a three lot subdivision. The eastern most lot is currently developed with a mixed-use office and bank building. The westernmost lot is currently vacant and is not included in the current proposal.

## HISTORY OF SUBJECT SITE

The subject site was incorporated into the City of Chesterfield under an "NU" Non-Urban District from St. Louis County. The zoning was first amended through a site-specific ordinance in 2006 to a "PC" Planned Commercial District. The site-specific ordinance was amended in 2012 to amend the Permitted Use Requirements and a structure setback requirement and again in 2014 to accommodate for three total lots rather than the original two lots proposed. A lot split was subsequently approved in 2015 which approved the current three lot configuration of the subdivision as seen in Figure 1 on the next page.


Figure 1

## STAFF ANALYSIS

## General Requirements for Site Design:

## A. Site Relationships

The subject site is approximately 1.1 acres and, as required by the governing ordinance, is proposing pedestrian and vehicular connections to Lot 1A and Lot 2 of the development. The site layout provides clear separation for the proposed drive-thru component while still maintaining a connection to and transition between the existing and future phases of the development. The main façade of the building has been oriented toward the Interstate 64 corridor and includes a main entryway plaza area.

## B. Circulation System and Access

As seen in Figure 1, the subject site does not have direct access to North Outer 40 Road and is not permitted to have access from the Interstate 64 exit ramp. During the previously mentioned Lot Split, cross access was required to the subject site from the one existing full access drive located on North Outer 40 Road. Provisions are also made to accommodate the possibility of cross-access to an additional right-in only access point located on Lot 1A; however, as it is not located on the subject property, it is not being proposed with this project.

Internal sidewalks are provided to link the subject site to the other two lots of the subdivision and are located at narrow points of the drive-thru area as to provide for safe pedestrian movement. The drive-thru is designed with a counter-clockwise traffic pattern on the northern portion of the site that will provide for efficient and safe vehicular movement. The clear separation of the customer parking and the drive-thru will also assist in providing safe and efficient circulation through the site.

## C. Topography

Minimal changes are proposed to the site's generally flat existing topography. The primary changes will accommodate the various proposed bio-retention areas located on the north and east portions of the site.

## General Requirements for Building Design:

A. Scale

The applicant is proposing an approximately 23 feet tall building with an extended entryway that is approximately 28 feet tall. The governing ordinance for the site restricts building height to a maximum of 45 feet on Lots 1 A and 1 B while the existing building on Lot 2 is approximately 37 feet tall. The applicant has designed a relatively tall 1 -story building and utilized the taller entryway which both bring a general compatibility of scale with the existing adjacent 2 -story building. Various horizontal architectural elements, including the stone banding and brick soldier course details, also break up the façade and help to provide a sense of human scale to the building.

## B. Design

The proposed building features a $v$-shaped design centered on a taller stone-clad entryway which clearly denote the intended pedestrian access and visual focus of the building as seen in the rendering provided by the applicant in Figure 2 below. The proposed landscaping and pedestrianscale bollard lighting also highlight the building's entry. All facades have been coordinated with similar materials proposed throughout with the exception of the proposed metal which is found only over the drive-thru canopy on the northern façade of the building.


Figure 2

## C. Materials and Color

The main proposed materials consist of a medium tone brick, tan architectural stone, dark bronze colored aluminum framed tinted windows, and a sandstone colored metal panel. The type and color of materials chosen by the developer are similar to those used on the existing adjacent building and help to provide a consistent architectural theme throughout the development. Although the proposed canopy introduces a metal panel for the upper portion, a compatible color has been chosen. Additionally, the columns of the proposed canopy are proposed to be constructed of the same brick and stone as used on the main building to provide continuity as shown in the excerpt from the elevations seen on the next page in Figure 3.


## Figure 3

## D. Landscape Design and Screening

The proposed landscape plan includes the following elements:

1) The required 30 feet wide landscape buffer along Interstate 64,
2) Various parking lot trees,
3) Bioretention plantings along the north and east property lines, and
4) A combination of trees, shrubs, and annuals/perennials placed around the building.

The proposed plantings around the building serve to emphasize and bring visual focus to the building's entryway as well as providing visual interest on both sides of the proposed drive-thru canopy. Additionally, the applicant has utilized evergreen trees to soften and screen the proposed dumpster enclosure which consists of brick to match the building and white vinyl gates. All mechanical equipment is proposed to be roof-mounted which is screened by the large building parapet that has been integrally designed into the overall building.

## E. Signage

Signage is not part of the proposal before Architectural Review Board and will be reviewed by Staff.

## F. Lighting

The proposal includes a combination of ground-mounted, pole-mounted, building-mounted, bollard, and canopy style lighting fixtures. The parking lot lighting proposed is fully-enclosed and shielded LED fixtures. Staff has commented and the applicant is aware that some of the site lighting provided for the parking areas exceeds the maximum lighting levels permitted by City Code. Staff will continue to work with the applicant to address this item.

The proposed bollard lights once again serve to highlight the entryway area and are proposed at a height of 2.5 feet with downcast light. The applicant has also applied ground-mounted accent lighting to serve two purposes. The first application is spot lighting for the proposed flag pole located southwest of the building which will be required to be directed toward the flag. The second application is the same style of fixture but as a flood style lamp rather than a spot light style along the main southern façade of the building. The applicant has confirmed and provided a note on the plan that the ground-mounted lighting will be shielded and aimed to avoid light spillage above the roofline.

## DEPARTMENTAL INPUT

Staff has reviewed the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design and finds that the plans are in compliance with the City's Architectural Review Design Standards. Staff requests action on the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Boone's Crossing NE, Lot 1B (Midwest Regional Bank).

## MOTION

The following options are provided to the Architectural Review Board for consideration relative to this application:

1) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Boone's Crossing NE, Lot 1B (Midwest Regional Bank), as presented, with a recommendation for approval (or denial) to the Planning Commission."
2) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Boone's Crossing NE, Lot 1B (Midwest Regional Bank), to the Planning Commission with a recommendation for approval with the following conditions..."

## Attachments

1. Architectural Review Packet Submittal


ARCHITECTURAL REVIEW BOARD

Date of First Comment Letter Received from the City of Chesterfield Roof Material \& Design: S $\$ 1$. barjast, insul. \& membrane Roofing screening material \& Design: Trash enclosure to match building materials Description of art or architecturally significant features (if any): $\qquad$ Description of ax or architecturally significant features (if any):

## ADDITIONAL PROJECT INFORMATION:

Checklist: Items to be provided in an 11" x 17" format

| $\square$ | Color Site Plan with contours, site location map, and identification of adjacent uses. |
| :--- | :--- |
| $\square$ | Color elevations for all building faces. |
| $\square$ | Color rendering or model reflecting proposed topography. |
| $\square$ | Photos reflecting all views of adjacent uses and sites. |
| $\square$ | Details of screening, retaining walls, etc. |
| $\square$ | Section plans highlighting any building off-sets, etc. (as applicable) |
| $\square$ | Architect's Statement of Design which clearly identifies how each section in the Standards |
| $\square$ | has been addressed and the intent of the project. |
| $\square$ | Landscape Plan. |
| $\square$ | Lighting cut sheets for any proposed building lighting fixtures. (as applicable) |
| $\square$ | Any other exhibits which would aid understanding of the design proposal. (as applicable) |
| $\square$ | Pdf files of each document required. |

## Architect's Statement of Design

## Midwest Regional Bank - Chesterfield, MO

The proposed new Chesterfield branch building for Midwest Regional Bank will be located in the center lot on North Outer 40 Road and Boones Crossing Road adjacent to the existing West Bridge Mortgage building.

The design of the building strengthens the existing street alignment and patterns of the city. While it has its own expression, it is designed as a good neighbor to the surrounding buildings. The site design allows movement around the site, continuously activating the streetscape. The form of the building maximizes the opportunity offered from the site and naturally directs traffic around the drive-thru without impacting neighboring business.

The careful proportioning of the entry element adds character to the streetscape. The overall building design closely relates to the neighboring buildings in material, scale and detail. A simple palette of materials detailed carefully, creates an impression of quality and longevity.

Terry L. Dawdy, AIA


## A perfect blend of design, performance and value

PHILIPS STONCO LYTEPRO LED MEDIUM FLOODLIGHT 85W LPF3

The Philips Stonco LytePro LED Medium Floodlight allows precision and flexibility in a compact design. The LPF3 features state-of-the-art long-life LED technology and is ideal for landscapes, accenting signage or displays, facades, and many other lighting applications.

LYTEPRO
LED MEDIUM
FLOODLIGHT 85W LPF3


| Propect: |  |  |
| :--- | :--- | :--- |
| Location: |  |  |
| Catalog No: |  |  |
| Fixture Type: $V$ |  | Qty: |
| Mfg: | Lamps: |  |

Ordering guide ${ }^{1}$


## Footnotes:

1. MTO configurations are assembled in the USA
2. COB denotes Oip On Board LED platform
3. Both 4 K and 5 K options have a minimum 80 CRI.
4. Limited quartites stooked in our Canoliton RDC.
5. Contsit factory for analiblty of hige order quantijes
6. 'F1' for 120, 277, 347V.
7. All stock products are BZTextured Dark Bronze,' 4 K
8. Stock LFF products ship out of our Carrolton Distributral White and 'R' Flood Oxtics.
9. Alvass consit factory for current invento $y$ bosk
10. LPF3 is provided with fll 4 <obr POP pad aging:
11. 'F3' for 203,240V Canadian dosble pull
12. Specify volage. 'PCB' not avalable with 'g' universal voliage option
13. 'Di'125' orl/ 3naleble 120-277V and dirs to 25\% for 6 hours.
14. D,n3dmmer is sitable for use from $-30^{\circ} \mathrm{C}$ to $40^{\circ}$ terperature ambient orly.

Features

- LPF3 flood distribution delivers 7,012 lumens at $85 W$, with an efficacy of 82 lumens per watt
- LPF3 spot distribution delivers 6.807 lumens at 85 W , with an efficacy of 80 lumens per wate
- Effectively replaces equivalenc 175-250W WID
. 1000 K neutral white is standard, 5000 K cool white is optional, minimum 80 CRI
- DLC certified optics provide excellent uniformity Ideal for general facade, target and landscape illumination
- Fixtures are IP66 rated and suitable for use In amblents from $-40^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}$
- Rated syscem life of 80 K hours for the driver and LED $\left(>L_{N}\right)$ at ambients up to $30^{\circ} \mathrm{C}$
- 5-year limited warranty, see philips.com/warranties for details
- LPF3 stocked in dark bronze, slipfitter mount, flood optic, 120-277V, and 4000K Neutral White for quick 2-day shipment
- Additional made to order versions available that are assembled In the USA, consulc factory for current lead time

Performance Specifications

| Beam Specs | Flood (FL) | Spot (SP) |
| :--- | :---: | :---: |
| Initial Lumens (4K and 5K) |  |  |
| Average Wattage $^{17}$ | 7,012 | 6,807 |
| Lumens/Watt | 85 W | 85 W |
| NEMA Beam | 82 | 80 |
| $50 \%$ beam (horizontal X vertical) | $101^{\circ} \times 97^{\circ}$ | $17^{\circ} \times 17^{\circ}$ |
| $10 \%$ beam (horizontal $\times$ vertical) | $130^{\circ} \times 125^{\circ}$ | $41^{\circ} \times 38^{\circ}$ |
| Max Candela | $3,100 \mathrm{~cd}$ | $33,122 \mathrm{~cd}$ |

16. Lumen velues based an photometric tests performed in complance with IESNA LM-79.
17. S, stem irput wattage may vacy based on input volagaz, b/ up to $+1,8 \%$ and based on maxufacturer fonward wotage, by up to $+1-4 \%$

Dimensions
Approximate luminaire weight $-19 \mathrm{lbs}(8.6 \mathrm{~kg})$
Fixture EPA $\mathbf{- 0 . 7 4}$ sq. fc.


Trunnion Mount Bolt Pattern


Photometrics
Accessory Details (must be ordered separately)


LPF3 85W-15' Mounting Height, $30^{\circ}$ Tilt $\begin{array}{llllll}\text { Mounting Height } & 25 & 20 & 15 & 12 & 10\end{array}$ $\begin{array}{llllll}\text { Multiplier } & 0.20 & 0.44 & 1.0 & 1.7 & 2.7\end{array}$


LPF3 85W-20' Mounting Height, $0^{\circ}$ Tilt $\begin{array}{lccccc}\text { Mounting Height } & 30 & 25 & 20 & 15 & 10 \\ \text { Multiplier } & 0.44 & 0.64 & 1.0 & 1.8 & 4.0\end{array}$

LPFJWG wire guard (field installed)


LPF3SG scone guard (field installed)


Notes: Grid is in multiples of mounting height and values shown are in footcandles. Values shown are based on initial lumens.

## LYTEPRO <br> LED MEDIUM FLOODLIGHT 85W LPF3

## Specifications

## General Description

The Philips Stonco LytePro LED Medium Floodight 85W LPF3 combines excellent performance, design and value to meet the needs for the energy and budget conscious. The LPF3 is available with slipfitter or trunnion mounting and flood or spot optical distributions suitable for use on a wide range of applications. A single primary SKU is available in stock for 2 -day quick ship while a more comprehensive offering is available made-to-order with multiple offerings that include fusing, photocontrol, Dynadimmer, NW and CW color temps and three standard finishes.

## Housing

Die-cast housing houses both the LED and driver assemblies. Design incorporates integrated heatsinking to maximize thermal performance and reliability.

## Mounting

The LPF3 is available with slipfitter or trunnion mounting to allow for wide range of aiming and adjustability. Caution: Philips Stonco is not responsible for failure of mounting components supplied by others. Proper care should be exercised in mounting component selection and installation to insure adequate luminaire support, given system weight, vibration potential, exposure to the elements, thermal conditions present in the given application, etc. If luminaires are not properly supported and installed correctly per local codes and requirements, this may resulc in damage or injury caused by the luminaire, for which Philips Stonco is not responsible.

IP Rating
Entire fixture is rated IP66, Including driver and optical assemblies.

## LED Board and Array

The LPF3 utilizes three Citizen CLLO32 COB (Chip On Board) LEDs. Provides up to $82 \mathrm{Im} / \mathrm{W}$ at the system level. Standard color temp is $4000 \mathrm{~K}+1.250 \mathrm{~K}$, with optional 5000 K available. Both color temps have a minimum 80 CRI.

## LED Thermal Management

Housing design integrates thermal heatsinking between the optical and driver assemblies, allowing for passthrough convective cooling which promotes alr flow for improved and maximum heat dissipation. This results in maximized performance and reliability of critical components to ensure long LED system life.

## Optical Systems

LPF3 Flood 'FL' is standard with a Flood 'FL' optic that consists of a specular vacuum metalized reflector that provides a very uniform and highly efficient all purpose flood distribution. Optional Spot 'SP' optic consists of a TIR lens to provide a tight spot. Both optics are suitable for use in wide range of applications.
Energy saving benefits and controls
The LPF3 has a system efficacy of $82 \mathrm{Im} / \mathrm{W}$ at a system wattage of 85 W using the flood distribution. With the spot distribution it has a system efficacy of $80 \mathrm{Im} / W$ at a system wattage of 85 W . Ic provides significant energy savings over traditional HID systems less controls. Optional Dynadimmer controls provides additional maximum energy savings by dimming to $\mathbf{2 5 \%}$ low for 6 hours.

## Electrical

 (restrictions apply). Temp range: $-40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right)$ to $40^{\circ} \mathrm{C}\left(104^{\circ} \mathrm{F}\right)$. Open/short circuit protection. RoHS compliant. Surge protector standard and is in accordance with IEEE / ANSI C62.41.2 guidelines, with a surge current rating of $10,000 \mathrm{amps}$ ( 10 KVA ).

## Listings

Product is UL and cUL listed to the UL1598 standard, suitable for Wet Locations. Suitable for use in ambients from $-40^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right.$ to $\left.104^{\circ} \mathrm{F}\right)$. The LPF3 luminaire with either 4 K Neutral White or 5 K Cool Whice LEDs and flood or spot optics is DesignLights Consortium ${ }^{2}$ qualified. Stock SKUs of the LPF family are made in China while all made-to-order configurations are assembled in the USA.

## Finish

Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard finish on all stocked LPF luminaires is Textured Dark Bronze. Textured White and Dark Gray are also available as optional colors for made-to-order products.

## Warranty

LPF3 luminaires, the LED arrays, and the drivers are all covered by a 5 -year limited warranty. See philips.com/ warranties for details.

Predicted Lumen Depreciation Data ${ }^{18}$

| Amblent Temp. ${ }^{\circ} \mathrm{C}$ | TM-21 Calculated $\mathrm{L}_{19}$ hrs ${ }^{18,19}$ | Reported $\mathrm{L}_{10}$ Per TM-21'9,10 | Lumen Maint. \% @60,000 hrs |
| :--- | :--- | :--- | :--- |
| up to $40^{\circ} \mathrm{C}$ | $269,000 \mathrm{hrs}$ | $>48,000 \mathrm{hrs}$ | $91.5 \%$ |

18. Calalased performance deried from LED marifacturer's data and engineering design estmates, based on ESNA L-1-SO methodslogy. Actual expcrience may vary due to feld applaztion condtions.
19. $L_{D}$ is the predcted time when LED perfommance deprecietes to $70 \%$ of initial timen autput.
20. Reported por ESNA TM21-11. Publsied $L_{n}$ hours Imited to 6 tires actual LED test hours.
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Philips Lighting
North America Corporation
200 Franklin Square Drive
Somerset, NJ 08873
Phone: 855-486-2216

Philips Lighting Company
281 Hillmount Road Markham ON. Canada L6C 253
Phone: 800-668-9008

## A perfect blend of design, performance and value

PHILIPS STONCO LYTEPRO LED MEDIUM FLOODLIGHT 85W LPF3

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| Project: MIDWEST REGIONAL BANK |  |  |
| :--- | :--- | :--- |
| Location: |  |  |
| Catalog No: | LPF3-C-4K-FL-S-8-BZ |  |
| Fixture Type: S |  |  |
| Mfg: | Lamps: | Qty: |
| Notes: |  |  |

Ordering guide ${ }^{1}$
example: LPF3-C-4K-FL-S-F1-PCB-1-BZ

| Series / \# of COB ${ }^{2}$ <br> LPF3 | Drive Current c $-$ | Color <br> Temperature <br> 4K <br> - | Distribution <br> FL <br> - | Moun <br> S |
| :---: | :---: | :---: | :---: | :---: |
| LPF3 LytePro <br>  LED <br>  Medium <br>  Floodlight <br>  $\mathbf{8 5 W}$ | C 700 mA | $\begin{array}{ll}4 \mathrm{~K} & 4000 \mathrm{~K}^{3} \\ 5 \mathrm{~K} & 5000 \mathrm{~K}^{3}\end{array}$ | $\begin{array}{\|ll} \hline \text { FL } & \text { Flood } \\ \text { SP } & \text { Spot } \end{array}$ | $\begin{array}{\|ll} \hline \mathbf{S} & \text { Slip } \\ \mathbf{T} & \text { Tru } \end{array}$ |
| Accessories - Ordering Guide (must be ordered separately) |  |  |  |  |
| Catalog \# | Description |  |  |  |
| LPF3WG ${ }^{10,11}$ | Wire Guard |  |  |  |
| LPF3SG ${ }^{10,14}$ | Stone Guard |  |  |  |

## Footnotes:

1. MTO conforations are asseriblsd in the USA
2. COB denotes Chip On Bard IED platfom
3. Both $4 K$ and $5 K$ options hare a minimum 80 CRL.
4. 'F1' for 120, 277, 347N.
5. 'F2' for $203,240 \mathrm{~V}$.
6. 'F3' for 203, 240V Canadian double pu县
7. Specity voltage. 'PCB' rot avalable with '8' universal voltage option.
8. 'DM25' crly avaleble 120-27N and dims to $25 \%$ for 6 hours.
9. D,nadmmer is suitable for use from $-30^{\circ} \mathrm{C}$ to $40^{\circ}$ termperature anbient onls.
10. Limited quantibies stodked in cur Camolton RDC.
11. Contact factory for anslibity of large ouder quanties
12. All stock products are BZ Textured Dark Bronze, 4 KK Neutral White and' F ' Food Optics.
13. Stock LPF procucts stip out of our Canolton Distribution facity within 2-diys of recept of oder.
14. Always consult factory for current inventory levels Larger quantities may be corverted to MTO if necessary
15. LPF3 is provided with fiA 4 -cotor POP padaging

Features

- LPF3 flood distribution delivers 7,012 lumens at 85 W , with an efficacy of 82 lumens per watt
- LPF3 spot distribution delivers 6,807 lumens at 85 W , with an efficacy of 80 lumens per watt
- Effectively replaces equivalent 175-250W HID
- 4000 K neutral white is standard, 5000 K cool white is optional, minimum 80 CRI
- DLC certified optics provide excellent uniformity ideal for general facade, target and landscape illumination
- Fixtures are IP66 rated and suitable for use in ambients from $-40^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}$
- Rated system life of 80 K hours for the driver and LED $\left(>\mathrm{L}_{r}\right)$ at ambients up to $30^{\circ} \mathrm{C}$
- 5-year limited warranty, see philips.com/warranties for details
- LPF3 stocked in dark bronze, slipfitter mount, flood optic, 120-277V, and 4000K

Neutral White for quick 2-day shipment

- Additional made to order versions available that are assembled in the USA, consule factory for current lead time

Performance Specifications

| Beam Specs | Flood (FL) | Spot (SP) |
| :--- | :---: | :---: |
| Initial Lumens (4K and 5K) ${ }^{16}$ | 7,012 | 6,807 |
| Average Wattage" $^{17}$ | 85 W | 85 W |
| Lumens/Watt | 82 | 80 |
| NEMA Beam | $6 \mathrm{H} \times 6 \mathrm{~V}$ | $3 \mathrm{H} \times 3 \mathrm{~V}$ |
| $\mathbf{5 0 \%}$ beam (horizontal X vertical) | $101^{\circ} \times 97^{\circ}$ | $17^{\circ} \times 17^{\circ}$ |
| $\mathbf{1 0 \%}$ beam (horizontal X vertical) | $130^{\circ} \times 125^{\circ}$ | $41^{\circ} \times 38^{\circ}$ |
| Max Candela | $3,100 \mathrm{~cd}$ | $33,122 \mathrm{~cd}$ |

16. Lumen values based on photometric tests performed in complance with ESNA L1-79.
17. System input wattage maj vary based on input vatage, by up to $+\% .8 \%$ and based on manufacturer forward voltaze. by up to $+1-4 \%$.

Dimensions
Approximate luminaire weight - 191bs (8.6kg)
Fixture EPA - 0.74 sq. ft.


Accessory Details (must be ordered separately)

$\begin{array}{lccccc}\text { LPF3 85W } & \text { 20 } & \text { Mounting Height, } 0^{\circ} & \text { Tilt } \\ \text { Mounting Height } & 30 & 25 & 20 & 15 & 10 \\ \text { Multiplier } & 0.44 & 0.64 & 1.0 & 1.8 & 4.0\end{array}$

LPF3WG wire guard (field installed)


LPF3SG stone guard (field Inscalled)


[^0]Values shown are based on initial lumens.

## Specifications

## General Description

The Philips Stonco LytePro LED Medium Floodlight 85W LPF3 combines excellent performance, design and value to meet the needs for the energy and budget conscious. The LPF3 is available with slipfitter or trunnion mounting and flood or spot optical distributions suitable for use on a wide range of applications. A single primary SKU is available in stock for 2 -day quick ship while a more comprehensive offering is available made-to-order with multiple offerings that include fusing, photocontrol, Dynadimmer, NW and CW color temps and three standard finishes.

## Housing

Die-cast housing houses both the LED and driver assemblies. Design incorporates integrated heatsinking to maximize thermal performance and reliability.

## Mounting

The LPF3 is available with slipfitter or trunnion mounting to allow for wide range of aiming and adjustability. Caution: Philips Stonco is not responsible for failure of mounting components supplied by others. Proper care should be exercised in mounting component selection and installation to insure adequate luminaire support, given system weight, vibration potential, exposure to the elements, thermal conditions present in the given application, etc. If luminaires are not properly supported and installed correctly per local codes and requirements, this may resulc in damage or injury caused by the luminaire, for which Philips Stonco is not responsible.

## IP Rating

Entire fixture is rated IP66, including driver and optical assemblies.

## LED Board and Array

The LPF3 utilizes three Citizen CLL032 COB (Chip On Board) LEDs. Provides up to $82 \mathrm{Im} / \mathrm{W}$ at the system level. Standard color temp is $4000 \mathrm{~K}+1 \cdot 250 \mathrm{~K}$, with optional 5000 K available. Both color temps have a minimum 80 CRI.

## LED Thermal Management

Housing design integrates thermal heatsinking between the optical and driver assemblies, allowing for passthrough convective cooling which promotes airflow for improved and maximum heat dissipation. This results In maximized performance and reliability of critical components to ensure long LED system life.

## Optical Systems

LPF3 Flood 'FL' is standard with a Flood 'FL' optic that consists of a specular vacuum metalized reflector that provides a very uniform and highly efficient all purpose flood distribution. Optional Spot 'SP' optic consists of a TIR lens to provide a tight spot. Both optics are suitable for use in wide range of applications.

Energy saving benefits and controls
The LPF3 has a system efficacy of $82 \mathrm{Im} / \mathrm{W}$ at a system wattage of 85 W using the flood distribution. With the spot distribution it has a system efficacy of $80 \mathrm{Im} / \mathrm{W}$ at a system wattage of 85 W . It provides significant energy savings over traditional HID systems less controls. Optional Dynadimmer controls provides additional maximum energy savings by dimming to $25 \%$ low for 6 hours.

## Electrical

Driver efficiency ( $>90 \%$ standard). $\mathbf{1 2 0 - 3 4 7 V}$ available (restrictions apply). Temp range: $-40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right)$ to $40^{\circ} \mathrm{C}\left(104^{\circ} \mathrm{F}\right)$. Open/short circuit protection. RoHS compliant. Surge protector standard and is in accordance with IEEE / ANSI C62.41.2 guidelines, with a surge current rating of $10,000 \mathrm{amps}$ ( 10 KVA ).

## Listings

Product is UL and cUL. listed to the UL1598 standard, suitable for Wet Locations. Suitable for use in ambients from $-40^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right.$ to $\left.104^{\circ} \mathrm{F}\right)$. The LPF3 luminaire with either 4 K Neutral White or 5 K Cool White LEDs and flood or spot optics is DesignLights Consortium ${ }^{\text {® }}$ qualified. Stock SKUs of the LPF family are made in China while all made-to-order configurations are assembled in the USA.

Finish
Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard finish on all stocked LPF luminaires is Textured Dark Bronze. Textured White and Dark Gray are also available as optional colors for made-to-order products.

## Warranty

LPF3 luminaires, the LED arrays, and the drivers are all covered by a 5 -year limited warranty. See philips.com/ warranties for details.

Predicted Lumen Depreciation Data ${ }^{18}$

| Amblent Temp. ${ }^{\circ} \mathrm{C}$ | TM-21 Calculated $\mathrm{L}_{10}$ hrs ${ }^{18,19}$ | Reported $\mathrm{L}_{10}$ Per TM-21 ${ }^{19,29}$ | Lumen Maint. \% @60,000 hrs |
| :--- | :--- | :--- | :--- |
| up to $40^{\circ} \mathrm{C}$ | $269,000 \mathrm{hrs}$ | $>48,000 \mathrm{hrs}$ | $91.5 \%$ |

18. Calcuated performance derived from LHD marufacturer's data and engineering desizn estimstes,
based on IESNA UM-80 metiodulogy. Actual experience may vay due to fell appleation condtions.
19. $L_{7}$ is the predited time when LED performance deprecates to $70 \%$ of irizal hmen output.
20. Reported per ESNA TM21-11. Publisied $L_{n}$ hours Imited to 6 times actual LED test hours
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LytePro_LPF3 $08 / 14$ page 3 of 3

Philips Lighting
North America Corporation
200 Franklin Square Drive
Somerset, NJ 08873
Phone: 855-486-2216

Philips Lighting Company
281 Hillmount Road
Markham ON, Canada L6C 2 S3
Phone: 800-668-9008



1. Luminaire Cover - Die-cast, aluminum cover, low copper alloy.
2. Gasketing - (not shown) Continuous gasket provides weather-proofing, dust, and insect control at shielding base, and fixture cover.
3. Shielding - Transparent, continuous one-piece injection molded, UV stabilized polycarbonate lens, minimum wall thickness $5 / 16^{n}(8.25 \mathrm{~mm})$.
temperatures as low as $-20^{\circ} \mathrm{C}$. For lumen maintenance information, see IESTM-21-11 details.
4. Optics - Six individual precision injected molded lenses consisting of total internal reflection (TIR) collimator and precision light shaping lens. Lenses produce an asymmetric distribution.
5. Column - Extruded, thick-walled low copper aluminum, minimum wall thickness $0.118^{\prime \prime}(3 \mathrm{~mm})$ with intemal anchor bolts and flush handhole cover.
6. Surge Protector - (not shown) Designed to protect luminaire from electical surge ( 10 kA ).

Exterior Luminalre Finish Selux utilizes a high quality Polyester Powder Coating. All Selux luminalres and poles are finished in our Tiger Drylac certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultra violet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCl .
Standard exterior colors are White (WH), Black (BK), Bronze (BZ),
and Silver (SV). Selux premium colors (SP) are available, please specity from your Selux color selection guide.
5 Year LImited LED LumInalre Warranty-Selux offers a 5 year limited warranty to the original purchaser that the Notch LED Bollard shall be free from defects in material and workmansip for up to five (5) years from date of shipment. This limited warranty covers the LED driver and LEDs when installed and operated according to Selux instructions. Luminaire suitable for ambient temperature up to $45^{\circ} \mathrm{C}$. For details and exclusions, see Selux Terms and Conditions of sale.
Listings and Ratings -
Luminaire Tested to IESNA LM-79-08, LEDs tested to LM-80 standards.

Selux Corp. © 2014
TEL (845) 834-1400 FAX (845) 834-1401 www.selux.us $N T .0914 .01(s s+3.2)$

NRTL Listed (i.e. UL, CSA) for wet locations

[^1]
## Photometry

### 8.5W LED / 3500 K CCT

## Catalog \# NT-4-LG3500-35

Report \# S1207053-R1-1

- Ideal for applications requiring linear distributions.
- Maximum candela of 550 at $67.5^{\circ}$ from vertical.
- IES classification - B0-U1-G1
- Mounting Height $=4^{\prime}(1.22 \mathrm{M})$
- 434 Delivered Lumens
- 51 Lumens per Watt
dOWNLOAD IES FILE:





### 8.5W LED / 5000K CCT <br> Catalog \# NT-4-LG3500-50 <br> Report \# S1207053-R1-3

- Ideal for applications requiring linear distributions.
- Maximum candela of 569 at $67.5^{\circ}$ from vertical.
- IES classification - B0-U1-G1
- Mounting Height $=4^{\prime}(1.22 \mathrm{M})$
- 449 Delivered Lumens
- 53 Lumens per Watt

DOWNLOAD IES FILE:




## 12W LED / 3500K CCT

Catalog \# NT-4-LG3700-35
Report \# S1207053-R1-1

- Ideal for applications requiring linear distributions.
- Maximum candela of 626 at $67.5^{\circ}$ from vertical.
- IES classification - B0-U1-G1
- Mounting Height $=4^{\prime}(1.22 \mathrm{M})$
- 494 Delivered Lumens
- 35 Lumens per Watt
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## Photometry

## 12W LED / 5000K CCT

Catalog \# NT-4-LG3700-50
Report \# S1207053-R1

- Ideal for applications requiring linear distributions.
- Maximum candela of 711 at $67.5^{\circ}$ from vertical.
- IES classification - B0-U1-G1
- Mounting Height $=4^{\prime}(1.22 \mathrm{M})$
- 561 Delivered Lumens
- 40 Lumens per Watt

DOWNLOAD IES FILE:




| Conversion Chart <br> Values based on $3^{\prime}(\mathrm{sm})$ mounting height |  |
| :---: | :---: |
| Mounting Height | Muliply |
| $2.0{ }^{\prime}$ (.6m) | 1.22 |
| $2.5{ }^{\text {( }}$ (8m) | 1.09 |
| $3.0{ }^{\prime}$ (.9m) | 1.00 |
| $3.5{ }^{\prime}$ (1.1m) | 0.92 |
| 4.0' ${ }^{\prime}$ (1.2m) | 0.87 |

## IES TM-21-11 Report Results <br> Based on an ambient temperature of $25^{\circ} \mathrm{C} / 77^{\circ} \mathrm{F}$

- Reported L70 (6k)(hours) $>36,000$
- Calculated L70 ( 6 K )(hours) 601,000
- 25,000 h lumen maintenance predicted to be $98.75 \%$

| LED CCT Prorate Table |  |
| :---: | :---: |
| Values based on Flux Binning |  |
| CCT | Theoretical IMultiplier |
| 3000 K | 0.77 |
| 3500 K | 0.85 |
| 4000 K | 0.92 |
| 5000 K | 1.00 |







- Based on $\mathbf{~ M} \cdot 21$ projections for the light source.
*See www.lightingtacts.com/products for details.


tre Rase


## Notch Bollard LED

## Wiring

## Standard Single Wiring

L.G3700 at 120-277V for high output. LG3500 at 120-277V for low output.

$0-10 \mathrm{~V}$ Dimming Option (DM) Wiring
LG3700 120-271V.


## Hi-Lo Switching Option (HL) Wiring

LG3700 120-277V. When red is energized, power consumption will be at "Lo" level. Lo $=70 \%$ power consumption.


## $347 / 480 \mathrm{~V}$

LG3700 at 347/480V for high output. LG3500 at $347 / 480 \mathrm{~V}$ for low output.


## Profile



## Anchorage Information



## PHILIPS Stonco

4.7

LPW16



| Project: MIDWEST REGIONAL BANK |
| :--- |
| Location: |
| Cat.No: LPW16.78BZ |
| Type: Q |
| Quantity: |
| Notes: |

The Philips Stonco LytePro LED Small Wall Sconce LPW16 features outstanding value in a compact, architectural design. This wall sconce features state-of-the-art, long-life and maintenance savings, in a combined discreet LED package with high precision over-optic design. This powerful and precise combination offers outstanding energy savings with excellent photometric performance. LPW16 is ideal for entryways and corridors in addition to wall lighting applications requiring strong lateral spacing and forward pattern projection.

Stocked luminaires - Ordering guide (LPW16 products are only available in the following stock luminaire configurations shown)

| Catalog Number | Description | Master Pack, Qty | UPC Code |
| :--- | :--- | :---: | :---: |
| LPW16-58BZ | LPW16, 30W, 530mA, 4000K, 120-277V, Bronze textured paint | 6 | 786034960540 |
| LPW16-51BZPCB | LPW16, 30W, 530mA, 4000K, 120V, Bronze textured paint, w/button photocell | 6 | 786034960557 |
| LPW16-78BZ | LPW16, 40W, 700mA, 4000K, 120-277V, Bronze textured paint | 6 | 786034960502 |
| LPW16-78DGY | LPW16, 40W, 700mA, 4000K, 120-27N, Dark gray textured paint | 6 | 786034960489 |
| LPW16-71BZPCB | LPW16, 40W, 700mA, 4000K, 120V, Bronze textured paint, w/button photocell | 6 | 786034960519 |

Stocked accessories - Ordering guide (Must be ordered separately)

| Catalog Number | Description | Master Pack, Qty | UPC Code |
| :--- | :--- | :---: | :---: |
| LPWCVRPLT-BZ | LPW Universal wall cover mounting plate, Bronze textured paint | (none) | $\mathbf{7 8 6 0 3 4 9 6 0 6 1 8}$ |

## LPW16 LytePro LED Small Wall Sconce

## Features

LPW16 wall sconce delivers 3,374 lumens at 36 W , with an efficacy of 93 lumens per watt. Other wattages available per charts noted below--.

- LP16W-5, 30W LED may effectively replace 70-100W HID luminaires ${ }^{2}$
- LP16W-7, 40W LED may effectively replace 100-150W HID luminaires ${ }^{1}$
- 4000 K neutral white at 70 CRI (minimum) is standard
- Button photocell available in 120 V , bronze luminaires only
- 5-year limited warranty, see philips.com/warranties for specific details


## Performance/Specifications (LP16W-7)

| Distribution | Type 3 |
| :--- | :--- |
| Initial Lumens | 3,374 |
| Average Wattage | 36 |
| Lumens/Watt | 93 |
| BUG Rating* | $\mathrm{BI} / \mathrm{UO} / \mathrm{GI}$ |
| Luminalre Weight | $\sim 6 \mathrm{lbs}(2.7 \mathrm{Kg})$ |

Performance/Specifications (LP16W-5)

| Distribution | Type 3 |
| :--- | :--- |
| Inttial Lumens | 2.698 |
| Average Wattage | 28 |
| Lumens/Watt | 96 |
| BUG Rating | $\mathrm{B} 1 / \mathrm{U} 0 / \mathrm{G1}$ |
| Luminaire Weight | $\sim 6 \mathrm{lbs}(2.7 \mathrm{Kg})$ |

Ratings/Approbations/Certifications

| Ingress Protection | IP65 Optical |
| :--- | :--- |
| DLC Listed | DLC QPL |
| CETLus | Certlified for Use in wet locations |
| Rated Amblent Temperature | $-40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right)$ to $40^{\circ} \mathrm{C}\left(104^{\circ} \mathrm{F}\right)$ |



Accessory Dimensions (ordered separately)
LPWCVRPLT-BZ LPW Universal wall cover mounting plate, $0.08^{\prime \prime}$ aluminum, bronze textured paint (used to cover larger pre-existing opening or surfaces, field installed). Offers same J-Box pattern as luminaire or may lagged to wall using (4) knockouts.


## Fixture Dimensions ${ }^{3}$

2. Comparable equivalency to HID and other lamp sources depends on multiple criteria including mounting height, fixture spacing, efficiency, performance and classlifcation of the luminaire being replaced and application lighting criteria required for the glven project.
3. PCB shown for placement only, available on specific models only (see ordering guide).

## Distribution Pattern

| LPWI6-7 $10^{\prime}$ MOUNTING HEIGHT |  |  |  |
| :--- | :--- | :--- | :--- |
| MOUNTING HEIGHT | $8^{\prime}$ | $10^{\prime}$ | $12^{\prime}$ |
| MULTIPLIER | 1.60 | 1.0 | 0.70 |

- Isolines shown at 2.0. 1.0, 0.5. \& 0.2 FC.
- Choose mounting height. Use MULTIPLIER (X) EXISTING FC VALUE = NEW FC VALUE.
- FC values are based on initial lumen output.
- Gridline spacing is in units of chosen mounting height
- For L.PW16-5 configuration, scale down by $29 \%$.


LPW16_LytePro_sconce $02 / 16$ page 2 of 3

## LPW/16 LytePro LED Small Wall Sconce


Mounting
Easy interlocking hook and mount housing/
backplate design for easy installation. Mounts
over $3.5 ", 4{ }^{4}$ octagonal $j$-boxes and single
gang switch boxes or can be directly lagged
to surface. Ensure proper steps for gasket/
sealing luminaire to surface.
IP Rating
Optical compartment is IP65 rated.
LED Board and Array
Provides up to 93 Im/W in LPW16-7 and 96
Im/W in LPW16-5 at the system level. Standard
color temp is $4000 \mathrm{~K}+/-250 \mathrm{~K}$, minimum 70
CRI.

Electrical
Driver efficiency (>90\% standard). 120-277V.
Temp range: $-40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right)$ to $40^{\circ} \mathrm{C}\left(104^{\circ} \mathrm{F}\right)$. Open/short circuit protection. Inherent surge protection up to (4KVA). RoHS compliant.

## Listings

Product is cETLus listed suitable for Wet Locations. Suitable for use in ambients from $-40^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right.$ to $\left.104^{\circ} \mathrm{F}\right)$. DesignLights Consortium ${ }^{\circledR}$ qualified. Stocked SKUs of the LPW family are made in China.

## Finish

Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish.

## Warranty

LPW16 luminaires, the LED arrays, and the drivers are all covered by a 5 -year limited warranty. See philips.com/warranties for details.

## LED Performance:

PREDICTED LUMEN DEPRECIATION DATA ${ }^{4.6}$

| Amblent Temp. ${ }^{\circ} \mathrm{C}$ | Calculated L70 $\mathrm{hrs}{ }^{5}$ | Reported L.70 Per TM-21s.6 | Calculated Lumen Maint. \% <br> @60,000 hrs |
| :---: | :---: | :---: | :---: |
| up to $40^{\circ} \mathrm{C}$ | $>200,000 \mathrm{hrs}$ | $>60,000 \mathrm{hrs}$ | $94.0 \%$ |

4. Calculated performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.
5. L70 is the predicted time when LED performance depreciates to $70 \%$ of initial lumen output.
6. Reported per IESNA TM21-1I. Published L70 hours limited to 6 times actual LED test hours.
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LPW16_LytePro_sconce $02 / 16$ page 3 of 3

Philips Lighting North America Corporation 200 Franklin Square Drive, Somerset, NJ 08873 Tel. 855-486-2216

Philips Lighting Canada Ltd. 281 Hillmount Rd, Markham, ON, Canada L6C 253 Tel. 800-668-9008



Calculite LED 7" features an LED array of high brightness white light LEDs. The new LED boards in Calculite LED ensure a less than 2-step SDCM color variation between luminaires.

Complete product $=$ Frame-in kit + Trim kit Lumen package for the frame-in kit must match the trim kit.

| Ptoject: | MIDWEST REGIONAL BANK |
| :--- | :--- |
| Location: |  |
| Cat.No: | ClL3sNivBziov |
| Type: | N |
| Lamps: | Qty. |
| Notes: | C7L1520DL40KWC |
|  | LWVB |

Frame-in kit


Trim kit
example: C7L1520DL35KWCCDPVB

| Series |  |  |  |  |  |  | Version' |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C7L Calculite 7' LEO round aperture | 1520 1500/2000/ 3500 Im 50 60001m | DL Downligh | 27K 2700K <br> 30K 3000 K <br> 35K 3500K <br> 40K 4000 K | N Narrow, 20 $0.3 \mathrm{sc} \mathrm{c}^{\prime}$ <br> M Medium, $55^{\circ}$ 0.8 s.c. <br> W Wide, $70^{\circ}$ <br> 1.1 s.c. | CL Clear <br> CCL Comfort clear <br> CCD Comfort clear diffuse <br> CCZ Champagne bronze <br> WH White (painted) | W White <br> (painted) <br> P Polished (matches aperture) <br> FT Flangeless (nush-mount) ${ }^{45}$ | VB Version B |
| 1. Consult LED-EM spec sheet for Emergency (EM) option details and restrictions. <br> CATFMR Not available with Lutron driver (LD) diming. <br> Fingeless trim with plaster ring accessonx <br> 2. Consult factory for availability of other $347 \mathrm{~V}(\mathbf{- 3 4 7})$ option configurations. (Required for g.psum installations) <br> 3. Consult factory for avallability for other Chicago Plenum (LC) option configurations. Not avallable for $\mathbf{6 0 0 0} \mathbf{( 5 0 )}$ lumen frame-In kits. <br> 4. Accessory CATFMR required for gypsum applications and flangelss (FT) trinis (minimal $1 / 4^{\prime \prime}$ reflector flange). <br> 5. Available for new construction $(N)$ installation frame-In kits only. <br> 6. Available for 2000 (20) lumen frame-in kits only. <br> 7. Available for 6000 (50) tumen trim kits only. <br> Note: See page 3 for Energy Star' compatibility. $\qquad$ <br> CalculiteLED-7in-Downlight-C7LDLVB 09/15 page 1 of 9 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

## C7L-DL-VB Calculite LED

## 7" Round Aperture, Downlight, Narrow Medium \& Wide Beam 1500/2000/3500/6000lm



Remodeler


## Frame-in kits

New construction
Mounting frame: Galvanized stamped steel for dry or plaster ceilings. Vertical adjustment: Light engine adjusts In frame below ceilings up to $1 \frac{1 / a^{\prime \prime}}{}$ max. Mounting brackets: Galvanized Steel. Adjustable through aperture. Use $3 / 4^{\text {" }}$ or $11 / 2^{\text {" }}$ lathing channel, $1 / 2^{\text {n }}$ EMT or optional mounting bars (see Options and Accessories for optional mounting bars).

Remodeler
Compatibility: Flanged downlight only. Power pack: Swivel junction box for tight plenum spaces. Snap-off covers permits wiring from top.
Spring holder: Galvanized steel. Accepts up to $21 / 2^{\prime \prime}(64 \mathrm{~mm})$ ceiling thickness.

Retrofit
Compatibility: Downlight only.
Capability: Converts 6" (153mm) or
$7^{*}$ ( 178 mm ) Lightolier incandescent frame-In kit without additional wiring using existing Calculite E26 base.
Socket cup support: Spun steel. Holds Calculite incandescent socket cup. Socket extender: Phenolic E26 base. Connect to existing lamp holder.

CalculteLEO-7in-Downlight-C7LDLVB 09/15

## Quick-ship

Philips is committed to providing customers with the products they need when they need them. For Service Smart (2 day) and Spec Smart (2 week) availablility please reference the Philips Luminalre Smart Service Guide or contact your Philips Lighting representative. Quick-ship SKUs apply to the United States only.

## Options and accessories

Dimming capability:
$0-10 \mathrm{~V}$ or Lutron dimming
(see LED-DIM spec sheet).
Emergency capability:
Inverter (see CP-60150 spec sheet

- ZI series). Integral (see LED-EM
spec sheet - add "EM" suffix).
Sloped ceilings:
Compatible with slope ceiling adapters
(see SCA spec sheet).
Mounting bars:
1950 18" long (set of 2)
$195127^{\prime \prime}$ long (set of 2)
7994 Wood joist telescoping
mounting bars (minimum
$13^{1 / 4^{n}}$ and maximum $24^{1 / 2^{n}}$ )
T-Bar anchor clips:
1956 For $18^{\prime \prime} / 27^{4}$ mounting bars (set of 4 )
Decorative elements:
D7A Consult 7in Vetro spec sheet


## C7L-DL-VB Calculite LED

7" Round Aperture, Downlight, Narrow Medium \& Wide Beam 1500/2000/3500/6000lm



## Features

Celling cutout: $7^{\prime \prime}$ aperture; $8^{\prime \prime}$ ( 203 mm ). Depth: $8^{5 / 8^{\prime \prime}}(219 \mathrm{~mm})$ including light engine. Power connection: Attaches to light engine via push-in connector (on frame). Removable cover provides access.
Junction box: Allows inspection from below. UL listed for 8 No. 12 AWG, $90^{\circ} \mathrm{C}$ through branch circuit connectors.
Thermal protector: Meets NEC \& UL requirements. Do not install insulation above or within $3^{\prime \prime}$ of luminaire.
Thermal Management: Heat sink and thermal design along with the clean room assembly process ensures specified performance levels are maintained.

## ENERGY STAR ${ }^{*}$

All new construction ( $N$ ) frame-in and trim kit configurations are ENERGY STAR ${ }^{\varepsilon}$ certified except for the following:

- Trim Kits: Champagne bronze (CCZ)
reflector finishes.
- All 3500 lumen (35) optics configurations.
- All 6000 lumen (50) optics configurations.
- All emergency (EM) configurations.
- All 347V configurations.


## Electrical

Electronic power supply: 120 or 277V, $50 / 60 \mathrm{~Hz}$, encased, overload and short circuit protected, thermal regulation to protect against overheating, sound rating. " $A$ ", $-20^{\circ} \mathrm{C}$ minimum starting temperature. Rated IIfe: Offers 60,000 hour rated life ( 3500 lm offer 40,000 hour rated life) at 70\% lumen maintenance (L70). Tested in accordance with IES LM-80-08 and TM-21-11.

| Frame-In kIt <br> Electical specifications | Input volts | Input freq. | Input current | LED drive current | Input power* | LED power | THD factor | Power factor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Citiouvaziov | 120 V | 50/60Hz | 0.16A | 300 mA | 18W | 15W | <15\% | $>0.90$ |
| 1500 lm w/0-10V dimming | 277 V | 50/60Hz | 0.08A | 300 mA | 18W | 15W | <20\% | $>0.90$ |
| C7L20 | 120 V | 50/60Hz | 0.20A | 400 mA | 25W | 20W | <15\% | $>0.90$ |
| $20001 \mathrm{~m} / \mathrm{/}-10 \mathrm{~V}$ dimming | 277 V | 50/60Hz | 0.09A | 400mA | 25W | 20w | <15\% | $>0.90$ |
| C7L35N_VBzioV | 120 V | 50/60Hz | 0.35A | 700 mA | 41W | 35w | <10\% | $>0.95$ |
| 3500tm w/0-10V dimming | 277 V | 50/60Hz | 0.16A | 700 mA | 41W | 35W | <15\% | $>0.90$ |

$\cdots 5 \%$
$\square$ = Applies to both New Construction ( $\mathbf{N}$ ) and Remodeler ( $\mathbf{R}$ ) Installations. - Applies to both 120 V (1) and 277V (2) Input voltages.

## Labels

cULus, I.B.E.W.
Suitable for wet locations.
5 year warranty.
ENERGY STAR ${ }^{\text {c }}$ certified
(see exclusions to the left).

## C7L-DL-VB Calculite LED

## 7" Round Aperture, Downlight, Narrow Medium \& Wide Beam 1500/2000/3500/6000lm



## Features

Celling cutout: $7^{\prime \prime}$ aperture; $8^{n}$ ( 203 mm ). Depth: $8^{1 / 4^{\prime \prime}}(210 \mathrm{~mm})$ including light engine. Power connection: Attaches to light engine via push-in connector (on frame). Removable cover provides access.
Junction box: Allows inspection from below. UL listed for 8 No. 12 AWG, $90^{\circ} \mathrm{C}$ through branch circuit connectors.
Thermal protector: Meets NEC \& UL requirements. Do not install insulation above or within $3^{\prime \prime}$ of luminaire.
Thermal Management: Heat sink and thermal design along with the clean room assembly process ensures specified performance levels are maintained.

## Electrical

Electronic power supply: 120 or 277V, $50 / 60 \mathrm{~Hz}$, encased, overload and short circuit protected, thermal regulation to protect against overheating, sound rating. " $A$ ", $-20^{\circ} \mathrm{C}$ minimum starting temperature.
Rated life: Offers 60,000 hour rated life at
$70 \%$ lumen maintenance (L70). Tested in
accordance with IES LM-80-08 and TM-21-11.

| Frame-Inkit <br> Electrical specifications | Input volts | Input freq. | Input current | LED drive current | Input power* | LED power | THD factor | $\begin{aligned} & \text { Power } \\ & \text { factor } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C7L50N_VBz10V | 120 V | 50/60Hz | 0.58A | 650 mA | 70w | 57W | <20\% | >0.90 |
| 60001 m w/0-10V dimming | 7 | 50/60Hz | 0.27A | 650 mA | 70w | 57w | <20\% | >0.90 |

- $\%$.5\%
_ = Applies to both 120 V (1) and 277V (2) Input voltages.


## C7L－DL－VB Calculite LED

## 7＂Round Aperture，Downlight，Narrow Medium \＆Wide Beam 1500／2000／3500／6000lm

## 18W LED，3500K， $55^{\circ}$ Medium 1500 lumen



Frame：C7L15NUVBZ10V Trim：C7L1520DL35KMCLWVB
CCT $^{1}$ ．

Output lumens： Input watts²： Efficacy： CRI： Spacing Crit．： Beam Spread： Report $\mathrm{no}^{3}$ ：

| Zone | Lumens \％ | \％tuminalie |
| :---: | :---: | :---: |
| 0－30 | 1459 | 85．1\％ |
| 0－40 | 1683 | 98．1\％ |
| 0－60 | 1714 | 99．9\％ |
| 0－90 | 1716 | 100．0\％ |
| Angle | Mean CP | Lumeas |
| 0 | 2450 |  |
| 5 | 2419 | 229 |
| 10 | 2363 |  |
| 15 | 2255 | 617 |
| 20 | 1869 |  |
| 25 | 1386 | 613 |
| 30 | 734 |  |
| 35 | 335 | 224 |
| 40 | 124 |  |
| 45 | 25 | 29 |
| 50 | 4 |  |
| 55 | 2 | 2 |
| 60 | 1 |  |
| 65 | 1 | 1 |
| 70 | 1 |  |
| 75 | 0 | 0 |
| 80 | 0 |  |
| 85 | 0 | 0 |
| 90 | 0 |  |


| Single unit data |  |  |
| :---: | :---: | :---: |
| Height to <br> lighted plane | Initial center beam <br> foot－candles | Beam <br> diameter（ft） |
| $5^{\prime}$ | 98 | $4.0^{\prime}$ |
| $6^{\prime}$ | 68 | $4.8^{\prime}$ |
| $7^{\prime}$ | 50 | $5.6^{\prime}$ |
| $8^{\prime}$ | 38 | $6.4^{\prime}$ |
| $9^{\prime}$ | 30 | $7.2^{\prime}$ |

－Beam diameter is where foot－candles drop to $50 \%$ of maximum．

Muttiple unit data－RCR 2

| Spacing <br> on center | Inltial center beam <br> foot－candles | Watts <br> per sq ft |
| :---: | :---: | :---: |
| $5^{\prime}$ | 79.5 | 0.81 |
| $6^{\prime}$ | 52.2 | 0.53 |
| $7^{\prime}$ | 37.3 | 0.38 |
| $8^{\prime}$ | 31.0 | 0.32 |
| $9^{\prime}$ | 24.8 | 0.25 |

$38^{\prime} \times 38^{\prime} \times 10^{\prime}$ Room，Workplane $\mathbf{2 . 5}^{\prime}$ above noor，80／50／20\％Reflectances

| Finish Adjust．factors | CCT Adjust．factors |
| :---: | :---: |
| CL $=100 \%$ | $4000 \mathrm{~K}=103 \%$ |
| CCL $=95 \%$ | $3500 \mathrm{~K}=100 \%$ |
| $C C O=87 \%$ | $3000 \mathrm{~K}=97 \%$ |
| $C C Z=63 \%$ | 2700K $=87 \%$ |
| $W H=87 \%$ |  |


| Ceiling | 80\％ |  |  |  | 70\％ |  | 50\％ |  | 30\％ |  | 0\％ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method－Effective floor reflectance $=20 \%$ |  |  |  |  |  |  |  |  |  |  |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1 | 114 | 111 | 109 | 107 | 109 | 105 | 105 | 102 | 102 | 99 | 95 |
| 올 2 | 109 | 105 | 101 | 98 | 103 | 97 | 100 | 95 | 97 | 93 | 89 |
| ¢ 3 | 104 | 99 | 94 | 91 | 97 | 90 | 95 | 88 | 92 | 87 | 84 |
| え 4 | 100 | 93 | 88 | 84 | 92 | 84 | 90 | 83 | 88 | 82 | 80 |
| さ 5 | 95 | 88 | 83 | 79 | 87 | 78 | 85 | 78 | 84 | 77 | 75 |
| ${ }_{6} 6$ | 91 | 83 | 78 | 74 | 83 | 74 | 81 | 73 | 80 | 73 | 71 |
| \％ 7 | 87 | 79 | 74 | 70 | 78 | 70 | 77 | 69 | 76 | 69 | 67 |
| $\bigcirc$ | 84 | 75 | 70 | 66 | 75 | 66 | 74 | 66 | 73 | 65 | 64 |
| 9 | 80 | 71 | 66 | 63 | 71 | 62 | 70 | 62 | 69 | 62 | 61 |
| 10 | 77 | 68 | 63 | 59 | 68 | 59 | 67 | 59 | 66 | 59 | 58 |

18W LED，3500K， $70^{\circ}$ Wide 1500 lumen


| Zone | Lumens \％ | \％Luminalre |
| :---: | :---: | :---: |
| 0－30 | 1118 | 64．5\％ |
| 0－40 | 1635 | 94．4\％ |
| 0－60 | 1730 | 99．8\％ |
| 0－90 | 1733 | 100．0\％ |
| Angle | Mean CP | Lumens |
| 0 | 1016 |  |
| 5 | 991 | 99 |
| 10 | 1104 |  |
| 15 | 1274 | 366 |
| 20 | 1441 |  |
| 25 | 1458 | 653 |
| 30 | 1249 |  |
| 35 | 850 | 518 |
| 40 | 402 |  |
| 45 | 52 | 90 |
| 50 | 7 |  |
| 55 | 5 | 4 |
| 60 | 3 |  |
| 65 | 2 | 2 |
| 70 | 1 |  |
| 75 | 1 | 1 |
| 80 | 0 |  |
| 85 | 0 | 0 |
| 90 | 0 |  |


| Single unit data |  |  |
| :---: | :---: | :---: |
| Height to <br> lighted plane | Initial center beam <br> foot－candles | Beam <br> diameter（ $(t)^{*}$ |
| $5^{\prime}$ | 41 | $5.5^{\prime}$ |
| $6^{\prime}$ | 28 | $6.6^{\prime}$ |
| $7^{\prime}$ | 21 | $7.7^{\prime}$ |
| $8^{\prime}$ | 16 | $8^{\prime}$ |
| $9^{\prime}$ | 13 | $9.9^{\prime}$ |


| Finish Adjust．factors | CCT Adjust．factors |
| :---: | :---: |
| CL $=100 \%$ | $4000 \mathrm{~K}=103 \%$ |
| CCL $=95 \%$ | $3500 \mathrm{~K}=100 \%$ |
| CCD $=87 \%$ | $3000 \mathrm{~K}=97 \%$ |
| $C C Z=63 \%$ | $2700 \mathrm{~K}=87 \%$ |
| WH $=87 \%$ |  |


| Celling | 80\％ |  |  |  | 70\％ |  | 50\％ |  | 30\％ |  | 0\％ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method－Effective floor reflectance $=20 \%$ |  |  |  |  |  |  |  |  |  |  |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1 | 113 | 110 | 108 | 105 | 108 | 104 | 104 | 101 | 100 | 98 | 93 |
| 은 2 | 107 | 102 | 98 | 95 | 101 | 93 | 97 | 91 | 94 | 89 | 86 |
| ¢ 3 | 102 | 95 | 90 | 85 | 93 | 85 | 91 | 83 | 88 | 82 | 79 |
| $\geqq 4$ | 96 | 88 | 82 | 78 | 87 | 77 | 85 | 76 | 83 | 75 | 73 |
| 岩 5 | 91 | 82 | 76 | 71 | 81 | 71 | 79 | 70 | 77 | 69 | 67 |
| $\cup 6$ | 86 | 76 | 70 | 65 | 75 | 65 | 74 | 65 | 72 | 64 | 62 |
| \％ 7 | 81 | 71 | 65 | 60 | 70 | 60 | 69 | 60 | 68 | 59 | 57 |
| $\bigcirc$ | 76 | 66 | 60 | 56 | 66 | 55 | 65 | 55 | 63 | 55 | 53 |
| 9 | 72 | 62 | 56 | 51 | 61 | 51 | 61 | 51 | 60 | 51 | 49 |
| 10 | 68 | 58 | 52 | 48 | 58 | 48 | 57 | 48 | 56 | 47 | 46 |

1．Correlated Color Temperature within specs as defined in ANSI＿NEMA＿ANSLG C78．377－2008：Specifications for the Chromaticity of Solid State Lighting Products
2．Wattage controlled to within $\% .5 \%$ ．
3．Tested using absolute photometry as specified in LM79：IESNA Approved Method for the Electrical and Photometric Measurements of Solid－State Lighting Products．

## C7L-DL-VB Calculite LED

7" Round Aperture, Downlight, Narrow Medium \& Wide Beam 1500/2000/3500/6000lm

## 25W LED, 3500K, $55^{\circ}$ Medium 2000 lumen



Frame: C7L20NIVBZ10V Trim: C7L1520DL35KMCLWVB

| CCT $^{1}$ | 3500 K |
| :--- | :--- |
| Output lumens: | 2209 lms |
| Input watts ${ }^{2}:$ | 25.2 W |
| Efficacy: | $87.7 \mathrm{~mm} / \mathrm{w}$ |
| CRI: | 80 min |
| Spacing Crit:: | 0.8 |
| Beam Spread: | $55^{\circ}$ |
| Report no ${ }^{3}:$ | 705 GFR |


| Zone | Lumens \% | Suminalre |
| :---: | :---: | :---: |
| 0-30 | 1879 | 85.1\% |
| 0-40 | 2167 | 98.1\% |
| 0-60 | 2207 | 99.9\% |
| 0-90 | 2209 | 100.0\% |
| Angle | Mean CP | Lumens |
| 0 | 3153 |  |
| 5 | 3110 | 295 |
| 10 | 3040 |  |
| 15 | 2903 | 794 |
| 20 | 2410 |  |
| 25 | 1785 | 790 |
| 30 | 943 |  |
| 35 | 432 | 288 |
| 40 | 160 |  |
| 45 | 32 | 38 |
| 50 | 5 |  |
| 55 | 3 | 3 |
| 60 | 2 |  |
| 65 | 1 | 1 |
| 70 | 1 |  |
| 75 | 0 | 0 |
| 80 | 0 |  |
| 85 | 0 | 0 |
| 90 | 0 |  |


| Single unit data |  |  |
| :---: | :---: | :---: |
| Height to <br> tighted plane | Initial center beam <br> foot-candles | Beam <br> diameter (ft) |
| $5^{\prime}$ | 126 | $4.0^{\prime}$ |
| $6^{\prime}$ | 88 | $4.8^{\prime}$ |
| 7 | 64 | $5.6^{\prime}$ |
| $8^{\prime}$ | 49 | $6.4^{\prime}$ |
| $9^{\prime}$ | 39 | $7.2^{\prime}$ |


| Finish Adjust. factors | CCT Adjust. factors |
| :---: | :---: |
| CL $=100 \%$ | $4000 \mathrm{~K}=103 \%$ |
| CCL $=95 \%$ | $3500 \mathrm{~K}=100 \%$ |
| $C C D=87 \%$ | $3000 \mathrm{~K}=97 \%$ |
| $C C Z=63 \%$ | $2700 \mathrm{~K}=87 \%$ |
| $W H=87 \%$ |  |


| Ceiling | 80\% |  |  |  | 70\% |  | 50\% |  | 30\% |  | 0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method - Effective floor reflectance $20 \%$ |  |  |  |  |  |  |  |  |  |  |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1 | 114 | 112 | 109 | 107 | 109 | 106 | 105 | 102 | 102 | 99 | 95 |
| 은 2 | 109 | 105 | 101 | 98 | 103 | 97 | 100 | 95 | 97 | 93 | 89 |
| ¢ 3 | 104 | 99 | 94 | 91 | 97 | 90 | 95 | 88 | 92 | 87 | 84 |
| خ 4 | 100 | 93 | 88 | 84 | 92 | 84 | 90 | 83 | 88 | 82 | 80 |
| 厤 5 | 95 | 88 | 83 | 79 | 87 | 79 | 85 | 78 | 84 | 77 | 75 |
| $\bigcirc 6$ | 91 | 83 | 78 | 74 | 83 | 74 | 81 | 73 | 80 | 73 | 71 |
| 87 | 87 | 79 | 74 | 70 | 78 | 70 | 77 | 69 | 76 | 69 | 67 |
| $\propto 8$ | 84 | 75 | 70 | 66 | 75 | 66 | 74 | 66 | 73 | 65 | 64 |
| 9 | 80 | 71 | 66 | 63 | 71 | 62 | 70 | 62 | 69 | 62 | 61 |
| 10 | 77 | 68 | 63 | 59 | 68 | 59 | 67 | 59 | 66 | 59 | 58 |

25W LED, 3500K, $70^{\circ}$ Wide 2000 lumen


| Zonal summary |  |  |  |
| :---: | :---: | :---: | :---: |
| Zone |  |  |  |
| $0-30$ | Lumens | \%Luminalie |  |
| $0-40$ | 2098 | $64.4 \%$ |  |
| $0-60$ | 2220 | $94.3 \%$ |  |
| $0-90$ | 2224 | $100.0 \%$ |  |
|  |  |  |  |
| Angle | Mean CP | Lumens |  |
| 0 | 1304 |  |  |
| 5 | 1267 | 127 |  |
| 10 | 1413 |  |  |
| 15 | 1631 | 468 |  |
| 20 | 1844 |  |  |
| 25 | 1870 | 837 |  |
| 30 | 1604 |  |  |
| 35 | 1095 | 666 |  |
| 40 | 519 |  |  |
| 45 | 66 | 116 |  |
| 50 | 9 |  |  |
| 55 | 6 | 6 |  |
| 60 | 4 |  |  |
| 65 | 3 | 3 |  |
| 70 | 2 |  |  |
| 75 | 1 | 1 |  |
| 80 | 1 | 0 |  |
| 85 | 0 | 0 |  |
| 90 | 0 |  |  |
|  |  |  |  |


| Single unit data |  |  |
| :---: | :---: | :---: |
| Height to <br> lighted plane | Initial center beam <br> foot-candies | Beam <br> diameter $(\mathrm{ft})^{\circ}$ |
| $5^{\prime}$ | 52 | $5.5^{\prime}$ |
| $6^{\prime}$ | 36 | $6.6^{\prime}$ |
| $7^{\prime}$ | 27 | $7.7^{\prime}$ |
| $8^{\prime}$ | 20 | $8.8^{\prime}$ |
| $9^{\prime}$ | 16 | $9.9^{\prime}$ |


| Finish Adjust. factors | CCT Adjust. factors |
| :---: | :---: |
| CL $=100 \%$ | 4000K=103\% |
| CCL $=95 \%$ | $3500 \mathrm{~K}=100 \%$ |
| CCD $=87 \%$ | $3000 \mathrm{~K}=97 \%$ |
| $C C Z=63 \%$ | $2700 \mathrm{~K}=87 \%$ |
| $\mathrm{WH}=87 \%$ |  |


| Celling | 80\% |  |  |  | 70\% |  | 50\% |  | 30\% |  | 0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method - Effective fioor reflectance $=20 \%$ |  |  |  |  |  |  |  |  |  |  |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1 | 113 | 110 | 108 | 106 | 108 | 104 | 104 | 101 | 100 | 98 | 93 |
| 은 2 | 107 | 102 | 98 | 95 | 101 | 93 | 97 | 91 | 94 | 89 | 86 |
| ¢ 3 | 102 | 95 | 90 | 85 | 93 | 85 | 91 | 83 | 88 | 82 | 79 |
|  | 96 | 88 | 82 | 78 | 87 | 77 | 85 | 76 | 83 | 75 | 73 |
| 发 5 | 91 | 82 | 76 | 71 | 81 | 71 | 79 | 70 | 77 | 69 | 67 |
| $\bigcirc$ | 86 | 76 | 70 | 65 | 75 | 65 | 74 | 65 | 72 | 64 | 62 |
| ${ }_{0} 7$ | 81 | 71 | 65 | 60 | 70 | 60 | 69 | 60 | 68 | 59 | 57 |
| $\times 8$ | 76 | 66 | 60 | 56 | 66 | 55 | 65 | 55 | 63 | 55 | 53 |
| 9 | 72 | 62 | 56 | 51 | 61 | 51 | 60 | 51 | 60 | 51 | 49 |
| 10 | 68 | 58 | 52 | 48 | 58 | 48 | 57 | 48 | 56 | 47 | 46 |

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Wattage controlled to within $+.5 \%$.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

## C7L-DL-VB Calculite LED

## 7" Round Aperture, Downlight, Narrow Medium \& Wide Beam 1500/2000/3500/6000lm

41W LED, 3500K, $55^{\circ}$ Medium 3500 lumen


Frame: C7L35N1VBZ10V THm: C7L1520DL35KMCLWVB
CCT ${ }^{1}$ 3500K

Output lumens: 3434 lms
nnput watts ${ }^{2}$. $\quad 40.5 \mathrm{~W}$
Efficacy: $\quad 84.8 \mathrm{tm} / \mathrm{w}$
CRI:
Spacing Crit.
pacing Crit.:
Beam Spread
Report no':

| Zone | Lumens \% | Kluminaire |
| :---: | :---: | :---: |
| 0-30 | 2920 | 85.0\% |
| 0-40 | 3370 | 98.1\% |
| 0-60 | 3432 | 99.9\% |
| 0-90 | 3434 | 100.0\% |
| Angle | Mean CP | Lumens |
| 0 | 4899 |  |
| 5 | 4832 | 458 |
| 10 | 4724 |  |
| 15 | 4511 | 1234 |
| 20 | 3746 |  |
| 25 | 2772 | 1228 |
| 30 | 1475 |  |
| 35 | 674 | 449 |
| 40 | 249 |  |
| 45 | 50 | 58 |
| 50 | 7 |  |
| 55 | 4 | 4 |
| 60 | 3 |  |
| 65 | 2 | 2 |
| 70 | 1 |  |
| 75 | 1 | 1 |
| 80 | 0 |  |
| 85 | 0 | 0 |
| 90 | 0 |  |


| Single unit data |  |  |
| :---: | :---: | :---: |
| Helght to <br> lighted plane | Initial center beam <br> (oot-candles | Beam <br> diameter (ft) |
| $5^{\prime}$ | 196 | $4.0^{\prime}$ |
| $6^{\prime}$ | 136 | $4.8^{\prime}$ |
| $7^{\prime}$ | 100 | $5.6^{\prime}$ |
| $8^{\prime}$ | 77 | $6.4^{\prime}$ |
| $9^{\prime}$ | 60 | $7.2^{\prime}$ |

- Beam diameter is where foot-candles drop to $50 \%$ of maximum.

Multiple unit data - RCR 2

## Spacing Initial centerbeam Watts

| $5^{\prime}$ | 159.1 | 1.80 |
| :---: | :---: | :---: |
| $6^{\prime}$ | 104.4 | 1.18 |
| $7^{\prime}$ | 74.6 | 0.84 |
| $8^{\prime}$ | 62.2 | 0.70 |
| $9^{\prime}$ | 49.7 | 0.56 |

$38^{\prime} \times 38^{\prime} \times 10^{\prime}$ Room, Workplane 2.5' above foor, 80/50/20\% Reflectances


| Ceiling | 80\% |  |  |  | 70\% |  | 50\% |  | 30\% |  | 0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method-Effective floor reflectance $=20 \%$ |  |  |  |  |  |  |  |  |  |  |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1 | 114 | 112 | 109 | 107 | 109 | 106 | 105 | 102 | 102 | 99 | 95 |
| 은 2 | 109 | 105 | 101 | 98 | 103 | 97 | 100 | 95 | 97 | 93 | 89 |
| ¢ 3 | 104 | 99 | 94 | 91 | 97 | 90 | 95 | 88 | 92 | 87 | 84 |
| $\grave{4}$ | 100 | 93 | 88 | 84 | 92 | 84 | 90 | 83 | 88 | 82 | 80 |
| $\sum_{\substack{10}} 5$ | 95 | 88 | 83 | 79 | 87 | 79 | 85 | 78 | 84 | 77 | 75 |
| ${ }^{0} 6$ | 91 | 83 | 78 | 74 | 83 | 74 | 81 | 73 | 80 | 73 | 71 |
| \% 7 | 87 | 79 | 74 | 70 | 78 | 70 | 77 | 69 | 76 | 69 | 67 |
| \% 8 | 84 | 75 | 70 | 66 | 75 | 66 | 74 | 66 | 73 | 65 | 64 |
| 9 | 80 | 71 | 66 | 63 | 71 | 62 | 70 | 62 | 69 | 62 | 61 |
| 10 | 77 | 68 | 63 | 59 | 68 | 59 | 67 | 59 | 66 | 59 | 58 |

41W LED, 3500K, $70^{\circ}$ Wide 3500 lumen


| Zone | Lumens \% | \%Luminalre |
| :---: | :---: | :---: |
| 0-30 | 2217 | 64.3\% |
| 0-40 | 3249 | 94.3\% |
| 0-60 | 3439 | 99.8\% |
| 0-90 | 3446 | 100.0\% |
| Angle | Mean CP | Lumens |
| 0 | 2019 |  |
| 5 | 1962 | 197 |
| 10 | 2186 |  |
| 15 | 2523 | 724 |
| 20 | 2853 |  |
| 25 | 2896 | 1297 |
| 30 | 2488 |  |
| 35 | 1694 | 1032 |
| 40 | 804 |  |
| 45 | 107 | 181 |
| 50 | 14 |  |
| 55 | 10 | 9 |
| 60 | 7 |  |
| 65 | 4 | 4 |
| 70 | 3 |  |
| 75 | 2 | 2 |
| 80 | 1 |  |
| 85 | 0 | 0 |
| 90 | 0 |  |


| Height to lighted plane | Initial center beam foot-candles | $\begin{gathered} \text { Beam } \\ \text { diameter }(f)^{*} \end{gathered}$ |
| :---: | :---: | :---: |
| 5 | 81 | $5.5{ }^{\prime}$ |
| $6{ }^{\prime}$ | 56 | 6.6' |
| 7 | 41 | $7.7{ }^{\prime}$ |
| 8' | 32 | 8.8' |
| $9{ }^{\prime}$ | 25 | $9.9{ }^{\prime}$ |
| - Beam diameter is where foot-candles drop to $50 \%$ of maximum. |  |  |
| Multiple unit data - RCR 2 |  |  |
| Spacing on center | Inttial center beam loot-candies | Watts per sq. ft. |
| $5{ }^{\prime}$ | 155.9 | 1.80 |
| 6 | 102.3 | 1.18 |
| $7{ }^{\prime}$ | 73.1 | 0.84 |
| $8{ }^{\prime}$ | 60.9 | 0.70 |
| 9' | 48.7 | 0.56 |
| $38^{\prime} \times 38^{\prime} \times 10^{\prime}$ Room, Workplane $\mathbf{2 . 5}^{\prime}$ above floor, 80/50/20\% Reflectances |  |  |


| Finish Adjust. factors | CCT Adjust. factors |
| :---: | :---: |
| CL $=100 \%$ | $4000 \mathrm{~K}=103 \%$ |
| CCL $=95 \%$ | $3500 \mathrm{~K}=100 \%$ |
| CCD $=87 \%$ | $3000 \mathrm{~K}=97 \%$ |
| $C C Z=63 \%$ | $2700 \mathrm{~K}=87 \%$ |
| $W H=87 \%$ |  |


| Celling | 80\% |  |  |  | 70\% |  | 50\% |  | 30\% |  | 0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method - Effective floor reflectance $=20 \%$ |  |  |  |  |  |  |  |  |  |  |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1 | 113 | 110 | 108 | 105 | 108 | 104 | 104 | 101 | 100 | 98 | 93 |
| 원 2 | 107 | 102 | 98 | 94 | 100 | 93 | 97 | 91 | 94 | 89 | 86 |
| ¢ 3 | 102 | 95 | 90 | 85 | 93 | 85 | 91 | 83 | 88 | 82 | 79 |
| $\geqq 4$ | 96 | 88 | 82 | 78 | 87 | 77 | 85 | 76 | 83 | 75 | 73 |
| 長 5 | 91 | 82 | 76 | 71 | 81 | 71 | 79 | 70 | 77 | 69 | 67 |
| $\bigcirc 6$ | 86 | 76 | 70 | 65 | 75 | 65 | 74 | 65 | 72 | 64 | 62 |
| \% 7 | 81 | 71 | 65 | 60 | 70 | 60 | 69 | 60 | 68 | 59 | 57 |
| $\underset{\sim}{8} 8$ | 76 | 66 | 60 | 55 | 66 | 55 | 65 | 55 | 63 | 55 | 53 |
| 9 | 72 | 62 | 56 | 51 | 61 | 51 | 60 | 51 | 60 | 51 | 49 |
| 10 | 68 | 58 | 52 | 48 | 58 | 48 | 57 | 47 | 56 | 47 | 46 |

1. Correlated Color Temperature within specs as defined In ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Wattage controlled to within $\% .5 \%$.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electical and Photometric Measurements of Solid-State Lighting Products.

## C7L-DL-VB Calculite LED

7" Round Aperture, Downlight, Narrow Medium \& Wide Beam 1500/2000/3500/60001m

## 69W LED, 3500K, $20^{\circ}$ Narrow 6000 lumen



Frame: C7L5ON1VBZ10V Trim: C7L50DL35KNCLWVB
$\mathrm{CCT}^{2}$

Output lumens: Input watts²:
Efficacy: CRI:
Spacing Crit.:
Beam Spread:
Report no:
3500 K
6174 tms 69.4 W 69.4 W
$89.0 \mathrm{tm} / \mathrm{w}$ 80 min
$20^{\circ}$
327GFR

| Zonal summary |  |  | Single unit data |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Zone | Lumens \% | \%luminalre | Height to lighted plane | Initial center beam foot-candies | Beam diameter ( ft$)^{*}$ |
| 0-30 | 5902 | 95.6\% |  |  |  |
| 0-40 | 6133 | 99.3\% | $5 '$ | 1390 | $1.5{ }^{\prime}$ |
| 0-60 | 6169 | 99.9\% | 6 ' | 965 | $1.8{ }^{\prime}$ |
| 0-90 | 6174 | 100.0\% | 7 | 709 | 2.1 |
|  |  |  | 8 | 543 | $2.4{ }^{\prime}$ |
| Angle | Mean CP | P Lumens | $9{ }^{\prime}$ | 429 | $2.7{ }^{\prime}$ |

Beam diameter is where foot-candles
drop to $50 \%$ of maximum.
Multiple unit data - RCR 2

$$
1276
$$

$$
231
$$

$$
33
$$

$$
3
$$

$$
2
$$

$$
2
$$

| Spacing <br> on center | Initial center beam <br> loot-candles | Watts <br> persq ft |
| :---: | :---: | :---: |
|  |  | 3.08 |


| $5^{\prime}$ | 294 | 3.08 |
| :---: | :---: | :---: |
| $6^{\prime}$ | 193 | 2.02 |
| $7^{\prime}$ | 138 | 1.44 |
| $8^{\prime}$ | 115 | 1.20 |
| $9^{\prime}$ | 92 | 0.96 |

$38^{\prime} \times 38^{\prime} \times 10^{\prime}$ Room, Workplane 2.5' above floor, 80/50/20\% Reflectances
1

| Finish Adjust. factors | CCT Adjust. factors |
| :---: | :---: |
| CL $=100 \%$ | $4000 \mathrm{~K}=103 \%$ |
| CCL $=95 \%$ | $3500 \mathrm{~K}=100 \%$ |
| $C C O=87 \%$ | $3000 \mathrm{~K}=97 \%$ |
| $C C Z=63 \%$ | $2700 \mathrm{~K}=87 \%$ |
| $\mathrm{WH}=87 \%$ |  |


| Ceiling | 80\% |  |  |  | 70\% |  | 50\% |  | 30\% |  | 0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method-Effective floor reflectance * 20\% |  |  |  |  |  |  |  |  |  |  |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1 | 115 | 113 | 111 | 109 | 111 | 108 | 107 | 104 | 103 | 101 | 97 |
| 은 | 111 | 108 | 105 | 102 | 106 | 101 | 103 | 99 | 100 | 97 | 94 |
| ¢ 3 | 108 | 103 | 100 | 97 | 102 | 96 | 100 | 95 | 97 | 93 | 91 |
| 入 4 | 105 | 99 | 95 | 92 | 98 | 92 | 96 | 91 | 94 | 90 | 88 |
| 歪 5 | 102 | 96 | 92 | 89 | 95 | 88 | 93 | 88 | 92 | 87 | 85 |
| U 6 | 99 | 93 | 88 | 85 | 92 | 85 | 91 | 85 | 89 | 84 | 83 |
| ${ }_{0} 7$ | 96 | 90 | 86 | 83 | 89 | 82 | 88 | 82 | 87 | 82 | 80 |
| ¢ 8 | 93 | 87 | 83 | 80 | 86 | 80 | 86 | 80 | 85 | 79 | 78 |
| 9 | 91 | 84 | 80 | 78 | 84 | 78 | 83 | 77 | 83 | 77 | 76 |
| 10 | 89 | 82 | 78 | 76 | 82 | 76 | 81 | 75 | 81 | 75 | 74 |

69W LED, 3500K, $55^{\circ}$ Medium 6000 lumen


Frame: C7L50NiVBZIOV Trim: C7L.50DL35KMCLWVB CCT!
Output lumens: Input watts ${ }^{2}$ : Efficacy: Efficac Spacing Crit: Beam Spiead: Report no:

| Zone | Lumens \% | \%Luminale |
| :---: | :---: | :---: |
| 0-30 | 5171 | 86.7\% |
| 0-40 | 5833 | 97.8\% |
| 0-60 | 5954 | 99.8\% |
| 0-90 | 5963 | 100.0\% |
| Angle | Mean CP | Lumens |
| 0 | 8911 |  |
| 5 | 8195 | 770 |
| 10 | 7673 |  |
| 15 | 7395 | 2052 |
| 20 | 6676 |  |
| 25 | 5541 | 2348 |
| 30 | 2654 |  |
| 35 | 839 | 662 |
| 40 | 421 |  |
| 45 | 80 | 113 |
| 50 | 13 |  |
| 55 | 10 | 8 |
| 60 | 7 |  |
| 65 | 7 | 5 |
| 70 | 4 |  |
| 75 | 3 | 4 |
| 80 | 1 |  |
| 85 | 0 | 1 |
| 90 | 0 |  |


| Single unit data |  |  |
| :---: | :---: | :---: |
| Height to <br> lighted plane | Initial center beam <br> loot-candles | Beam <br> diameter $(f t)^{*}$ |
| $5^{\prime}$ | 356 | $4.0^{\prime}$ |
| $6^{\prime}$ | 248 | $4.8^{\prime}$ |
| $7^{\prime}$ | 182 | $5.6^{\prime}$ |
| $8^{\prime}$ | 139 | $6.4^{\prime}$ |
| $9^{\prime}$ | 110 | $7.2^{\prime}$ |


| Finish Adjust. factors | CCT Adjust. factors |
| :---: | :---: |
| CL $=100 \%$ | $4000 \mathrm{~K}=103 \%$ |
| CCL $=95 \%$ | $3500 \mathrm{~K}=100 \%$ |
| CCD $=87 \%$ | $3000 \mathrm{~K}=97 \%$ |
| $C C Z=63 \%$ | $2700 \mathrm{~K}=87 \%$ |
| $W H=87 \%$ |  |


| Celling | 80\% |  |  |  | 70\% |  | 50\% |  | 30\% |  | 0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method-Effective floor reflectance $=20 \%$ |  |  |  |  |  |  |  |  |  |  |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1 | 114 | 111 | 109 | 107 | 109 | 105 | 105 | 102 | 102 | 99 | 95 |
| 윤 2 | 109 | 105 | 101 | 98 | 103 | 97 | 100 | 95 | 97 | 93 | 89 |
| ¢ 3 | 104 | 98 | 94 | 90 | 97 | 90 | 95 | 88 | 92 | 87 | 84 |
| $\geqq 4$ | 100 | 93 | 88 | 84 | 92 | 84 | 90 | 83 | 88 | 82 | 79 |
| ट 5 | 95 | 88 | 83 | 79 | 87 | 78 | 85 | 78 | 84 | 77 | 75 |
| U 6 | 91 | 83 | 78 | 74 | 82 | 74 | 81 | 73 | 80 | 73 | 71 |
| ${ }_{0} 7$ | 87 | 79 | 73 | 70 | 78 | 69 | 77 | 69 | 76 | 69 | 67 |
| $\stackrel{1}{4} 8$ | 83 | 75 | 69 | 66 | 74 | 66 | 73 | 65 | 72 | 65 | 64 |
| 9 | 80 | 71 | 66 | 62 | 71 | 62 | 70 | 62 | 69 | 62 | 60 |
| 10 | 77 | 68 | 63 | 59 | 67 | 59 | 67 | 59 | 66 | 59 | 57 |

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Wattage controlled to within $\% .5 \%$.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electical and Photometric Measurements of Solid-State Lighting Products.

## C7L-DL-VB Calculite LED

7" Round Aperture, Downlight, Narrow Medium \& Wide Beam 1500/2000/3500/6000lm

## 69W LED, 3500K, $70^{\circ}$ Wide 6000 lumen



Frame: C7L50N1VBZIOV Trm:C7L50DL35KWCLWVB

(pullut 5889 ms
$\begin{array}{ll}\text { Input watts }{ }^{2} \text { : } & 69.2 \mathrm{~W} \\ \text { Efficacy: } & 85.1 \mathrm{tm} / \mathrm{w}\end{array}$
CRI: $\quad 80 \mathrm{mln}$ Spacing Crit.: Beam Spread: Report no':

| Zone | Lumens \% | \% Luminalre |
| :---: | :---: | :---: |
| 0-30 | 4013 | 68.1\% |
| 0-40 | 5608 | 95.2\% |
| 0-60 | 5881 | 99.9\% |
| 0-90 | 5889 | 100.0\% |
| Angle | Mean CP | Lumeas |
| 0 | 4197 |  |
| 5 | 4120 | 404 |
| 10 | 4350 |  |
| 15 | 4705 | 1348 |
| 20 | 5106 |  |
| 25 | 5077 | 2261 |
| 30 | 4159 |  |
| 35 | 2538 | 1595 |
| 40 | 1197 |  |
| 45 | 150 | 265 |
| 50 | 11 |  |
| 55 | 10 | 8 |
| 60 | 7 |  |
| 65 | 4 | 5 |
| 70 | 3 |  |
| 75 | 2 | 2 |
| 80 | 1 |  |
| 85 | 0 | 0 |
| 90 | 0 |  |


| Height to lighted plane | Initial center beam foot-candies | Beam diameter ( ft$)^{\text {* }}$ |
| :---: | :---: | :---: |
| $5^{\prime}$ | 168 | 5.5 |
| 6 | 117 | $6.6{ }^{\circ}$ |
| $7{ }^{\prime}$ | 86 | 7.7 |
| $8{ }^{\prime}$ | 66 | 8.8' |
| $9 '$ | 52 | 9.9' |
| - Beam diameter is where foot-candles drop to $50 \%$ of maximum. |  |  |
| Multiple unit data - RCR 2 |  |  |
| Spacing on center | Initial center beam foot-candles | Watts persq.it. |
| $5^{\prime}$ | 268 | 3.07 |
| $6 '$ | 176 | 201 |
| 7 | 125 | 1.44 |
| $8{ }^{\prime}$ | 105 | 1.20 |
| $9 '$ | 84 | 0.96 |

$38^{\prime} \times 38^{\prime} \times 10^{\prime}$ Room, Workplane $2.5^{\prime}$ above foor, 80/50/20\% Reflectances

| Finish Adjust. factors | CCT Adjust. factors |
| :---: | :---: |
| CL $=100 \%$ | $4000 \mathrm{~K}=103 \%$ |
| CCL $=95 \%$ | $3500 \mathrm{~K}=100 \%$ |
| $C C D=87 \%$ | $3000 \mathrm{~K}=97 \%$ |
| $C C Z=63 \%$ | $2700 \mathrm{~K}=87 \%$ |
| $W H=87 \%$ |  |


| Ceiling | 80\% |  |  |  | 70\% |  | 50\% |  | 30\% |  | 0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method-Effective floor reflectance $=20 \%$ |  |  |  |  |  |  |  |  |  |  |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1 | 113 | 111 | 108 | 106 | 108 | 104 | 104 | 101 | 101 | 98 | 93 |
| 은 2 | 108 | 103 | 99 | 95 | 101 | 94 | 98 | 92 | 95 | 90 | 86 |
| ¢ 3 | 102 | 95 | 90 | 86 | 94 | 86 | 91 | 84 | 89 | 83 | 80 |
| さ 4 | 97 | 89 | 83 | 79 | 88 | 78 | 85 | 77 | 83 | 76 | 74 |
| 厤 5 | 91 | 83 | 77 | 72 | 82 | 72 | 80 | 71 | 78 | 71 | 69 |
| $\bigcirc 6$ | 86 | 77 | 71 | 67 | 76 | 66 | 75 | 66 | 74 | 66 | 64 |
| 87 | 82 | 72 | 66 | 62 | 72 | 61 | 70 | 61 | 69 | 61 | 59 |
| $\underset{\sim}{8} 8$ | 78 | 68 | 61 | 57 | 67 | 57 | 66 | 57 | 65 | 57 | 55 |
| 9 | 74 | 63 | 57 | 53 | 63 | 53 | 62 | 53 | 61 | 53 | 51 |
| 10 | 70 | 60 | 54 | 50 | 59 | 50 | 58 | 49 | 58 | 49 | 48 |

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CalculiteLED-7in-Downight-C7LOLVB 09/15 page 9 of 9

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Imported by: Philips Lighting,
A diviston of Philips Electronics Ltd.
281 Hillmount Rd, Markham, ON, Canada L6C 2 S3
Tel. 800-668-9008




Calculite LED 7" features an LED array of high brightness white light LEDs. The new LED boards in Calculite LED ensure a less than 2-step SDCM color variation between luminaires.

Complete product $=$ Frame-in kit + Trim kit Lumen package for the frame-in kit must match the trim kit.

Frame-in kit
example: C7LISNUVBZIOV

| Series |  | Lumens$\square$ | Installation$\square$ | Input voltage$\square$ |  | Version <br> VB | Dimming$\square$ | Options ${ }^{5}$$\square$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |
| C7L | Calculite 7" LED round aperture | 15 l 500 lm | N New construction <br> R Remodeler | U | Universal (120/277V) | VB Version B | Z10V 0-10V dimming LD Lutron driver | EM Emergency' LC Chicago Plenum ${ }^{3}$ |
|  |  | 20 20001m 35 35001m 506000 lm | N New construction <br> R Remodeler ${ }^{6}$ |  | $\begin{aligned} & 120 \mathrm{~V} \\ & 277 \mathrm{~V} \end{aligned}$ | VB Version B | Z10V 0-10V dimming LD Lutron driver | EM Emergency ${ }^{1}$ LC Chicago Plenum ${ }^{3}$ |
| C7L | Calculite 7" LED round aperture (347v configurations) | 15 1500 Im 202000 lm 35 35001m | N New construction R Remodeler |  | 120 V | VB Version B | Z10V 0-10V dimming | -347 347V (for Canada) ${ }^{2}$ |
|  |  | 506000 lm | N New construction | 2 | 277V | VB Version B | Z10V 0-10V dimming | -347 347V (for Canada) ${ }^{2}$ |
| CUL | Calculite LED Universal aperture | 15 15001m | J J-box mount retrofit | U | Universal (120/277V) | VB Version B | Z10V 0-10V dimming <br> Existing wiring will determine If dimming is an option. |  |
|  |  | 202000 tm | J J-box mount retrofit |  | $\begin{aligned} & 120 \mathrm{~V} \\ & 277 \mathrm{~V} \end{aligned}$ | VB Version B | Z10V 0-10V dimming <br> Existing wiring will determine If dimming is an option. |  |
|  |  | $\begin{array}{\|l\|} \hline 15 \mathrm{l} 500 \mathrm{~lm} \\ 20 \mathrm{2} 200 \mathrm{~lm} \end{array}$ | S Screw-in base retrofit |  | 120 V | VB Version B | Existing wiring will determine If dimming is an option. |  |

Trim kit
example: C7L1520DL35KWCCDPVB

|  |  |  | CCT |  |  |  | Version' |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C7L Calculite 7" LEO round aperture | $\begin{array}{lll} \hline 1520 & 1500 / 2000 / \\ & 3500 \mathrm{~lm} \\ 50 & 60001 \mathrm{~m} \end{array}$ | DL Downligh | 27K 2700K <br> 30K 3000 K <br> 35K 3500K <br> 40K 4000 K | N Narrow, $20^{\circ}$ 0.3 s.c $\mathrm{c}^{\prime}$ M Medium, $55^{\circ}$ $0.8 \mathrm{s.c}$ W Wide. $70^{\circ}$ 1.1 s.c. | CL Clear <br> CCL Comfort clear <br> CCD Comfort clear diffuse <br> CCZ Champagne bronze <br> WH White (painted) | W White <br> (painted) <br> P Polished (matches aperture) <br> FT Flangeless (nush-mount) ${ }^{45}$ | VB Version |
| 1. Consult LED-EM spec sheet for Emergency (EM) option details and restrictions. <br> CA7FMR <br> Not available with Lutron driver (LD) diming. <br> Flangeless trim witin plaster ring accessorx. <br> 2. Consult factory for availability of other $347 \mathrm{~V}(\mathbf{- 3 4 7})$ option configurations. (Required for g,psum instalstiors) <br> 3. Consult factory for availability for other Chicago Plenum (LC) option configurations. Not available for 6000 (50) lumen frame-in kits. <br> 4. Accessory CA7FMR required for gypsum applications and flangelss (FT) trims (minimal $1 / 4{ }^{\prime \prime}$ reflector flange). <br> 5. Available for new construction $(\mathbf{N})$ installation frame-in kits only. <br> 6. Available for 2000 (20) lumen frame-in kits only. <br> 7. Available for $\mathbf{6 0 0 0} \mathbf{( 5 0 )}$ lumen trim kits only. <br> Note: See page 3 for Energy Star' compatibility. <br> CalculiteLED-7in-Downllght-C7LDLVB 09/15 page 1 of 9 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

## C7L-DL-VB Calculite LED

## 7" Round Aperture, Downlight, Narrow Medium \& Wide Beam 1500/2000/3500/6000lm



## Frame-in kits

New construction
Mounting frame: Galvanized stamped steel for dry or plaster ceilings. Vertical adjustment: Light engine adjusts In frame below ceillings up to $1 / \mathrm{m}^{4}$ max. Mounting brackets: Galvanized Steel. Adjustable through aperture. Use $3 / 4$ or $11 / 2^{"}$ lathing channel, $1 / 2^{\text {" }}$ EMT or optional mounting bars (see Options and Accessories for optional mounting bars).

## Remodeler

Compatibility: Flanged downlight only.
Power pack: Swivel junction box for tight plenum spaces. Snap-off covers permits wiring from top.
Spring holder: Galvanized steel. Accepts up to $2 \frac{1}{2^{\prime \prime}}(64 \mathrm{~mm})$ ceiling thickness.

## Retrofit

Compatibility: Downlight only.
Capability: Converts $6^{\prime \prime}(153 \mathrm{~mm})$ or
7 " ( 178 mm ) Lightolier incandescent frame-in kit without additional wiring using existing
Calculite E26 base.
Socket cup support: Spun steel.
Holds Calculite incandescent socket cup. Socket extender: Phenolic E26 base. Connect to existing lamp holder.

CalculiteLED-7in-Downlight-C7LDLVB 09/15

Quick-ship
Philips is committed to providing customers with the products they need when they need them. For Service Smart (2 day) and Spec Smart (2 week) availablility please reference the Philips Luminalre Smart Service Guide or contact your Philips Lighting representative. Quick-ship SKUs apply to the United States only.

## Options and accessories

Dimming capability:
$0-10 \mathrm{~V}$ or Lutron dimming
(see LED-DIM spec sheet)
Emergency capability:
Inverter (see CP-60150 spec sheet

- ZI series). Integral (see LED-EM
spec sheet - add "EM" suffix).
Sloped ceilings:
Compatible with slope ceiling adapters
(see SCA spec sheet).
Mounting bars:
1950 18" long (set of 2)
1951 27" long (set of 2)
7994 Wood joist telescoping mounting bars (minimum $13^{1 / 4^{\prime \prime}}$ and maximum $24^{1 / 2^{\prime \prime} \text { ) }}$
T-Bar anchor clips:
1956 For $18^{\prime \prime} / 27^{\prime \prime}$ mounting bars (set of 4)
Decorative elements:
D7A Consult 7in Vetro spec sheet


## C7L-DL-VB Calculite LED

7" Round Aperture, Downlight, Narrow Medium \& Wide Beam 1500/2000/3500/6000lm


## Features

Ceiling cutout: $7^{\prime \prime}$ aperture; $8^{\prime \prime}$ ( 203 mm ). Depth: $85 / 8^{\prime \prime}(219 \mathrm{~mm})$ including light engine. Power connection: Attaches to light engine via push-in connector (on frame). Removable cover provides access.
Junction box: Allows inspection from below. UL listed for 8 No. $12 \mathrm{AWG}, 90^{\circ} \mathrm{C}$ through branch circuit connectors.
Thermal protector: Meets NEC \& UL requirements. Do not install insulation above or within $3^{\prime \prime}$ of luminaire.
Thermal Management: Heat sink and thermal design along with the clean room assembly process ensures specified performance levels are maintained.

## ENERGY STAR ${ }^{\circ}$

All new construction ( N ) frame-in and trim kit configurations are ENERGY STAR ${ }^{\varepsilon}$ certified except for the following:

- Trim Kits: Champagne bronze (CCZ) reflector finishes.
- All 3500 lumen (35) optics configurations.
- All 6000 lumen (50) optics configurations.
- All emergency (EM) configurations.
- All 347V configurations.


## Electrical

Electronic power supply: 120 or 277 V , $50 / 60 \mathrm{~Hz}$, encased, overload and short circuit protected, thermal regulation to protect against overheating, sound rating. " $A$ ", $-20^{\circ} \mathrm{C}$ minimum starting temperature. Rated life: Offers 60,000 hour rated life ( 3500 lm offer 40,000 hour rated life) at 70\% lumen maintenance (L70). Tested in accordance with IES LM-80-08 and TM-21-11.

| Frame-In kit <br> Electical specifications | Input volts | Input freq. | Input current | LED drive current | Input power ${ }^{-}$ | LED power | THD factor | Power factor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C7L15 $\square$ UVEZZ10V 1500 Im w/0-10V dimming | 120 V | 50/60Hz | 0.16A | 300 mA | 18W | 15W | <15\% | >0.90 |
|  | 277 V | 50/60Hz | 0.08A | 300 mA | 18W | 15W | <20\% | $>0.90$ |
| $\begin{aligned} & \text { C7L20 } \square \text { _VBZ10V } \\ & \text { 2000Im w/0-10V dimming } \end{aligned}$ | 120 V | 50/60Hz | 0.20A | 400 mA | 25W | 20W | <15\% | >0.90 |
|  | 277 V | 50/60Hz | 0.09A | 400 mA | 25W | 20w | <15\% | >0.90 |
| C7L35N_VBZ10V <br> 35001m w/0-10V dimming | 120 V | 50/60Hz | 0.35A | 700 mA | 41W | 35w | <10\% | >0.95 |
|  | 277 V | 50/60Hz | 0.16A | 700 mA | 41W | 35W | <15\% | >0.90 |
| $\bullet \dagger .5 \%$ |  |  |  |  |  |  |  |  |
| $\square=$ Applies to both New Construction (N) and Remodeler (R) Installations. <br> _ = Applies to both 120 V (1) and 277V (2) Input voltages. |  |  |  |  |  |  |  |  |

## C7L-DL-VB Calculite LED

## 7" Round Aperture, Downlight, Narrow Medium \& Wide Beam 1500/2000/3500/6000lm



## Features

Ceiling cutout: $7^{\prime \prime}$ aperture; $8^{n}$ ( 203 mm ). Depth: $81 / 4^{n}(210 \mathrm{~mm})$ including light engine. Power connection: Attaches to light engine via push-in connector (on frame). Removable cover provides access.
Junction box: Allows inspection from below. UL listed for $8 \mathrm{No} .12 \mathrm{AWG}, 90^{\circ} \mathrm{C}$ through branch circuit connectors.
Thermal protector: Meets NEC \& UL requirements. Do not install insulation above or within $3^{\prime \prime}$ of luminaire.
Thermal Management: Heat sink and thermal design along with the clean room assembly process ensures specified performance levels are maintained.

## Electrical

Electronic power supply: 120 or 277V, $50 / 60 \mathrm{~Hz}$, encased, overload and short circuit protected, thermal regulation to protect against overheating, sound rating. " $A$ ",
$-20^{\circ} \mathrm{C}$ minimum starting temperature.
Rated life: Offers 60,000 hour rated life at
$70 \%$ lumen maintenance (L70). Tested in
accordance with IES LM-80-08 and TM-21-11.

| Frame-In kIt <br> Electrical specifications | Input <br> volts | Input <br> freq. | Input <br> current | LED drive <br> current | Input <br> power | LED <br> power | THD <br> factor | Power <br> factor |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| C7L50N_VBZ10V | 120 V | $50 / 60 \mathrm{~Hz}$ | 0.58 A | 650 mA | 70 W | 57 W | $<20 \%$ | $>0.90$ |
| 60001m w/0-10V dimming | 277 V | $50 / 60 \mathrm{~Hz}$ | 0.27 A | 650 mA | 70 W | 57 W | $<20 \%$ | $>0.90$ |

_ = Applies to both 120 V (1) and 277V (2) Input voltages.

## C7L-DL-VB Calculite LED

## 7" Round Aperture, Downlight, Narrow Medium \& Wide Beam 1500/2000/3500/6000lm

## 18W LED, 3500K, $55^{\circ}$ Medium 1500 lumen



Frame: C7L15NUVBZ10V Trim: C7L1520DL35KMCLWVB
CCT²
Output lumens: Input watts²:
Efficacy: CRI: Spacing Crit.: Beam Spread: Report no ${ }^{3}$.

| Zone | Lumens \% | \%luminaire |
| :---: | :---: | :---: |
| 0-30 | 1459 | 85.1\% |
| 0-40 | 1683 | 98.1\% |
| 0-60 | 1714 | 99.9\% |
| 0-90 | 1716 | 100.0\% |
| Angle | Mean CP | Lumens |
| 0 | 2450 |  |
| 5 | 2419 | 229 |
| 10 | 2363 |  |
| 15 | 2255 | 617 |
| 20 | 1869 |  |
| 25 | 1386 | 613 |
| 30 | 734 |  |
| 35 | 335 | 224 |
| 40 | 124 |  |
| 45 | 25 | 29 |
| 50 | 4 |  |
| 55 | 2 | 2 |
| 60 | 1 |  |
| 65 | 1 | 1 |
| 70 | 1 |  |
| 75 | 0 | 0 |
| 80 | 0 |  |
| 85 | 0 | 0 |
| 90 | 0 |  |


| Single unit data |  |  |
| :---: | :---: | :---: |
| Height to <br> lighted plane | Initial center beam <br> foot-candles | Beam <br> diameter $(\mathrm{ft})^{*}$ |
| $5^{\prime}$ | 98 | $4.0^{\prime}$ |
| $6^{\prime}$ | 68 | $4.8^{\prime}$ |
| $7^{\prime}$ | 50 | $5.6^{\prime}$ |
| $8^{\prime}$ | 38 | $6.4^{\prime}$ |
| $9^{\prime}$ | 30 | $7.2^{\prime}$ |


| Finish Adjust. factors | CCT Adjust. factors |
| :---: | :---: |
| CL $=100 \%$ | $4000 \mathrm{~K}=103 \%$ |
| CCL $=95 \%$ | $3500 \mathrm{~K}=100 \%$ |
| CCD $=87 \%$ | $3000 \mathrm{~K}=97 \%$ |
| $C C Z=63 \%$ | $2700 \mathrm{~K}=87 \%$ |
| $W H=87 \%$ |  |


| Ceiling | 80\% |  |  |  | 70\% |  | 50\% |  | 30\% |  | 0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method - Effective floor reflectance $=20 \%$ |  |  |  |  |  |  |  |  |  |  |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1 | 114 | 111 | 109 | 107 | 109 | 105 | 105 | 102 | 102 | 99 | 95 |
| 은 2 | 109 | 105 | 101 | 98 | 103 | 97 | 100 | 95 | 97 | 93 | 89 |
| ¢ 3 | 104 | 99 | 94 | 91 | 97 | 90 | 95 | 88 | 92 | 87 | 84 |
| \ 4 | 100 | 93 | 88 | 84 | 92 | 84 | 90 | 83 | 88 | 82 | 80 |
| $\sum_{\text {त0 }} 5$ | 95 | 88 | 83 | 79 | 87 | 78 | 85 | 78 | 84 | 77 | 75 |
| U6 | 91 | 83 | 78 | 74 | 83 | 74 | 81 | 73 | 80 | 73 | 71 |
| E 7 | 87 | 79 | 74 | 70 | 78 | 70 | 77 | 69 | 76 | 69 | 67 |
| $\stackrel{\circ}{\sim}$ | 84 | 75 | 70 | 66 | 75 | 66 | 74 | 66 | 73 | 65 | 64 |
| 9 | 80 | 71 | 66 | 63 | 71 | 62 | 70 | 62 | 69 | 62 | 61 |
| 10 | 77 | 68 | 63 | 59 | 68 | 59 | 67 | 59 | 66 | 59 | 58 |

18W LED, $3500 \mathrm{~K}, 70^{\circ}$ Wide 1500 lumen


Frame: C7L15NUVBZ10V THm: C7L1520DL35KWCLWVB
CCT ${ }^{\text {² }} \quad 3500 \mathrm{~K}$

Output lumens:
Input watts²:
input watts²: $\quad 18.3 \mathrm{~W}$
$\begin{array}{ll}\text { Efficacy: } & 94.7 \mathrm{~lm} / \mathrm{w} \\ \text { CRI: } & 80 \mathrm{~min} \\ \text { Spacing Crit. } & 1.1\end{array}$
Spacing Crit:
Beam Spread: 70
Report no $^{3}$ : 702GFR

| Zone | Lumens \%Luminaire |  |
| :---: | :---: | :---: |
| 0-30 | 1118 | 64.5\% |
| 0-40 | 1635 | 94.4\% |
| 0-60 | 1730 | 99.8\% |
| 0-90 | 1733 | 100.0\% |
| Angle | Mean CP | Lumens |
| 0 | 1016 |  |
| 5 | 991 | 99 |
| 10 | 1104 |  |
| 15 | 1274 | 366 |
| 20 | 1441 |  |
| 25 | 1458 | 653 |
| 30 | 1249 |  |
| 35 | 850 | 518 |
| 40 | 402 |  |
| 45 | 52 | 90 |
| 50 | 7 |  |
| 55 | 5 | 4 |
| 60 | 3 |  |
| 65 | 2 | 2 |
| 70 | 1 |  |
| 75 | 1 | 1 |
| 80 | 0 |  |
| 85 | 0 | 0 |
| 90 | 0 |  |


$\left.$| Single unit data |  |  |
| :--- | :---: | :---: |
| Height to <br> lighted plane |  |  |
| Initial center beam <br> foot-candles |  |  | | Beam |
| :---: |
| diameter (ft) | \right\rvert\,

$38^{\prime} \times 38^{\prime} \times 10^{\prime}$ Room, Workplane 2.5 ' above floor, 80/50/20\% Reflectances


1. Correlated Color Temperature within specs as defined In ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Wattage controlled to within $\div / .5 \%$.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

## C7L-DL-VB Calculite LED

7" Round Aperture, Downlight, Narrow Medium \& Wide Beam 1500/2000/3500/6000lm

25W LED, 3500K, $55^{\circ}$ Medium 2000 lumen


Frame: C7L20NiVBZIOV Trim: C7L1520DL35KMCLWVB CCT ${ }^{\text {L }}$ Output lumens: Input watts ${ }^{2}$ : Efficacy: CRI: Spacing Crit:-: Beam Spread: Report no?:

| Zone | Lumens \% | \%luminatre |
| :---: | :---: | :---: |
| 0-30 | 1879 | 85.1\% |
| 0-40 | 2167 | 98.1\% |
| 0-60 | 2207 | 99.9\% |
| 0-90 | 2209 | 100.0\% |
| Angle | Mean CP | Lumens |
| 0 | 3153 |  |
| 5 | 3110 | 295 |
| 10 | 3040 |  |
| 15 | 2903 | 794 |
| 20 | 2410 |  |
| 25 | 1785 | 790 |
| 30 | 943 |  |
| 35 | 432 | 288 |
| 40 | 160 |  |
| 45 | 32 | 38 |
| 50 | 5 |  |
| 55 | 3 | 3 |
| 60 | 2 |  |
| 65 | 1 | 1 |
| 70 | 1 |  |
| 75 | 0 | 0 |
| 80 | 0 |  |
| 85 | 0 | 0 |
| 90 | 0 |  |


| Height to lighted plane | Initial center beam foot-candles | $\begin{gathered} \text { Beam } \\ \text { diameter }(f t)^{*} \end{gathered}$ |
| :---: | :---: | :---: |
| $5{ }^{\prime}$ | 126 | $4.0^{\prime}$ |
| $6^{\prime}$ | 88 | 4.8 |
| 7 | 64 | 5.6' |
| 8 | 49 | $6.4{ }^{\prime}$ |
| $9^{\prime}$ | 39 | 7.2 |
| - Beam diameter is where foot-candles drop to $50 \%$ of maximum. |  |  |
| Multiple unit data - RCR 2 |  |  |
| Spacing on center | Initial center beam foot-candles | Watts per sq. ft. |
| 5 ' | 102.3 | 1.12 |
| 6 ' | 67.2 | 0.73 |
| 7 | 48.0 | 0.52 |
| $8{ }^{\prime}$ | 40.0 | 0.44 |
| $9{ }^{\prime}$ | 32.0 | 0.35 |

$38^{\prime} \times 38^{\prime} \times 10^{\prime}$ Room, Workplane 2.5 above floor, 80/50/20\% Reflectances

| Finish Adjust. factors | CCT Adjust. factor |
| :---: | :---: |
| CL $=100 \%$ | $4000 \mathrm{~K}=103 \%$ |
| CCL $=95 \%$ | $3500 \mathrm{~K}=100 \%$ |
| CCD $=87 \%$ | $3000 \mathrm{~K}=97 \%$ |
| $C C Z=63 \%$ | $2700 \mathrm{~K}=87 \%$ |
| WH $=87 \%$ |  |


| Ceiling | 80\% |  |  |  | 70\% |  | 50\% |  | 30\% |  | 0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method - Effective floor reflectance $=20$ |  |  |  |  |  |  |  |  |  |  |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1 | 114 | 112 | 109 | 107 | 109 | 106 | 105 | 102 | 102 | 99 | 95 |
| 은 2 | 109 | 105 | 101 | 98 | 103 | 97 | 100 | 95 | 97 | 93 | 89 |
| - 3 | 104 | 99 | 94 | 91 | 97 | 90 | 95 | 88 | 92 | 87 | 84 |
| $\underset{2}{ } 2$ | 100 | 93 | 88 | 84 | 92 | 84 | 90 | 83 | 88 | 82 | 80 |
| 发 5 | 95 | 88 | 83 | 79 | 87 | 79 | 85 | 78 | 84 | 77 | 75 |
| $\bigcirc$ | 91 | 83 | 78 | 74 | 83 | 74 | 81 | 73 | 80 | 73 | 71 |
| ${ }_{8} 7$ | 87 | 79 | 74 | 70 | 78 | 70 | 77 | 69 | 76 | 69 | 67 |
| $\stackrel{8}{4} 8$ | 84 | 75 | 70 | 66 | 75 | 66 | 74 | 66 | 73 | 65 | 64 |
| 9 | 80 | 71 | 66 | 63 | 71 | 62 | 70 | 62 | 69 | 62 | 61 |
| 10 | 77 | 68 | 63 | 59 | 68 |  | 67 | 59 | 66 | 59 | 58 |

25W LED, 3500K, $70^{\circ}$ Wide 2000 lumen


Frame: C7LL20NiVBziov Trim: C7L1520DL35KWCLWVB CCTL
Output lumens: Output lumens: Input watts ${ }^{2}$ : 25.2 W Efficacy: $\quad 88.3 \mathrm{~lm} / \mathrm{w}$ CRI: Spacing Crit: $\quad 1.1$ Beam Spread: $70^{\circ}$ Reportno ${ }^{3}$ : $\quad$ 706GFR

| Zone | Lumens \% | Luminaire |
| :---: | :---: | :---: |
| 0-30 | 1432 | 64.4\% |
| 0-40 | 2098 | 94.3\% |
| 0-60 | 2220 | 99.8\% |
| 0-90 | 2224 | 100.0\% |
| Angle | Mean CP | Lumens |
| 0 | 1304 |  |
| 5 | 1267 | 127 |
| 10 | 1413 |  |
| 15 | 1631 | 468 |
| 20 | 1844 |  |
| 25 | 1870 | 837 |
| 30 | 1604 |  |
| 35 | 1095 | 666 |
| 40 | 519 |  |
| 45 | 66 | 116 |
| 50 | 9 |  |
| 55 | 6 | 6 |
| 60 | 4 |  |
| 65 | 3 | 3 |
| 70 | 2 |  |
| 75 | 1 | 1 |
| 80 | 1 |  |
| 85 | 0 | 0 |
| 90 | 0 |  |


$\left.$| Single unit data |  |  |
| :--- | :---: | :---: |
| Height to <br> lighted plane |  |  |
| Initial center beam <br> foot-candles |  |  | | Beam |
| :---: |
| diameter (ft)* | \right\rvert\,

$38^{\prime} \times 38^{\prime} \times 10^{\prime}$ Room, Workplane $2.5^{\prime}$ above floor, 80/50/20\% Reflectances

1. Correlated Color Temperature within specs as defined In ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Wattage controlled to within $\% 5 \%$.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

## C7L-DL-VB Calculite LED

## 7" Round Aperture, Downlight, Narrow Medium \& Wide Beam 1500/2000/3500/6000lm

41W LED, 3500K, $55^{\circ}$ Medium 3500 lumen


Frame: C7L35NIVBZ10V Trim: C7L1520DL35KMCLWVB CCT: Output lumens: $\quad 3500 \mathrm{~K}$ Input watts ${ }^{2}$ : 3434 ms Efficacy: CRI: Spacing Crit.: Beam Spread: Report no?

| Zone | Lumens \% | \%Luminalte |
| :---: | :---: | :---: |
| 0-30 | 2920 | 85.0\% |
| 0-40 | 3370 | 98.1\% |
| 0-60 | 3432 | 99.9\% |
| 0-90 | 3434 | 100.0\% |
| Angle | Mean CP | Lumens |
| 0 | 4899 |  |
| 5 | 4832 | 458 |
| 10 | 4724 |  |
| 15 | 4511 | 1234 |
| 20 | 3746 |  |
| 25 | 2772 | 1228 |
| 30 | 1475 |  |
| 35 | 674 | 449 |
| 40 | 249 |  |
| 45 | 50 | 58 |
| 50 | 7 |  |
| 55 | 4 | 4 |
| 60 | 3 |  |
| 65 | 2 | 2 |
| 70 | 1 |  |
| 75 | 1 | 1 |
| 80 | 0 |  |
| 85 | 0 | 0 |
| 90 | 0 |  |


| Height to lighted plane | Initial center beam foot-candles | $\begin{gathered} \text { Beam } \\ \text { diameter }(\mathrm{ft})^{*} \end{gathered}$ |
| :---: | :---: | :---: |
| $5^{\prime}$ | 196 | $4.0{ }^{\prime}$ |
| $6^{\prime}$ | 136 | 4.8 ' |
| $7{ }^{\prime}$ | 100 | $5.6{ }^{\prime}$ |
| 8 | 77 | $6.4{ }^{\prime}$ |
| $9^{\prime}$ | 60 | $7.2{ }^{\prime}$ |
| - Beam diameter is where foot-candles drop to $50 \%$ of maximum. |  |  |
| Multiple unit data - RCR 2 |  |  |
| Spacing on center | Initial center beam foot-candles | $\begin{aligned} & \text { Watts } \\ & \text { persq.ft } \end{aligned}$ |
| $5{ }^{\prime}$ | 159.1 | 1.80 |
| $6{ }^{\prime}$ | 104.4 | 1.18 |
| 7 | 74.6 | 0.84 |
| $8^{\prime}$ | 62.2 | 0.70 |
| $9{ }^{\prime}$ | 49.7 | 0.56 |

$38^{\prime} \times 38^{\prime} \times 10^{\prime}$ Room, Workplane 2.5' above floor, 80/50/20\% Refectances

| Finish Adjust. factors | CCT Adjust. factors |
| :---: | :---: |
| CL $=100 \%$ | $4000 \mathrm{~K}=103 \%$ |
| CCL $=95 \%$ | $3500 \mathrm{~K}=100 \%$ |
| $C C D=87 \%$ | $3000 \mathrm{~K}=97 \%$ |
| $C C Z=63 \%$ | $2700 \mathrm{~K}=87 \%$ |
| $\mathrm{WH}=87 \%$ |  |


| ng | 80\% |  |  |  | 70\% |  | 50\% |  | 30\% |  | 0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method - Effective floor reflectance $=20 \%$ |  |  |  |  |  |  |  |  |  |  |
| 0 | $\begin{array}{lllll}119 & 119 & 119 & 119\end{array}$ |  |  |  | 116116 |  | 111111 |  | 106106 |  | 100 |
| 1 | $\begin{array}{rr} 114 & 11 \\ 109 & 10 \end{array}$ | 112109 |  | 107 | 109 | 106 | 105 | 102 | 102 | 99 | 95 |
| 2 |  | 105 | 101 | 98 | 103 | 97 | 100 | 95 | 97 | 93 | 89 |
| c 3 |  | 99 | 94 | 91 | 97 | 90 | 95 | 88 | 92 | 87 | 4 |
| 2 4 | 009 |  | 88 | 84 | 92 | 84 | 90 | 83 | 88 | 82 | 80 |
| 5 |  |  | 83 | 79 | 87 | 79 | 85 | 78 | 84 | 77 | 75 |
| 6 | 918 |  | 78 | 74 | 83 | 74 | 81 | 73 | 80 | 73 | 71 |
|  | 8779 |  | 74 | 70 | 78 | 70 | 77 | 69 | 76 | 69 | 67 |
| ¢ 8 | 8475 |  | 70 | 66 | 75 | 66 | 74 | 66 | 73 | 65 | 64 |
|  | 80 | 75 71 | 66 | 63 | 71 | 62 | 70 | 62 | 69 | 62 | 61 |
| 10 |  | 68 | 63 | 59 | 68 | 59 | 67 | 59 | 66 | 59 | 58 |

41W LED, 3500K, $70^{\circ}$ Wide 3500 lumen


Frame: C7L35N1VBZ10V Trim: C7L1520DL35KWCLWVB

Output lumens: 3500 K Tput watts ${ }^{2}$. 40.5 w Input watts Efficacy: CRI: Spacing Crit Beam Spread: Beam Sptead
Report no

| Zonal summary |  |  |
| :---: | :---: | :---: |
| Zone |  | Lumens |
| \%Luminaire |  |  |
| $0-30$ | 2217 | $64.3 \%$ |
| $0-40$ | 3249 | $94.3 \%$ |
| $0-60$ | 3439 | $99.8 \%$ |
| $0-90$ | 3446 | $100.0 \%$ |
|  |  |  |
| Angle | Mean CP | Lumens |
| 0 | 2019 |  |
| 5 | 1962 | 197 |
| 10 | 2186 |  |
| 15 | 2523 | 724 |
| 20 | 2853 |  |
| 25 | 2896 | 1297 |
| 30 | 2488 |  |
| 35 | 1694 | 1032 |
| 40 | 804 |  |
| 45 | 107 | 181 |
| 50 | 14 |  |
| 55 | 10 | 9 |
| 60 | 7 |  |
| 65 | 4 | 4 |
| 70 | 3 |  |
| 75 | 2 | 2 |
| 80 | 1 | 0 |
| 85 | 0 | 0 |
| 90 | 0 |  |
|  |  |  |


| Single unit data |  |  |
| :---: | :---: | :---: |
| Height to <br> lighted plane | Initial center beam <br> foot-candles | Beam <br> diameter (ft $)^{\circ}$ |
| $5^{\prime}$ | 81 | $5.5^{\prime}$ |
| $6^{\prime}$ | 56 | $6.6^{\prime}$ |
| $7^{\prime}$ | 41 | $7.7^{\prime}$ |
| $8^{\prime}$ | 32 | $8.8^{\prime}$ |
| $9^{\prime}$ | 25 | $9.9^{\prime}$ |


| Finish Adjust. factors | CCT Adjust. factors |
| :---: | :---: |
| CL $=100 \%$ | $4000 \mathrm{~K}=103 \%$ |
| CCL $=95 \%$ | $3500 \mathrm{~K}=100 \%$ |
| CCO $=87 \%$ | $3000 \mathrm{~K}=97 \%$ |
| $C C Z=63 \%$ | $2700 \mathrm{~K}=87 \%$ |
| $\mathrm{WH}=87 \%$ |  |


| Celling | 80\% |  |  |  | 70\% |  | 50\% |  | 30\% |  | 0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method-Effective floor reflectance $=20 \%$ |  |  |  |  |  |  |  |  |  |  |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 00 |
| 1 | 113 | 110 | 108 | 105 | 108 | 104 | 104 | 101 | 100 | 98 | 93 |
| $\bigcirc 2$ | 107 | 102 | 98 | 94 | 100 | 93 | 97 | 91 | 94 | 89 | 86 |
| \% 3 | 102 | 95 | 90 | 85 | 93 | 85 | 91 | 83 | 88 | 82 | 79 |
| $\geq 4$ | 96 | 88 | 82 | 78 | 87 | 77 | 85 | 76 | 83 | 75 | 73 |
| 딛 | 91 | 82 | 76 | 71 | 81 | 71 | 79 | 70 | 77 | 69 | 67 |
| $\bigcirc$ | 86 | 76 | 70 | 65 | 75 | 65 | 74 | 65 | 72 | 64 | 62 |
| ¢ 7 | 81 | 71 | 65 | 60 | 70 | 60 | 69 | 60 | 68 | 59 | 57 |
| ¢ 8 | 76 | 66 | 60 | 55 | 66 | 55 | 65 | 55 | 63 | 55 | 53 |
| 9 | 72 | 62 | 56 | 51 | 61 | 51 | 60 | 51 | 60 | 51 | 49 |
| 10 | 68 | 58 | 52 | 48 | 58 | 48 | 57 | 47 | 56 | 47 | 46 |

1. Correlated Color Temperature within specs as defined In ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Wattage controlled to within $\% .5 \%$.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electical and Photometric Measurements of Solid-State Lighting Products.

## C7L-DL-VB Calculite LED

7" Round Aperture, Downlight, Narrow Medium \& Wide Beam 1500/2000/3500/6000lm

69W LED, 3500K, $20^{\circ}$ Narrow 6000 lumen


Frame: C7L5ONivbziov Trim: C7L50DL35KNCLWVB


Input watts ${ }^{2}$ : $\quad 69.4 \mathrm{~W}$
Efficacy: $\quad 89.0 \mathrm{~lm} / \mathrm{w}$
CRI: $\quad 80 \mathrm{~min}$
Spacing Crit.: $\quad 0.3$
Beam Spread: 20
Report no ${ }^{3}$ : 327GFR

| Zonal summary |  |  | Single unit data |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Zone | Lumens \% | \%Luminaire | Height to lighted plane | Initial center beam foot-candles | $\begin{gathered} \text { Beam } \\ \text { diameter }(\mathrm{ft})^{*} \end{gathered}$ |
| 0-30 | 5902 | 95.6\% |  |  |  |
| 0-40 | 6133 | 99.3\% | $5{ }^{\prime}$ | 1390 | 1.5' |
| 0-60 | 6169 | 99.9\% | 6 ' | 965 | $1.8{ }^{\prime}$ |
| 0-90 | 6174 | 100.0\% | 7 | 709 | 2.1 |
|  |  |  | $8^{\prime}$ | 543 | $2.4{ }^{\prime}$ |
| Angle | Mean CP | Lumens | $9^{\prime}$ | 429 | $2.7{ }^{\prime}$ |

* Beam diameter is where foot-candles drop to $50 \%$ of maximum.
2151
1276
231

$$
33
$$

$$
3
$$

3
2

$$
\text { Multiple unit data - RCR } 2
$$

| Spacing <br> on center | Initial center beam <br> foot-candles | Watts <br> per sq.f. |
| :---: | :---: | :---: |


| $5^{\prime}$ | 294 | 3.08 |
| :--- | :--- | :--- |
| $6^{\prime}$ | 193 | 2.02 |
| $7^{\prime}$ | 138 | 1.44 |
| $8^{\prime}$ | 115 | 1.20 |
| $9^{\prime}$ | 92 | 0.96 |

$38^{\prime} \times 38^{\prime} \times 10^{\prime}$ Room, Workplane $\mathbf{2 . 5}^{\prime}$ above floor, 80/50/20\% Reflectances

| Finish Adjust. factors | CCT Adjust. factors |
| :---: | :---: |
| CL $=100 \%$ | $4000 \mathrm{~K}=103 \%$ |
| CCL $=95 \%$ | $3500 \mathrm{~K}=100 \%$ |
| $C C D=87 \%$ | $3000 \mathrm{~K}=97 \%$ |
| $C C Z=63 \%$ | $2700 \mathrm{~K}=87 \%$ |
| $\mathrm{WH}=87 \%$ |  |


| Ceiling | 80\% |  |  |  | 70\% |  | 50\% |  | 30\% |  | 0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method - Effective floor reflectance $* 20 \%$ |  |  |  |  |  |  |  |  |  |  |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1 | 115 | 113 | 111 | 109 |  | 108 | 107 | 104 | 103 | 101 | 97 |
| 은 2 | 111 | 108 | 105 | 102 | 106 | 101 | 103 | 99 | 100 | 97 | 94 |
| ¢ 3 | 108 | 103 | 100 | 97 | 102 | 96 | 100 | 95 | 97 | 93 | 91 |
| $\geqslant 4$ | 105 | 99 | 95 | 92 | 98 | 92 | 96 | 91 | 94 | 90 | 88 |
|  | 102 | 96 | 92 | 89 | 95 | 88 | 93 | 88 | 92 | 87 | 85 |
| $\bigcirc 6$ | 99 | 93 | 88 | 85 | 92 | 85 | 91 | 85 | 89 | 84 | 83 |
| ${ }_{0} 7$ | 96 | 90 | 86 | 83 | 89 | 82 | 88 | 82 | 87 | 82 | 80 |
| ¢ 8 | 93 | 87 | 83 | 80 | 86 | 80 | 86 | 80 | 85 | 79 | 78 |
| 9 | 91 | 84 | 80 | 78 | 84 | 78 | 83 | 77 | 83 | 77 | 76 |
| 10 | 89 | 82 | 78 | 76 | 82 | 76 | 81 | 75 | 81 | 75 | 74 |

## 69W LED, 3500K, $55^{\circ}$ Medium 6000 lumen



Frame: C7L50N1VBZ10V Trim: C7L.50DL35KMCLWVB

| CCT | 3500 K |
| :--- | :--- |
| Output lumens: | 5963 Ims |
| Input watts ${ }^{2}:$ | 69.2 W |
| Efficacy: | $86.2 \mathrm{Im} / \mathrm{w}$ |
| CR: | 80 min |
| Spacing Crit: | 0.8 |
| Beam Spread: | $55^{\circ}$ |
| Report no ${ }^{3}$ : | 329 GFR |


| Zonal summary |  |  |  |
| :--- | ---: | ---: | ---: |
| Zone | Lumens | \%Luminaire |  |
| $0-30$ | 5171 | $86.7 \%$ |  |
| $0-40$ | 5833 | $97.8 \%$ |  |
| $0-60$ | 5954 | $99.8 \%$ |  |
| $0-90$ | 5963 | $100.0 \%$ |  |
|  |  |  |  |
| Angle | Mean CP | Lumens |  |
| 0 | 8911 |  |  |
| 5 | 8195 | 770 |  |
| 10 | 7673 |  |  |
| 15 | 7395 | 2052 |  |
| 20 | 6676 |  |  |
| 25 | 5541 | 2348 |  |
| 30 | 2654 |  |  |
| 35 | 839 | 662 |  |
| 40 | 421 |  |  |
| 45 | 80 | 113 |  |
| 50 | 13 |  |  |
| 55 | 10 | 8 |  |
| 60 | 7 |  |  |
| 65 | 7 | 5 |  |
| 70 | 4 |  |  |
| 75 | 3 | 4 |  |
| 80 | 1 |  |  |
| 85 | 0 | 1 |  |
| 90 | 0 |  |  |
|  |  |  |  |
|  |  |  |  |


| Single unit data |  |  |
| :---: | :---: | :---: |
| Height to <br> lighted plane | Initial center beam <br> foot-candles | Beam <br> diameter (ft) |
| $5^{\prime}$ | 356 | $4.0^{\prime}$ |
| $6^{\prime}$ | 248 | $4.8^{\prime}$ |
| $7^{\prime}$ | 182 | $5.6^{\prime}$ |
| $8^{\prime}$ | 139 | $6.4^{\prime}$ |
| $9^{\prime}$ | 110 | $7.2^{\prime}$ |



| Ceiling | 80\% |  |  |  | 70\% |  | 50\% |  | 30\% |  | 0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method - Effective floor reflectance $=20 \%$ |  |  |  |  |  |  |  |  |  |  |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1 | 114 | 111 | 109 | 107 | 109 | 105 | 105 | 102 | 102 | 99 | 95 |
| 윤 2 | 109 | 105 | 101 | 98 | 103 | 97 | 100 | 95 | 97 | 93 | 89 |
| ¢ 3 | 104 | 98 | 94 | 90 | 97 | 90 | 95 | 88 | 92 | 87 | 84 |
| $\geqq 4$ | 100 | 93 | 88 | 84 | 92 | 84 | 90 | 83 | 88 | 82 | 79 |
| 딩 | 95 | 88 | 83 | 79 | 87 | 78 | 85 | 78 | 84 | 77 | 75 |
| $\cup$ | 91 | 83 | 78 | 74 | 82 | 74 | 81 | 73 | 80 | 73 | 71 |
| \% 7 | 87 | 79 | 73 | 70 | 78 | 69 | 77 | 69 | 76 | 69 | 67 |
| $\bigcirc 8$ | 83 | 75 | 69 | 66 | 74 | 66 | 73 | 65 | 72 | 65 | 64 |
| 9 | 80 | 71 | 66 | 62 | 71 | 62 | 70 | 62 | 69 | 62 | 60 |
| 10 | 77 | 68 | 63 | 59 | 67 | 59 | 67 | 59 | 66 | 59 | 57 |

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Wattage controlled to within $\% .5 \%$.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

## C7L-DL-VB Calculite LED

7" Round Aperture, Downlight, Narrow Medium \& Wide Beam 1500/2000/3500/6000lm

## 69W LED, $3500 \mathrm{~K}, 70^{\circ}$ Wide 6000 lumen



Frame: C7L50N1VBZ10V Trim: C7L50DL35KWCLWVB
CCT ${ }^{1}$ : 3500 K
Output lumens: 5889 lms
Input watts ${ }^{2}$ : $\quad 69.2 \mathrm{~W}$
$\begin{array}{ll}\text { Efficacy: } & 85.1 \mathrm{~lm} / \mathrm{w} \\ \text { CRI: } & 80 \mathrm{mln}\end{array}$
CRI:
Spacing Crit.:
Beam Spread:
Report no ${ }^{3}$ 328GFR

| Zonal summary |  |  | Single unit data |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Zone | Lumens \%Luminaire |  | Height to lighted plane | Initial center beam foot-candles | $\begin{gathered} \text { Beam } \\ \text { diameter (ft)* } \end{gathered}$ |
| 0-30 | 4013 | 68.1\% |  |  |  |
| 0-40 | 5608 | 95.2\% | $5 '$ | 168 | $5.5{ }^{\prime}$ |
| 0-60 | 5881 | 99.9\% | 6 | 117 | 6.6 |
| 0-90 | 5889 | 100.0\% | 7 | 86 | 7.7 |
|  |  |  | $8{ }^{\prime}$ | 66 | 8.8 |
| Angle | Mean CP | Lumens | $9^{\prime}$ | 52 | 9.9' |
| 0 | 4197 |  | - Beam diameter is where foot-candles drop to $50 \%$ of maximum. |  |  |
| 5 | 4120 | 404 |  |  |  |  |  |
| 10 | 4350 |  |  |  |  |  |  |
| 15 20 | 4705 | 1348 | Multiple unit data - RCR 2 |  |  |
| 25 | 5077 | 2261 |  |  |  |
| 30 | 4159 | 2261 | Spacing | Initial center beam | Watts |
| 35 | 2538 | 1595 | on center | foot-candles | per |
| 40 | 1197 |  | $5 '$ | 268 | 3.07 |
| 45 | 150 | 265 | 6 | 176 | 2.01 |
| 50 55 | 11 10 | 8 | 7 | 125 | 1.44 |
| 60 | 7 |  | 8 | 105 | 1.20 |
| 65 | 4 | 5 | $9^{\prime}$ | 84 | 0.96 |
| 70 | 3 |  |  |  |  |

$38^{\prime} \times 38^{\prime} \times 10^{\prime}$ Room, Workplane $\mathbf{2 . 5}^{\prime}$ above floor, 80/50/20\% Reflectances

| Finish Adjust. factors | CCT Adjust. facto |
| :---: | :---: |
| CL $=100 \%$ | $4000 \mathrm{~K}=103 \%$ |
| CCL $=95 \%$ | $3500 \mathrm{~K}=100 \%$ |
| CCO $=87 \%$ | $3000 \mathrm{~K}=97 \%$ |
| $C C Z=63 \%$ | $2700 \mathrm{~K}=87 \%$ |
| $W H=87 \%$ |  |


| Ceiling | 80\% |  |  |  | 70\% |  | 50\% |  | 30\% |  | 0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method-Effective floor reflectance $=20 \%$ |  |  |  |  |  |  |  |  |  |  |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
| 1 | 113 | 111 | 108 | 106 | 108 | 104 | 104 | 101 | 101 | 98 | 93 |
| 올 2 | 108 | 103 | 99 | 95 | 101 | 94 | 98 | 92 | 95 | 90 | 86 |
| ¢ 3 | 102 | 95 | 90 | 86 | 94 | 86 | 91 | 84 | 89 | 83 | 80 |
| 入 4 | 97 | 89 | 83 | 79 | 88 | 78 | 85 | 77 | 83 | 76 | 74 |
| 岩 5 | 91 | 83 | 77 | 72 | 82 | 72 | 80 | 71 | 78 | 71 | 69 |
| $\cup_{6} 6$ | 86 | 77 | 71 | 67 | 76 | 66 | 75 | 66 | 74 | 66 | 64 |
| ¢ 7 | 82 | 72 | 66 | 62 | 72 | 61 | 70 | 61 | 69 | 61 | 59 |
| $\bigcirc 8$ | 78 | 68 | 61 | 57 | 67 | 57 | 66 | 57 | 65 | 57 | 55 |
| 9 | 74 | 63 | 57 | 53 | 63 | 53 | 62 | 53 | 61 | 53 | 51 |
| 10 | 70 | 60 | 54 | 50 | 59 | 50 | 58 | 49 | 58 | 49 | 48 |

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Wattage controlled to within $\% .5 \%$.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
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CalculiteLED-7in-Downlight-C7LDLVB 09/15 page 9 of 9

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Philips Gardco Powerform area LED hminaires provide op to 1,000W HID replacement while significantly reducing energy and mamtenance costs. Powerform features ath architecturally styled, modutar housing design available in five different sizes for a range of commercial, relail, inclustrial. and other large area outdoor applications. Powerform is available with muthple tumen packages delivering approximately 20,000 to 95,000 lumens.
example: PFAS-184L-1A-NW-GI-AR-5V-120-PCB-FI-BZ

| $\begin{aligned} & \text { Peefix } \\ & {[\text { PFAS }} \end{aligned}$ | Nunber | Bire Cutrent |  | Hexating |  |  | Wht way |  |  | Fwish |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Gerctation |  | Districution | Wetist | Corkests | Euctrkal | Lumarie |  |
| PFAS <br> Purreiform <br> Apeaste | 92L <br> 921EOS <br>  <br> 1361 <br> 1331E0S <br> (3ncoules) <br> 1812 <br> 188LEDS <br> (4nodetas) <br> 210 L <br> $2301 E O S$ <br> (S nodules) <br> 2181 <br> 2fateos <br> (6 mosies) | 200 200 <br> 14 IATO | HW.G1 <br> Hewtalimize 4000k 70C8d Generation 1 <br> HW90. 4 <br> HewalWhise <br> 4000K, 50c8: <br> Gemerabon 1 | A AnMlowns <br> 55 <br> 5:pfiter <br> 850.0x <br> $\left(f 45102 \%^{2}\right.$ <br> 00 (tion) | 2 <br> Yype 2 <br> 3 <br> type 3 <br> 4 <br> Free 4 <br> 5W <br> Type $5 \%$ <br> AㄷR <br> Andostork 80 N <br> AKR.50 <br> Auto front fions. <br> Rolated $90^{\circ}$ <br> AFs. 210 <br> A, often RON. <br> Rodates $2 N^{x}$ |  | OD 0.रुD Dintring Erfe' DCC Dusj Cisuat Conks <br>  <br>  <br>  <br>  DA50 An <br> Pholentetrik/Retertatit 5ytum (ThdilockRecolule) <br> PCB PTotcontiol 8utionizE Tin03 Thistlock Receprate $5 \mathrm{~Pa}^{2 \mathrm{At}}$ TLRD7 TwisthockRecepate7 Pinis <br>  <br>  <br> IMP (1HRt4 inegralnis\#4lems ${ }^{1 / 3}$ <br>  <br> Pole Nowntedintried Mollen Response Systems wath ormodimnt <br> CS50.14RO nxh Sufey $50 \%$ Ditaing ${ }^{12}$ <br>  <br>  <br>  <br> Wirefess cortuos <br>  <br> LLC4 Inezaymotrenith thers ${ }^{1211}$ | 18 Terminat bocko <br> Fusting <br> F1 Srate <br> ( $120.271,34 \mathrm{NA} \cdot \mathrm{Cl}^{7}$ <br> 52 Dosbie <br> (208,240,48018C)" <br> F) Canadian Dovble An (208.240.480 NAC) <br> Fole Hount Fusing <br> FP1 single <br> (020.277. 17TVA ${ }^{1}$ <br> Fill Double <br> ( $203,240,4804 \mathrm{AC})^{7}$ <br> FP3 Canssian Oonbie A.s <br> $(208,240.4807 A C)^{1}$ <br> Syeze picitecion <br> 582 20KV10KA <br> $1 \times 0$-2INAC <br> SF2KV 20XV OKA <br> 347.4001sc | SPA <br> Squyze Poxe Absples <br> H3s <br>  Hassing 5destied ${ }^{0}$ | Terumed 8X Beack Wh Unte时 sucue DCY Dand Gay HCY Metium Gray <br> tuticharspedind <br> RAL spacify optimsi $\cos O \mathcal{O} \propto$ RAL (exoclopor OC.8417024 <br> (c) Custaredos (Noxs9xp:) colorthos fortecined factoryquete) |
| L. Notayal <br> 2. Notaysil <br> 3. Ayaliole <br> 4. Croose or mene of <br> 5. TLRO5/7 Maratm dimulas torderin | 30才exihDim abde whth in 180-27N PC8 enone of the LiC Wife optionnsa ing angle $45^{\prime}$. OH mons wit an whoor Cs | ming OH <br> al Clovit <br> cu Unt on <br> the then dessoplio <br> rilabe t <br> Yorts kil <br> Inol bec <br> JCN/CE/ | (0D) option Control (OSC) op nt. <br> FindstokRec ans. Rot avalad ribltc, PCB. 1 th 3 or 5 pIn NE comected to NE <br>  | plion <br> cotarle cotion <br>  IRPCODCC ath piotocely MA seceprac RO. |  | R3bfe with 460 V . disonot avalatie ertituktions) Ay antly rollage Nok plion atalable in parify witare. Nó yabluble with 23 ol aramble with acressary. | with 230L-LA or 2Ft-IA in 1208 14 ayailable uth OD UC orDCC 120 or 27 Yanti. availible with OD, LLC or DCC 201.tA o 276t-14 h 120.203 axd TLRPC, PCB, INAS,CS/CAUCE/OA | eminal Biok (18) and Squa ratabe sith armmount ond rust specily sperifx hapot wo Is option rot drailable will seeAFSES accessxy\} | are Poke Adupt <br> (AR) <br> datas. <br> 5\%, AFg-90 | or (5pA) opitons <br> NAFR-270 |









## TR,ASH ENCLOSURE NOTES

1. ALL SUING GATES - GATE MANLFACTURER TO PROVIDE ALL NECESSARY HARDWARE
2. DUMPSTER STOP - (2) $6^{\prime \prime} \phi$ PIFE BOLLARDS $6^{\prime}-D^{\prime \prime} C / C W / 6^{6 \prime S T L}$. CHANNEL WELDED TO BOLLARDS (PAINT) REF. DETAIL 13/ASP-1

(1) DUMPSTER ENCLOSURE ELEVATION
(2) DUMPPSTER SCREEN GATE ELEVATION


$6_{\text {SCALE: }}^{\text {GA/4" }=1-\theta^{\prime \prime}}$
DUMPSTER ENCLOSURE COPING DET. SCALE: $11 n^{\prime \prime \prime}|-|-0^{\prime \prime}$
MIDWEST REGIONAL BANK


Midwest Regional Bank


## Chesterfield, Missouri

Dawaly




[^0]:    Notes: Grid is in multiples of mounting height and values shown are in footcandles.

[^1]:    Unlon Made Affiliated with IBEW Local 363

    | IP65 | IK10 |
    | :--- | :--- |

    In a continung elfort to ofler the best product possiole, we resenve the right to change, without noice, specifications or materials that in our opinion wil not atter the function of the product. Speoifcation sheels lound al wursseluxus are the most recent versions and supercede al other prinled or e'ectronic versions.

[^2]:    1. Conelated Color Temperature within specs as defined In ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State LIghting Products.
    2. Wattage controlled to within $\% .5 \%$.
    3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
