



690 Chesterfield Pkwy W • Chesterfield MO 63017-0760 Phone: 636-537-4000 • Fax 636-537-4798 • www.chesterfield.mo.us

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.

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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 1A and 1B 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 pedestrian-scale 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.

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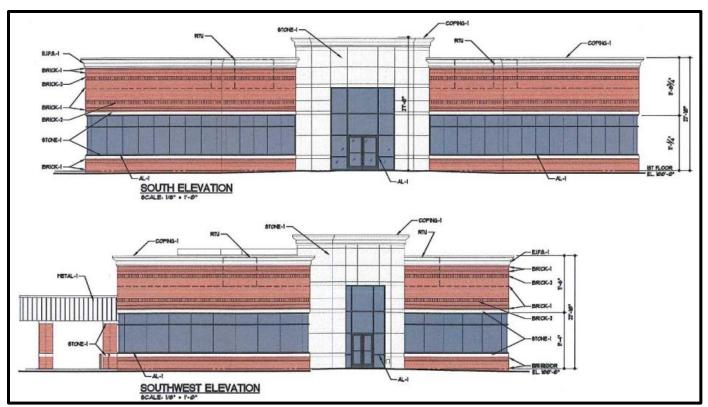


Figure 3

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.

Page 4 of 5

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

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RECEIVED

JUN 1 5 2016

City of Chesterfield Department of Public Services

ARCHITECTURAL REVIEW BOARD Project Statistics and Checklist

Date of First Comment Letter Received from the City of Chesterfield 5/19/16
Project Title: Midwest Regional Bank Location: Lot 1B per gite plan
Developer: Midwest Regional Pank Location: Lot 18 per site plan Developer: Midwest Regional Architect: Dawdy 4 Assoc. Engineer: Grimes Consulting
PROJECT STATISTICS: 27'-0' Entry
Size of site (in acres): 1.18 Total Square Footage: 4.7115.f. Building Height: 22'-10"
Proposed Usage: Buginess - (Financial)
Exterior Building Materials: Brick Stone, 51FS, Architectural metal panel
Roof Material & Design: 5+1. bar joist, insul. 4 membrane Roofing
Roof Waterial & Design Track and come to make building Materiale
Screening Material & Design: Trush enclosure to match building materials
Description of art or architecturally significant features (if any):
ADDITIONAL PROJECT INFORMATION:
Checklist: Items to be provided in an 11" x 17" format
Color Site Plan with contours, site location map, and identification of adjacent uses.
□ Color elevations for all building faces.
□ Color rendering or model reflecting proposed topography.
□ Photos reflecting all views of adjacent uses and sites.
□ Details of screening, retaining walls, etc.
□ Section plans highlighting any building off-sets, etc. (as applicable)
 Architect's Statement of Design which clearly identifies how each section in the Standards has been addressed and the intent of the project.
□ Landscape Plan.
☐ Lighting cut sheets for any proposed building lighting fixtures. (as applicable)
□ Large exterior material samples. (to be brought to the ARB meeting)
☐ Any other exhibits which would aid understanding of the design proposal. (as applicable)
□ Pdf files of each document required.
690 Chesterfield Parkway West, Chesterfield, MO 63017-0760



Architects -Planners

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

Phone: 314-434-0700 Fax: 314-434-0701

A perfect blend of design, performance and value

PHILIPS STONGO 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



Project:		
Location:		
Catalog No:		
Fixture Type: V		
Mfg:	Lamps:	Qty:
Notes:		

Ordering guide¹

example: LPF3-C-4K-FL-S-F1-PCB-1-BZ Color Finish Distribution Mounting Options Voltage Series / # of COB1 Temperature Current BZ SP -S -8 C 4K LPF3 Slipfitter 2-3/8" O.D. 120V Textured Dark Bronze F14 LPF3 C 700 mA 4K 4000K3 FL Flood Single Fusing LytePro F25 208V WH Textured White LED 5000K3 T Trunnion **Double Fusing** 3 F34 Double Fusing, Canada 240V **DGY** Textured Dark Gray Medium PCB7 Photocontrol 277V Floodlight DM258.9 Dynadimmer 347V 85W 120-277V

Accessories - Ordering Guide (must be ordered separately)

Catalog#	Description	
LPF3WG ^{18,11}	Wire Guard	
LPF3SG ^{13,11}	Stone Guard	

Footnotes:

- MTO configurations are assembled in the USA
- COB denotes Chip On Board LED platform. Both 4K and 5K options have a minimum 80 CRL 'F1' for 120, 277, 347V.
- 'F2' for 208, 240V.
- F2' for 203, 240V Canadian double pull.

 Specify voltage. 'PCB' not available with '8' universal voltage option.

 'DM25' or ly available 120-277V and dims to 25% for 6 hours.
- Dynadimmer is suitable for use from -30°C to 40° temperature ambient only.

Stocked Luminaires - Ordering Guide12,13,14,15

Catalog#		Master Pack, QTY	UPC Code
STKLPF3S-8	LPF3, Slipfitter Mount, 120-277V	Yes, 2	786034956949

- 10. Limited quantities stocked in our Canoliton RDC.
- 11. Contact factory for availability of large order quantities.
- All stock products are BZT Textured Dark Bronze, 4K* Neutral White and FL* Flood Optics.
 Stock LFF products ship out of our Carrollton Distribution facility within 2-days of receipt of order.
- Always consult factory for current inventory levels. Larger quantities may be converted to MTO if necessary.
 LPF3 is provided with full 4-color POP packaging.



LYTEPRO LED MEDIUM

Features

- · LPF3 flood distribution delivers 7,012 lumens at 85W, with an efficacy of 82 lumens
- · LPF3 spot distribution delivers 6,807 lumens at 85W, with an efficacy of 80 lumens per watt
- Effectively replaces equivalent 175-250W HID
- 4000K neutral white is standard, 5000K 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°C to 40°C
- Rated system life of 80K hours for the driver and LED (>L_x) at ambients up to 30°C
- 5-year limited warranty, see philips.com/warranties for details
- LPF3 stocked in dark bronze, slipficcer 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, consult factory for current lead time

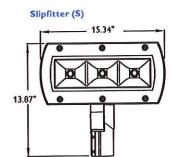
Performance Specifications

Beam Specs	Flood (FL)	Spot (SP)
Initial Lumens (4K and 5K)16	7,012	6,807
Average Wattage ¹⁷	85W	85W
Lumens/Watt	82	80
NEMA Beam	6H × 6V	3H x 3V
50% beam (horizontal X vertical)	101° × 97°	17° x 17°
10% beam (horizontal X vertical)	130° x 125°	41° × 38°
Max Candela	3,100 cd	33,122 cd

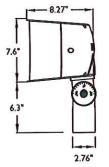
Lumen values based on photometric tests performed in compliance with IESNA LM-79.
 System input waitage may vary based on input voltage, by up to +/- 8%, and based on manufacturer forward voltage, by up to +/- 4%.

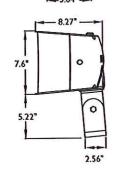
Dimensions

Approximate luminaire weight - 19lbs (8.6kg) Fixture EPA - 0.74 sq. ft.

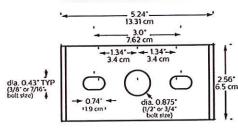


Trunnion Mount (T) 15.34" 12.82

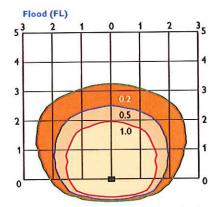




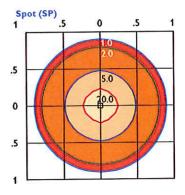
Trunnion Mount Bolt Pattern



Photometrics

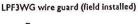


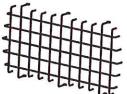
LPF3 85W - 15' Mounting Height, 30° Tilt 12 Mounting Height 25 20 15 Multiplier 0.20 0.44 1.0 1.7 2.7



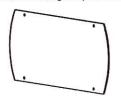
LPF3 85W - 20' Mounting Height, 0° Tilt Mounting Height 30 25 20 15 10 1.0 1.8 4.0 0.44 0.64 Multiplier

Accessory Details (must be ordered separately)





LPF3SG stone 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 LED MEDIUM FLOODLIGHT 85W LPF3

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.

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 result 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 lm/W at the system level. Standard color temp is 4000K +/- 250K, with optional 5000K 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 lm/W at a system wattage of 85W using the flood distribution. With the spot distribution it has a system efficacy of 80 lm/W at a system wattage of 85W. 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

Electrical

Driver efficiency (>90% standard). 120-347V available (restrictions apply). Temp range: -40°C (-40°F) to 40°C (104°F). 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 amps (10KVA).

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

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 Data¹⁸

Amblent Temp. °C	TM-21 Calculated L, hrs18,19	Reported L,, Per TM-2119,10	Lumen Maint. % @60,000 hrs
up to 40°C	269,000 hrs	>48,000 hrs	91.5%

^{18.} Calculated performance derived from LED manufacturer's data and engineering design estimates, based on ESNA LH-90 methodology. Actual experience may vary due to feld application conditions.

19. L_p is the predicted time when LED performance depreciates to 70% of initial lumen output.

20. Reported per IESNA TM21-11, Published L_p, hours limited 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 2S3 Phone: 800-668-9008

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



Project: MIDWEST REGIONAL BANK			
Location:			
Catalog No: LI	PF3-C-4K-FL-S-8-BZ		
Fixture Type: S			
Mfg:	Lamps:	Qty:	
Notes:			

Ordering guide¹

Orderi	ng guide	e ¹					example: L	PF3-C-4K-FL-S-F1-PCB-1-BZ
Series / #	of COB	Drive Current	Color Temperature	Distribution	Mounting	Options	Voltage	Finish
LPF3] -	c -	4K -	FL -	S -		8 -	ВΖ
1	LytePro LED Medium Floodlight 85W	C 700 mA		FL Flood SP Spot	S Slipfitter 2-3/8" O.D. T Trunnion	F14 Single Fusing F25 Double Fusing F34 Double Fusing, Canada PCB7 Photocontrol DM255.5 Dynadimmer	1 120V 2 208V 3 240V 4 277V 6 347V 8 120-277V	BZ Textured Dark Bronze WH Textured White DGY Textured Dark Gray

Accessories - Ordering Guide (must be ordered separately)

Catalog#	Description		
LPF3WG ^{18,11}	Wire Guard		
LPF3SG ^{18,11}	Stone Guard		

Footnotes:

- MTO configurations are assembled in the USA. COB denotes Chip On Board LED platform.
- Both 4K and 5K options have a minimum 80 CRL 'F1' for 120, 277, 347V.
- 'F2' for 203, 240V.
- r2 for 203, 240V.

 'F3' for 203, 240V Canadian double pull.

 Specify voltage. 'PCB' not available with '8' universal voltage option.
- 'DM25' only available 120-277V and dims to 25% for 6 hours.

 Dynadimmer is suitable for use from -30°C to 40° temperature ambient only.

Stocked Luminaires - Ordering Guide^{12,13,14,15}

Catalog#		Master Pack, QTY	UPC Code
STKLPF3S-8	LPF3, Slipfitter Mount, 120-277V	Yes, 2	786034956949

- 10. Limited quantities stocked in our Carrollton RDC.

- 11. Contact factory for availability of large order quantities.
 12. All stock products are BZ Textured Dark Bronze, 4K Neutral White and FL Flood Optics.
 13. Stock LPF products ship out of our Carrollton Distribution facility within 2-days of receipt of order.
- Always consult factory for current inventory levels. Larger quantities may be converted to MTO if necessary.
 LPF3 is provided with full 4-color POP packaging.



LYTEPRO LED MEDIUM FLOODLIGHT 85W LPF3

Features

- LPF3 flood distribution delivers 7,012 lumens at 85W, with an efficacy of 82 lumens per watt
- LPF3 spot distribution delivers 6,807 lumens at 85W, with an efficacy of 80 lumens per watt
- Effectively replaces equivalent 175-250W HID
- . 4000K neutral white is standard, 5000K 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°C to 40°C
- Rated system life of 80K hours for the driver and LED (>L_{pc}) at ambients up to 30°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, consult factory for current lead time

Performance Specifications

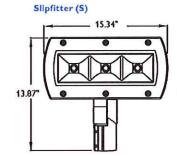
Beam Specs	Flood (FL)	Spot (SP)
Initial Lumens (4K and 5K)16	7,012	6,807
Average Wattage ¹⁷	85W	85W
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NEMA Beam	6H × 6V	3H × 3V
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Max Candela	3,100 cd	33,122 cd

16. Lumen values based on photometric tests performed in compliance with IESNA L11-79.

 System input wattage may vary based on input voltage, by up to +/- 8%, and based on manufacturer forward voltage, by up to +/- 4%.

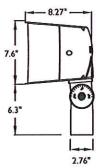
Dimensions

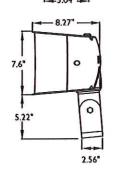
Approximate luminaire weight – 19lbs (8.6kg) Fixture EPA - 0.74 sq. ft.



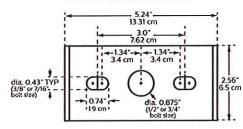
15.34*

Trunnion Mount (T)

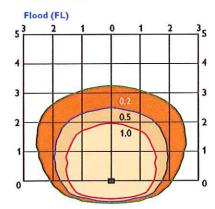




Trunnion Mount Bolt Pattern



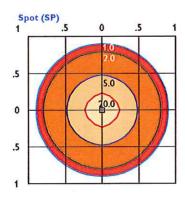
Photometrics



 LPF3 85W - 15' Mounting Height, 30° Tilt

 Mounting Height
 25
 20
 15
 12
 10

 Multiplier
 0.20
 0.44
 1.0
 1.7
 2.7



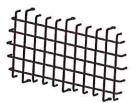
 LPF3 85W - 20' Mounting Height, 0° Tilt

 Mounting Height
 30
 25
 20
 15
 10

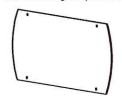
 Multiplier
 0.44
 0.64
 1.0
 1.8
 4.0

Accessory Details (must be ordered separately)

LPF3WG wire guard (field installed)



LPF3SG stone 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 LED MEDIUM FLOODLIGHT 85W LPF3

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 result 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 lm/W at the system level. Standard color temp is 4000K +/- 250K, with optional 5000K 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 lm/W at a system wattage of 85W using the flood distribution. With the spot distribution it has a system efficacy of 80 lm/W at a system wattage of 85W. 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). 120-347V available (restrictions apply). Temp range: -40°C (-40°F) to 40°C (104°F). 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 amps (10KVA).

Listings

Product is UL and cUL listed to the UL1598 standard, suitable for Wet Locations. Suitable for use in ambients from -40°C to 40°C (-40°F to 104°F). The LPF3 luminaire with either 4K Neutral White or 5K Cool White LEDs and flood or spot optics is DesignLights Consortium® 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 Data¹⁸

Amblent Temp. °C	TM-21 Calculated L, hrs 18,19	Reported L,, Per TM-2119,29	Lumen Maint. % @60,000 hrs
up to 40°C	269,000 hrs	>48,000 hrs	91.5%

Calculated performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LIM-80 methodology. Actual experience may vary due to field application conditions.
 L₇₂ is the predicted time when LED performance depreciates to 70% of initial lumen output.
 Reported per IESNA TM21-11. Published L₇₂ hours limited to 6 times actual LED test hours.



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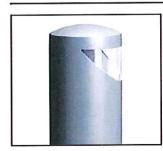
LytePro_LPF3 08/14 page 3 of 3

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 2S3 Phone: 800-668-9008

Notch Bollard LED

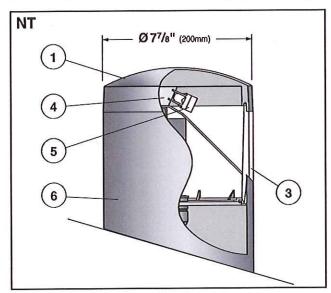




Project: MIDWEST REGIONAL BANK

Options

Series	Height	Light Engine	ССТ	Finish	Voltage	Options
NT Notch Bollard LED	2 2 ft. (.6m) 2.5 2.5 ft. (.74m) 3 3 ft. (.9m) 3.5 3.5 ft. (1.1m) 4 4 ft. (1.2m) or specify custom height	LG3500 8.5W LG3700 12W (6) high flux white LEDs	30 3000K 35 3500K 40 4000K 50 5000K For other CCT please consult factory	WH White BK Black BZ Bronze SV Silver SP Specify Premium Color	120 208 240 277 347 ² 480 ²	HL ¹ Hi-Lo Switching for LG3700 only (see p.4 for details) DM 0-10VDimming for LG3700 only
	occioni noigin		¹ 120V, 240V and	277 only. ² With internal step	down transformer	



- Luminaire Cover Die-cast, aluminum cover, low copper alloy.
- 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" (8.25mm).
- Shielding is flush with column surface completely enclosing optic chamber.
- 4. Light Engine (6) High flux LEDs mounted to metal core PC boards attached to an aluminum heatsink for maximum LED performance and life. Includes LED drivers and precise high performance injection-molded lenses. Complete light engine can be easily replaced. LEDs can be started and re-started instantly at

temperatures as low as -20°C. For lumen maintenance information, see IESTM-21-11 details.

- 5. Optics Six individual precision injected molded lenses consisting of total internal reflection (TIR) collimator and precision light shaping lens. Lenses produce an asymmetric distribution.
- Column Extruded, thick-walled low copper aluminum, minimum wall thickness 0.118" (3mm) with internal anchor bolts and flush handhole cover.
- 7. Surge Protector (not shown)
 Designed to protect luminaire from
 electical surge (10kA).

Exterior Luminaire Finish Selux utilizes a high quality
Polyester Powder Coating. All
Selux luminaires 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 PCI.

Standard exterior colors are White (WH), Black (BK), Bronze (BZ),

and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide.

5 Year Limited LED Luminaire 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°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 NT-0914-01 (ss-v3.2) NRTL Listed (i.e. UL, CSA) for wet locations

Union Made Affiliated with IBEW Local 363

IP65

IK10

In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Specification sheets found at www.setucus are the most recent versions and supercede all other printed or electronic versions.

Notch Bollard LED

Photometry

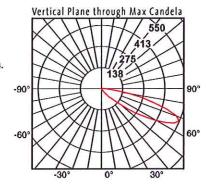
8.5W LED / 3500K CCT

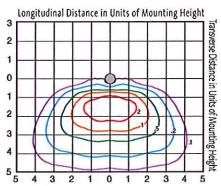
Catalog # NT-4-LG3500-35 Report # S1207053-R1-1

- Ideal for applications requiring linear distributions.
- Maximum candela of 550 at 67.5° from vertical.
- IES classification B0-U1-G1
- Mounting Height = 4' (1.22 M)
- 434 Delivered Lumens
- 51 Lumens per Watt

DOWNLOAD IES FILE:

http://www.selux.us.fileadmin/us/exterior/les_file.NT_IES.zip





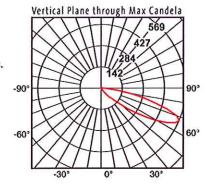
8.5W LED / 5000K CCT

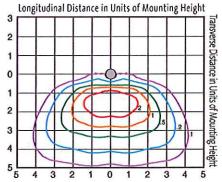
Catalog # NT-4-LG3500-50 Report # S1207053-R1-3

- · Ideal for applications requiring linear distributions.
- Maximum candela of 569 at 67.5° from vertical.
- IES classification B0-U1-G1
- Mounting Height = 4' (1.22 M)
- 449 Delivered Lumens
- 53 Lumens per Watt

DOWNLOAD IES FILE:

http://www.selux.us/fileadmin/us/exterior/les_file.NT_IES.zip





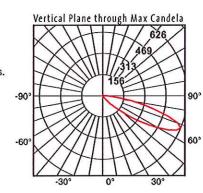
12W LED / 3500K CCT

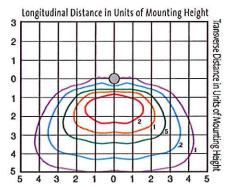
Catalog # NT-4-LG3700-35 Report # S1207053-R1-1

- Ideal for applications requiring linear distributions.
- Maximum candela of 626 at 67.5° from vertical.
- IES classification B0-U1-G1
- Mounting Height = 4' (1.22 M)
- 494 Delivered Lumens
- 35 Lumens per Watt

DOWNLOAD IES FILE:

http://www.selux.us/fileadmin/us/exterior/les_file/NT_IES.zip





Notch Bollard LED



Photometry

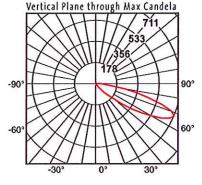
12W LED / 5000K CCT

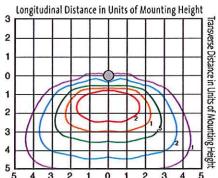
Catalog # NT-4-LG3700-50 Report # S1207053-R1

- Ideal for applications requiring linear distributions.
- Maximum candela of 711 at 67.5° from vertical.
- IES classification B0-U1-G1
- Mounting Height = 4' (1.22 M)
- 561 Delivered Lumens
- 40 Lumens per Watt

DOWNLOAD IES FILE:

http://www.selux.us/fleadmin/us/exterior/les_fle/NT_IES.zip

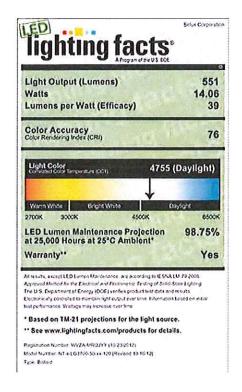




Conversion Chart Values based on 3' (.9m) mounting height Mounting Height Multiply 2.0' (.6m) 1.22 2.5' (.8m) 1.09 3.0' (.9m) 1.00 3.5' (1.1m) 0.92 4.0' (1.2m) 0.87

IES TM-21-11 Report Results Based on an ambient temperature of 25°C/77°F

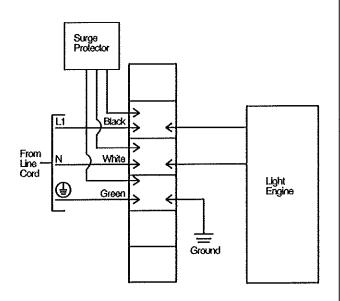
- Reported L70 (6k)(hours) > 36,000
- Calculated L70 (6k)(hours) 601,000
- 25,000h lumen maintenance predicted to be 98.75%



Wiring

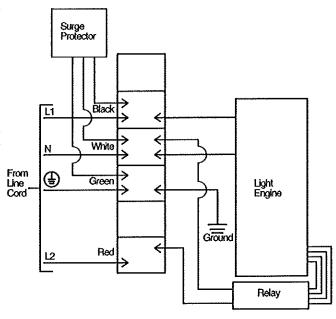
Standard Single Wiring

LG3700 at 120-277V for high output. LG3500 at 120-277V for low output.



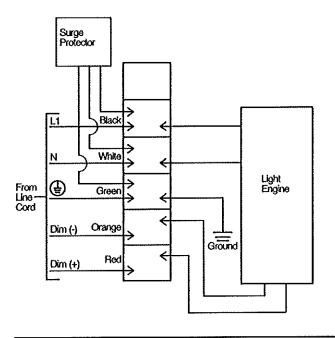
Hi-Lo Switching Option (HL) Wiring

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



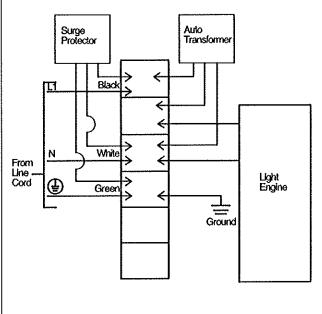
0-10V Dimming Option (DM) Wiring

LG3700 120-277V.

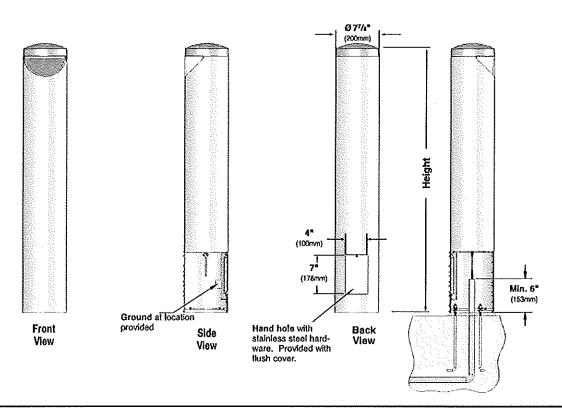


347/480V

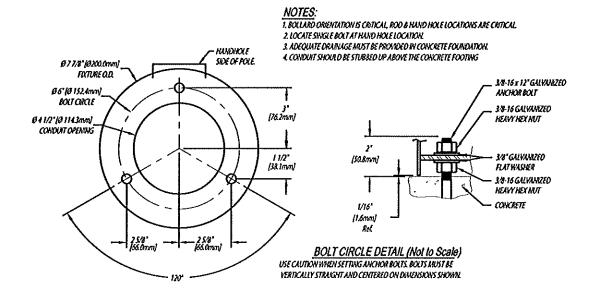
LG3700 at 347/480V for high output. LG3500 at 347/480V for low output.



Profile



Anchorage Information



PHILIPS **Stongo**





Wall mount

LytePro LED Sconce

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, 120-277V, 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)	786034960618

LPW16 LytePro LED Small Wall Sconce

Features

LPW16 wall sconce delivers 3,374 lumens at 36W, 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 luminaires²
- LP16W-7, 40W LED may effectively replace 100-150W HID luminalres¹
- · 4000K neutral white at 70 CRI (minimum) is standard
- · Button photocell available in 120V, bronze luminaires only
- 5-year limited warranty, see philips.com/warranties for specific details

Performance/Specifications (LPI6W-7)

Distribution	Туре 3	
Initial Lumens	3,374	
Average Wattage	36	
Lumens/Watt	93	
BUG Rating*	B1/U0/G1	
Luminaire Weight	~6lbs (2.7Kg)	

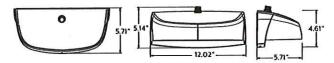
Performance/Specifications (LPI6W-5)

Distribution	Туре 3		
Initial Lumens	2,698		
Average Wattage	28		
Lumens/Watt	96		
BUG Rating	B1/U0/G1		
Luminaire Weight	~6lbs (2.7Kg)		

Ratings/Approbations/Certifications

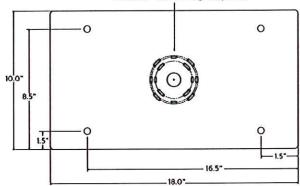
Ingress Protection	IP65 Optical
DLC Listed	DLC QPL
cETLus	Certified for use in wet locations
Rated Ambient Temperature	-40'C (-40'F) to 40'C (104'F)

Fixture Dimensions³



Accessory Dimensions (ordered separately) LPWCVRPLT-BZ LPW Universal wall cover mounting plate, 0.08" 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.

Universal J-Box mounting hole pattern

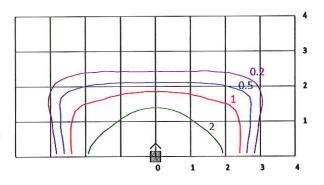


- Comparable equivalency to HID and other lamp sources depends on multiple criteria including mounting height, fixture spacing, efficiency, performance and classification of the luminaire being replaced and application lighting criteria required for the given project.
- 3. PCB shown for placement only,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

Distribution Pattern

LPW16-7 10' MO	UNTIN	G HEI	SHT
MOUNTING HEIGHT	8'	10'	12'
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 LPW16-5 configuration, scale down by 29%.



LytePro LED Small Wall Sconce LPW16

General Description

The Philips Stonco LytePro LED Small Wall Sconce LPW16 combines excellent performance, design and value to meet the needs of the energy and budget conscious. The LPW16 is available for use in downward facing, surface wall mount applications, over recessed j-boxes or where power can be directly fed through back surface, whereby connections splices can be made inside the luminaire housing. Five SKU's are available as In-stock configurations only (2-day quick ship).

40W Model: Two standard units are available in two different finishes. 120V button photocell is available in bronze only. 30W Model: Standard units available in bronze only, with and without photocell. 30W model is California Title 24 compliant.

Housing

Die-cast housing houses both the LED and driver assemblies. Design incorporates an integrated heat sink to maximize thermal performance and reliability. Backplate is corrosion free, composite polycarbonate, with built-in level bubble, offers integral interlocking hook and mount design for easy installation.

Mounting

Easy interlocking hook and mount housing/ backplate design for easy installation. Mounts over 3.5", 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 lm/W in LPW16-7 and 96 lm/W in LPW16-5 at the system level. Standard color temp is 4000K +/- 250K, minimum 70

Electrical

Driver efficiency (>90% standard). 120-277V. Temp range: -40°C (-40°F) to 40°C (104°F). 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°C to 40°C (-40°F to 104°F). DesignLights Consortium® 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. °C

up to 40°C

Calculated L70 hrs5

>200,000 hrs

Reported L70 Per TM-215.6

>60.000 hrs

Calculated Lumen Maint. % @60,000 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 TM21-11. Published L70 hours limited to 6 times actual LED test hours.



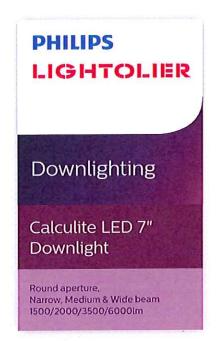


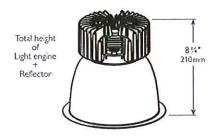
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Philips Lighting North America Corporation 200 Franklin Square Drive, Somerset, NJ 08873 Tel. 855-486-2216

Philips Lighting Canada Ltd. 281 Hillmount Rd, Markham, ON, Canada L6C 2S3 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.



Project:	MIDWEST REGIONAL BANK
Location	:
Cat.No:	C7L35N1VBZ10V
Туре:	N
Lamps:	Qty.
Notes:	C7L1520DL40KW/

LWVB

example: C7L15NUVBZ10V

Frame-in kit

Series	Lumens	Installation	Input voltage	Version	Dimming	Options ⁵
				VB		
C7L Calculite 7" LED round aperture	15 1500 lm	N New construction R Remodeler	U Universal (120/277V)	VB Version B	Z10V 0-10V dimming LD Lutron driver	EM Emergency ¹ LC Chicago Plenum ³
	20 2000lm 35 3500lm 50 6000lm	N New construction R Remodeler 6	1 120V 2 277V	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 lm 20 2000 lm 35 3500 lm	N New construction R Remodeler	1 120V	VB Version B	Z10V 0-10V dimming	-347 347V (for Canada) ²
	50 60001m	N New construction	2 277V	VB Version B	Z10V 0-10V dimming	-347 347V (for Canada) ²
CUL Calculite LED Universal aperture	15 1500 lm	J J-box mount retrofit	U Universal (120/277V)	VB Version 8	Z10V 0-10V dimming Existing wiring will determine	If dimming is an option.
	20 2000lm	J J-box mount retrofit	1 120V 2 277V	VB Version B	Z10V 0-10V dimming Existing wiring will determine	if dimming is an option.
	15 1500 lm	S Screw-In base retrofit	1 120V	VB Version B	Existing wiring will determine	If dimming is an option.

Trim kit

Series	Lumens	Style	ССТ	Beam	Reflector	Flange	Version¹
C7L							VB
C7L Calculite 7* LED round aperture	1520 1500/2000/ 3500lm 50 6000lm	DL Downlight	27K 2700K 30K 3000K 35K 3500K 40K 4000K	N Narrow, 20° 0.3 s.c² M Medium, 55° 0.8 s.c. W Wide, 70° 1.1 s.c.	CL Clear CCL Comfort clear CCD Comfort clear diffuse CCZ Champagne bronze WH White (painted)	W White (painted) P Polished (matches aperture) FT Flangeless (flush-mount) ^{4,5}	VB Version B

- 1. Consult LED-EM spec sheet for Emergency (EM) option details and restrictions.
- Not available with Lutron driver (LD) diming.

 Consult factory for availability of other 347V (-347) option configurations.

 Consult factory for availability for other Chicago Plenum (LC) option configurations. Not available for 6000 (50) lumen frame-in kits.
- Accessory CA7FMR required for gypsum applications and flangelss (FT) trims (minimal ¼" reflector flange).
- 5. Available for new construction (N) Installation frame-in kits only.
- 6. Available for 2000 (20) lumen frame-in kits only.
- 7. Available for 6000 (50) lumen trim kits only. Note: See page 3 for Energy Star' compatibility.

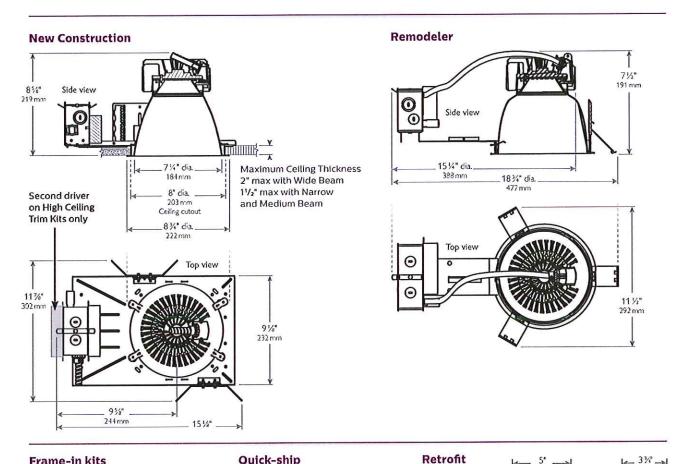


CA7FMR Flangeless trim with plaster ring accessory. (Required for gypsum installations)

example: C7L1520DL35KWCCDPVB



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 ceilings up to 11/4" max. Mounting brackets: Galvanized Steel. Adjustable through aperture. Use 3/4" or 11/2" lathing channel, 1/2" 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" (64mm) ceiling thickness.

Retrofit

Compatibility: Downlight only. Capability: Converts 6" (153mm) or 7" (178mm) 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

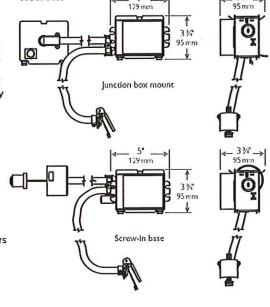
Philips is committed to providing customers with the products they need when they need them. For Service Smart (2 day) and Spec Smart (2 week) availablility please reference the Philips Luminaire Smart Service Guide or contact your Philips Lighting representative. Quick-ship SKUs apply to the United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

Options and accessories Dimming capability: 0-10V 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: 18" long (set of 2) 1950

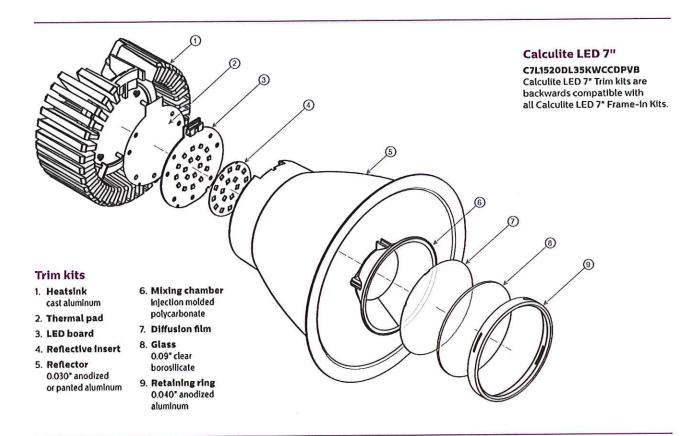
1951 27" long (set of 2) Wood joist telescoping mounting bars (minimum 131/4" and maximum 241/2")

T-Bar anchor clips: 1956 For 18*/27* mounting bars (set of 4) Decorative elements:

Consult 7in Vetro spec sheet



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



Features

Celling cutout: 7" aperture; 8" (203mm).
Depth: 85/8" (219mm) 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°C through branch circuit connectors.

Thermal protector: Meets NEC & UL requirements. Do not install insulation above or within 3" 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® 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, 50/60Hz, encased, overload and short circuit protected, thermal regulation to protect against overheating, sound rating. "A", -20°C minimum starting temperature.

Rated life: Offers 60,000 hour rated life (3500lm offer 40,000 hour rated life) at 70% lumen maintenance (L70). Tested in accordance with IES LM-80-08 and TM-21-11.

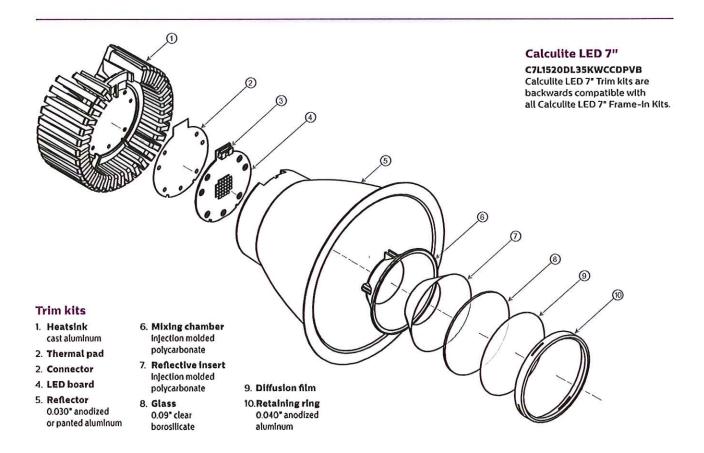
Labels

cULus, I.B.E.W. Suitable for wet locations. 5 year warranty. ENERGY STAR* certified (see exclusions to the left).

Frame-In kit Electrical specifications		Input freq.		LED drive current	Input power*		55550	Power factor
C7L15 UVBZ10V 1500lm w/0-10V dimming	120V	50/60Hz	0.16A	300mA	18W	15W	<15%	>0.90
	277V	50/60Hz	0.08A	300mA	18W	15W	<20%	>0.90
C7L20	120V	50/60Hz	0.20A	400mA	25W	20W	<15%	>0.90
	277V	50/60Hz	0.09A	400mA	25W	20W	<15%	>0.90
C7L35N_VBZ10V	120V	50/60Hz	0.35A	700mA	41W	35W	<10%	>0.95
3500lm w/0-10V dimming	277V	50/60Hz	0.16A	700mA	41W	35W	<15%	>0.90

- 1.5%
- = Applies to both New Construction (N) and Remodeler (R) Installations.
- = Applies to both 120V (1) and 277V (2) Input voltages.

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



Features

Ceiling cutout: 7" aperture; 8" (203mm).
Depth: 81/4" (210mm) 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°C through branch circuit connectors.

Thermal protector: Meets NEC & UL requirements. Do not install insulation above or within 3" 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, 50/60Hz, encased, overload and short circuit protected, thermal regulation to protect against overheating, sound rating. "A", -20°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.

Labels

cULus, I.B.E.W. Suitable for wet locations. 5 year warranty.

	Input volts			LED drive current				
C7L50N_VBZ10V	120V	50/60Hz	0.58A	650mA	70W	57W	<20%	>0.90
6000lm w/0-10V dimming	277V	50/60Hz	0.27A	650mA	70W	57W	<20%	>0.90

^{1-/-59}

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

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

18W LED, 3500K, 55° Medium 1500 lumen

2000 60° 2000 30°

Frame: C7L15NUVBZ10V Trim: C7L1520DL35KMCLWVB

CCT!- 3500K
Output lumens: 1716 lms
Input watts?: 18.3 W
Efficacy: 93.7 lm/w
CRI: 80 mln
Spacing Crit.: 0.8
Beam Spread: 55°
Report no?: 701GFR

Zonal summary

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	Lumea
0	2450	
5	2419	229
10	2363	
15	2255	617
20	1869	57000
25	1386	613
30	734	1893
35	335	224
40	124	
45	25	29
50	4	070.75
55	2	2
60	1	1777
65	1	1
70	Î	
75	Ó	0
80	ō	
85	ō	0

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)
5'	98	4.0'
6'	68	4.8'
7'	50	5.6'
8'	38	6.4
9'	30	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'	79.5	0.81
6'	52.2	0.53
7'	37.3	0.38
8'	31.0	0.32
9'	24.8	0.25
38'y38'y10' I	Room Workplane 2	5'

above floor, 80/50/20% Reflectances

Finish Adjust. factors

CL = 100%

CCL = 95%

CCD = 87%

CCZ = 63%

CCT Adjust. factors

4000K = 103%

3500K = 100%

3000K = 97%

2700K = 87%

Coefficients of utilization

Ceiling		80	3%			70%		70%		50%		30%	
Wall	70	50	30	10	50	10	50	10	50	10	0		
RCR	Zc	nal c	avity r	netho	d - El	fectiv	e floc	r refle	ectan	ce = 20	0%		
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		
Room Cavity Ratio 8 2 9 2 7 8 8 5	104	99	94	91	97	90	95	88	92	87	84		
≥ 4	100	93	88	84	92	84	90	83	88	82	80		
₹ 5	95	88	83	79	87	78	85	78	84	77	75		
0 6	91	83	78	74	83	74	81	73	80	73	71		
5 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	6		
10	77	68	63	59	68	59	67	59	66	59	58		

CCT Adjust. factors

4000K = 103%

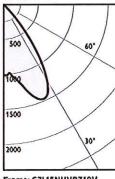
3500K = 100%

3000K = 97%

2700K = 87%

18W LED, 3500K, 70° Wide 1500 lumen

Candela Curve



Frame: C7L15NUVBZ10V Trim: C7L1520DL35KWCLWVB

CCT':	3500K
Output lumens:	1733 lms
Input watts2:	18.3 W
Efficacy:	94.7 lm/v
CRI:	80 min
Spacing Crit:	1.1
Beam Spread:	70°
Report no3:	702GFR

Zonal summary

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	0.0000000
45	52	90

2

0

80

85

Zone Lumens %Luminaire

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)		
5'	41	5.5'		
6'	28	6.6'		
7'	21	7.7'		
8'	16	8.8'		
9'	13	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	Walts per sq. ft.	
5'	78.4	0.81	
6'	51.5	0.53	
7'	36.8	0.38	
8'	30.6	0.32	
9'	24.5	0.25	

Coefficients of utilization

Finish Adjust, factors

CL = 100%

CCL = 95%

CCD = 87%

CCZ = 63%

WH = 87%

Celling Wall		80%		70	70%		50%		30%			
		70	50	30	10	50	10	50	10	50	10	0
RCF	?	Zo	nal c	avity r	netho	d - E	fectiv	e floc	rrefl	ectan	ce = 2	0%
)	119	119	119	119	116	116	111	111	106	106	100
	1	113	110	108	105	108	104	104	101	100	98	93
8 :	2	107	102	98	95	101	93	97	91	94	89	86
Ratio	3	102	95	90	85	93	85	91	83	88	82	79
	1	96	88	82	78	87	77	85	76	83	75	73
Cavity	5	91	82	76	71	81	71	79	70	77	69	67
ũ e	ŝ	86	76	70	65	75	65	74	65	72	64	62
Room	7	81	71	65	60	70	60	69	60	68	59	57
8	3	76	66	60	56	66	55	65	55	63	55	53
9	•	72	62	56	51	61	51	61	51	60	51	49
10	١.	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.

above floor, 80/50/20% Reflectances

- 2. Wattage controlled to within 1/-5%.
- 3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

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

25W LED, 3500K, 55° Medium 2000 lumen

2000 60° 2000 30°

Frame: C7L20N1VBZ10V Trim: C7L1520DL35KMCLWVB

CCT*: 3500K
Output lumens: 252 W
Efficacy: 87.7 lm/w
CRI: 80 mln
Spacing Crit: 0.8
Beam Spread: 55°
Report no 3: 705GFR

Zonal summary

Zone	Lumens	%Luminaire
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	1
65	1	1
70	1	
75	0	0
80	0	
85	0	0

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (f	
5'	126	4.0'	
6'	88	4.8'	
7'	64	5.6'	
8'	49	6.4	
9'	39	7.2'	

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

Multiple unit data - RCR 2

Initial center beam foot-candles	Watts per sq. ft.
102.3	1.12
67.2	0.73
48.0	0.52
40.0	0.44
32.0	0.35
	102.3 67.2 48.0 40.0

above floor, 80/50/20% Reflectances

CCD = 87% 3000K = 97% CCZ = 63% 2700K = 87% WH = 87%

Finish Adjust, factors

CL = 100%

CCL = 95%

Coefficients of utilization

Ceiling		80	2%		70	0%	50	0%	30	%	0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zc	onal c	avity r	netho	d - E	fectiv	re floc	or refl	ectan	ce = 2	0%
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
Sation 3	104	99	94	91	97	90	95	88	92	87	84
≥ 4	100	93	88	84	92	84	90	83	88	82	80
Room Cavity 8 2 9 5 4	95	88	83	79	87	79	85	78	84	77	75
0 6	91	83	78	74	83	74	81	73	80	73	71
5 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

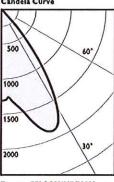
CCT Adjust. factors

4000K = 103%

3500K = 100%

25W LED, 3500K, 70° Wide 2000 lumen

Candela Curve



Frame: C7L20N1VBZ10V Trim: C7L1520DL35KWCLWVB

CCT!:	3500K
Output lumens:	2224 lms
Input watts2:	25.2 W
Efficacy:	88.3 lm/
CRI:	80 min
Spacing Crit.:	1.1
Beam Spread:	70°
Report no3:	706GFR

Zonal summary

90

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 C	Lumens
0	1304	
5	1267	127
10	1413	5555
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	1

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*		
5'	52	5.5'		
6'	36	6.6'		
7'	27	7.7'		
8'	20	8.8'		
9'	16	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 per sq. ft
5'	100.7	1.12
6'	66.1	0.73
7'	47.2	0.52
8'	39.3	0.44
9'	31.5	0.35

Finish Adjust. factors

CL = 100%

CCT Adjust. factors

4000K = 103%

CL =100%	4000K = 103%
CCL = 95%	3500K = 100%
CCD = 87%	3000K = 97%
CCZ = 63%	2700K = 87%
WH = 87%	

Coefficients of utilization

Celling		80)%		70)%	50	%	30)%	0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floo						e floc	rrefl	ectan	ce = 2	0%
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
Ratio	102	95	90	85	93	85	91	83	88	82	79
24	96	88	82	78	87	77	85	76	83	75	73
Room Cavity 8 2 9 5 4	91	82	76	71	81	71	79	70	77	69	67
0 6	86	76	70	65	75	65	74	65	72	64	62
5 7	81	71	65	60	70	60	69	60	68	59	57
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

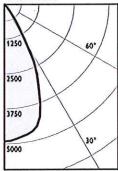
1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

above floor, 80/50/20% Reflectances

- 2. Wattage controlled to within 1/-5%.
- 3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

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

41W LED, 3500K, 55° Medium 3500 lumen



Frame: C7L35N1VBZ10V Trim: C7L1520DL35KMCLWVB

3500K 3434 lms Output lumens: Input watts²; Efficacy: 84.8 lm/w 80 mln Spacing Crit.: 0.8 55° Beam Spread: Report no³: 709GFR

Zonal summary

Zone	Lumens	%Luminaire
0-30	2920	85.0%
0-40	3370	98.1%
0-60	3432	99.9%
0-90	3434	100.0%

Angle	Mean CP	Lumen
0	4899	
5	4832	458
10	4724	500.00.00
15	4511	1234
20	3746	
25	2772	1228
30	1475	
35	674	449
40	249	1000000
45	50	58
50	7	
55	4	4
60	3	17.000
65	2	2
70	1	150
75	1	1
80	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (
5'	196	4.0'	
6'	136	4.8'	
7'	100	5.6'	
8'	77	6.4'	
9'	60	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'	159.1	1.80
6'	104.4	1.18
7'	74.6	0.84
8'	62.2	0.70
9'	49.7	0.56

above floor, 80/50/20% Reflectances

03%
00%
97%
87%

CCT Adjust, factors

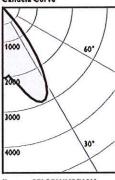
Coefficients of utilization

Finish Adjust. factors

Ceil	ing		80	0%		70)%	50	0%	30)%	0%
Wa	II	70	50	30	10	50	10	50	10	50	10	0
RCI	3	Zo	nal c	avity r	netho	d - E	fectiv	re floc	or refle	ectan	ce = 2	0%
-	0	119	119	119	119	116	116	111	111	106	106	100
	1	114	112	109	107	109	106	105	102	102	99	95
2	2	109	105	101	98	103	97	100	95	97	93	89
Ratio	3	104	99	94	91	97	90	95	88	92	87	84
≥ .	4	100	93	88	84	92	84	90	83	88	82	80
Š	5	95	88	83	79	87	79	85	78	84	77	75
Room Cavity	6	91	83	78	74	83	74	81	73	80	73	71
6	7	87	79	74	70	78	70	77	69	76	69	67
8	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	0	77	68	63	59	68	59	67	59	66	59	58

41W LED, 3500K, 70° Wide 3500 lumen

Candela Curve



Frame: C7L35N1VBZ10V Trim: C7L1520DL35KWCLWVB

CCT!	3500K
Output lumens:	3446 lms
Input watts2:	40.5 W
Efficacy:	85.1 lm/w
CRI:	80 min
Spacing Crit:	1.1
Beam Spread:	70°
Report no3:	710GFR

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 C	P Lumens

0	2019	
5	1962	197
10	2186	
15	2523	724
20	2853	20070
25	2896	1297
30	2488	ı
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	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	81	5.5'
6'	56	6.6'
7'	41	7.7
8'	32	8.8'
9'	25	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 per sq. ft.
5'	155.9	1.80
6'	102.3	1.18
7'	73.1	0.84
8'	60.9	0.70
9'	48.7	0.56
38'y38'y10' I	Room Workelane 2	5'

above floor, 80/50/20% Reflectances

Finish Adjust, factors **CCT Adjust. factors**

CL		100%	4000K = 103%
CCL	=	95%	3500K = 100%
CCD	=	87%	3000K = 97%
CCZ	=	63%	2700K = 87%
11/14	-	074	

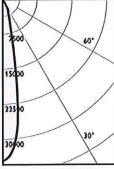
Coefficients of utilization

Celling		80	0%		70	0%	50	%	30	0%	0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zo	nal c	avity r	netho	d - E	fectiv	e floo	refl	ectan	ce = 20	0%
0	119	119	119	119	116	116	111	111	106	106	100
1	113	110	108	105	108	104	104	101	100	98	93
₽ 2	107	102	98	94	100	93	97	91	94	89	86
Ratio 2	102	95	90	85	93	85	91	83	88	82	79
	96	88	82	78	87	77	85	76	83	75	73
Room Cavity 8 2 9 5 4	91	82	76	71	81	71	79	70	77	69	67
0 6	86	76	70	65	75	65	74	65	72	64	62
5 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 1/-5%.
- 3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

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

69W LED, 3500K, 20° Narrow 6000 lumen



Frame: C7L50N1VBZ10V	
Trim: C7L50DL35KNCLWV	B

CCT 3500K 6174 lms 69.4 W **Output lumens:** Input watts2: Efficacy: 89.0 lm/w 80 mln Spacing Crit.: 0.3 20° Beam Spread: Report no³: 327GFR

Zonal summary

Zone	Lumens	%Luminaire
0-30	5902	95.6%
0-40	6133	99.3%
0-60	6169	99.9%
0-90	6174	100.0%

Angle	Mean CP	Lumens
0	34747	
5	30669	2475
10	16592	
15	6860	2151
20	4015	1.7758411.05
25	2810	1276
30	1411	
35	146	231
40	100	
45	39	33
50	5	
55	2	3
60	3	_
65	2	2
70	3	
75	1	2
80	0	40000
85	1	1
90	1	l

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)
5'	1390	1.5'
6'	965	1.8'
7'	709	2.1'
8'	543	2.4'
9'	429	2.7'

 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'	294	3.08	
6'	193	2.02	
7'	138	1.44	
8'	115	1.20	
9'	92	0.96	

Finish Adjust. factors **CCT Adjust. factors** CL = 100% 4000K = 103% CCL = 95% 3500K = 100%

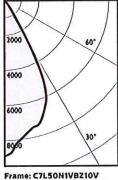
CCD = 87% 3000K = 97% 2700K = 87% CCZ = 63% WH = 87%

Coefficients of utilization

Ceiling		80	0%		70	0%	50)%	30	0%	0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zo	onal c	avity	netho	d - Ei	fectiv	e floc	or refle	ectan	ce * 2	0%
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 2	111	108	105	102	106	101	103	99	100	97	94
Room Cavity Ratio	108	103	100	97	102	96	100	95	97	93	9
≥ 4	105	99	95	92	98	92	96	91	94	90	88
≥ 5	102	96	92	89	95	88	93	88	92	87	85
ÿ 6	99	93	88	85	92	85	91	85	89	84	83
6 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° Medium 6000 lumen

Candela Curve



Trim: C7L50DL35KMCLWVB 3500K Output lumens: 5963 lms

Input watts2: Efficacy: 69.2 W 86.2 lm/w 80 min Spacing Crit.: 0.8 55° Beam Spread: Report no³: 329GFR

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 C	PLumens

0 5 10 15 20 25 30 35 40 45 50 60 65 8911 8195 7673 770 7395 2052 6676 2348 5541 2654 421 80 13 10 7 8 70 75 4

0

85

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	356	4.0'
6'	248	4.8'
7'	182	5.6'
8'	139	6.4'
9'	110	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'	276	3.07
6'	181	2.01
7'	129	1.44
8'	108	1.20
9'	86	0.96

above floor, 80/50/20% Reflectances

Finish Adjust. factors CCT Adjust. factors

CL =100%	4000K = 103%
CCL = 95%	3500K = 100%
CCD = 87%	3000K = 97%
CCZ = 63%	2700K = 87%
WH = 87%	

Coefficients of utilization

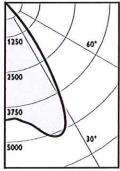
Celling		80	0%		70	%	50	%	30	%	0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zo	nal c	avity r	netho	d - El	fectiv	e floc	r refl	ectan	ce = 20	0%
0	119	119	119	119	116	116	111	111	106	106	100
1	114	111	109	107	109	105	105	102	102	99	95
₽ 2	109	105	101	98	103	97	100	95	97	93	89
2 gg 2	104	98	94	90	97	90	95	88	92	87	84
	100	93	88	84	92	84	90	83	88	82	79
≥ 5	95	88	83	79	87	78	85	78	84	77	75
0 6	91	83	78	74	82	74	81	73	80	73	71
Room Cavity 8 2 9 5 4	87	79	73	70	78	69	77	69	76	69	67
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 1/-5%.
- 3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

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

69W LED, 3500K, 70° Wide 6000 lumen

Candela Curve



Frame: C7L50N1VBZ10V Trim: C7L50DL35KWCLWVB

CCT!	3500K
Output lumens:	5889 lms
Input watts2:	69.2 W
Efficacy:	85.1 lm/w
CRI:	80 mln
Spacing Crit.:	1.1
Beam Spread:	70°
Report no3:	328GFR

Zonal summary

Lumens	%Luminaire
4013	68.1%
5608	95.2%
5881	99.9%
5889	100.0%
	4013 5608 5881

Angle	Mean CP	Lumeas
0	4197	
5	4120	404
10	4350	1000000
15	4705	1348
20	5106	
25	5077	2261
30	4159	
35	2538	1595
40	1197	2,000,0000
45	150	265
50	11	
55	10	8
60	7	
65	4	5
70	3	1001
75	2	2
80	1	
85	0	0
	11.25	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)
5'	168	5.5'
6'	117	6.6'
7'	86	7.7'
8'	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 per sq. ft.
5'	268	3.07
6'	176	2.01
7'	125	1.44
8'	105	1.20
9'	84	0.96
38'v38'v10' I	Room Workelane 2	5'

above floor, 80/50/20% Reflectances

Finish Adjust. factors CCT Adjust. factors CL = 100% 4000K = 103% CCL = 95% 3500K = 100% CCD = 87% 3000K = 97% CCZ = 63% WH = 87% 2700K = 87%

Coefficients of utilization

Cei	ling		80	0%		70	0%	50	%	30	0%	0%
Wa	all	70	50	30	10	50	10	50	10	50	10	0
RC	R	Zc	nal c	avity i	netho	d - E	fectiv	re floo	rrefl	ectan	ce = 20	0%
	0	119	119	119	119	116	116	111	111	106	106	100
	1	113	111	108	106	108	104	104	101	101	98	93
Ratio	2	108	103	99	95	101	94	98	92	95	90	86
E.	3	102	95	90	86	94	86	91	84	89	83	80
2	4	97	89	83	79	88	78	85	77	83	76	74
S	5	91	83	77	72	82	72	80	71	78	71	69
Room Cavity	6	86	77	71	67	76	66	75	66	74	66	64
ě	7	82	72	66	62	72	61	70	61	69	61	59
2	8	78	68	61	57	67	57	66	57	65	57	55
	9	74	63	57	53	63	53	62	53	61	53	51
1	0	70	60	54	50	59	50	58	49	58	49	48

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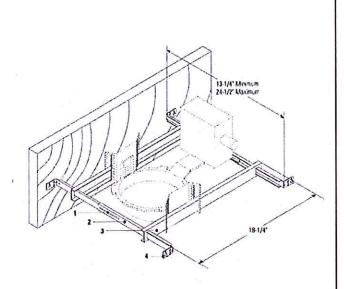
^{1.} Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

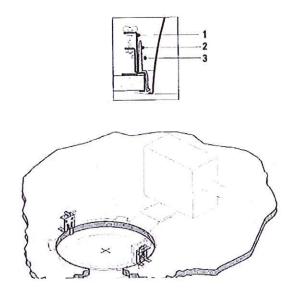
^{2.} Wattage controlled to within 1/-5%.

^{3.} Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

Page 1 of 1

Mounting Bars/Accessories





Catalog No.

7994 Wood Joist Mounting Bars

Notes:

Catalog No.

Features 1. Retaining Clips: 24 ga. steel with blackoxide finish.

7998 Retaining Clips - Package of (2)

- 2. Mounting Frame: Calculite® Modular System die-cast mounting frame (order seperately) with integral brackets attaches directly to existing ceiling retaining clips in place of the fixture's standard mounting bars.
- 3. Mounting Screws: (4) for mounting on each side.

Features

- 1. Adjustment Slot: Lockable with screws.
- 2. Telescoping Mounting Bars: Allow fixture to be positioned anywhere between joists spaced up to 24" on center. Can also be used on suspended
- 3. Crossbars: Allow fixture to be positioned legnthwise or crosswise to the wood joist.
- 4. Nail Tab

Options & Accessories

Mounting Bars:

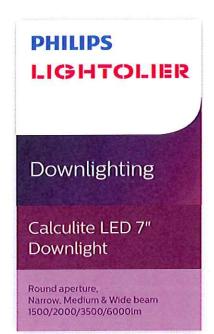
1950 - 18" Set of (2) 1951 - 27" Set of (2)

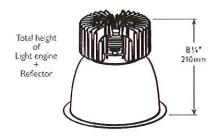
T-Bar Anchor Clips:

1956 - Set of (4), for use with above

Job Information Type: N Job Name: MIDWEST REGIONAL BANK Cat. No.: 1951 Lamp(s):

www.lightolier.com Lightolier a Genlyte Thomas Company 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710 We reserve the right to change details of design, materials and finish. © 2002 Genlyte Thomas Group LLC (Lightolier Division) . A0902





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.



Project:	MIDWEST REGIONAL BANK
Location:	C7L50N1VBZ10V/
Cat.No:	
Туре:	М
Lamps:	Qty:
Notes:	C7L50DL40KWCL

example: C7L15NUVBZ10V

Series	Lumens	Installation	Input voltage	Version	Dimming	Options ⁵
				VB		
C7L Calculite 7" LED round aperture	15 1500 lm	N New construction R Remodeler	U Universal (120/277V)	VB Version B	Z10V 0-10V dimming LD Lutron driver	EM Emergency¹ LC Chicago Plenum³
	20 2000lm 35 3500lm 50 6000lm	N New construction R Remodeler 6	1 120V 2 277V	VB Version B	Z10V 0-10V dimming LD Lutron driver	EM Emergency ¹ LC Chicago Plenum ³
C7L Calculite 7" LED round aperture (347y configurations	15 1500 lm 20 2000 lm 35 3500 lm	N New construction R Remodeler	1 120V	VB Version B	Z10V 0-10V dimming	-347 347V (for Canada) ²
	50 6000lm	N New construction	2 277V	VB Version B	Z10V 0-10V dimming	-347 347V (for Canada) ²
CUL Calculite LED Universal aperture	15 1500 lm	J J-box mount retrofit	U Universal (120/277V)	VB Version B	Z10V 0-10V dimming Existing wiring will determine	if dimming is an option.
	20 2000lm	J J-box mount retrofit	1 120V 2 277V	VB Version B	Z10V 0-10V dimming Existing wiring will determine	if dimming is an option.
	15 1500 lm 20 2000 lm	S Screw-In base retrofit	1 120V	VB Version B	Existing wiring will determine	If dimming is an option.

Trim kit

Frame-in kit

example: C7L1520DL35KWCCDPVB

Series	Lumens	Style	ССТ	Beam	Reflector	Flange	Version ¹
C7L							VB
C7L Calculite 7* LED round aperture	1520 1500/2000/ 3500 lm 50 6000 lm	DL Downlight	27K 2700K 30K 3000K 35K 3500K 40K 4000K	N Narrow, 20* 0.3 s.c ² M Medium, 55* 0.8 s.c. W Wide, 70* 1.1 s.c.	CL Clear CCL Comfort clear CCD Comfort clear diffuse CCZ Champagne bronze WH White (painted)	W White (painted) P Polished (matches aperture) FT Flangeless (flush-mount) 4.5	VB Version E

- 1. Consult LED-EM spec sheet for Emergency (EM) option details and restrictions. Not available with Lutron driver (LD) diming.
- 2. Consult factory for availability of other 347V (-347) option configurations.
- 3. Consult factory for availability for other Chicago Plenum (LC) option configurations. Not available for 6000 (50) lumen frame-in kits.
- 4. Accessory CA7FMR required for gypsum applications and flangelss (FT) trims (minimal 1/4" reflector flange).
- 5. Available for new construction (N) installation frame-in kits only.
- 6. Available for 2000 (20) lumen frame-in kits only.
- 7. Available for 6000 (50) lumen trim kits only.

Note: See page 3 for Energy Star' compatibility.

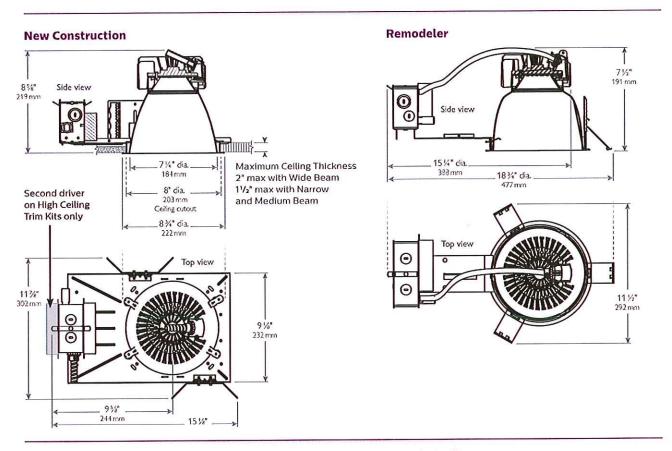


CA7FMR

Flangeless trim with plaster ring accessory. (Required for gypsum installations)



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 ceilings up to 1 ½ max.

Mounting brackets: Galvanized Steel.

Adjustable through aperture. Use ¾ or 1½ lathing channel, ½ 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" (64mm) ceiling thickness.

Retrofit

Compatibility: Downlight only.
Capability: Converts 6" (153mm) or
7" (178mm) 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) availability please reference the Philips Luminaire Smart Service Guide or contact your Philips Lighting representative. Quick-ship SKUs apply to the United States only.

Options and accessories

Dimming capability:
0-10V 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 (minimu

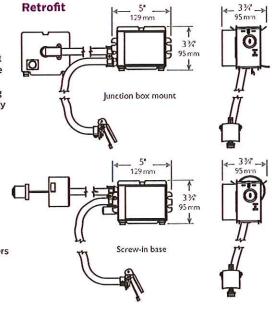
mounting bars (minimum 131/4" and maximum 241/2")

T-Bar anchor clips:

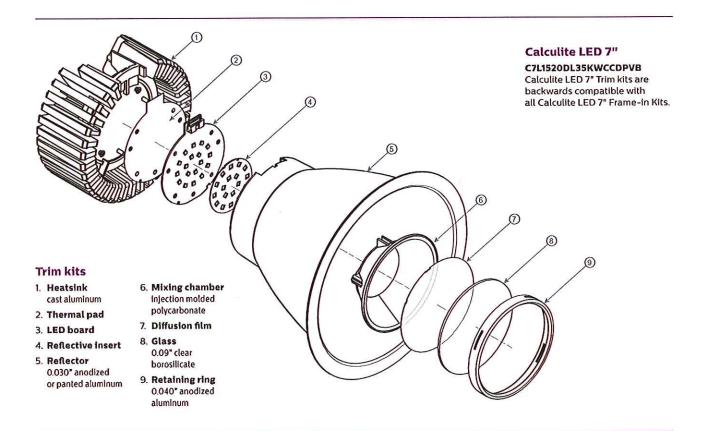
1956 For 18"/27" mounting bars (set of 4)

Decorative elements:

D7A Consult 7in Vetro spec sheet



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



Features

Ceiling cutout: 7" aperture; 8" (203mm).

Depth: 85/8" (219mm) 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°C through branch circuit connectors.

Thermal protector: Meets NEC & UL requirements. Do not install insulation above or within 3" 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® 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, 50/60Hz, encased, overload and short circuit protected, thermal regulation to protect against overheating, sound rating. "A", -20°C minimum starting temperature.

Rated life: Offers 60,000 hour rated life (3500lm offer 40,000 hour rated life) at 70% lumen maintenance (L70). Tested in accordance with IES LM-80-08 and TM-21-11.

Labels

cULus, I.B.E.W. Suitable for wet locations. 5 year warranty. ENERGY STAR* certified (see exclusions to the left).

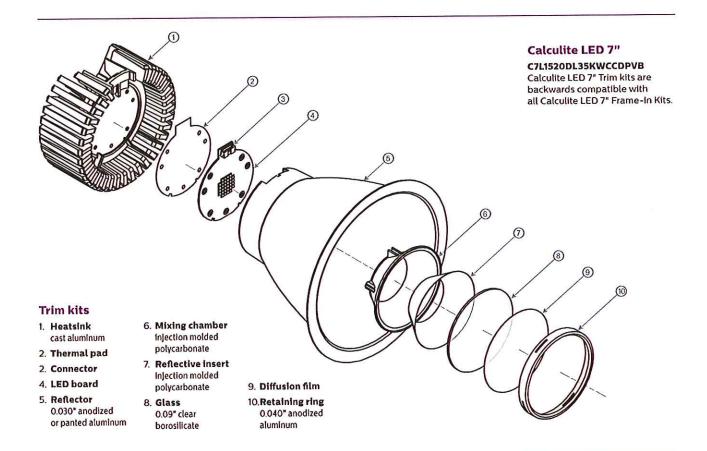
Frame-In kit Electrical specifications	Input volts			LED drive current			THD factor	Power factor
C7L15 UVBZ10V	120V	50/60Hz	0.16A	300mA	18W	15W	<15%	>0.90
1500lm w/0-10V dimming	277V	50/60Hz	0.08A	300mA	18W	15W	<20%	>0.90
C7L20VBZ10V	120V	50/60Hz	0.20A	400mA	25W	20W	<15%	>0.90
2000lm w/0-10V dimming	277V	50/60Hz	0.09A	400mA	25W	20W	<15%	>0.90
C7L35N_VBZ10V 3500lm w/0-10V dimming	120V	50/60Hz	0.35A	700mA	41W	35W	<10%	>0.95
	277V	50/60Hz	0.16A	700mA	41W	35W	<15%	>0.90

^{* 1.5%}

■ Applies to both New Construction (N) and Remodeler (R) Installations.

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

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



Features

Ceiling cutout: 7" aperture; 8" (203mm).

Depth: 81/4" (210mm) 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°C through branch circuit connectors.

Thermal protector: Meets NEC & UL requirements. Do not install insulation above or within 3" 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, 50/60Hz, encased, overload and short circuit protected, thermal regulation to protect against overheating, sound rating. "A", -20°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.

Labels

cULus, I.B.E.W. Suitable for wet locations. 5 year warranty.

	Input volts			LED drive current				Power factor
C7L50N_VBZ10V 6000lm w/0-10V dimming	120V	50/60Hz	0.58A	650mA	70W	57W	<20%	>0.90
	277V	50/60Hz	0.27A	650mA	70W	57W	<20%	>0.90

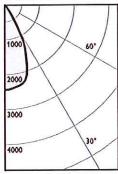
^{• -/-59}

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

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

18W LED, 3500K, 55° Medium 1500 lumen

Candela Curve



Frame: C7L15NUVBZ10V Trim: C7L1520DL35KMCLWVB

CCT¹: 3500K
Output lumens: 1716 lms
Input watts²: 18.3 W **Efficacy: 93.7 lm/w**CRI: 80 mln
Spacing Crit:: 0.8
Beam Spread: 55°
Report no³: 701GFR

Zonal summary

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	Lumen
0	2450	
5	2419	229
10	2363	
15	2255	617
20	1869	[
25	1386	613
30	734	l
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

ingle unit data

and an annual and					
Height to lighted plane	Initial center beam foot-candles	Beam diameter (f			
5'	98	4.0'			
6'	68	4.8'			
7'	50	5.6'			
8'	38	6.4			
9'	30	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 persq.ft.
5'	79.5	0.81
6'	52.2	0.53
7'	37.3	0.38
8'	31.0	0.32
9'	24.8	0.25
201-201-1011	Dages Workslage 2	E!

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Finish Adjust. factors CCT Adjust. factors

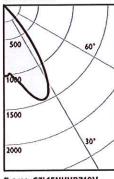
CL =100%	4000K = 103%
CCL = 95%	3500K = 100%
CCD = 87%	3000K = 97%
CCZ = 63%	2700K = 87%
WH = 87%	

Coefficients of utilization

Ceiling		80)%		70	%	50% 30%			0%	0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zo	nal c	avity r	netho	d - El	fectiv	e floc	r refle	ectane	ce = 20	0%
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
Ratio 2	104	99	94	91	97	90	95	88	92	87	84
≥ 4	100	93	88	84	92	84	90	83	88	82	80
Room Cavity 8 2 9 2 8	95	88	83	79	87	78	85	78	84	77	75
0 6	91	83	78	74	83	74	81	73	80	73	71
6 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

18W LED, 3500K, 70° Wide 1500 lumen

Candela Curve



Frame: C7L15NUVBZ10V Trim: C7L1520DL35KWCLWVB

CCT1:	3500K
Output lumens:	1733 lms
Input watts2:	18.3 W
Efficacy:	94.7 lm/w
CRI:	80 min
Spacing Crit:	1.1
Beam Spread:	70°
Report no3:	702GFR

Zonal summary

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 C	P Lumens

0	1016	
5	991	99
10	1104	
15	1274	366
20	1441	
25	1458	653
30	1249	19180-02
35	850	518
40	402	200
45	52	90
50	7	
55	5	4
60	3	1.051
65	2	2
70	1	- 20
75	1	1
80	Ó	
85	ŏ	0
		0
90	0	1
,		ž:

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)		
5'	41	5.5'		
6'	28	6.6'		
7'	21	7.7'		
8'	16	8.8'		
9'	13	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 per sq. ft
5'	78.4	0.81
6'	51.5	0.53
7'	36.8	0.38
8'	30.6	0.32
9'	24.5	0.25

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Finish Adjust, factors CCT Adjust, factors

CL =100%	4000K = 103%
CCL = 95%	3500K = 100%
CCD = 87%	3000K = 97%
CCZ = 63%	2700K = 87%
WH = 87%	

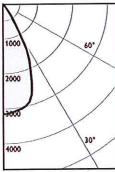
Coefficients of utilization

Celling Wall			80	0%		70	0%	50% 30%		0%	0%	
		70	50	30	10	50	10	50	10	50	10	0
RC	R	Zo	nal c	avity r	netho	d - El	fectiv	e floo	r refl	ectan	ce = 20	0%
	0	119	119	119	119	116	116	111	111	106	106	100
	1	113	110	108	105	108	104	104	101	100	98	93
0	2	107	102	98	95	101	93	97	91	94	89	86
Ratio	3	102	95	90	85	93	85	91	83	88	82	79
>	4	96	88	82	78	87	77	85	76	83	75	73
ž	5	91	82	76	71	81	71	79	70	77	69	67
Room Cavity	6	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	56	66	55	65	55	63	55	53
500	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 1/-5%.
- 3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

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

25W LED, 3500K, 55° Medium 2000 lumen



Frame: C7L20N1VBZ10V Trim: C7L1520DL35KMCLWVB

3500K

CCT¹: Output lumens: 2209 lms Input watts²: Efficacy: 25 2 W 87.7 lm/w 80 min 0.8 Spacing Crit.: Beam Spread: Report no3: 705GFR

Zonal summary

Lumens	%Luminaire			
1879	85.1%			
2167	98.1%			
2207	99.9%			
2209	100.0%			
	1879 2167 2207			

Angle	Mean CP	Lumen
0	3153	
5	3110	295
10	3040	
15	2903	794
20	2410	
25	1785	790
30	943	1
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	
		1

Single unit data

Initial center beam foot-candles	Beam diameter (ft
126	4.0'
88	4.8'
64	5.6'
49	6.4
39	7.2'
	126 88 64 49

* Beam diameter is where foot-candles

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'	40.0	0.44
9'	32.0	0.35

above floor, 80/50/20% Reflectances

Finish Adjust, factors **CCT Adjust. factors**

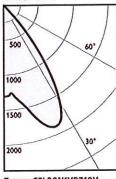
CL =100%	4000K = 103%
CCL = 95%	3500K = 100%
CCD = 87%	3000K = 97%
CCZ = 63%	2700K = 87%
WU - 97%	

Coefficients of utilization

Ceiling		80	0%		70	%	50	%	30	1%	0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zo	nal c	avity r	netho	d - El	fectiv	e floc	rrefle	ectan	e = 20	0%
0	119	119	119	119	116	116	111	111	106	106	100
1	114	112	109	107	109	106	105	102	102	99	95
₽ 2	109	105	101	98	103	97	100	95	97	93	89
Room Cavity Ratio 8 2 9 2 7 8 5 2	104	99	94	91	97	90	95	88	92	87	84
≥ 4	100	93	88	84	92	84	90	83	88	82	80
₹ 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
6 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

25W LED, 3500K, 70° Wide 2000 lumen

Candela Curve



Frame: C7L20N1VBZ10V Trim: C7L1520DL35KWCLWVB

CCT!	3500K
Output lumens:	2224 lms
Input watts2:	25.2 W
Efficacy:	88.3 lm/w
CRI:	80 min
Spacing Crit.:	1.1
Beam Spread:	70°
Report no3:	706GFR

Zonal summary

Zone	Lumens	%Luminaire
0-30	1432	64.4%
0-40	2098	94.3%
0-60	2220	99.8%
0-90	2224	100.0%
Anele	l Manne	DIumans

Angle	Mean CP	Lumens
0	1304	
5	1267	127
10	1413	100000
15	1631	468
20	1844	
25	1870	837
30	1604	
35	1095	666
40	519	ASSASSANCE.
45	66	116
50	9	
55	6	6
60	4	-
65	3	3
70	2	
75	1	1
80	1	- 20
85	0	0
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	52	5.5'
6'	36	6.6'
7'	27	7.7'
8'	20	8.8'
9'	16	9.9'

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

Spacing on center	Initial center beam foot-candles	Watts per sq. ft
5'	100.7	1.12
6'	66.1	0.73
7'	47.2	0.52
8'	39.3	0.44
9'	31.5	0.35

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Finish Adjust. factors CCT Adjust. factors

And the same of th
4000K = 103%
3500K = 100%
3000K = 97%
2700K = 87%

Coefficients of utilization

Celling		80	0%		70	0%	50	%	30	0%	0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zo	nal c	avity r	metho	d - Ef	fectiv	e floo	refle	ectan	ce = 20	0%
0	119	119	119	119	116	116	111	111	106	106	100
1	113	110	108	106	108	104	104	101	100	98	93
0 2	107	102	98	95	101	93	97	91	94	89	86
Ratio 3	102	95	90	85	93	85	91	83	88	82	79
24	96	88	82	78	87	77	85	76	83	75	73
ž 5	91	82	76	71	81	71	79	70	77	69	67
Ŭ 6	86	76	70	65	75	65	74	65	72	64	62
6 7	81	71	65	60	70	60	69	60	68	59	57
Room Cavity 8 2 9 5 4	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 1/-5%.
- 3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

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

41W LED, 3500K, 55° Medium 3500 lumen

1250 2500 3750 5000

Frame: C7L35N1VBZ10V Trim: C7L1520DL35KMCLWVB

3500K 3434 lms 40.5 W Output lumens: Input watts2: Efficacy: 84.8 lm/w 80 mln Spacing Crit.: Beam Spread: Report no³: 550 709GFR

Zonal summary

Zone	Lumens	%Luminaire
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	Manager
15	4511	1234
20	3746	5890825.0
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	1.60
85	0	0
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft
5'	196	4.0'
6'	136	4.8'
7'	100	5.6'
8'	77	6.4
9'	60	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'	159.1	1.80
6'	104.4	1.18
7'	74.6	0.84
8'	62.2	0.70
9'	49.7	0.56

38'x38'x10' Room, Workplane 2.5 above floor, 80/50/20% Reflectances

CCT Adjust. factors Finish Adjust, factors

CL	= 100%	4000K = 103%
CCL	= 95%	3500K = 100%
CCD	= 87%	3000K = 97%
CCZ	= 63%	2700K = 87%
WH	= 87%	

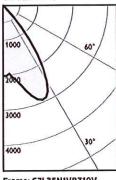
Coefficients of utilization

Cei	ling		80	0%		70	%	50	%	30	%	0%
Wa	all	70	50	30	10	50	10	50	10	50	10	0
RC	R	Zo	nal c	avity r	netho	d - E	fectiv	e floc	r refle	ectan	ce = 20	0%
	0	119	119	119	119	116	116	111	111	106	106	100
	1	114	112	109	107	109	106	105	102	102	99	95
0	2	109	105	101	98	103	97	100	95	97	93	89
Room Cavity Ratio	3	104	99	94	91	97	90	95	88	92	87	84
2	4	100	93	88	84	92	84	90	83	88	82	80
2	5	95	88	83	79	87	79	85	78	84	77	75
ũ	6	91	83	78	74	83	74	81	73	80	73	71
5	7	87	79	74	70	78	70	77	69	76	69	67
õ	8	84	75	70	66	75	66	74	66	73	65	64
	9	80	71	66	63	71	62	70	62	69	62	61
- 8	10	77	68	63	59	68	59	67	59	66	59	58

41W LED, 3500K, 70° Wide 3500 lumen

Candela Curve

CCT



Frame: C7L35N1VBZ10V Trim; C7L1520DL35KWCLWVB

CCT	3500K
Output lumens:	3446 lms
Input watts2:	40.5 W
Efficacy:	85.1 lm/w
CRI:	80 min
Spacing Crit.:	1.1
Beam Spread:	70°
Report no3	710GFR

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 C	P Lumens
	+	

2019	
1962	197
100000000000000000000000000000000000000	
0.77	724
	1297
	1032
	181
	_
	9
	4
	4
	2
	-
,	0

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	81	5.5
6'	56	6.6
7'	41	7.7'
8'	32	8.8'
9'	25	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 per sq. ft.
5'	155.9	1.80
6'	102.3	1.18
7'	73.1	0.84
8'	60.9	0.70
9'	48.7	0.56

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Finish Adjust. factors CCT Adjust. factors

	Commence of the control of the contr
CL = 100%	4000K = 103%
CCL = 95%	3500K = 100%
CCD = 87%	3000K = 97%
CCZ = 63%	2700K = 87%
WH = 87%	

Coefficients of utilization

Celling		80	0%		70	0%	50	%	30	0%	0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zo	nal ca	avity r	netho	d - El	fectiv	e floo	refle	ectan	ce = 20	0%
0	119	119	119	119	116	116	111	111	106	106	100
1	113	110	108	105	108	104	104	101	100	98	93
₽ 2	107	102	98	94	100	93	97	91	94	89	86
Room Cavity Ratio 8 2 9 2 7 8 6 7	102	95	90	85	93	85	91	83	88	82	79
≥ 4	96	88	82	78	87	77	85	76	83	75	73
\$ 5	91	82	76	71	81	71	79	70	77	69	67
Ü 6	86	76	70	65	75	65	74	65	72	64	62
5 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 1/-5%.
- 3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

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

69W LED, 3500K, 20° Narrow 6000 lumen

Candela Curve

Frame: C7L50N1VBZ10V Trim: C7L50DL35KNCLWVB

6174 lms 69.4 W Output lumens: Input watts2: Efficacy: 89.0 lm/w 80 min CRI: Spacing Crit.: 0.3 20° Beam Spread: Report no³: 327GFR

Zonal summary

Lumens	%Luminaire
5902	95.6%
6133	99.3%
6169	99.9%
6174	100.0%
	5902 6133 6169

Angle	Mean CP	Lumens
0	34747	
5	30669	2475
10	16592	000000000000000000000000000000000000000
15	6860	2151
20	4015	=
25	2810	1276
30	1411	
35	146	231
40	100	
45	39	33
50	5	
55	2	3
60	3	
65	2	2
70	3	7.00
75	1	2
80	0	
85	1	1
90	1	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	1390	1.5'
6'	965	1.8'
7'	709	2.1'
8'	543	2.4'
9'	429	2.7'

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'	294	3.08
6'	193	2.02
7'	138	1.44
8'	115	1.20
9'	92	0.96

above floor, 80/50/20% Reflectances

CCT Adjust. factors Finish Adjust, factors 4000K = 103% CL = 100% CCL = 95% 3500K = 100% CCD = 87% 3000K = 97% 2700K = 87% CCZ = 63%

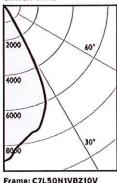
WH = 87%

Coefficients of utilization

Cei	ting		80)%		70	0%	50	%	30	0%	0%
Wa	all	70	50	30	10	50	10	50	10	50	10	0
RC	R	Zo	nal c	avity r	netho	d - El	fectiv	e floc	r refle	ectan	ce * 20	0%
	0	119	119	119	119	116	116	111	111	106	106	100
	1	115	113	111	109	111	108	107	104	103	101	97
0	2	111	108	105	102	106	101	103	99	100	97	94
Room Cavity Ratio	3	108	103	100	97	102	96	100	95	97	93	91
2	4	105	99	95	92	98	92	96	91	94	90	88
N	5	102	96	92	89	95	88	93	88	92	87	85
Ü	6	99	93	88	85	92	85	91	85	89	84	83
ğ	7	96	90	86	83	89	82	88	82	87	82	80
8	8	93	87	83	80	86	80	86	80	85	79	78
	9	91	84	80	78	84	78	83	77	83	77	76
1	10	89	82	78	76	82	76	81	75	81	75	74

69W LED, 3500K, 55° Medium 6000 lumen

Candela Curve



Frame: C7L50N1VBZ10V Trim: C7L50DL35KMCLWVB

CCT	3500K
Output lumens:	5963 lms
Input watts2:	69.2 W
Efficacy:	86.2 lm/w
CRI:	80 min
Spacing Crit.:	0.8
Beam Spread:	55°
Report no ¹	329GFR

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 C	P Lumens
0	891	1
-	0100	270

8195 7673 7395 10 15 20 25 30 35 40 45 50 65 70 75 80 85 2052 6676 2348 5541 2654 839 421 80 13 662 113 8

Single unit data

amgre unit data						
Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*				
5'	356	4.0'				
6'	248	4.8'				
7'	182	5.6'				
8'	139	6.4				
9'	110	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'	276	3.07	
6'	181	2.01	
7'	129	1.44	
8'	108	1.20	
9'	86	0.96	

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Finish Adjust. factors **CCT Adjust. factors**

CL =100%	4000K = 103%
CCL = 95%	3500K = 100%
CCD = 87%	3000K = 97%
CCZ = 63%	2700K = 87%
WH = 87%	

Coefficients of utilization

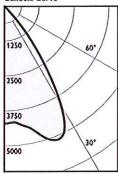
Ceiling Wall RCR		80%				70%		50%		30%		0%
		70	50	30	10	50	10	50	10	50	10	0
		Zo	Zonal cavity method - Effective floor reflectance = 20%									
	0	119	119	119	119	116	116	111	111	106	106	100
	1	114	111	109	107	109	105	105	102	102	99	95
0	2	109	105	101	98	103	97	100	95	97	93	89
Ratio	3	104	98	94	90	97	90	95	88	92	87	84
2	4	100	93	88	84	92	84	90	83	88	82	79
Room Cavity	5	95	88	83	79	87	78	85	78	84	77	75
Ü	6	91	83	78	74	82	74	81	73	80	73	71
9	7	87	79	73	70	78	69	77	69	76	69	67
2	8	83	75	69	66	74	66	73	65	72	65	64
500	9	80	71	66	62	71	62	70	62	69	62	60
1	0	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 1/-5%.
- 3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

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

69W LED, 3500K, 70° Wide 6000 lumen

Candela Curve



Frame: C7L50N1VBZ10V Trim: C7L50DL35KWCLWVB

CCT':	3500K
Output lumens:	5889 lms
Input watts2:	69.2 W
Efficacy:	85.1 lm/w
CRI:	80 mln
Spacing Crit.:	1.1
Beam Spread:	70°
Report no3:	328GFR

Zonal summary

Zone	Lumens	%Luminaire
0-30	4013	68.1%
0-40	5608	95.2%
0-60	5881	99.9%
0-90	5889	100.0%
Angle	Mean C	Lumens
_	4197	

0	4197	
5	4120	404
10	4350	
15	4705	1348
20	5106	
25	5077	2261
30	4159	
35	2538	1595
40	1197	(2000)
45	150	265
50	11	
55	10	8
60	7	
65	4	5
70	3	580
75	2	2
80	1	
85	ò	0
90	0	(#.0)

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)
5'	168	5.5'
6'	117	6.6'
7'	86	7.7'
8'	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 per sq. ft
5'	268	3.07
6'	176	2.01
7'	125	1.44
8'	105	1.20
9'	84	0.96

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Finish Adjust. factors CCT Adjust. factors

CL = 100%	4000K = 103%
CCL = 95%	3500K = 100%
CCD = 87%	3000K = 97%
CCZ = 63%	2700K = 87%
WH = 87%	

Coefficients of utilization

Ceiling	80%			70	70%		0%	30	30%		
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%									0%	
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
E 23	102	95	90	86	94	86	91	84	89	83	80
≥ 4	97	89	83	79	88	78	85	77	83	76	74
₹ 5	91	83	77	72	82	72	80	71	78	71	69
Room Cavity Ratio 8 2 9 2 7 8 8 5	86	77	71	67	76	66	75	66	74	66	64
5 7	82	72	66	62	72	61	70	61	69	61	59
8 S	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.

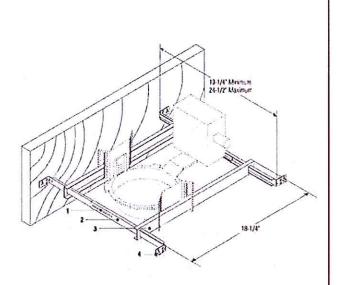
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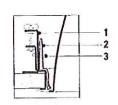


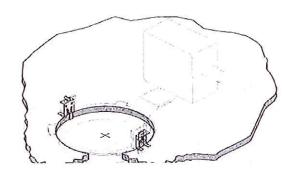
Phillips Lighting, North America Corporation 200 Franklin Square Drive, Somerset, NJ 08873 Tel. 855-486-2216

Imported by: Philips Lighting, A division of Philips Electronics Ltd. 281 Hillmount Rd, Markham, ON, Canada L6C 2S3 Tel. 800-668-9008 Page 1 of 1

Mounting Bars/Accessories







Catalog No.

7994 Wood Joist Mounting Bars

Catalog No.

7998 Retaining Clips - Package of (2)

Features

- 1. Adjustment Slot: Lockable with screws.
- 2. Telescoping Mounting Bars: Allow fixture to be positioned anywhere between joists spaced up to 24" on center. Can also be used on suspended
- 3. Crossbars: Allow fixture to be positioned legnthwise or crosswise to the wood joist.
- 4. Nail Tab

Options & Accessories

Mounting Bars: 1950 - 18" Set of (2) 1951 - 27" Set of (2)

T-Bar Anchor Clips: 1956 - Set of (4), for use with above

Features

- 1. Retaining Clips: 24 ga. steel with blackoxide finish.
- 2. Mounting Frame: Calculite® Modular System die-cast mounting frame (order seperately) with integral brackets attaches directly to existing ceiling retaining clips in place of the fixture's standard mounting bars.
- 3. Mounting Screws: (4) for mounting on each side.

Job Information

Type:

M

Job Name: MIDWEST REGIONAL BANK

Cat. No.: 1951

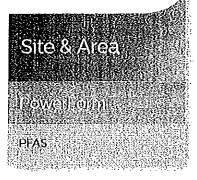
Lamp(s):

Notes:

www.lightolier.com Lightolier a Genlyte Thomas Company 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710 We reserve the right to change details of design, materials and finish. © 2002 Genlyte Thomas Group LLC (Lightolier Division) . A0902

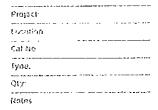
PHILIPS

GARDCO











Phillips Gardco PowerForm area LED luminaires provide up to 1,000W HID replacement while significantly reducing energy and maintenance costs. PowerForm features an architecturally styled, modular housing design available in five different sizes for a range of commercial, retail, industrial, and other large area outdoor applications. PowerForm is available with multiple lumen packages delivering approximately 20,000 to 95,000 lumens.

Ordering guide

example: PFAS-184L-1A-NW-GI-AR-5W-120-PCB-F1-BZ

Prefix PFAS	Number of LEOs 92L	700	HW-61	Mounting State of the state of	Distribution	Voltage 120 120V	Controls DD 0-X07 Diraming Driver ¹		Luminake	Finish
PowerForm Area Ste	92 LEOs (2 modules) 138 LEOs (3 modules) 184 LEOs (4 modules) 210 LEOs (5 modules) 215 LEOs (6 modules)	IĄ Jámp	4000K, 70CRI Generation I NW90+GI	SF Sto Filter Stourt (fis to 21/1"	Type 2 3 Type 3 4 Type 4 Type 4 Type 5W AFR ALAO Front Row. AFR-90 AUO Front Row. Rotated 90° ALAO Front Row. Rotated 20° AUO Front Row. Rotated 270°	HYU 347-450Y (50/60Hz)	DCC Dual Creus Control Dynabirment Automatic Profile Directing CSSO Safety SOR Directing, Thomas 111 CESO Economy SOR Directing, 8 hours 111 DASO All tright SOR Directing, 8 hours 111 DASO All tright SOR Directing, 9 hours 111 DASO This Lock Receptacle Systems (TWHILLOCK Receptacle Systems TERPC Trist Lock Receptacle 5 Parts TERPC Trist Lock Receptacle 12 Parts TERPC Trist Lock Rec	FI Strate (120, 271, 34TVAC)* 12 Oouble (208, 240, 480VAC)* FI Canadian Double Put (208, 240, 480VAC)* Pole Mount Fusing FPI Strate (120, 277, 34TVAC)* FP2 Double		BX Black WH White BZ Bronze DGY Dark Gray HGY Medium Gray Customer specified RAL Specify optional cctor or RAL (ex OC-160-por CO-RAL7024) CC Custom color (Mark supply cotor thry for required factory quote)

- L Not available with Dimming Orber (OD) option.
- 2. Not available with Dual Circuit Control (DCC) option.
- 3. Available in 120-277V or UNV only.
- Avadadet in 1977Y of convolved.
 Choose PCB or one of the TLRO Twist Lock Receptacle options or one of the LLC Wireless options. Not available with DCC.
 TLROS/7 option not available with LLC, PCB, TLRPC or DCC. Max alming angle 45: Works with 3 or 5 pin NEMA photoceal/dimming. Dirming with not be connected to NEMA receptacle if ordering with OD, CS/CM/CE/DA, IMRI and IMRO.
- 6. Hot available with 480V.
- IMRi option not available with 23GL-1A or 27GL-1A in 12OV (wallage restrictions). Available in 12O or 277V only. Must specify voltage. Not available with OD, LLC or DCC.
- IMRO option available in 120 or 277V only.
 Must specify voltage. Not available with DD, LLC or DCC
- LLC not available with 2301-1A or 2761-1A in 120, 208 and 240V. Not available with TLRPC, PCB, IMRI, CS/CNUCE/DA or ELCR accessory.
- Terminal Block (18) and Square Pole Adaptor (SPA) options available with aim mount only (AR)
- II. Must specify specific input voltage.
- 12. HIS option not available with SVY, AFR-90 and AFR-270 (see AFRES accessory)

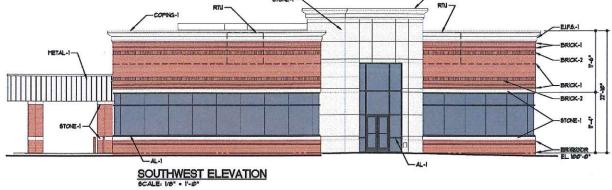


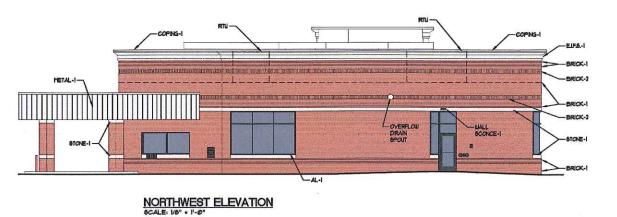
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MIDWEST REGIONAL BANK
CHESTERFIELD, MISSOURI

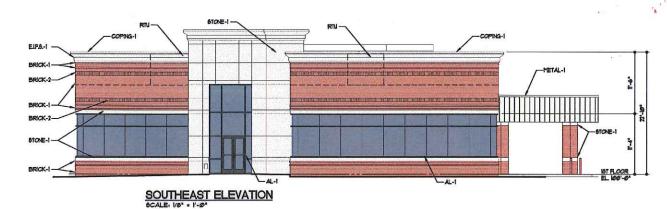
Dandy & ASSOCIATES, INC.

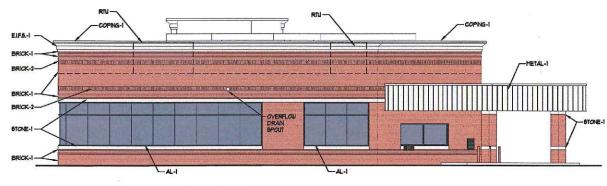












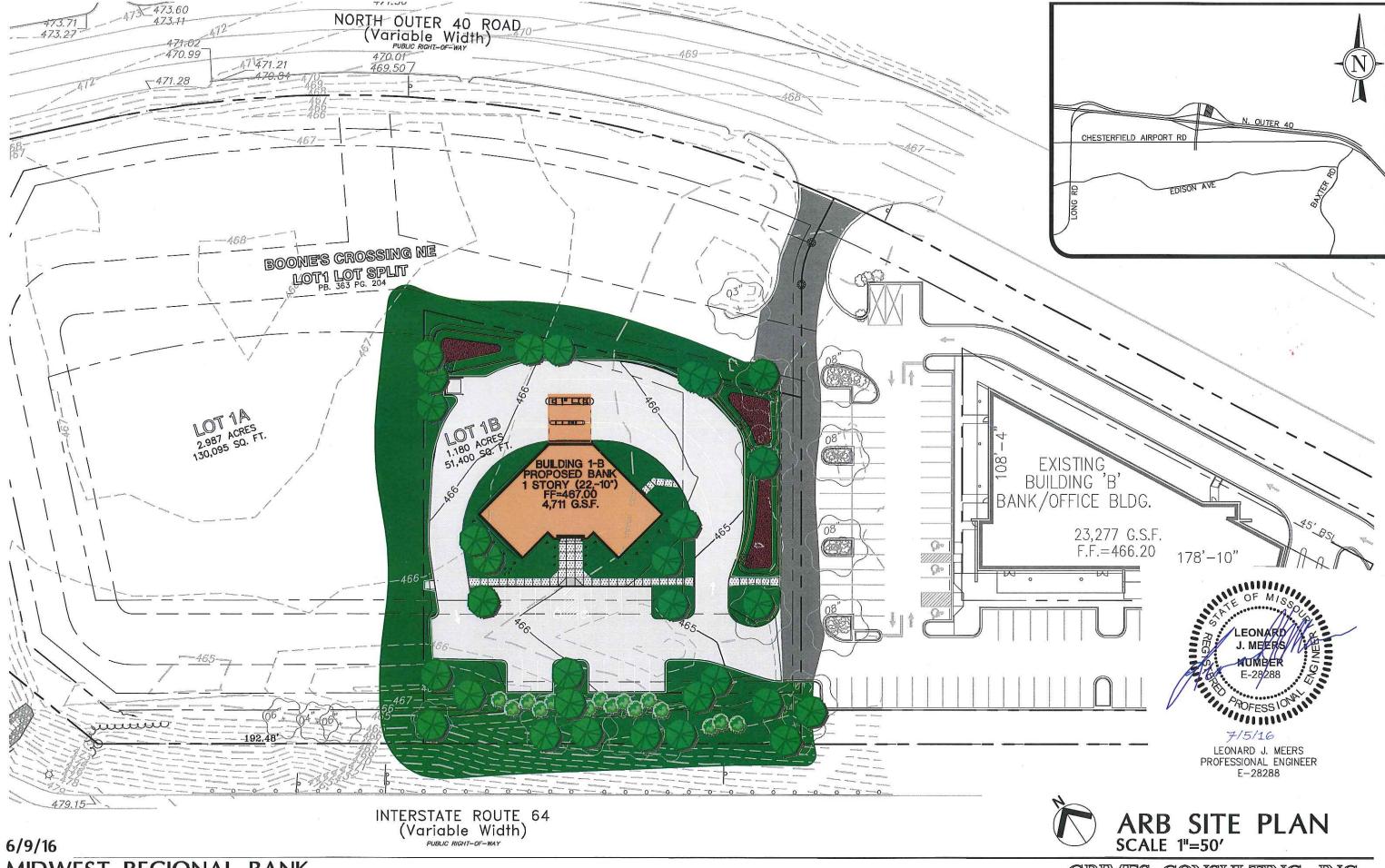
NORTHEAST ELEVATION

NO	MANUFACTURER	COLOR	FINISH	REMARKS
AL-I	TB8	DARK BRONZE	PREFINISHED	GLAZED ALUMN CURTAIN WALL W I" SOLAR GREY INSULATED GLASS
BRICK-I	BORAL.	MONTICELLO BLENO	NA	
BRICK-2	BORAL	MONTICELLO BLEND	NA	SOLIDER COURSE
COPING-I	DIMENSIONAL METALS INC.	SANDSTONE	PREFINISHED	
EJF.S1	DRYVIT	MATCH STONE-I	SANDBLAST	EJFS. TO MATCH STONE-I COLOR
STONE-1	ARCHITECTURAL CAST STONE	TAN	N/A	
METAL-I	DIMENSIONAL METALS INC.	SANDSTONE	PREFINISHED	
WALL SCONCE-1	PHILIPS STONCO	DARK BRONZE	PREFINISHED	EGRESS LIGHT



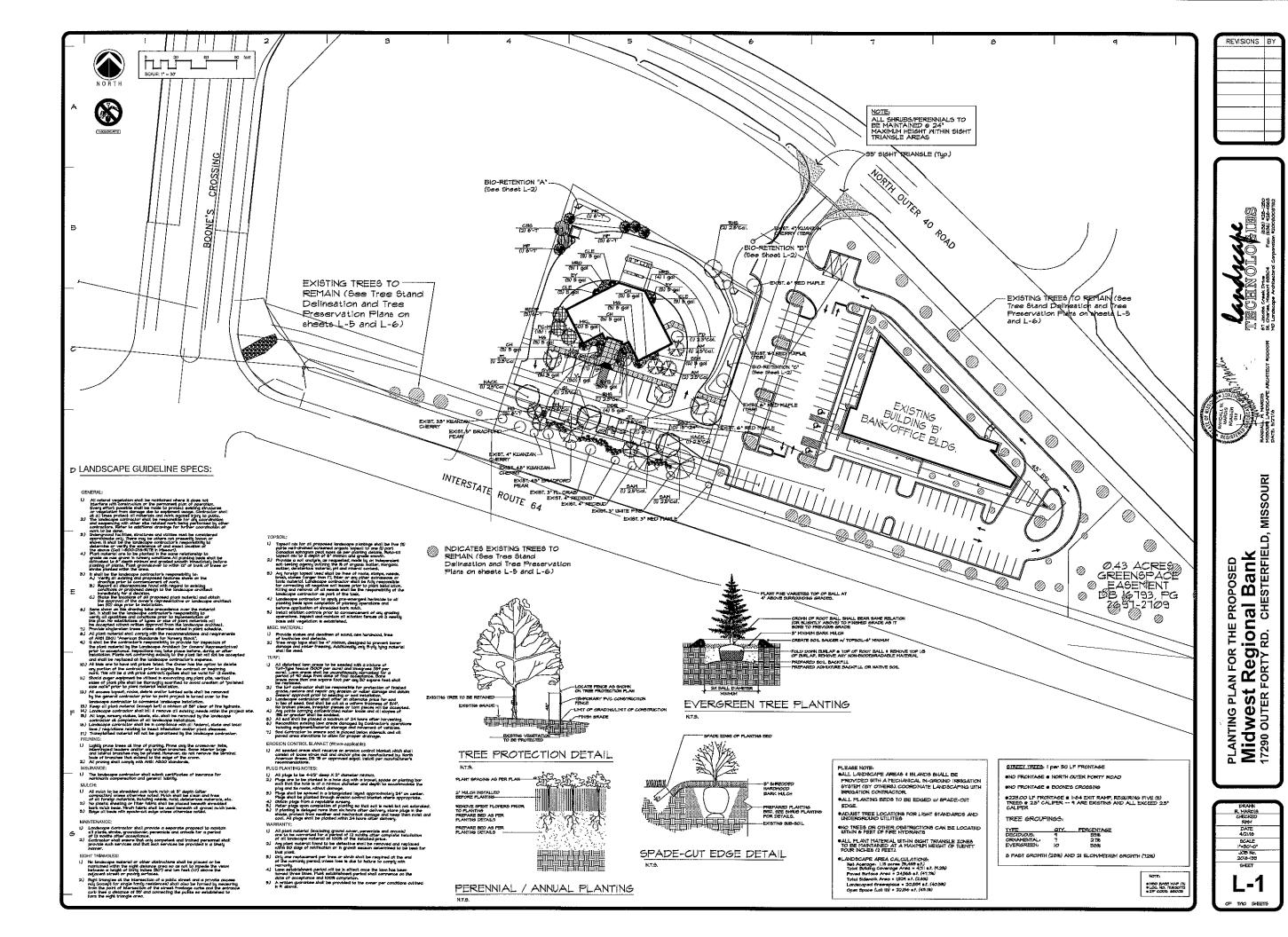
MIDWEST REGIONAL BANK

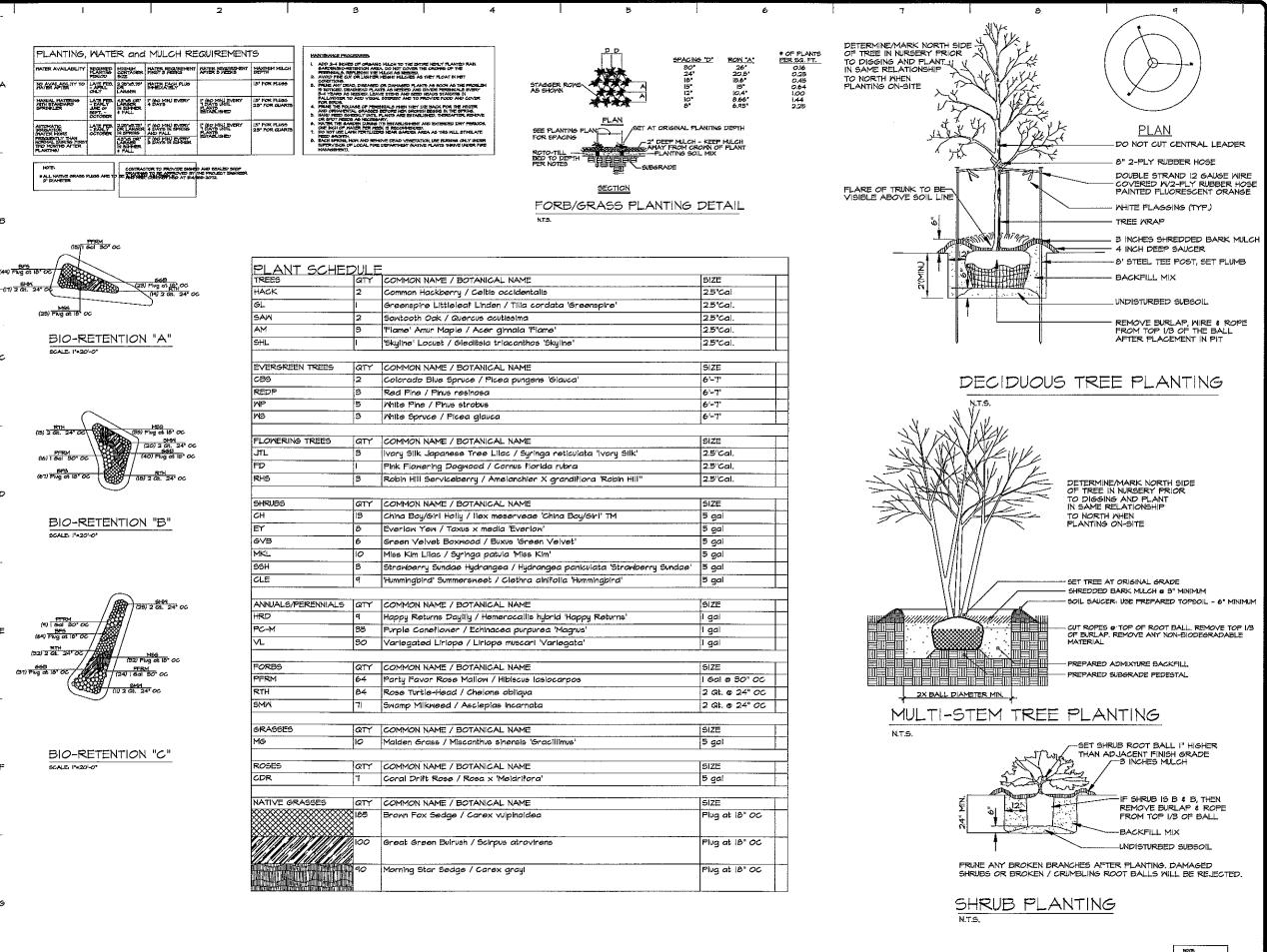
Daway & ASSOCIATES, INC.



MIDWEST REGIONAL BANK

GRIMES CONSULTING, INC.



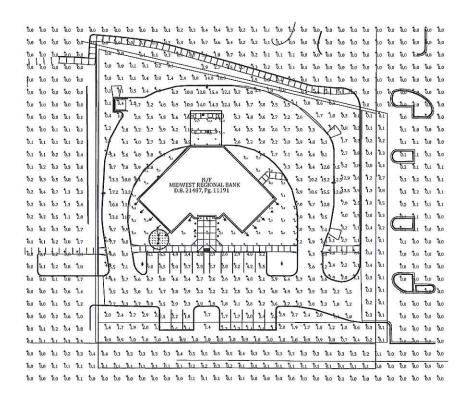


REVISIONS BY

ISSOURI Σ nal Bank CHESTERFIELD, 1 PROPOSED t Regiona FORTY RD. C ᄪ FOR PLAN Midwest 17290 OUTER F PLANTING

36ALE "=20-0 JOB No. 2016-153 SHEET

THO SHEETS

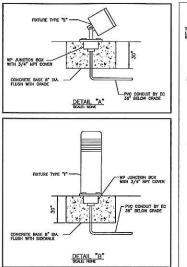


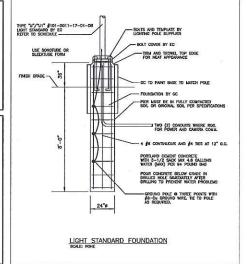
Luminaire	Schedule								
Symbol	Qty	Label	Arrangement	Manufacturer	Description	Lum, Watts	Total Watts	LLF	BUG Rating
0	3	٧	SINGLE	PHILIPS STONCO	LFF3 C 4X SP 5 8 B2	87	174	0.850	84-U0-G0
0	6	т.	SINGLE	SELUX CORPORATION	NT-2.5-LG3700-40-82-120	14	84	0.850	60 UT G1
Ō I	12	s	SINGLE	PHILIPS STONCO	UF3-C4K-FLSS BZ	87	1044	0.850	B3-U0-G0
Ō.	1	Q	SINGLE	PHILIPS STONCO	LFW16-789Z	37	37	0.850	81-U0-G1
0	3	н	SINGLE	PHILIPS LIGHTOUER	C7L3SHLVB230V-C7L15300L40KWCLWVB	51	153	0.850	NA.
0	6	M	SINGLE	PHILIPS LIGHTOLLER	C7LSON LVB Z10V-C7LSOD L40KWCLWVB	70	420	0.850	63 U0 G0
-BD	2	U1	SINGLE	PHILIPS GARDEO	PFAS-138L-1A-NW-G1-AR-5W-VOLTS-5PA-82/LYTE POLES 101-5011-17-D1-D8	485	970	0.850	85-U0-G5
-BD	3	U	SINGLE	PHILIPS GARDOO	PFAS-138L-1A-NW-G1-AR-3-VOLTS-SFA-BZ/LYTE FOLES 101-501.1-17-01-08	495	1455	0.850	84-09-65

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Win	Mas/Mi
Close to Building-Undercanopy	Illuminance	Fc	10.28	54.6	0.4	25.70	136.50
Hag_Eattom	Muminance	FC	32.74	66.8	14.6	2.24	4.58
Inside Property Line	Muminance	Fc	1.66	14.0	0.0	HA	N.A.
Parking Lot	likminance	Fc	5.35	17.2	1.0	5.35	17.20
Spill Light	Illuminance .	Fc	0.03	2.9	0.0	N.A.	N.A.

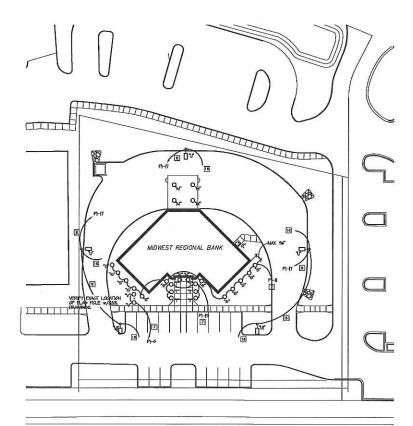
Designed By: SA Job Name: MIDWEST REGIONAL BANK - CHESTERFIELD, MO Drawling #: 163142 Date: 6/29/2016

POLE FIXTURES: Mounting Height 20'/Pole 17'/Concrete Base 3' Calculation Points: 10' x 10' Spacing





NOTE:



FLECTRICAL SITE PLAN

ESTINTANDEUNING 16850 CHESTERFIELD GROVE ROAD CHESTERFIELD MO 63005

& ASSOCIATES, INC.

St. Louis, Missouri 63146
Fax: (314) 434-4701

CLUTZ & Associates in 1850 Caterior End / Suits 18 St. Crost, Missour 6346 Size 18 St. Crost, Missour 6346 Size 19 State 18 State 19 State



WE BANK





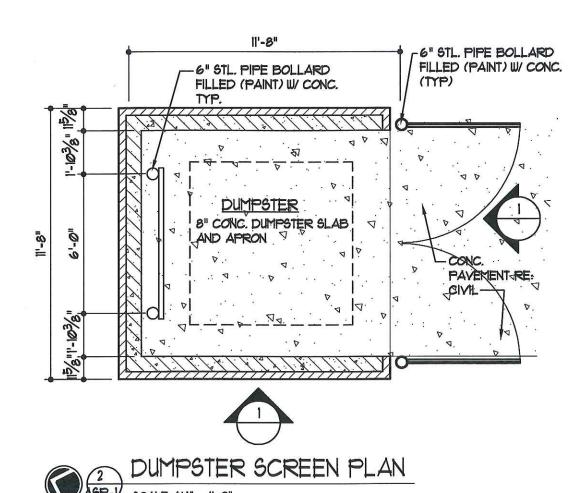
Lloyd E. Moss
Professional Engineer
Missouri #E-15907 MISSOUT FE-10007

MISSOURI STATE
CERTIFICATE of AUTHORITY
Number 2001028034

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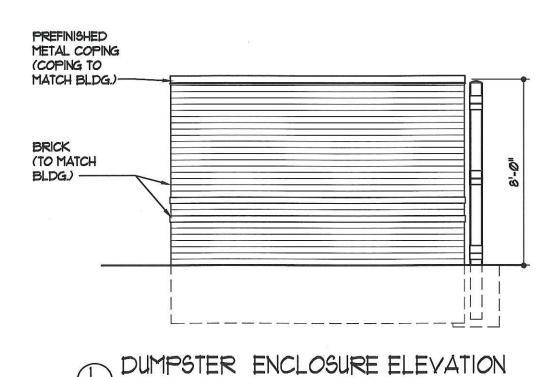


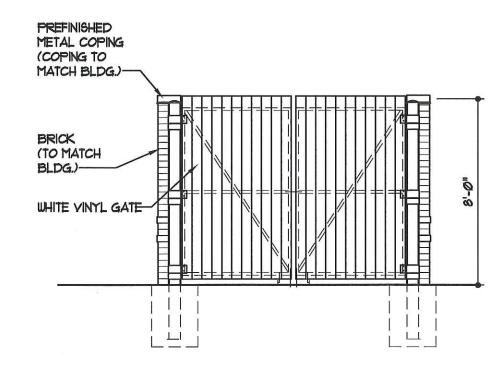




TRASH ENCLOSURE NOTES

- I. ALL SWING GATES GATE MANUFACTURER TO PROVIDE ALL NECESSARY HARDWARE
- 2. DUMPSTER STOP (2) 6"+ PIPE BOLLARDS 6'-0" C/C W/ 6" STL CHANNEL WELDED TO BOLLARDS (PAINT) REF. DETAIL 13/ASP-1





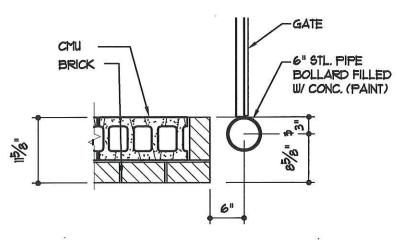
DUMPSTER SCREEN GATE ELEVATION

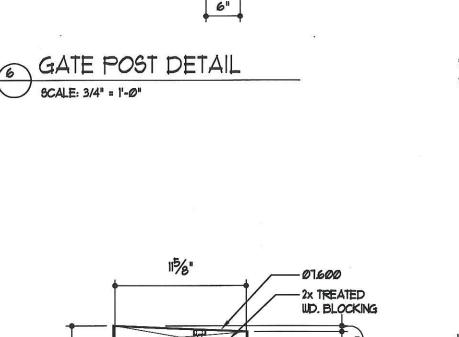
SCALE: 1/4" = 1'-0"

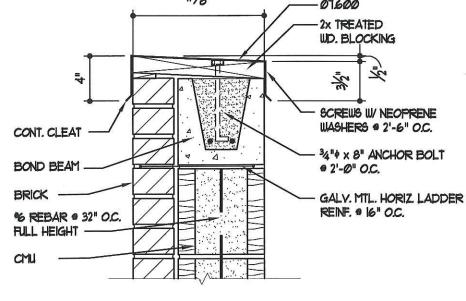


Midwest Regional Bank Chesterfield, Missouri





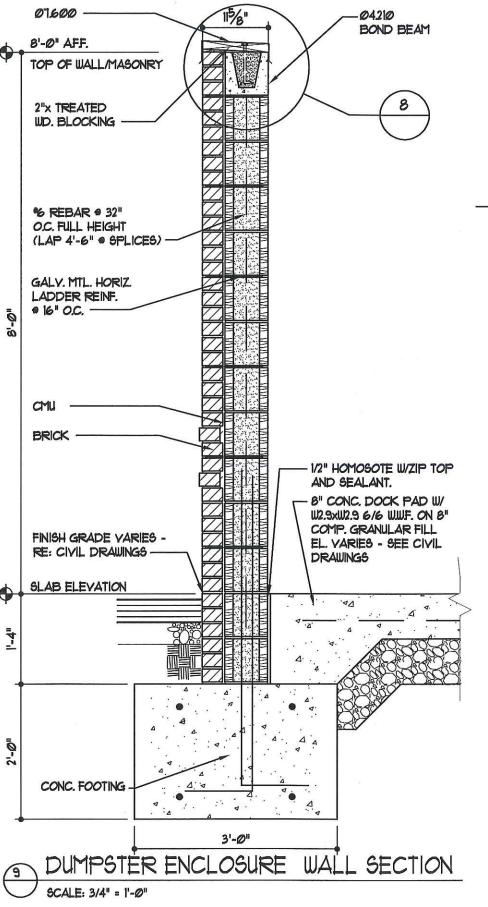


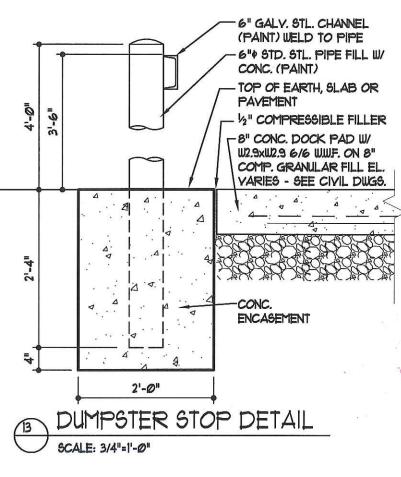


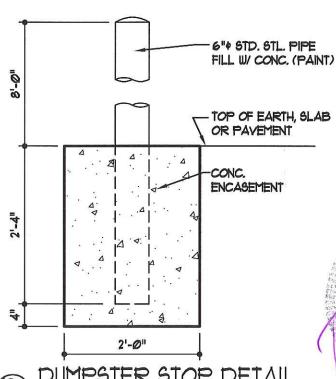
DUMPSTER ENCLOSURE COPING DET.

9CALE: 11/2"=1'-0"

MIDWEST REGIONAL BANK







DUMPSTER STOP DETAIL

SCALE: 3/4"=1'-0"

Midwest Regional Bank Chesterfield, Missouri



& ASSOCIATES, INC.







#1



#2







#3

#6