

LEGO RED
Pantone 485 C
CMYK C0 M100 Y100 K0
RGB R220 G0 B20

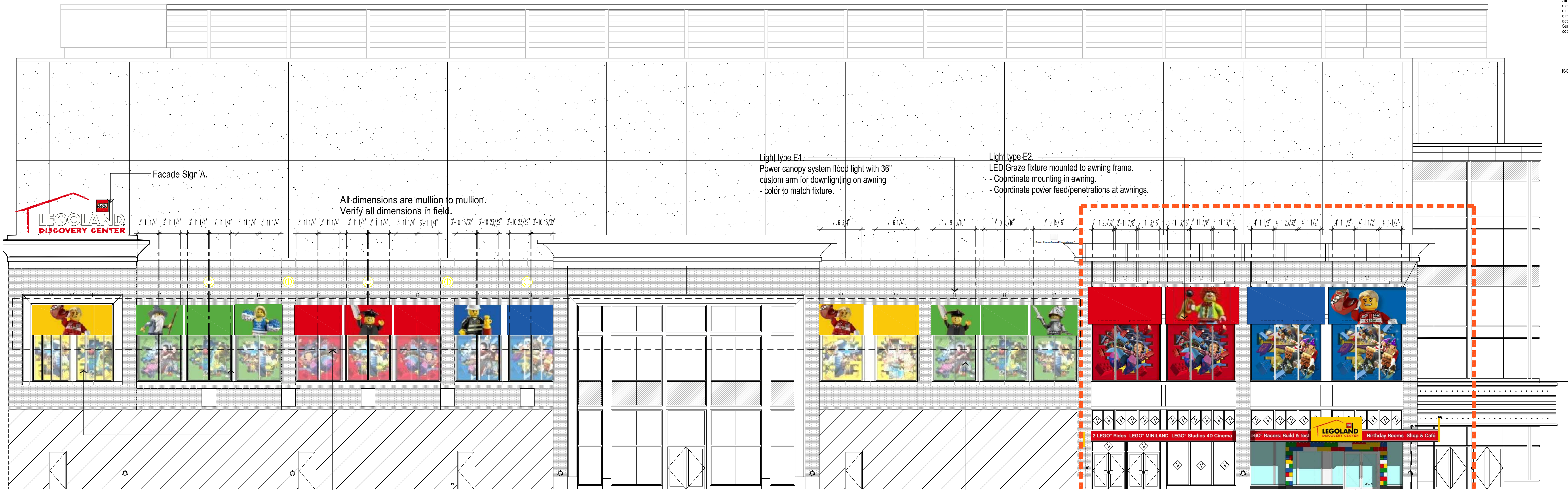
LEGO YELLOW
Pantone 012 C
CMYK C0 M18 Y100 K0
RGB R250 G256 B10

WHITE
Pantone White
CMYK C0 M0 Y0 K0
RGB R256 G256 B256

BLACK
Pantone Black
CMYK C0 M0 Y0 K100
RGB R0 G0 B0

BLUE
Pantone 300C
CMYK C100 M55 Y0 K0
RGB R30 G90 B168

GREEN
Pantone 362C
CMYK C84 M0 Y100 K0
RGB R88 G171 B65



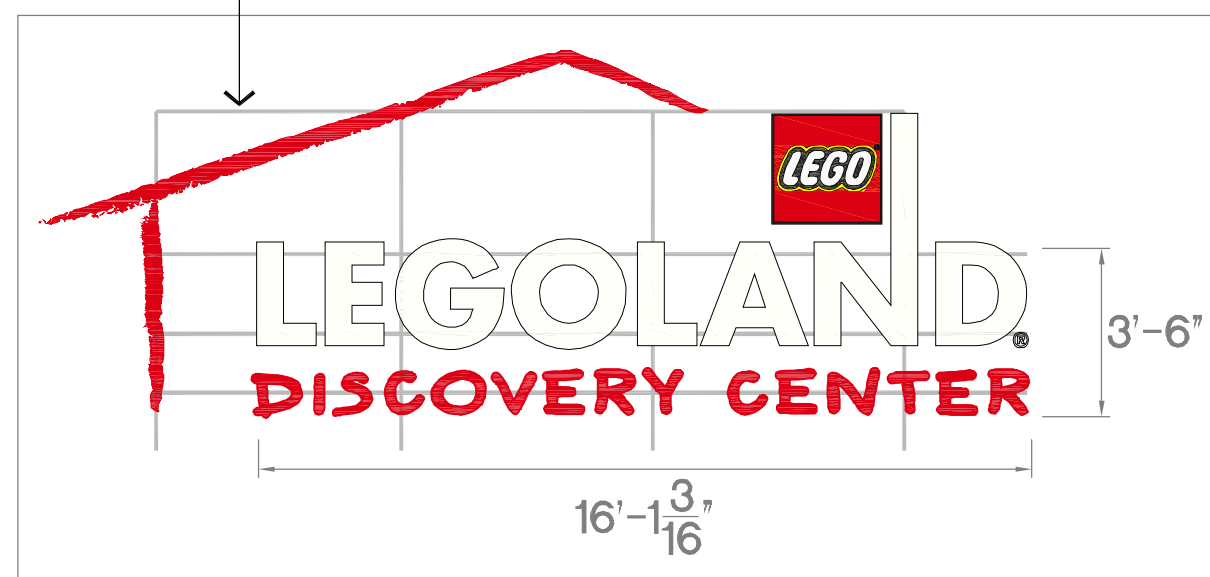
EAST ELEVATION

1/8"=1'-0"

LEGO Graphics applied to wall set back from glazing and internally illuminated.

Stretched fabric awnings applied to building facade with painted LEGO coloured metal 1" square tubes. Awnings to have no valances or sides. 1no painted LEGO brand colours as shown. 1no awning to have LEGO logo applied. Sizes of awnings shown approx. Awning to align with horizontal window mullion. For awning detail refer to Kay Elliott drawing: 3484 - 01.

Stretched fabric awnings applied to building facade with painted LEGO coloured metal 1" square tubes. Awnings to have no valances or sides. Awnings to have LEGO graphics applied as per east elevation. 1no awning to have LEGO logo applied. Sizes of awnings shown approx. Awning to align with horizontal window mullion. For awning detail refer to Kay Elliott drawing: 3484 - 01. Supporting metal frame work actual layout to be confirmed by sign supplier.



FACADE SIGN A 1/4"=1'-0"

Detail as Facade Sign B. 2no signs supported by grid frame work to corner of building so visible on both elevations.

Light type E1.
Power canopy system flood light with 36" custom arm for downlighting on awning - color to match fixture.

Light type E2.
LED Graze fixture mounted to awning frame. - Coordinate mounting in awning. - Coordinate power feed/penetrations at awnings.

LEGO Graphics applied to internal wall set back from glazing and internally illuminated.

Refer to Kay Elliott drawing no: 3484-06 for signage proposals.

FACADE SIGN B 1/4"=1'-0"



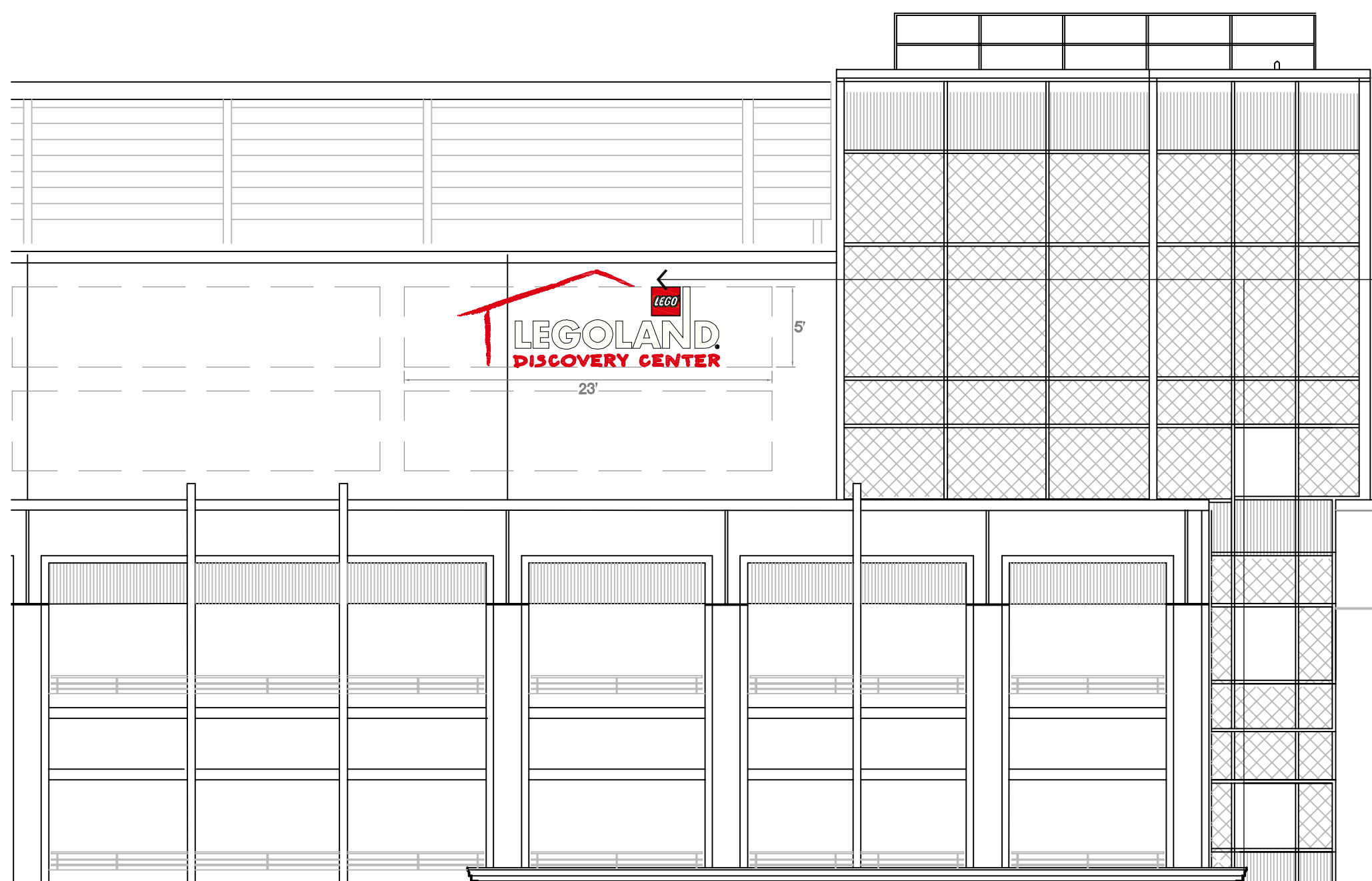
3" projecting LED illuminated box logo profile.LDC Red translucent acrylic face LDC Red aluminium sides.

5" projecting LED illuminated box LEGO logo with black edge frame.

5" projecting LED illuminated box individual lettering. White translucent acrylic letters face with white aluminium sides.

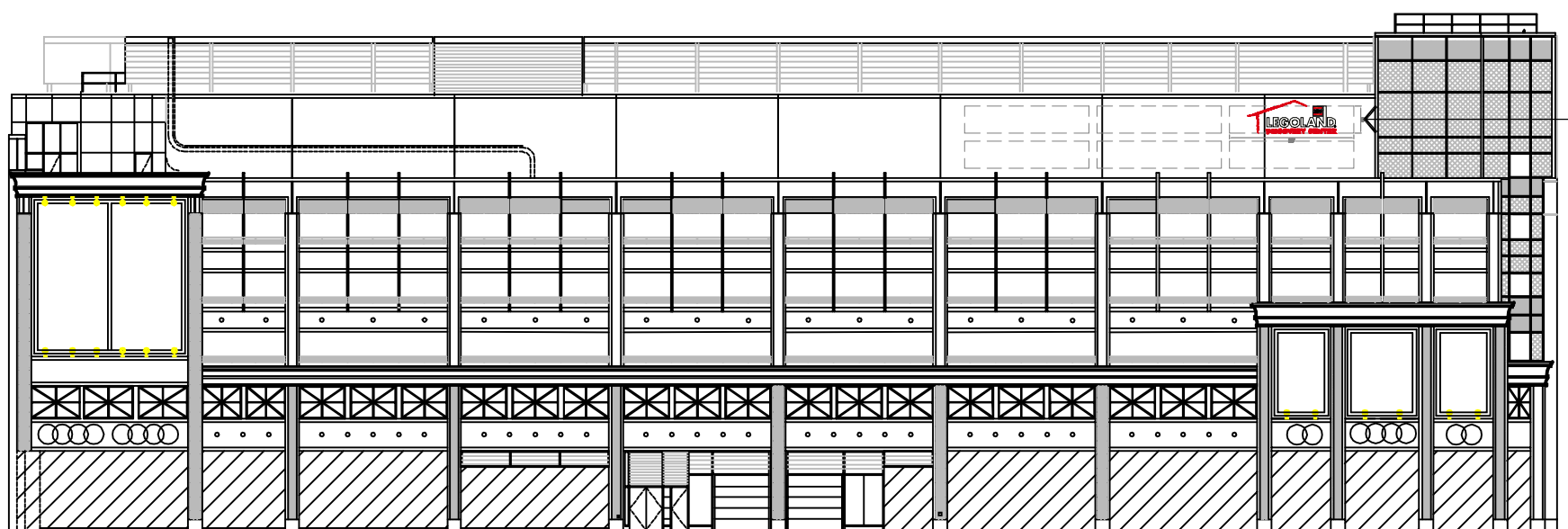
3" projecting LED illuminated box individual lettering. LDC Red translucent acrylic letters face with LDC Red aluminium sides.

All LED lighting will be static (not flashing).



PARTIAL WEST ELEVATION

1/8"=1'-0"



WEST ELEVATION

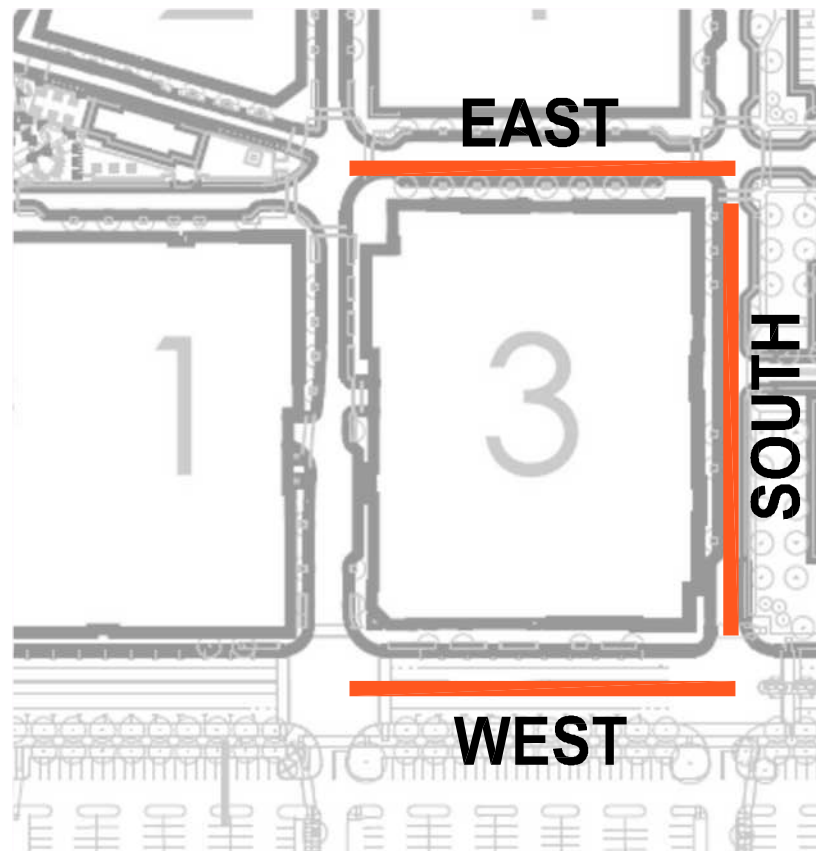
1/32"=1'-0"



Light type E1.
Power canopy system flood light with 36" custom arm for downlighting on awning - color to match fixture.



Light type E2.
LED Graze fixture mounted to awning frame. - Coordinate mounting in awning. - Coordinate power feed/penetrations at awnings.



Revision	Date	By	Detail
11	03.12.13	AF	Revised following client comments.
10	03.12.13	AF	Revised following client comments.
9	25.11.13	AF	Revised following client comments.
8	11.11.13	AF	Revised following client comments.
7	21.10.13	AF	Lighting revised.
6	23.09.13	AF	Drawing revised.
4	11.09.13	AF	Drawing revised.
3	27.08.13	AF	Drawing revised.
2	23.08.13	AF	Awning and window graphics added to elevations.

Drawing Status
E TECHNICAL DESIGN & F PRODUCTION INFORMATION

Client
MERLIN ENTERTAINMENTS

Project/Location
LEGOLAND Discovery Center,
Assembly Row, Somerville, Boston MA

Kay Elliott

5-7 Meadow Road
Torquay Devon
TQ1 2JP
United Kingdom

T +44 (0)1803 213553
F +44 (0)1803 288578
admin@kayelliott.co.uk
www.kayelliott.co.uk

Drawing Title
Proposed signage elevation.

Scale(s)	Date	Drawn	Checked
as Arch E1	08/08/13	AF	PW
Drawing Number	Revision	RIBA	
3484 - 03	11	Chartered Practice	

Stretched fabric awnings applied to building facade with painted LEGO coloured metal 1" square tubes.
Awnings to have no valances or sides.
Sizes of awnings shown approx.
Awning to align with horizontal window mullion.
3no awnings to have LEGO graphic applied in locations indicated on facade elevations with LEGO coloured backgrounds.
Refer to Kay Elliott dwg: 3484-03 for light spec.

Light type E1.
Power canopy system flood light with 36" custom arm for downlighting on awning - color to match fixture.
Stretched fabric awnings applied to building facade.

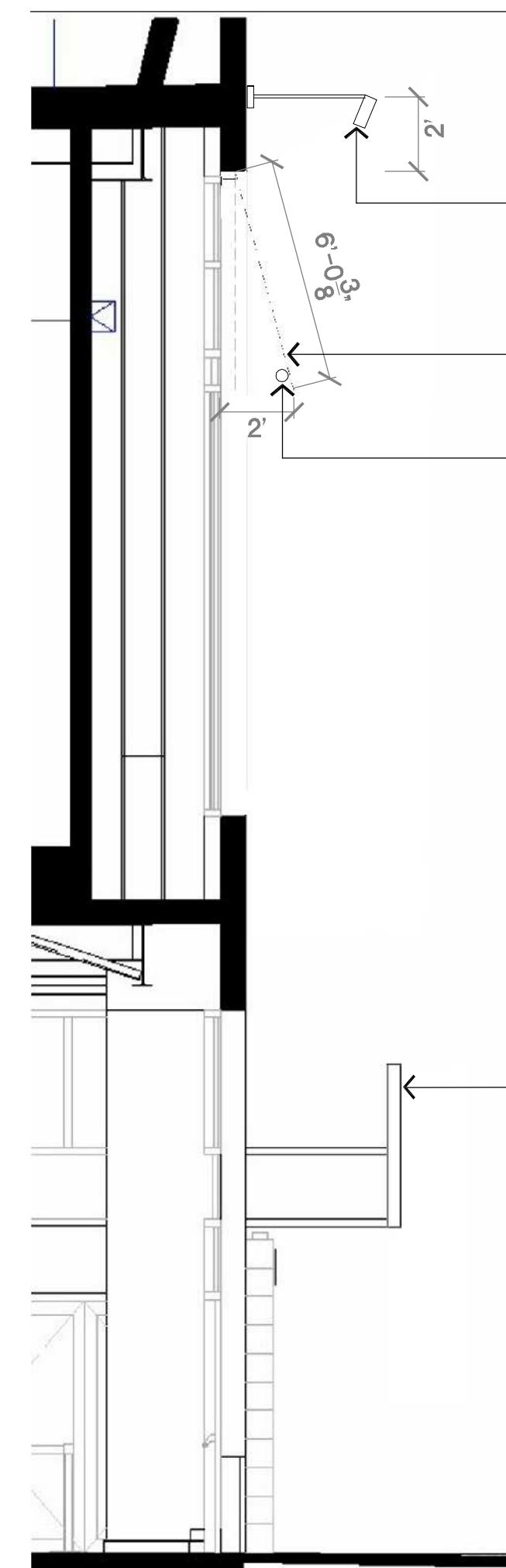
Light type E2.
LED Graze fixture mounted to awning frame.
- Coordinate mounting in awning.
- Coordinate power feed/penetrations at awnings.

Self adhesive vinyl LEGO Graphics applied to outer face of facade glazing, above entrance only.
All dimensions to be verified on field.
All graphics to be confirmed by Merlin.

1no Powder coated aluminium double sided blade sign, 4" thick. Sign to have LEGO graphic applied. Graphic tbc. Non-illuminated.

2no Powder coated aluminium signs 4" thick, applied to projecting fascia.

1no double sided power coated aluminium sign fixed to facade with LEGO logo applied both sides.
Sign to project max 6" from lease line and mounted 8' from ground level.



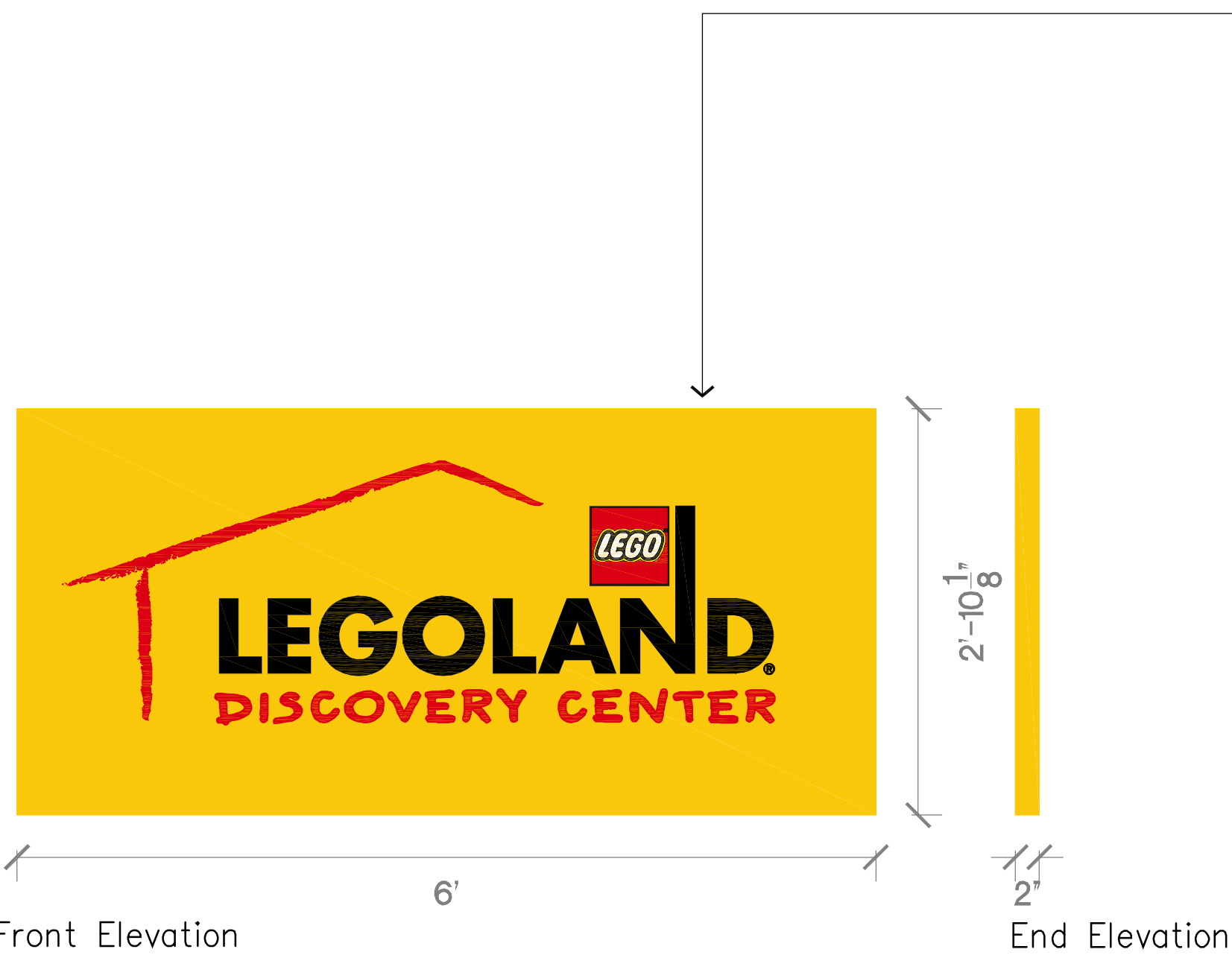
SECTION A.A
1/4"=1'-0"



PARTIAL EAST ELEVATION
1/4"=1'-0"



PARTIAL NORTH ELEVATION
1/4"=1'-0"



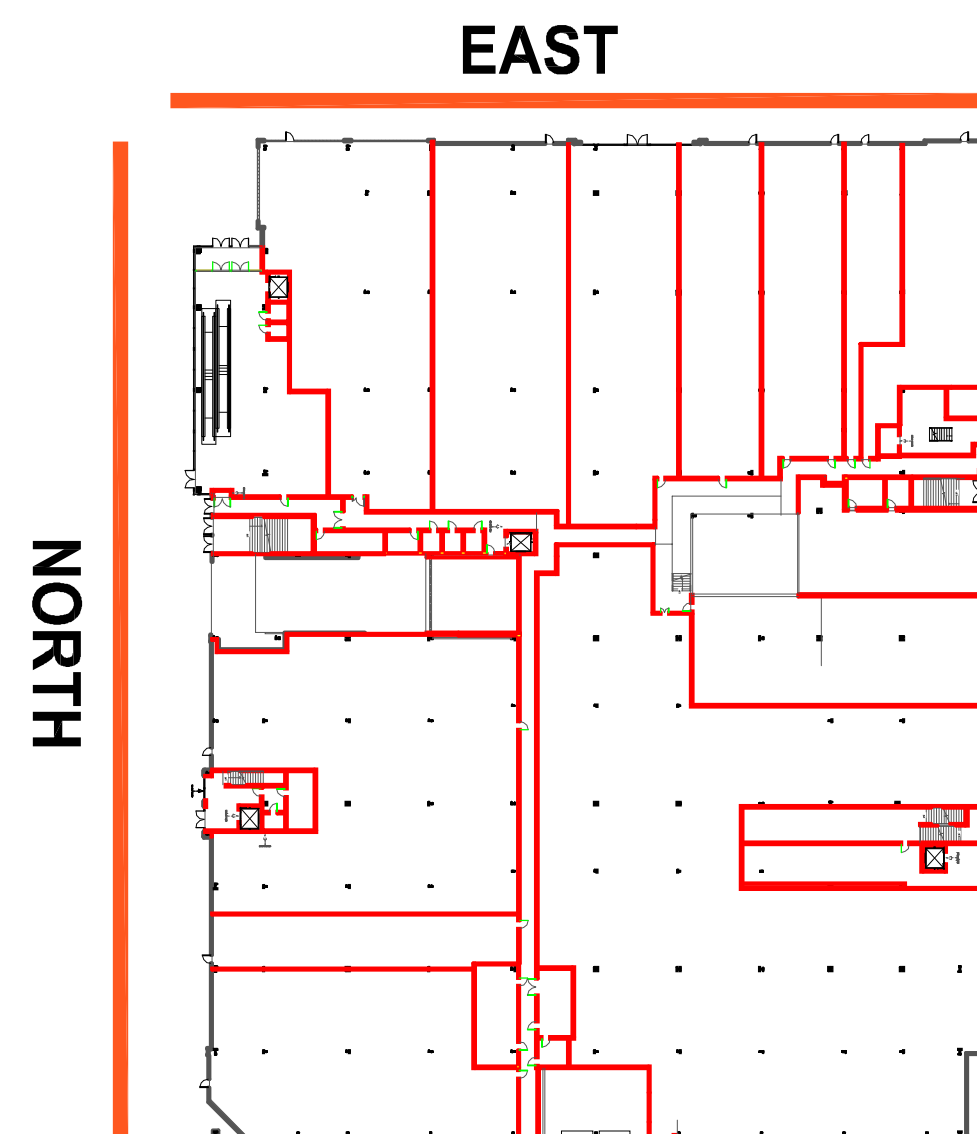
1no EXTERNAL PROJECTING SIGN
1"=1'-0"

2no Powder coated aluminium signs 4" thick, applied to projecting fascia.

1" thick LEGO text, logo and roof profile offset 1" from sign.
LED static lights behind letters and logo to give halo light effect.



2no EXTERNAL SIGNS
1"=1'-0"



SITE PLAN

Revision	Date	By	Detail
7	11.12.13	PW	Revised following clients comments.
6	10.12.13	AF	Revised following clients comments.
5	03.12.13	AF	External signs revised.
4	25.11.13	AF	External signs revised.
3	11.11.13	AF	Revised following clients comments.
2	21.10.13	AF	Lighting revised.

Drawing Status
E TECHNICAL DESIGN & F PRODUCTION INFORMATION

Client
MERLIN ENTERTAINMENTS

Project/Location
LEGOLAND Discovery Center,
Assembly Row, Somerville, Boston MA

Kay Elliott
5-7 Meadfoot Road
Torquay Devon
TQ1 2JP
United Kingdom
T +44 (0)1893 213553
F +44 (0)1893 298578
admin@kayelliott.co.uk
www.kayelliott.co.uk

Drawing Title
Proposed signage details.

Scale(s)	Date	Drawn	Checked
as indicated	08/08/13	AF	PW

at Arch E1

Drawing Number	Revision	RIBA
3484 - 06	7	Chartered Practice

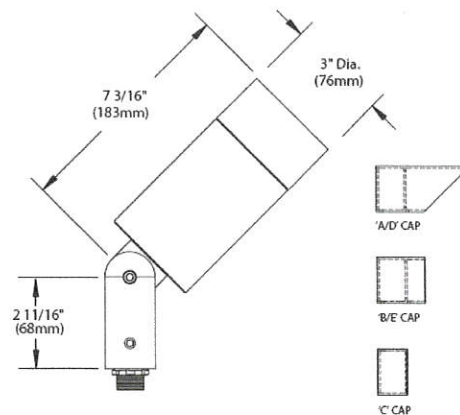
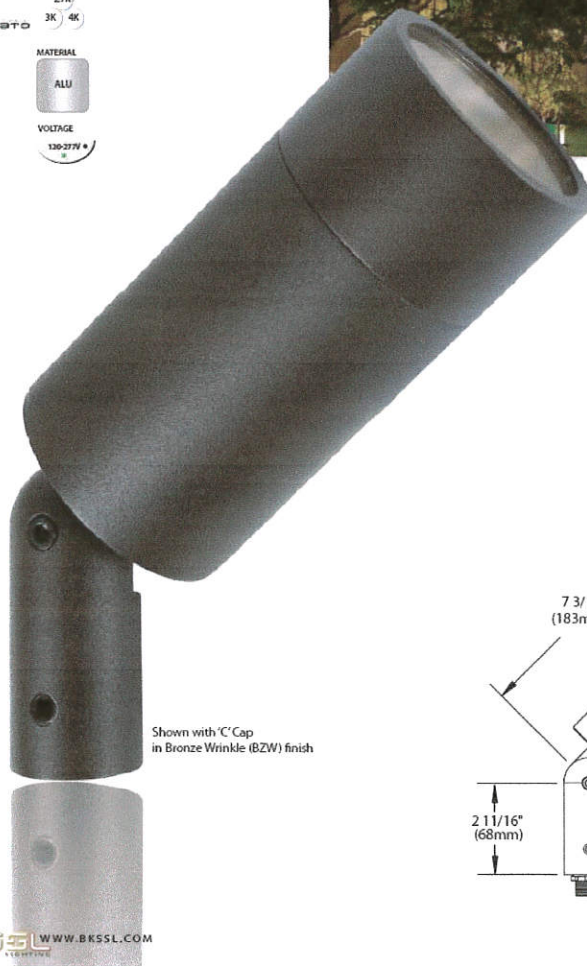
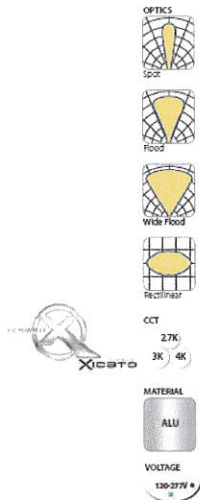
FLOODLIGHTS

DENALI™ DE

15 WATT, 25 WATT • 120V-277V

The Denali Series™ floodlight is a powerful, yet innovative solid-state lighting fixture designed to deliver higher lumen output and unprecedented color consistency. Incorporating our new 'X' technology, Denali™ Floodlight utilizes Patented "Color Corrected Cold Phosphor" technology to deliver near-perfect natural white light while maintaining 'lifetime' color consistency. It's universal design accommodates a variety of remote and integral driver mounting options.

Visit www.bklighting.com for ordering logic. Keyword DE-LED



10

BKSL WWW.BKSSL.COM



EMPHASIS LIGHTING

3375 Stark Road NE
Cambridge MN 55008
763-633-0900
emphasislighting.com

CUT SHEET

LDC Boston

LIGHTING CONCEPTS
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TYPE

E1

Page 1 of 5

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DENALI™ DE POWER SUPPLIES

With eleven standard power supplies, the Denali Series™ seamlessly integrates into any environment. Visit www.bklighting.com for ordering logic. Keywords DE, DE-PC, DE-HP2, DE-TMB, DE-PM2, DE-PM2D

FLOODLIGHTS



BKSS WWW.BKSSL.COM

11



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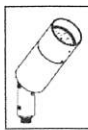
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Page 2 of 5

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BKGL
B-K LIGHTING, INC. 1999-2008 powered by XICBTO
Making Lighting Work Better



DENALI™ FLOODLIGHT

PROJECT: _____

TYPE: _____

CATALOG NUMBER: _____

SOURCE: _____

NOTES: _____

CATALOG NUMBER LOGIC

Example: **DE** - **LED** - **x22** - **FL** - **SAP** - **12** - **11** - **C**

Series: DE - Denali™ Floodlight

Source: LED - 'X' Module with Cold Phosphor Technology

LED Type:

- x21 - 15WLED/2700K
- x22 - 15WLED/3000K
- x23 - 15WLED/4000K
- x24 - 25WLED/2700K
- x25 - 25WLED/3000K**
- x26 - 25WLED/4000K

Optics:

- SP - Spot (20°)
- FL - Flood (60°)
- WFL - Wide Flood (60°)**

Finish:

Standard Finish

Powder Coat Color	Satin	Winkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Premium Finish

ABP	CMG	RMG
Antique Brass Powder	Cascade Mountain Granite	Rocky Mountain Granite
AMG	CRI	SDS
Aleutian Mountain Granite	Cracked Ice	Sonoran Desert Sandstone
AQW	CRM	SMG
Antique White	Cream	Sierra Mountain Granite
BCM	HUG	TXF
Black Chrome	Hunter Green	Textured Forest
BGE	MDS	WCP
Beige	Mojave Desert Sandstone	Weathered Copper
BPP	NBP	WIR
Brown Patina Powder	Natural Brass Powder	Weathered Iron
CAP	OCP	Also available in RAL Finishes See submittal SUB-1439-00
Clear Anodized Powder	Old Copper	

Configure Separately

Driver Housing Required

- HP2 - HP2 Housing
- HP2RM - HP2 Remote Housing
- PM2 - Universal Power Module 2
- PM2D - Universal Power Module 2 Dual
- PM2RM - Universal Power Module 2 Remote
- PM2D00M - Universal Power Module 2 Dual Remote
- PC - Power Canopy**
- PPH - Power Pipe H
- TMB - Pole Mount or Tenon Mount
- RM - Remote Wall Mount
- DRM - Dual Remote Wall Mount

COLOR TO BE DETERMINED

Lens type

- 9 - Clear (Standard)
- 10 - Spread Lens*
- 12 - Soft Focus Lens*
- 13 - Rectilinear Lens***

Shielding

- 11 - Honeycomb Baffle*

*Accommodates up to 2 Lens/Shielding media

Cap Style

- A - 45°**
- B - 90°
- C - Flush
- D - 45° without Weep Hole (Interior Use Only)
- E - 90° without Weep Hole (Interior Use Only)

LM79 DATA

BK No.	CCT (Typ.)	CRI (Re. Typ.)	Color Consistency	Input Watts (Typ.)
x21	2700K	>80	±40K	15
x22	3000K	>80	±50K	15
x23	4000K	>80	±70K	15
x24	2700K	>80	±40K	25
x25	3000K	>80	±50K	25
x26	4000K	>80	±70K	25

L70 DATA

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

OPTICAL DATA

Beam Type	Angle
Spot	20°
Flood	40°
Wide Flood	60°

B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5600 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

SUBMITTAL DATE
12-14-11

DRAWING NUMBER
SUB001113

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emphasislighting.com

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LDC Boston

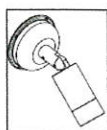
LIGHTING CONCEPTS
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TYPE

E1

Page 3 of 5

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B-K LIGHTING
ONLY AWARE LIGHTING

Constant Current Driver



POWER CANOPY™ SYSTEM

PROJECT:	
TYPE:	
CATALOG NUMBER:	
LAMP(S):	
NOTES:	

CATALOG NUMBER LOGIC

Example **PC** - **D15** - **BZW** - **MT** -

Series
PC - Power Canopy™ System

Driver Type
 D15 - 15W Driver (non-dimming)
 D15INC - 15W Dimming Driver (for use with Incandescent Dimmer)*
*120V only
D25 - 25W Driver (non-dimming)
 D25INC - 25W Dimming Driver (for use with Incandescent Dimmer)*
*120V only

Finish

Standard Finish

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Premium Finish

ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron
CAP	Clear Anodized Powder	OCP	Old Copper	Also available in RAL Finishes See submittal SUB-1439-00	

PROVIDE WITH 36" CUSTOM
ARM FOR DOWNLIGHTING
ON AWNING- COLOR TO
MATCH FIXTURE

Input Voltage
 120 - 120 VAC Input (for use with D15INC and D25INC only)
MT - 120-277 VAC Input

Options
 CP - Weighted Base (with cord, plug and switch) VAC Input

COLOR TO BE DETERMINED

DRIVER ELECTRICAL DATA

TYPE	AC INPUT RANGE	Frequency Hz	DIMMING	POWER FACTOR	THD	OPER. AMBIENT TEMPERATURE	DIMMER TYPE	DIMMER RANGE
D15	120/208/240/277	50/60	NO	>0.92	≤20%	-30° C ~ 50° C	—	—
D15INC	120	50/60	YES	>0.96	≤20%	-30° C ~ 60° C	Incandescent	10-100%
D25	120/208/240/277	50/60	NO	>0.92	≤20%	-30° C ~ 50° C	—	—
D25INC	120	50/60	YES	>0.96	≤20%	-30° C ~ 60° C	Incandescent	10-100%

B-K LIGHTING

 40429 Brickyard Drive • Madera, CA 93636 • USA
 559.438.5900 • FAX 559.438.5900
 www.bklighting.com • info@bklighting.com

 SUBMITTAL DATE
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 DRAWING NUMBER
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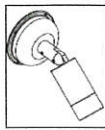
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Page 4 of 5

10.17.2013


BKSSL
 SOLID STATE LIGHTING

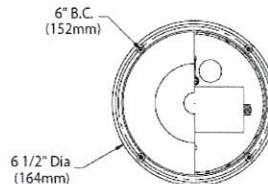
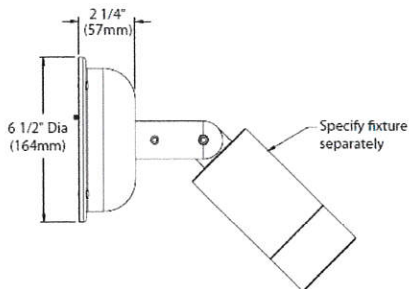
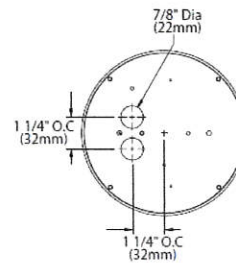
Constant Current Driver



POWER CANOPY™ SYSTEM

PROJECT:

TYPE:

SINGLE FIXTURE
CANOPY

CANOPY MOUNTING PLATE


All dimensions indicated on this submittal are nominal.
 Contact Technical Sales if you require more stringent specifications.

SPECIFICATIONS

GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced onsite. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Installation

Universal design accommodates a single fixture (specified separately) and permits water-tight installation. Two wire entrance knockouts will accept 1/2" conduit or Romex connectors. Four 3/16" wall plate mounting holes. (Mounting hardware by others).

Canopy Housing

Fully machined from copper-free aluminum. Stainless steel hardware. Gasket provides watertight seal.

Driver

For use with [1] 700mA, Class A, constant current driver. 120-277VAC (nominal) primary input voltage. 50/60Hz. >0.94 Power Factor, <15.0A in-rush current, 0.25A input current, ≤20%THD (nominal at 120VAC full load). Output over-voltage, over-current, and short circuit protection with auto recovery. EMC: FCC47CFR Part 15 Class B compliant.

Dimming driver for use with standard incandescent dimmers. 10-100% range.

Wiring

Teflon® coated wire, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

Hardware

Tamper resistant, stainless steel hardware.

Finish

StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Finish to match fixture (specified separately.)

Warranty

5 year limited warranty.

Listings

ETL listed. Made in USA.



*Teflon is a registered trademark of DuPont Corporation

B-K LIGHTING

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 NOT FOR CONSTRUCTION**

TYPE
E1

Page 5 of 5

10.17.2013

			
 Nano Liner Allegro AC XB		OSRAM	
The Nano Liner Allegro AC XB series is a slim profile, AC line powered high brightness luminaire. The series is phase-cut dimmable, and is available in four lengths, from 300mm to 1200mm, color temperatures 3000K / 4000K / 6500K, and optics. The luminaire can be simply daisy-chained to form long runs up to 15m (50ft) 120V and 25m (80ft) 230V.		  	
			

PRODUCT SPECIFICATIONS

- Light Source: 9, 18, 27, 36 LEDs
- Color Temperature: 3000K / 4000K / 6500K
- Beam Angle: 40° / 50° x 10°
- Luminous Flux: 635 – 865 lm per 300mm (1ft)
- Efficacy: 60 – 84 lm/W
- Cover Lens: Tempered glass cover
- Housing: Aluminium extrusion
- Adjustment Options: ±90° tilt
- Size: 309mm / 611mm / 912mm / 1214mm (L) x 42mm (W) x 78mm (H)
12" / 24" / 36" / 48" (L) x 1.7" (W) x 3" (H)
- Weight: 1.4kg/3.1lbs; 2.3kg/5.1lbs; 3.1kg/6.8lbs; 3.9kg/8.6lbs
- Regulatory Listing & Safety Approval: Electrical Protection Class II, CE, cETLus (pending)
- Operating Temperature: -30°C to +50°C / -22°F to +122°F (-20°C/-4°F starting)
- Storage Temperature: -40°C to +70°C / -40°F to +158°F
- Environment: Outdoor (IP66), suitable for coastal environments
- Humidity: 85%, non-condensing

ELECTRICAL SPECIFICATIONS

- Input Voltage: 120V AC, 230V AC nominal
- Power Consumption: 11W per 300mm (1ft) max.

SYSTEM SPECIFICATIONS

- Power: AC line
- Control: Phase-cut dimmable¹
- Power Supply: Built-in
- Fixture Interconnection²: 15m/50ft (max.)@120VAC; 25m/80ft (max.)@230VAC

¹ Refer to Nano Liner Allegro AC XB Compatible Dimmer List for specific details.
² Interconnect WITHOUT dimmer

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

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

WWW.TRAXONTECHNOLOGIES.COM

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06-13 V07



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Cambridge MN 55008
763-633-0900
emphasislighting.com

CUT SHEET

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LIGHTING CONCEPTS
NOT FOR CONSTRUCTION

TYPE

E2

Page 1 of 4

10.17.2013

traxon

***** Nano Liner Allegro AC XB

Photometrics

SOURCE SPECIFICATIONS

Source: 9 / 18 / 27 / 36 High intensity power LEDs

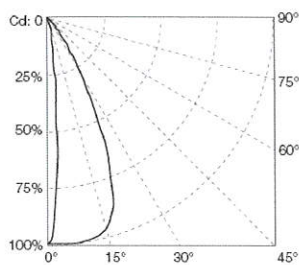
Optics: 50° x 10°

Cover Lens: Tempered glass cover

CCT: 3000K, 4000K, 6500K

CANDELA DISTRIBUTION

LIGHT OUTPUT



Color Temperature	Luminous Flux (lm)	Candela Distribution @100%	Efficacy lm/W
XB-9			
3000 K	636.10	3394.50	59.7
4000 K	682.59	3556.71	65.9
6500 K	665.48	4575.29	84.6
XB-18			
3000 K	1268.78	6792.24	59.7
4000 K	1365.18	7113.43	65.9
6500 K	1730.96	9150.58	84.6
XB-27			
3000 K	1908.29	10183.50	59.7
4000 K	2047.77	10670.14	65.9
6500 K	2596.44	13725.87	84.6
XB-36			
3000 K	2544.38	13578	59.7
4000 K	2730.36	14226.85	65.9
6500 K	3461.92	18301.16	84.6

Preliminary photometric data

ILLUMINANCE AT A DISTANCE

XB-9				XB-18			
Center Beam Lux				Center Beam Lux			
Color Temperature				Color Temperature			
3000 K 4000 K 6500 K				3000 K 4000 K 6500 K			
2m	749.62	800.01	979.47	1698.06	1600	1608.98	
4m	187.11	199.98	244.89	424.52	400	489.74	
6m	83.16	90	109.81	188.67	180	217.66	
8m	46.80	50.04	61.20	106.13	100	122.44	
10m	29.97	29.97	39.15	67.62	60	78.36	
XB-27				XB-36			
Center Beam Lux				Center Beam Lux			
Color Temperature				Color Temperature			
3000 K 4000 K 6500 K				3000 K 4000 K 6500 K			
2m	2245.80	2697.54	2038.41	3384.50	3200.04	4575.29	
4m	561.33	666.88	734.67	848.63	799.92	1143.82	
6m	249.48	296.39	326.43	377.17	360	508.37	
8m	140.40	166.72	183.60	212.16	200.16	285.98	
10m	99.91	106.70	117.45	135.78	119.98	163.01	

Diagram based on 3000 K measurement
For foot multiply by 3.28

Vert. Spread: 9.5°
Horiz. Spread: 52.5°
For ft. divide by 10.7

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Page 2 of 4

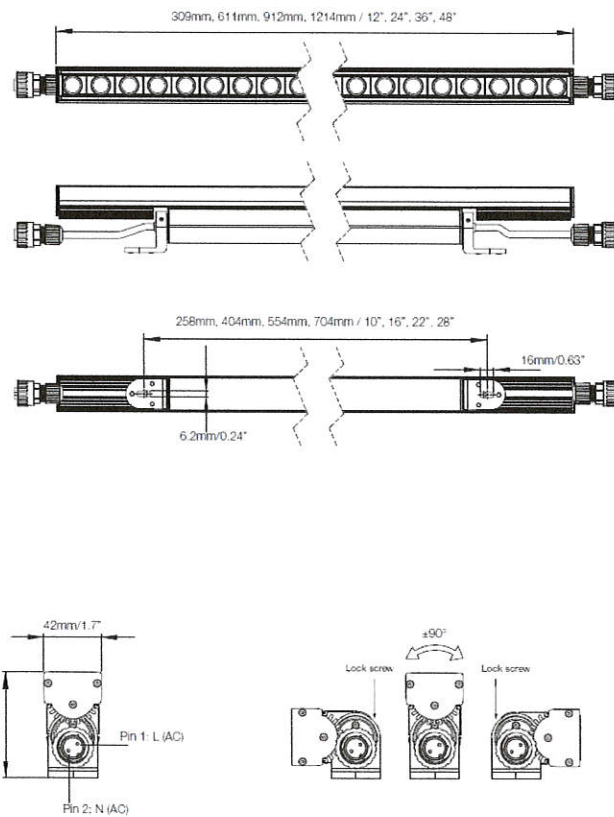
10.17.2013

traxon

Nano Liner Allegro AC XB

Dimensions

TECHNICAL DRAWING



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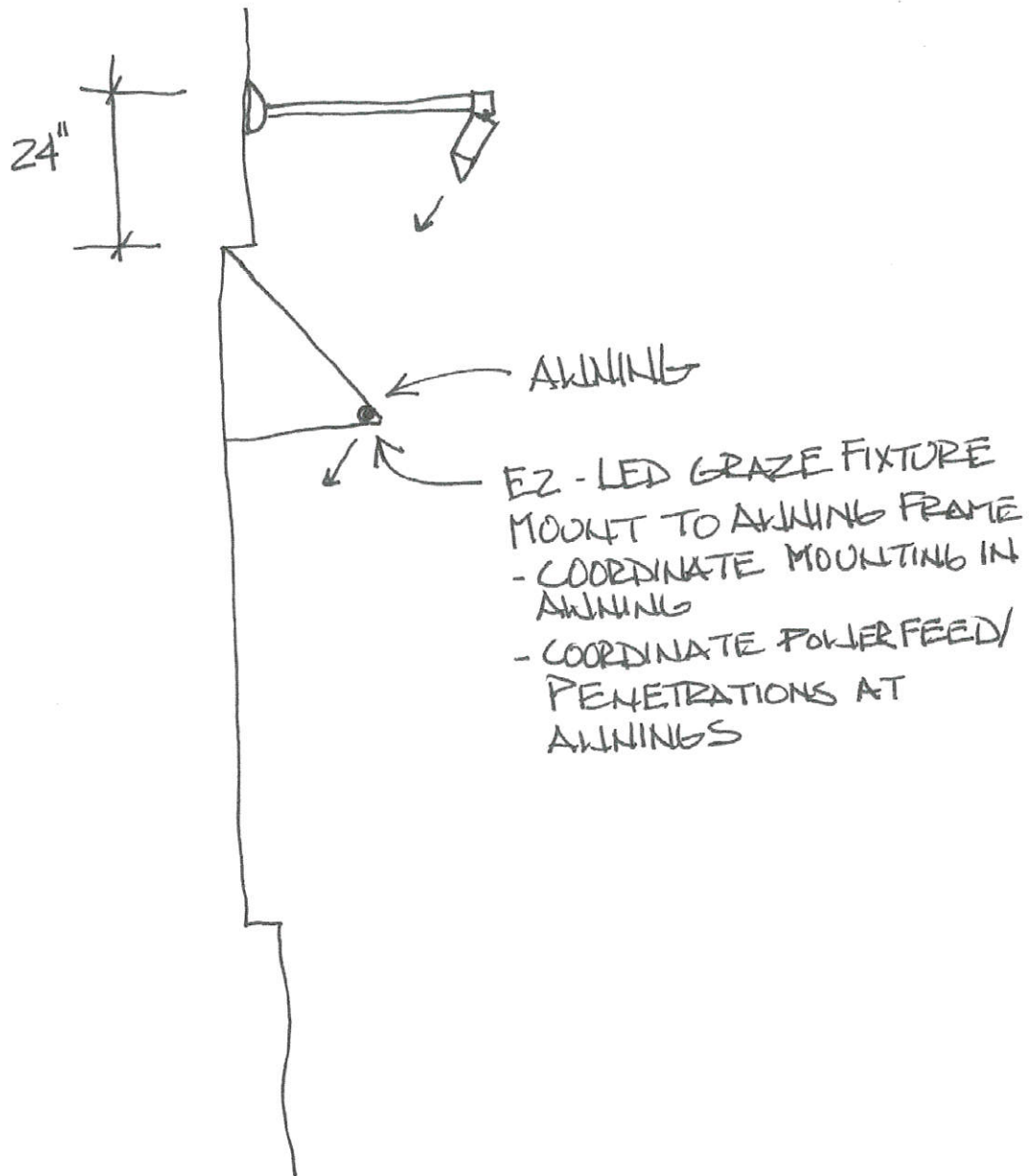
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