Certified Site Plan

File No.

Montgomery County Planning Board Approval

Chair or Designee: Date:

gotham® | EVO®

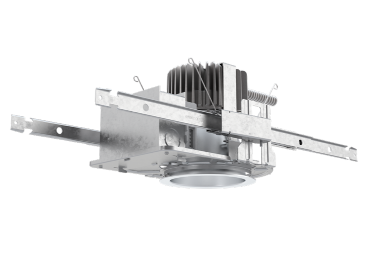
Multiple Layers of Light

Luminaire Type:

Catalog Number:

BAA | ENERGY STAR | A+ CAPABLE | LOW UGR

General Illumination Round Downlight 4"



OVERVIEW

Feature Set

- Bounding Ray™ optical design
- Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment.
- 45° cutoff to source and source image
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 MacAdam Ellipse; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling
- Available with 10% dimming, 1% dimming, or dim to dark
- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
- ENERGY STAR® certified product
- UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting. UGR FAQ

Distribution

Medium (MD) 0.9 S:MH | Medium Wide (MDW) 1.0 S:MH | Wide (WD) 1.2 S:MH

Superior Perfomance*

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500
Delivered Lumens	271	573	808	1001	1527	1994	2580	3110	3612	4120	4584
Wattage	3.1	7.2	7.9	8.8	13.7	19.5	25.7	31.2	38.4	35.4	40.1
Lumens per Watt	87.4	79.6	102.3	113.8	111.5	102.3	100.4	99.7	94.1	116	114

*Based on 3500K AR LSS MWD 80CRI

COMPLEMENTARY PRODUCTS

Coordinated Apertures I Multiple Layers of Light

General Illumination Layer I EVO | High Center Beam Layer I Incito | EVO + Incito — Multiple Layers of Light

Core: Downlight, Adjustable, Open Wallwash, Lensed Wallwash, Cylinder, Pinhole, Bevel, Hyperbolic

Healthcare: MRI, Surgical Suite, Patient Room

Special Applications: Dynamic, Food Service, Vandal/Tamper, Clean Room, Shower, Steam Room

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4" General Illumination Round Downlight

Luminaire Type:

Catalog Number:

ORDERING INFORMATION

A+ Capable options indicated by this color background.

EXAMPLE: EV04 35/25 AR MWD LSS 120 EZ1

Series	Color Temperature	Nominal Lumen Values	Reflector & Flange Color	Trim Style	Finish	Distribution	Voltage
EV04	27/ 2700 K 30/ 3000 K 35/ 3500 K 40/ 4000 K 50/ 5000 K	02 250 lumens 05 500 lumens 07 750 lumens 10 1000 lumens 15 1500 lumens 20 2000 lumens 25 2500 lumens 30 3000 lumens 35 3500 lumens 40 4000 lumens 45 4500 lumens	AR Clear PR Pewter WTR Wheat GR Gold WR[1] White BR[1] Black WRAMF[1] White Anti-microbial TRALTBD[1,2] RAL paint for pricing only TCPC[1] Custom paint color	(blank) Self-flanged FL Flangeless	LSS Semi-specular LD Matte-diffuse LS Specular	MD Medium (0.9 s/mh) MWD Medium wide (1.0 s/mh) WD Wide (1.2 s/mh)	MVOLT 120 277 347[3,4]

Driver[5]	Control Interface	Emergency Options	Options
GZ10 0-10V driver dims to 10% GZ1 0-10V driver dims to 1% EZ1 eldoLED 0-10V ECOdrive. Linear dimming to 1% min. EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%. EDAB eldoLED SOLOdrive DALI. Logarithmic dimming to <1%. EDXB eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Minimum 1000 lumens. Includes termination resistor. Refer to DMXR Manual. ECOD[6] Lutron Ecosystem digital Hi-Lume 1% soft-on, fade to black. Min: 250LLM; Max: 4000LM.	NLT[6] nLight® dimming pack controls NLTER[3,7,11] nLight® dimming pack controls emergency circuit NLTAIR2[14,15] nLight® Air enabled NLTAIRER2[3,11,14] nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit NLTAIREM2[3,14] nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit with battery pack options.	EL[10] Emergency battery pack, 10W, with integral test switch ELR[10] Emergency battery pack, 10W, with remote test switch ELSD[10] Emergency battery pack, 10W, with self-diagnostics, integral test switch ELRSD[10] Emergency battery pack, 10W, with self-diagnostics, remote test switch E10WCP[10] Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch E10WCPR[10] Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch BGTD Bodine generator transfer device. Specify 120V or 277V.	SF Single Fuse. Specify 120V or 277V TRW[8] White painted flange TRBL[9] Black painted flange FRALTBD[2] Flange ring only RAL color for pricing only FCPC Flange custom paint color N80[12] nLight® Lumen Compensation GTD generator transfer device. Specify 120V or 277V 90CRI High CRI (90+) CP[13] Chicago Plenum. Specify 120V or 277V for 5000lm and above. RRL__ RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only with RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on www.acuitybrands.com for RELOC® product specifications. Above ceiling access required.

ACCESSORIES — order as separate catalog numbers (shipped separately)

SCA4	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D. Refer to TECH-190.
CTAEV04	4" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5").
CTA4-8 YK	4"-8" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). For use with CWW/DWW trims, EDXB, CP or nTune options.
ISD BC	0-10V wallbox dimmer. Refer to ISD-BC.

ORDERING NOTES

1. Not available with finishes.
2. Replace with applicable RAL number and finish when ready to order. See RAL BROCHURE for available color options. Not available with emergency battery pack options.
3. Not available with emergency battery pack options.
4. Supplied with factory installed step down transformer.
5. Refer to TECH-240 for compatible dimmers.
6. Not available with nLight®.
7. Must specify voltage.
8. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with WR (white reflector) or FL (flangeless) option.
9. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with BR (black reflector) or FL (flangeless) option.
10. 11" of plenum depth or top access required for battery pack maintenance.
11. ER for use as UL924 Emergency Operation via power sense lead. Will require an emergency hot feed and normal hot feed. EM for use as UL924 Emergency Operation via power interrupt detection.
12. Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ10 and EZ1 drivers.
13. Not available with ELR, HAO, or EXAB, or any nLight® AIR dimming options.
14. Not available DALI or DMX drivers. Not available with CP or N80 options. Not recommended for metal ceiling installations.
15. When combined with the EZ1, EZ10, or EZB option, normal luminaires (non-emergency) can be used as a normal power sensing device for nearby nLight AIR devices and luminaires with EM emergency options.

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4" General Illumination Round Downlight

SPECIFICATIONS

Optical Assembly

Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top-down flash characteristic for superior glare control.
Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment.

Electrical

The luminaire shall operate from a 50 or 60 Hz ±3 Hz AC line over a voltage ranging from 120 VAC to 277 VAC. The fluctuations of line voltage shall have no visible effect on the luminous output.
The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.
Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.
Input wires shall be 18AWG, 300V minimum, solid copper.

Controls

Luminaire shall be equipped with interface for nLight wired or wireless network with integral power supply as per specification.

Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.
eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered.
Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

Construction

Fully serviceable and upgradeable lensed LED light engine, both the driver and light engine are suitable for field maintenance and are serviceable from above or below the ceiling.
Luminaire housing shall be constructed of 20-gauge galvanized steel and have telescopic mounting bars with maximum 26" and minimum 15" extension and 4" vertical adjustment.
Luminaires shall be suitable for installation in ceilings up to 1½" thick. (specify ceiling thickness adapter to extend frame to accommodate ceiling thickness up to 2").
Tool-less adjustments shall be possible after installation.
The assembly and manufacturing process for the luminaire shall be designed to assure all internal components are adequately supported to withstand mechanical shock and vibration.
25°C ambient temperature standard (1/2" clearance on all sides from non-combustible materials in non-IC applications, unless marked spacing noted otherwise). For use in insulated ceilings, a 3" clearance on all sides from insulation is required (unless marked spacing noted otherwise).

Listings

Fixtures are CSA certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, wet location covered ceiling. Luminaire configurations are Energy Star certified through testing in EPA–recognized laboratories, with the results reviewed by an independent, accredited certification organization. Visit www.energystar.gov for specific configurations listed.

BUY AMERICAN ACT

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.
Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 60,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by a point at the intersection of the CCT line and the black body locus line in CIE chromaticity space.

Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note:

Actual performance may differ as a result of end user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.

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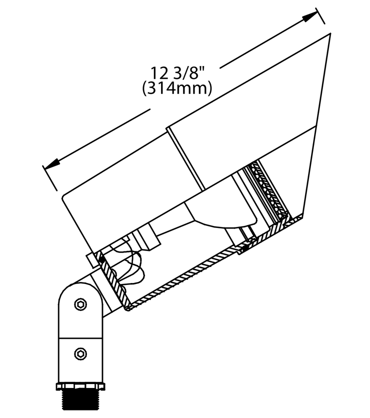
1 FIXTURE TYPE C1
NOT TO SCALE

LASSEN (PAR30) IP66 RATED

DATE: | PROJECT: | TYPE:

CATALOG NUMBER LOGIC:

CATALOG NUMBER LOGIC
LA - 523 - BLP
SERIES
LA - Lassen
LAMP TYPE
0 - By Others
520 - 11W/15DEG/2700K
521 - 11W/25DEG/2700K
522 - 11W/40DEG/2700K
523 - 11W/15DEG/3000K
524 - 11W/25DEG/3000K
525 - 11W/40DEG/3000K
526 - 11W/40DEG/4000K
FINISH (See below for full-color swatches)
Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)



STANDARD FINISHES

Satin Black (BLP) | Satin Bronze (BZP) | Satin White (WHP) | Satin Aluminum (SAP)
Black Wrinkle (BLW) | Bronze Wrinkle (BZW) | White Wrinkle (WHW) | Verde (VER)

Click here to view larger color swatches of these finishes on our website

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

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05/12/2021 SKU-332
SUB-1133-08

2 FIXTURE TYPE F1
NOT TO SCALE

F.O.T.™ Flex | Focus Optics Technology (F.O.T.™)

optic arts by luminii

Features

F.O.T.™ IP67 is a collection of high performance precision optics distinguished by its industry leading size to efficacy ratio and ability to seamlessly interconnect. F.O.T.™ IP67 allows for surface mount solutions for beam control in wall washing, grazing, spot and asymmetric distributions for limitless design scenarios.

Mounting

FOT Flex strip is equipped with adhesive tape.

Applications

Outdoor / wet location, above cabinet, cove lighting, counter & architectural accents, under banisters, decks, gazebos, barbeque stations and wet bars.

IP67 Rated

Deemed fit enough to withstand dust, dirt and sand, and are resistant to submersion up to a maximum depth of 1m depth for up to 30 mins.

Operating Voltage	Life (L70)
24 VDC	50,000 Hours
Operating Temperature	**Warranty**
-20°C to 50°C	3 years

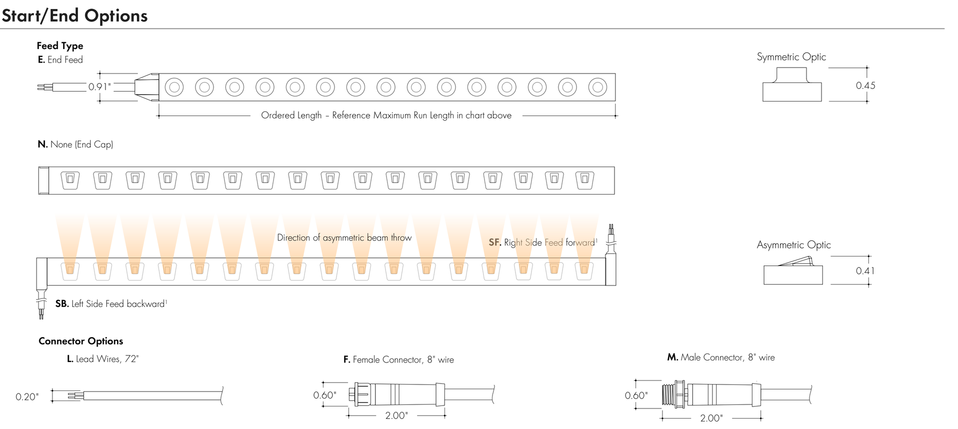
Intertek | CE | TITLE 24 JA8 COMPLIANT | RoHS | IP67 | DIM

Technical Information

Model	Narrow		Asymmetric	
Output Options	SO	HO	SO	HO
Light Output (3000K)	415 lm/ft	625 lm/ft	310 lm/ft	557 lm/ft
Average Power Consumption (for a 4' section)	4.8 W/ft	5.8 W/ft	4.8 W/ft	5.2 W/ft
Efficacy	86 lm/W	106 lm/W	65 lm/W	108 lm/W
Ordering Increment (in)	6.5"		6.5"	8.5"
Max Strip Length (ft)	16 ft	13.5 ft	16 ft	16 ft
Max Run Length (in series)	20 ft	16 ft	20 ft	18 ft
Minimum Bending Radius	4.0"			

CCT	Multiplier (referenced from 3000K)	TM-30 CRI	R_f	R_g	R_9
2700K	0.92	95	91	98	55
3000K	1.00	95	91	100	59
3500K	1.04	94	91	102	64
4000K	1.04	94	91	102	68

Section Start/End Options



Ordering Code - 6 weeks typical lead time for F.O.T. strip

MODEL	OPTICS	OUTPUT	CCT	LEFT SIDE	LEFT TYPE	LEFT CONNECTOR	RIGHT SIDE	RIGHT TYPE	RIGHT CONNECTOR	LENGTH (IN)
				L			R			
FOT - FOT FLEX	NA - Narrow AS - Asymmetric	SO - Standard HO - High	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K		E - End feed SF - Side feed forward[1] SB - Side feed backward[1] N - None (end cap)[2]	M - Male F - Female L - Lead wires N - No feed[2]		E - End feed SF - Side feed forward[1] SB - Side feed backward[1] N - None (end cap)[2]	M - Male F - Female L - Lead wires N - No feed[2]	View table above for increment options, max strip length limits, and max run length limits.

1 - Side feeds are incompatible (too wide) with extrusions, available for F.O.T. strip only.
2 - None and No Feed selections must and can only by used together (L-N-N or R-N-N).

F.O.T.™ Flex | Focus Optics Technology (F.O.T.™)

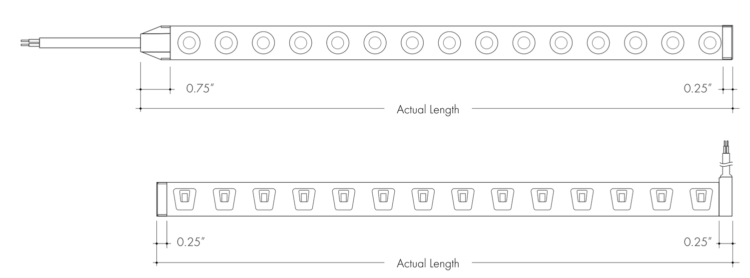
optic arts by luminii

Power Consumption

Based on operation with PDC series of power supplies. Use Actual Length for Order Code Entry.

Nominal Length (in)	W	Actual Length (in) FOT-AS-SO N & SF or SB	N & E	E & SF or SB	E & E	SF or SB & SF or SB
6.5	2.6	7	7.5	8	8.5	7.5
(1 ft) 13.0	5.2	13.5	14	14.5	15	14
19.5	7.8	20	20.5	21	21.5	20.5
(2 ft) 26.0	10.4	26.5	27	27.5	28	27
32.5	13.0	33	33.5	34	34.5	33.5
(3 ft) 39.0	15.6	39.5	40	40.5	41	40
(4 ft) 45.5	18.2	46	46.5	47	47.5	46.5
52.0	20.8	52.5	53	53.5	54	53
(5 ft) 58.5	23.4	59	59.5	60	60.5	59.5
65.0	26.0	65.5	66	66.5	67	66
(6 ft) 71.5	28.6	72	72.5	73	73.5	72.5
78.0	31.2	78.5	79	79.5	80	79
(7 ft) 84.5	33.8	85	85.5	86	86.5	85.5
91.0	36.4	91.5	92	92.5	93	92
(8 ft) 97.5	39.0	98	98.5	99	99.5	98.5
104.0	41.6	104.5	105	105.5	106	105
(9 ft) 110.5	44.2	111	111.5	112	112.5	111.5
(10 ft) 117.0	46.8	117.5	118	118.5	119	118

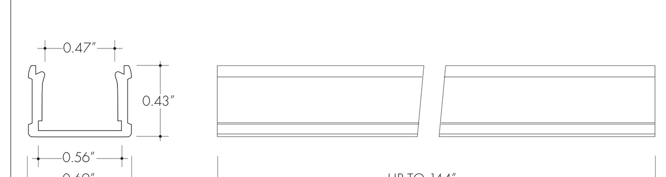
Nominal Length (in)	W	Actual Length (in) FOT-AS-SO N & SF or SB	N & E	E & SF or SB	E & E	SF or SB & SF or SB
123.5	49.4	124	124.5	125	125.5	124.5
(11 ft) 130.0	52.0	130.5	131	131.5	132	131
136.5	54.6	137	137.5	138	138.5	137.5
(12 ft) 143.0	57.2	143.5	144	144.5	145	144
149.5	59.8	150	150.5	151	151.5	150.5
(13 ft) 156.0	62.4	156.5	157	157.5	158	157
162.5	65.0	163	163.5	164	164.5	163.5
(14 ft) 169.0	67.6	169.5	170	170.5	171	170
175.5	70.2	176	176.5	177	177.5	176.5
(15 ft) 182.0	72.8	182.5	183	183.5	184	183
(16 ft) 188.5	75.4	189	189.5	190	190.5	189.5



KM Channel | Extruded aluminum profile

optic arts by luminii

The KM Channel linear aluminum extrusion has been designed to fit many LED lighting needs. Multiple mounting and lens options allow for great flexibility and adaptability for any application. Extrusion and diffuser lenses are also field cuttable. Substantial aluminum mass in profile provides excellent heat sink for high power LEDs. Mounting brackets and end caps are available in multiple finishes and sold separately.



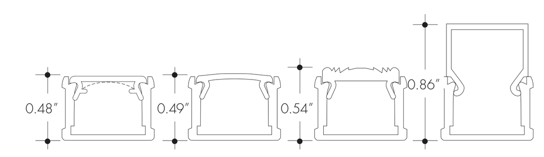
Made in USA

Technical information

Finish: Silver anodized, White

Diffuser lens: polycarbonate, snap-in-place, UV resistant

Mounting: multiple mounting brackets (page 2)



	Lens Options
Actual length	48", 72" 96", & 144"
Available lenses	- Clear - Frosted - Half Frosted - Clear 10° beam angle - Raised - Flat Frosted Gel

Ordering code

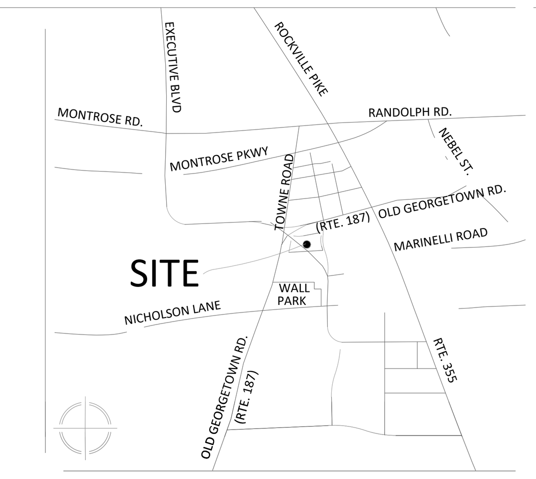
MODEL	LENGTH	LENS	FINISH
KMC	48	C	SA
KMC - KM Channel	48 - 48" 72 - 72" 96 - 96" 144 - 144"	C - Clear F - Frosted HF - Half Frosted C10 - Clear 10° beam angle R - Raised FFG - Flat Frosted Gel	SA - Silver anodized WH - White

NOTE: For Channels and Lenses over 90", incremental shipping charges will apply

3 FIXTURE TYPE L1
NOT TO SCALE

"FOR LOCATION OF UTILITIES CALL 8-1-1 or 1-800-257-7777 OR LOG ON TO www.call811.com or http://www.missutility.net 48 HOURS IN ADVANCE OF ANY WORK IN THIS VICINITY"

The excavator must notify all public utility companies with underground facilities in the area of proposed excavation and have those facilities located by the utility companies prior to commencing excavation. The excavator is responsible for compliance with requirements of Chapter 36A of the Montgomery County Code.



VICINITY MAP
SCALE: 1" = 2,000'

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Germantown, MD 20874
301.916.4100 | vika.com
Our Site Set on the Future.

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SMITH@STONEBRIDGE.US.COM

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301.634.3150
MATT GORDON

ARCHITECTS:
EWINGCOLE
215.625.4411
BRETT SPEARMAN

LANDSCAPE ARCHITECT :
MAHAN RYKIEL ASSOCIATES, INC.
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JOHN O'BOYLE

CIVIL ENGINEER :
VIKA MARYLAND, LLC
301.916.4100
JASON EVANS, P.E.

LAND PLANNER :
VIKA MARYLAND, LLC
301.916.4100
IAN P. DUKE

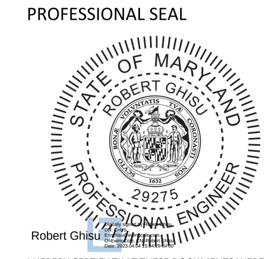
REVISIONS	DATE

EvolutionLabs North Bethesda

1st ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND
WSSC GRID: 215NW06
TAX MAP:GQ62

82015001B

PROFESSIONAL SEAL



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 29275, EXPIRATION DATE: 6-17-2023

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DEVELOPER'S CERTIFICATE

THE UNDERSIGNED AGREES TO EXECUTE ALL THE FEATURES OF THE SITE PLAN APPROVAL NO. 82015001B, INCLUDING APPROVAL CONDITIONS, DEVELOPMENT PROGRAM AND CERTIFIED SITE PLAN.

DEVELOPER'S NAME: ____________

CONTACT PERSON OR OWNER: ____________

ADDRESS: ____________

PHONE & E-MAIL: ____________

SIGNATURE: ____________

DRAWN BY: TML
DESIGNED BY: TML
DATE ISSUED:

VIKA PROJECT: VM1614
EC PROJECT: 20210623
DRAWING NO.: LUMINAIRE CUTSHEETS
SHEET NO. LL-03