O3

Our O3 series offers a sleek, low-profile linear design, providing a direct light distribution and wide range of mounting options. Our 60% recycled aluminum extruded housing contains a frost acrylic lens in two different profiles: 1.0" and 2.25" Drop lens. Developed to be both suspended, wall or ceiling mount, the O3 is ideal for a wide variety application where a minimalistic linear product is required.



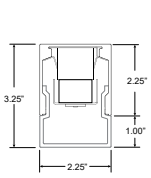
nLIGHT Controls | eldoLED Drivers | ADA Compliant | BAA Buy American | cULus Certified

Performance

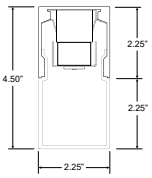
OUTPUT	OPTICS	DELIVERED		
		LUMEN OUTPUT	INPUT WATTS	EFFICACY
LVH (Very high)	1.00" Drop Lens	1404 lm/ft	13 W/ft	108 lm/W
	2.25" Drop Lens	1391 lm/ft	13 W/ft	107 lm/W

Please consult factory for custom lumen output and wattage. For the complete photometric data of this fixture refer to pages 3 and 4.

Dimensions

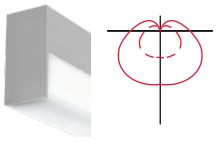


(DL)
1.00" Drop Lens

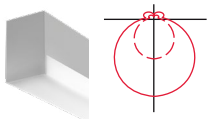


(DL2)
2.25" Drop Lens

Lens options

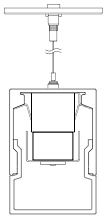


(DL2)
2.25" Drop Lens

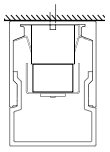


(DL)
1.00" Drop Lens

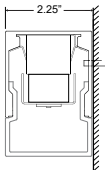
Mounting options



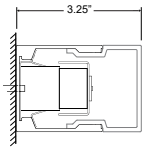
(S)
Aircraft Cable



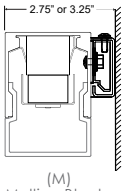
(F)
Ceiling Mount



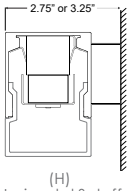
(R)
Direct Wall Mount
ADA Compliant



(A)
Direct top Wall Mount
ADA Compliant*
*Flush or 1" drop lens wisp only

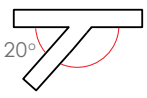


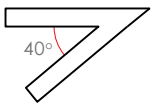
(M)
Mullion Blocks
ADA Compliant

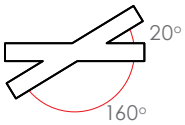


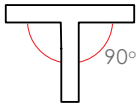
(H)
Horizontal Setoff
ADA Compliant

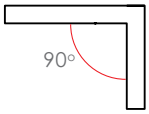
Multiple intersections and corners options

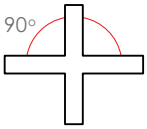












Project name | Type | Date | Quantities



Need help?
Don't see what you need?
We know that having so many options can be overwhelming. Please reach out to our factory for any specific request or questions you have.

Our Design Assist team (**designassist@alights.com**) is here to make the process move smoothly.

O3					
SERIES	**LENGTH**	**INTERSECTION TYPE**	**OUTPUT**	**CCT**	**CRI**
O3	**_** Nominal Length[1] **M_** Exact length[2] [1] Specify in feet to the nearest foot (i.e. 12) [2] Specify in inches to then nearest 1/8 (i.e. M180.125)	**IT** "T" Intersection **IX** "X" Intersection **IY** "Y" Intersection	**LS** Standard Output **LH** High Output **LVH** Very high Output **C_** Custom Output[1] [1] Contact Design Assist for custom tuning or non-standard light outputs.	**27K** Direct 2700k **30K** Direct 3000k **35K** Direct 3500k **40K** Direct 4000k	**_** 80+ CRI **CRI** 90+ CRI

VOLTAGE	OPTICS	MOUNTING	FINISH	DIMMING
U 120V-277V **3** 347V[1] [1] Not available with LEDcode or EM.	**DL** 1.00" Drop Lens **DL2** 2.25" Drop Lens	**S** Aircraft Cable[1] **F** Ceiling / Surface Mount **R** Direct Wall Mount **A** Direct Top Wall Mount[2] **M_** Mullion Blocks[3] **H_** Horizontal Set off Bracket[3] Black power cord provided for black and titanium finish and white power cord provided for all other fixture finishes, unless otherwise specified. [1] Standard 48" field adjustable cable, specify length to nearest inch if over 48". [2] ADA compliant only with 1" Drop Lens. [3] Enter "1" for 1" depth. Enter "5" for 1/2" depth.	**W** White **B** Black **T** Titanium **O_** Other **CBD** **SFH** **SPN** **SDW** **SCY** **LME** **SMN** [1] Specify RAL# or other custom color.	**D** Standard 0-10V dimming[1] **D2** Phase dimming[2] **D3** DMX 0.1% dim-to-dark **D4** DALI dim-to-off **NAIR** nLight ®AIR (dim-to-off)[3] **NWIR** nLight ®Wired (dim-to-off) [1] 1% dimming standard unless otherwise specified. [2] Reference ERP-PHB driver for compatible dimmers. [3] nLight AIR component completely integrated into fixture. Not available with Ceiling/Surface mount or Direct Top Wall mount. nLight AIR components completely integrated into fixture. Not available with 347V + LEDcode or EM. If 347V, only available in 0-10v.

EMERGENCY	OPTIONS
EC Circuited[1] **E** Battery[2] Not available for 347V. See technical data for more information. Not available on fixtures < 4' length. [1] Indicate length of separate EM circuit. If unknown, a 4' circuit will be provided by default. For full-length EM fixtures, no need to indicate EC. 4' fixtures will have a separate 2' EM circuit section. [2] Factory-installed emergency battery pack. Specify desired quantity of batteries.	**M** Multi-Circuit[1] **R** Right Endcap Feed **L** Left Endcap Feed **MRI** MRI[2] [1] Submit multi-circuiting requirements. [2] Review MRI brochure for more information.

Project name | Type | Date | Quantities

Light distribution

DISTRIBUTION	OUTPUT
Direct Symmetric	LVH: Very high output - 13 W/ft LH: High output - 10.5 W/ft LS: Standard output - 5 W/ft C: Custom tuned output - Contact Design Assist

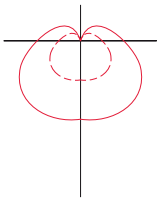
Photometric data

DIRECT SYMMETRIC

LVH - 3500K - DROP LENS 2.25"

Lumens: 1404 lm/ft
Input watts: 13 W/ft
Efficacy: 108 lm/W

LH:
LS:

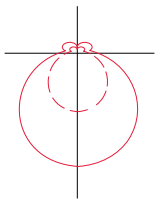


DIRECT SYMMETRIC

LVH - 3500K - DROP LENS 1.0"

Lumens: 1391 lm/ft
Input watts: 13 W/ft
Efficacy: 107 lm/W

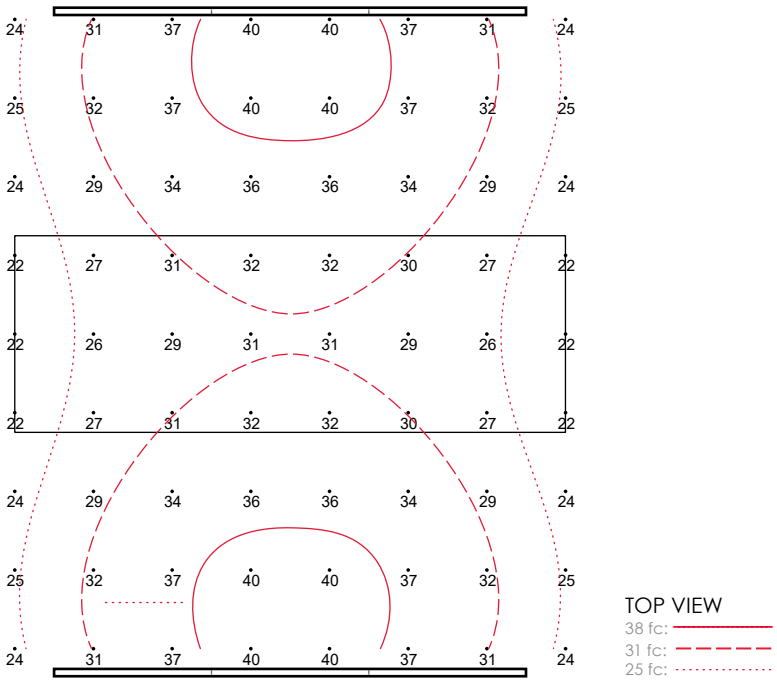
LH:
LS:



Sample installation - Workspace

LH DOWN - 4000K - 2.25" DROP LENS

Room height: 12 ft
Reflectance: 80% / 50% / 20%
Mounting height: 10 ft A.F.F.
Fixture length: 12 ft
Calculation grid: 2 ft x 2 ft
Calculation plane (horizontal): 2.5 ft A.F.F.
Average Illuminance: 31 fc
Fixture spacing: 16 ft O.C.
Uniformity: 1.4:1 (avg/min)



Project name | Type | Date | Quantities

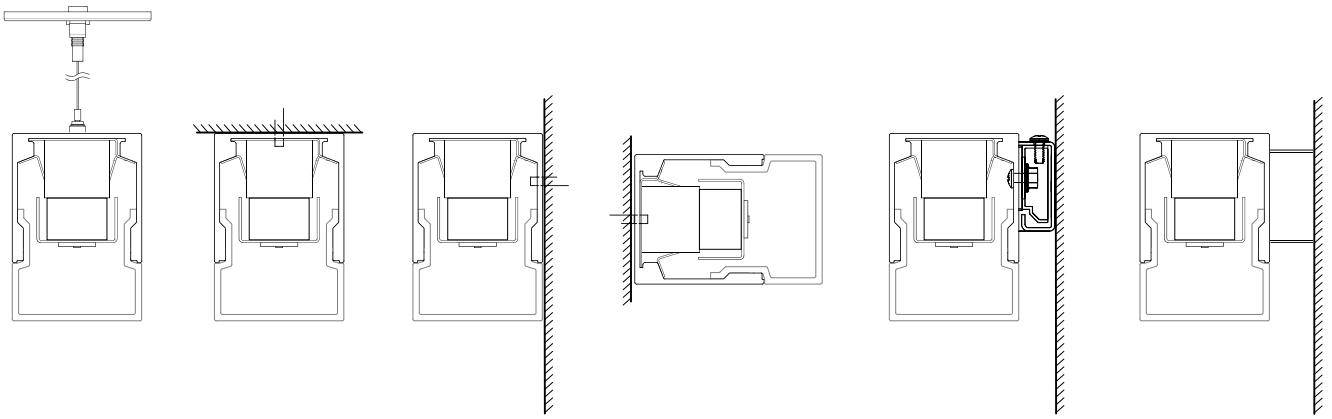
Light distribution

OUTPUT	CCT	LLF RATIO		DIRECT EFFICACY					
				2.25" DROP LENS		1" DROP LENS		FLUSH WISP	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.02	0.84	110 lm/W	91 lm/W	109 lm/W	90 lm/W	93 lm/W	76 lm/W
	3500K	1	0.83	108 lm/W	90 lm/W	107 lm/W	89 lm/W	91 lm/W	76 lm/W
	3000K	0.97	0.81	105 lm/W	87 lm/W	104 lm/W	87 lm/W	88 lm/W	74 lm/W
	2700K	0.94	0.79	102 lm/W	85 lm/W	101 lm/W	85 lm/W	86 lm/W	72 lm/W
LH (high)	4000K	1.02	0.84	111 lm/W	92 lm/W	109 lm/W	90 lm/W	98 lm/W	81 lm/W
	3500K	1	0.83	109 lm/W	90 lm/W	107 lm/W	89 lm/W	96 lm/W	80 lm/W
	3000K	0.97	0.81	106 lm/W	88 lm/W	104 lm/W	87 lm/W	93 lm/W	78 lm/W
	2700K	0.94	0.79	102 lm/W	86 lm/W	101 lm/W	85 lm/W	90 lm/W	76 lm/W
LS (standard)	4000K	1.02	0.84	120 lm/W	99 lm/W	118 lm/W	97 lm/W	101 lm/W	83 lm/W
	3500K	1	0.83	118 lm/W	98 lm/W	116 lm/W	96 lm/W	99 lm/W	82 lm/W
	3000K	0.97	0.81	114 lm/W	96 lm/W	113 lm/W	94 lm/W	96 lm/W	80 lm/W
	2700K	0.94	0.79	111 lm/W	93 lm/W	109 lm/W	92 lm/W	93 lm/W	78 lm/W

OUTPUT	CCT	LLF RATIO		DIRECT LUMEN OUTPUT					
				2.25" DROP LENS		1" DROP LENS		FLUSH WISP	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.02	0.84	1432 lm/ft	1179 lm/ft	1419 lm/ft	1168 lm/ft	1207 lm/ft	994 lm/ft
	3500K	1	0.83	1404 lm/ft	1165 lm/ft	1391 lm/ft	1155 lm/ft	1183 lm/ft	982 lm/ft
	3000K	0.97	0.81	1362 lm/ft	1137 lm/ft	1349 lm/ft	1127 lm/ft	1148 lm/ft	958 lm/ft
	2700K	0.94	0.79	1320 lm/ft	1109 lm/ft	1308 lm/ft	1099 lm/ft	1112 lm/ft	935 lm/ft
LH (high)	4000K	1.02	0.84	1167 lm/ft	961 lm/ft	1146 lm/ft	944 lm/ft	979 lm/ft	806 lm/ft
	3500K	1	0.83	1145 lm/ft	950 lm/ft	1124 lm/ft	933 lm/ft	960 lm/ft	797 lm/ft
	3000K	0.97	0.81	1110 lm/ft	927 lm/ft	1090 lm/ft	910 lm/ft	931 lm/ft	778 lm/ft
	2700K	0.94	0.79	1076 lm/ft	904 lm/ft	1056 lm/ft	888 lm/ft	902 lm/ft	758 lm/ft
LS (standard)	4000K	1.02	0.84	602 lm/ft	496 lm/ft	592 lm/ft	487 lm/ft	505 lm/ft	416 lm/ft
	3500K	1	0.83	590 lm/ft	490 lm/ft	580 lm/ft	481 lm/ft	495 lm/ft	411 lm/ft
	3000K	0.97	0.81	572 lm/ft	478 lm/ft	563 lm/ft	470 lm/ft	480 lm/ft	401 lm/ft
	2700K	0.94	0.79	555 lm/ft	466 lm/ft	545 lm/ft	458 lm/ft	465 lm/ft	391 lm/ft

Project name | Type | Date | Quantities

Mounting



(S)
Aircraft Cable

(F)
Ceiling Mount

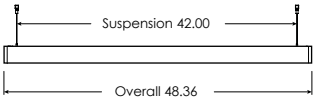
(R)
Direct Wall Mount
ADA Compliant

(A)
Direct top Wall Mount
ADA Compliant*
*Flush or 1" drop lens wisp only

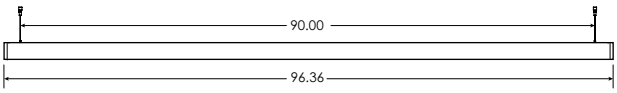
(M)
Mullion Blocks
ADA Compliant

(H)
Horizontal Setoff
ADA Compliant

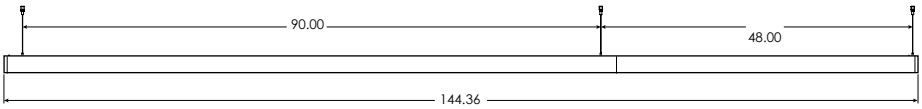
Standard patterns



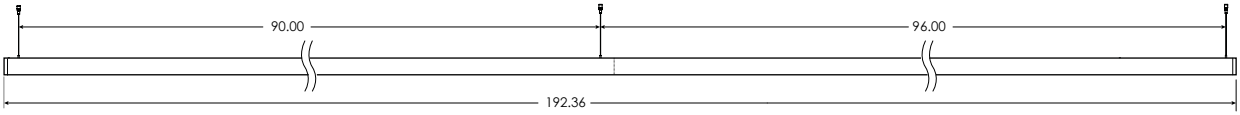
Nominal 4'



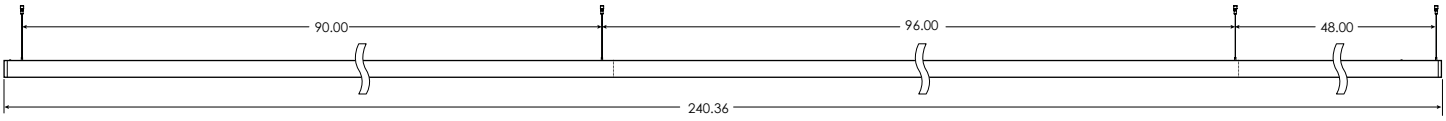
Nominal 8'



Nominal 12'



Nominal 16'

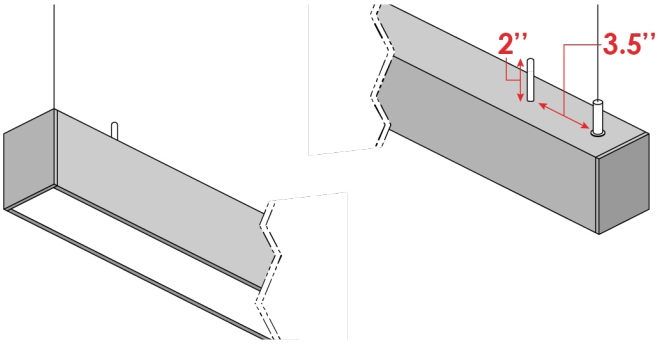


Nominal 20'

Project name | Type | Date | Quantities

NLight dimensions

AIR : rl0



*Module for nLight AIR only.

LINEAR DIMENSIONS

Nominal or exact lengths to the nearest 1/8th of an inch available as individual fixtures or joined to create continuous row lengths. Standard patterns comprised of 90 degree precisely welded fully illuminated corners provide a multitude of geometric options and architectural transitions. Custom angled corners and intersections also available upon request.

Custom - Contact Design Assist for modifications to product not detailed within specification sheets.

OPTICS

Drop Lenses are light diffuser option for O3 that turns the luminaire into a decorative graphical statement. The diffuser drops down from the luminaire's main body of 1.00" and 2.25" and sits flush with the metal end caps. Once lit, the dropped lens glows vividly and offers a wider diffusion pattern.

LED LIGHT SOURCE

Custom manufactured linear board array uses high-performance Nichia® LED in combination with a performance-driven heat sink technology. Tested under LM79 and LM-80; L70>60,0000hr; operated at reduced output for high efficacy and lumen maintenance. 2700K, 3000K, 3500K, and 4000K with 80+ CRI standard; other color temperatures and 90+ CRI available upon request, contact factory. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). LEDs are available in Standard, High and Very High outputs. Refer to photometry for delivered lumens.

LED DIMMING DRIVER

Factory tuned constant current electronic 0-10V control dimming driver is standard. Specification grade dimming down to 1%. Driver life of 50,000 hrs with an ambient operating temperature range of -30°C to 50°C, maximum case temperature of 75°C. Electrical specifications at maximum driver load: PF >0.9, THD <20%, >85% Efficiency.

EMERGENCY

This luminaire is provided with a factory-installed LED emergency lighting battery pack for both normal and emergency operation, 120-277v only. This fixture integrated unit contains a long-life Ni-Cad recyclable battery, 24-hour charger, and converter circuit. Test switch and charge indicator provided. Test button to be remotely located within 3 feet of the luminaire, following local code. Emergency mode provides constant power to a nominal 12W LED load for 90 minutes, delivering 1200 lumens of unwavering illumination throughout the full 90-minute emergency duration. Unless otherwise specified, the emergency battery pack will illuminate one 2' foot end in the direct portion of the fixture.

Emergency circuiting provided as a separate circuit from a normal power circuit according to NEC requirements, specify circuit length and location.

CONTROLS

Integrated nLight ® for system networking wired and wireless:

NLIGHT ® AIR WIRELESS

The rIO is available for integration.

nLight enabled, remote mounted controls provided by others. Please contact an Acuity controls representative for more information.

MOUNTING

Aircraft cable set includes 48" standard length 1/16" stainless steel adjustable aircraft cables with secure micro grippers to fieldset suspension length, comes factory installed in the fixture. 4-1/2" x 4-1/2" square white canopies. Cord strain is also included. Power cord options available for aircraft cable. Black power cord provided for black and titanium finish, white power cord provided for all other fixture finishes unless otherwise specified.

Specify if other suspension length is required. Canopies provided as required for the quantity of power feed and non-power feed locations (crossbar included with power feed only). Specify if another shape, size, or color is required.

Direct wall mounting and Direct top wall mounting are ADA compliant. Fixture mounts directly to wall surface requiring no field drilled mounting and power feed holes. Factory pre-drilled holes can be tapped for ½" chase nipple, submit dimension requirements when ordering.

Mullion blocks are used to mount fixture to a horizontal or vertical window mullion and can also be used to offset fixture from wall. 0.5", 1" or 1.5" sheet metal mullion blocks are standard available. (2) blocks provided for extrusions 8ft or less, fixtures larger than 8ft additional blocks are provided as required. Quantity of power feed and non power feed blocks provided as required. Fixture mounting requires field drilled mounting and power feed holes. Factory pre-drilled holes can be drilled and tapped for ½" chase nipple, submit dimension requirements when ordering.

Power feed holes are pre-drilled and mounting hardware is pre-installed at the factory to the fixture housing. Submit dimension requirements when ordering.

Horizontal Set-off brackets (H-bracket) are used to offset fixtures from a wall by 1" or ½". The Wall side bracket attaches to the horizontal single gang box on the wall. The outside horizontal box is factory-installed to the fixture's side. The fixture side box hinges over the wall bracket and two brackets are fastened together with a set screw to secure the fixture to the wall. (2) brackets per fixture up to 12', on-center spacing varies depending on overall fixture length.

FINISH

Electro-statically applied powder coat finish. Standard finish options include titanium, white, and black. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

LISTING

UL/CUL rated for damp locations. Tested under UL 1598 and certified to CEC/CSA C22.1, NEC, ANSI/NFPA 70, and NOM-001-SEDE.

The O3 is assembled in the U.S.A. and complies with the Buy America(n) Act (BAA) government procurement requirements under FAR, DFARS, and DOT.

WARRANTY

Please refer to the full terms and conditions on our website:
www.alights.com/downloads/warranty/