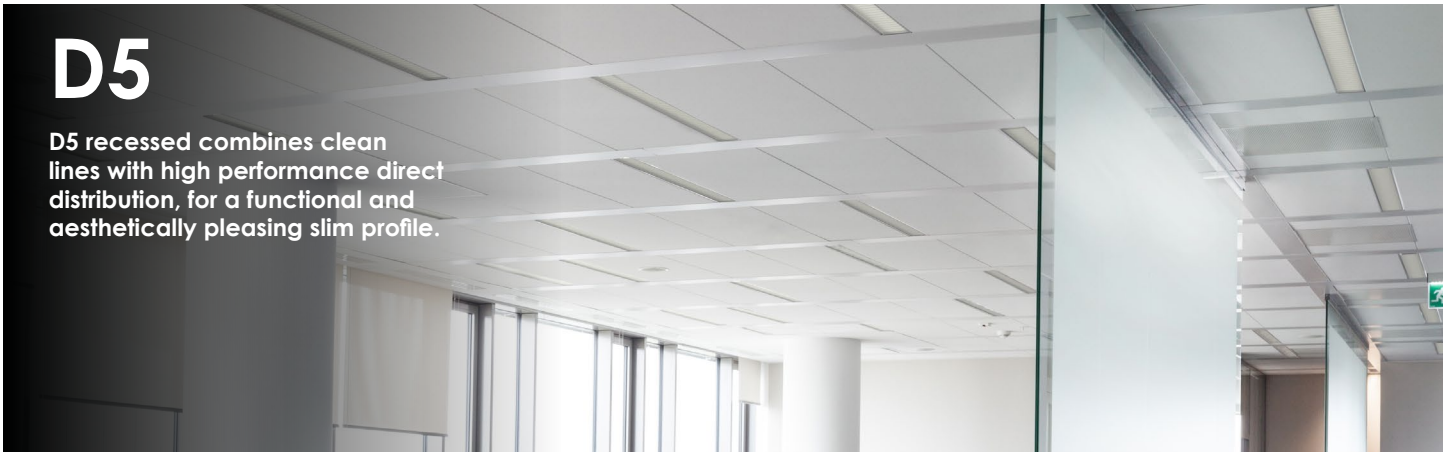


D5

D5 recessed combines clean lines with high performance direct distribution, for a functional and aesthetically pleasing slim profile.

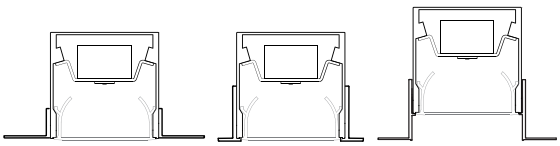
nLIGHT Controls · eldoLED Drivers · White tuning · 5Y Warranty · HE Tech lens · Dim. to warm · Sensors · WET Location · cULus Certified · RGBW · DAMP Location · BAA Buy American · Build America Buy America BABA

Performance

OUTPUT	DIRECT OPTICS	DELIVERED		
		LUMEN OUTPUT	INPUT WATTS	EFFICACY
LVH (Very high)	Batwing Wide	1339 lm/ft	13 W/ft	103 lm/W
	1" Drop Lens	1118 lm/ft	13 W/ft	86 lm/W
	HE Tech™	1323 lm/ft	13.5 W/ft	98 lm/W
	Asymmetric Wisp	1118 lm/ft	13 W/ft	86 lm/W
	Louver	689 lm/ft	13 W/ft	53 lm/W
	Wall Wash	1082 lm/ft	10.5 W/ft	103 lm/W
	Room Fill	1082 lm/ft	10.5 W/ft	103 lm/W

Based on static white 3500K HE lens fixtures. For the complete photometric data of this fixture refer to pages 3 and 4.

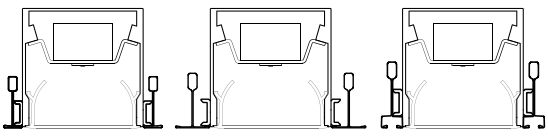
Mounting options



(G) Flush Gyp/Mud over Flange

(XP) 1/2" Trim Flange

(RG) 1" regressed Gyp/ Mud over Flange

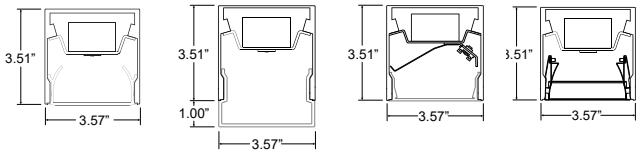


(T) 9/16" T-Bar

(X) 15/16" T-Bar

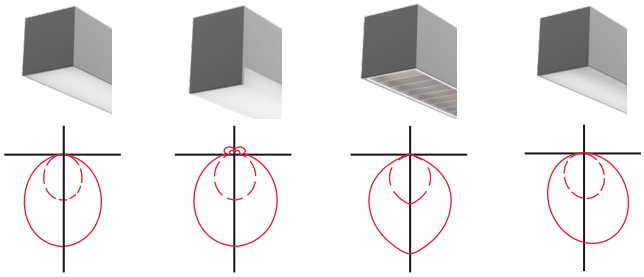
(N) 9/16" Slot T-Bar

Dimensions



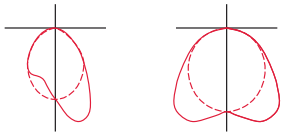
HE Tech™ (HE) · 1" Drop Lens (DL) · Kicker Awash + Wisp (KS) · Flat Blade Louver (LV)

Downlight lens options



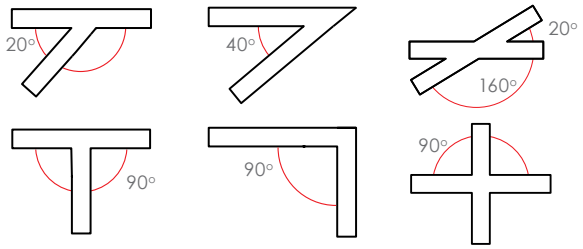
HE Tech™ (HE) · 1" Drop Lens (DL) · Flat Blade Louvers (LV) · Asymmetric WISP™ (KS)

Other options



Wall Wash Flush Lens (WW) · Batwing (BW)

Multiple intersection 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.

D5						
SERIES	**LENGTH OR PATTERN TYPE**	**INTERSECTION TYPE**	**OUTPUT**	**LED CCT**	**CRI**	**VOLTAGE**
D5	**_** Nominal Length[1] **M_** Exact Length[2] **PL_** "L" Shape[3] **PU_** "U" Shape[3] **PR_** Rectangle/Square[3] **CP** Custom Pattern[4] Indicate length of each section of pattern either nominal or exact. [1] Specify in feet to the nearest foot (i.e. 12) [2] Specify in inches to the nearest 1/8 (i.e. M180.125). KS optic requires increments of 6". [3] Specify in inches to the nearest 1/8 (See Pattern Guide for configurations) [4] Contact Design Assist	**IT** "T" Intersection[1] **IX** "X" Intersection[1] **IY** "Y" Intersection[2] [1] Not available with Drop Lens and Awash Kicker + WISP. Available with Flat Blade Louvers only in 90° degrees. [2] Fully illuminated intersection available with HE Tech and Polycarbonate Flush WISP optics only.	**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.	**27** 2700k **30** 3000k **35** 3500k **40** 4000k **DW** Dim-to-warm[1] **TW** Tunable White[1,2] **RW** RGBW (full color + 3000k White)[2,3] [1] Standard CCT range is 27-50K. Contact Design Assist for custom range. [2] Photometric data pending for Tunable White and RGBW. [3] RGBW is UL pending and only available in DMX dimming. Contact Design Assist for white CCTs other than 3000k.	**_** 80+ CRI **CRI** 90+ CRI[1] [1] Not offered with (TW) Tunable White or (DW) Dim-to-Warm. Contact Design Assist to discuss RGBW possibilities.	**U** 120-277V **3** 347V[1] [1] Not available with LEDcode or EM.

DIRECT OPTICS	**MOUNTING**	**FINISH**	**DIMMING**	**EMERGENCY**
HE HE Tech™ **KS** Awash Kicker + WISP **DL** 1" Drop Lens[1] **LV** Flat Blade Louvers[2] **WW** Wall Wash **BW** Batwing Wide **RF** Room Fill [1] Not available with Wet Location. Ends are covered with a slim endcap; please specify finish. [2] Aluminum Standard. Not available with Wet Location.	**G** Flush Gyp / Mud Over Flange **RG** 1" Regressed Gyp / Mud Over Flange[1] **XP** 1/2" Trim Flange[1] **T** T-Bar 9/16" **X** T-Bar 15/16"[2] **N** T-Bar 9/16 Slot [1] Finish required for RG and XP only. [2] Housing slightly regressed	**W** White **B** Black **T** Titanium **O_** Other[1] CBD SFH SPN SDW SCY LME SMN Required only for RG and XP mounting types and for Drop Lens optic. [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-PH8 driver for compatible dimmers. [3] nLight AIR components completely integrated into fixture. Not available with 347V + LEDcode or EM. If 347V, only available in 0-10v.	**EC** Circuited **E_** Battery[1] 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.

SENSORS	**OPTIONS**
OF_ Occupancy Sensor - Fixture **PF_** Photocell / Daylight Sensor - Fixture **OPF_** Occupancy & daylight Sensor - Fixture Specify quantity of sensors per fixture. Sensor will be matched to dimming input. All sensors to be integral to fixture. Remote sensors are to be provided by others.	**M** Multi-Circuit[1] **R** Right Endcap Feed **L** Left Endcap Feed **K** Natatorium Application[2] **Q** Wet Location[3] **CP** Chicago Plenum **MRI** MRI[4] [1] Submit multi-circuiting requirements [2] Not compatible with Drop Lens or Flat Blade Louvers Optics. See guide and contact Design Assist [3] Wet location suitable in full coverage and/or mullion mounted applications (direct to sky not recommended); not suitable for extreme weather applications. Refer to Wet Location brochure and contact Design Assist for more information. Not compatible with Drop Lens or Flat Blade Louvers Optics. [4] Review MRI brochure for more information.

Project name | Type | Date | Quantities

Light distribution

OUTPUT (DC)

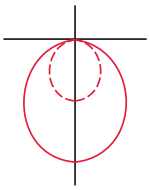
LVH: Very high output - 13 W/ft
LH: High output - 10.5 W/ft
LS: Standard output - 5 W/ft
C: Custom tuned output - Contact Design Assist

Photometric data

HE TECH™

LVH- 4FT- 3500K

Lumens: 1323 lm/ft
Input watts: 13.5 W/ft
Efficacy: 98 lm/W

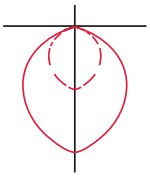




DIRECT FLAT BLADE LOUVERS

LVH- 4FT- 3500K

Lumens: 689 lm/ft
Input watts: 13 W/ft
Efficacy: 53 lm/W

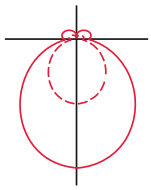




DIRECT 1" DROP-LENS

LVH- 4FT- 3500K

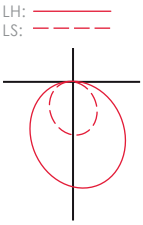
Lumens: 1118 lm/ft
Input watts: 13 W/ft
Efficacy: 86 lm/W





DIRECT ASYMMETRIC
LVH - 3500K - ASYMMETRIC WISP

Lumens: 1118 lm/ft
Input watts: 13 W/ft
Efficacy: 86 lm/W

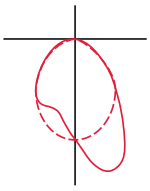




DIRECT WALL WASH

LVH- 4FT- 3500K

Lumens: 1082 lm/ft
Input watts: 10.5 W/ft
Efficacy: 103 lm/W

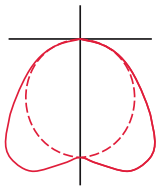




DIRECT BATWING

LVH- 4FT- 3500K

Lumens: 1339 lm/ft
Input watts: 13 W/ft
Efficacy: 103 lm/W

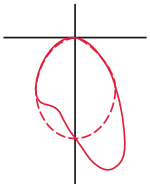




DIRECT ROOM FILL

LVH- 4FT- 3500K

Lumens: 1082 lm/ft
Input watts: 10.5 W/ft
Efficacy: 103 lm/W



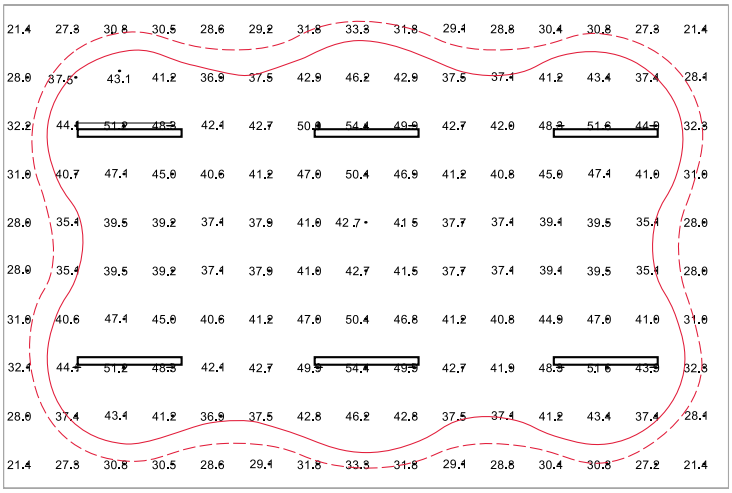


Project name | Type | Date | Quantities

Sample Installation - Workspace

LH DOWN - 4000K

Room dimensions: 20'L x 30'W x 12'H
Reflectance: 80% / 50% / 20%
Mounting height: 9 ft A.F.F.
Fixture length: 4 ft
Calculation grid: 2 ft x 2 ft
Calculation plane (horizontal): 2.5 ft A.F.F.
Average Illuminance: 36 fc
Fixture spacing: 8 ft x 10 ft
Uniformity: 1.6:1 (avg/min)



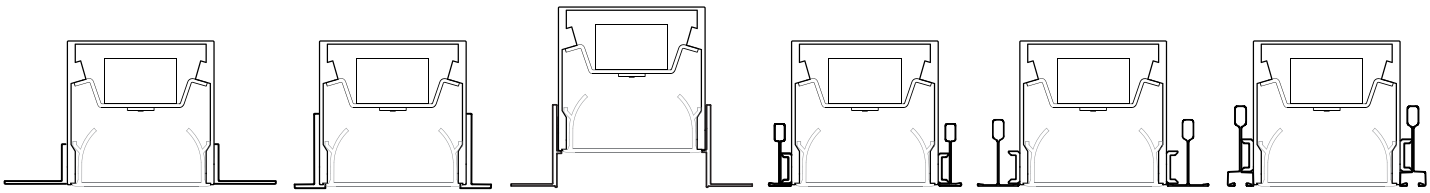
TOP VIEW
30 fc:
25 fc:

Light loss factors (LLF)

OUTPUT	CCT	LLF RATIO		DIRECT EFFICACY													
				BATWING WIDE		DROP LENS		HE TECH		AWASH KICKER		LOUVER		WALL WASH		ROOM FILL	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.02	0.84	105 lm/W	87 lm/W	88 lm/W	72 lm/W	100 lm/W	82 lm/W	88 lm/W	72 lm/W	54 lm/W	45 lm/W	105 lm/W	87 lm/W	105 lm/W	87 lm/W
	3500K	1	0.83	103 lm/W	85 lm/W	86 lm/W	71 lm/W	98 lm/W	81 lm/W	86 lm/W	71 lm/W	53 lm/W	44 lm/W	103 lm/W	85 lm/W	103 lm/W	85 lm/W
	3000K	0.97	0.81	100 lm/W	83 lm/W	83 lm/W	70 lm/W	95 lm/W	79 lm/W	83 lm/W	70 lm/W	51 lm/W	43 lm/W	100 lm/W	83 lm/W	100 lm/W	83 lm/W
	2700K	0.94	0.79	97 lm/W	81 lm/W	81 lm/W	68 lm/W	92 lm/W	77 lm/W	81 lm/W	68 lm/W	50 lm/W	42 lm/W	97 lm/W	81 lm/W	97 lm/W	81 lm/W
LH (high)	4000K	1.02	0.84	105 lm/W	87 lm/W	89 lm/W	73 lm/W	104 lm/W	86 lm/W	89 lm/W	73 lm/W	54 lm/W	45 lm/W	105 lm/W	87 lm/W	105 lm/W	87 lm/W
	3500K	1	0.83	103 lm/W	85 lm/W	87 lm/W	72 lm/W	102 lm/W	85 lm/W	87 lm/W	72 lm/W	53 lm/W	44 lm/W	103 lm/W	85 lm/W	103 lm/W	85 lm/W
	3000K	0.97	0.81	100 lm/W	83 lm/W	84 lm/W	70 lm/W	99 lm/W	83 lm/W	84 lm/W	70 lm/W	51 lm/W	43 lm/W	100 lm/W	83 lm/W	100 lm/W	83 lm/W
	2700K	0.94	0.79	97 lm/W	81 lm/W	82 lm/W	69 lm/W	96 lm/W	81 lm/W	82 lm/W	69 lm/W	50 lm/W	42 lm/W	97 lm/W	81 lm/W	97 lm/W	81 lm/W
LS (standard)	4000K	1.02	0.84	114 lm/W	94 lm/W	96 lm/W	79 lm/W	113 lm/W	93 lm/W	96 lm/W	79 lm/W	59 lm/W	49 lm/W	115 lm/W	95 lm/W	115 lm/W	95 lm/W
	3500K	1	0.83	112 lm/W	93 lm/W	94 lm/W	78 lm/W	111 lm/W	92 lm/W	94 lm/W	78 lm/W	58 lm/W	48 lm/W	113 lm/W	94 lm/W	113 lm/W	94 lm/W
	3000K	0.97	0.81	109 lm/W	91 lm/W	91 lm/W	76 lm/W	108 lm/W	90 lm/W	91 lm/W	76 lm/W	56 lm/W	47 lm/W	110 lm/W	92 lm/W	110 lm/W	92 lm/W
	2700K	0.94	0.79	105 lm/W	88 lm/W	88 lm/W	74 lm/W	104 lm/W	88 lm/W	88 lm/W	74 lm/W	55 lm/W	46 lm/W	106 lm/W	89 lm/W	106 lm/W	89 lm/W

OUTPUT	CCT	LLF RATIO		DIRECT LUMEN OUTPUT													
				BATWING WIDE		DROP LENS		HE TECH		AWASH KICKER		LOUVER		WALL WASH		ROOM FILL	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.02	0.84	1366 lm/ft	1125 lm/ft	1140 lm/ft	939 lm/ft	1349 lm/ft	1111 lm/ft	1140 lm/ft	939 lm/ft	703 lm/ft	579 lm/ft	1103 lm/ft	908 lm/ft	1103 lm/ft	908 lm/ft
	3500K	1	0.83	1339 lm/ft	1111 lm/ft	1118 lm/ft	928 lm/ft	1323 lm/ft	1098 lm/ft	1118 lm/ft	928 lm/ft	689 lm/ft	572 lm/ft	1082 lm/ft	898 lm/ft	1082 lm/ft	898 lm/ft
	3000K	0.97	0.81	1299 lm/ft	1085 lm/ft	1084 lm/ft	906 lm/ft	1283 lm/ft	1072 lm/ft	1084 lm/ft	906 lm/ft	668 lm/ft	558 lm/ft	1049 lm/ft	876 lm/ft	1049 lm/ft	876 lm/ft
	2700K	0.94	0.79	1259 lm/ft	1058 lm/ft	1051 lm/ft	883 lm/ft	1244 lm/ft	1045 lm/ft	1051 lm/ft	883 lm/ft	648 lm/ft	544 lm/ft	1017 lm/ft	854 lm/ft	1017 lm/ft	854 lm/ft
LH (high)	4000K	1.02	0.84	1103 lm/ft	908 lm/ft	932 lm/ft	767 lm/ft	1092 lm/ft	900 lm/ft	932 lm/ft	767 lm/ft	568 lm/ft	467 lm/ft	893 lm/ft	735 lm/ft	893 lm/ft	735 lm/ft
	3500K	1	0.83	1082 lm/ft	898 lm/ft	914 lm/ft	758 lm/ft	1071 lm/ft	889 lm/ft	914 lm/ft	758 lm/ft	557 lm/ft	462 lm/ft	876 lm/ft	727 lm/ft	876 lm/ft	727 lm/ft
	3000K	0.97	0.81	1049 lm/ft	876 lm/ft	886 lm/ft	740 lm/ft	1039 lm/ft	868 lm/ft	886 lm/ft	740 lm/ft	540 lm/ft	451 lm/ft	849 lm/ft	709 lm/ft	849 lm/ft	709 lm/ft
	2700K	0.94	0.79	1017 lm/ft	854 lm/ft	859 lm/ft	722 lm/ft	1007 lm/ft	846 lm/ft	859 lm/ft	722 lm/ft	523 lm/ft	440 lm/ft	823 lm/ft	692 lm/ft	823 lm/ft	692 lm/ft
LS (standard)	4000K	1.02	0.84	571 lm/ft	470 lm/ft	479 lm/ft	395 lm/ft	566 lm/ft	466 lm/ft	479 lm/ft	395 lm/ft	296 lm/ft	244 lm/ft	461 lm/ft	380 lm/ft	461 lm/ft	380 lm/ft
	3500K	1	0.83	560 lm/ft	465 lm/ft	470 lm/ft	390 lm/ft	555 lm/ft	461 lm/ft	470 lm/ft	390 lm/ft	290 lm/ft	241 lm/ft	452 lm/ft	375 lm/ft	452 lm/ft	375 lm/ft
	3000K	0.97	0.81	543 lm/ft	454 lm/ft	456 lm/ft	381 lm/ft	538 lm/ft	450 lm/ft	456 lm/ft	381 lm/ft	281 lm/ft	235 lm/ft	438 lm/ft	366 lm/ft	438 lm/ft	366 lm/ft
	2700K	0.94	0.79	526 lm/ft	442 lm/ft	442 lm/ft	371 lm/ft	522 lm/ft	438 lm/ft	442 lm/ft	371 lm/ft	273 lm/ft	229 lm/ft	425 lm/ft	357 lm/ft	425 lm/ft	357 lm/ft

Mounting



(G)
Flush Gyp/Mud over Flange

(XP)
1/2" Trim Flange

(RG)
1" regressed Gyp/ Mud over Flange

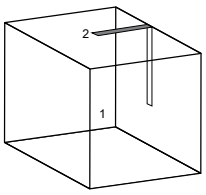
(T)
9/16" T-Bar

(X)
15/16" T-Bar

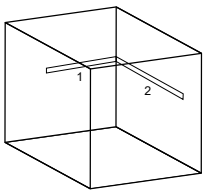
(N)
9/16" Slot T-Bar

Project name | Type | Date | Quantities

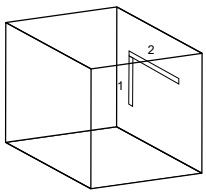
Standard pattern



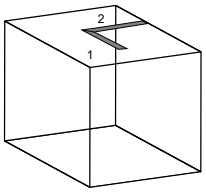
Wall to ceiling
(PLCW)



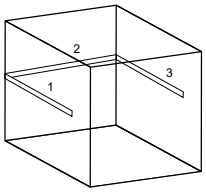
Wall to wall
(PLWW)



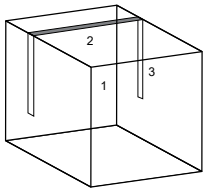
Wall only
(PLW)



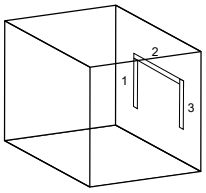
Ceiling only
(PLC)



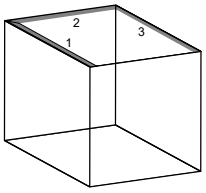
Wall to wall
(PUWW)



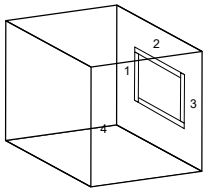
Wall to ceiling to wall
(PUWC)



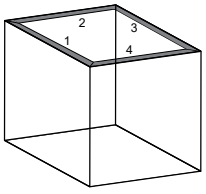
Wall only
(PUW)



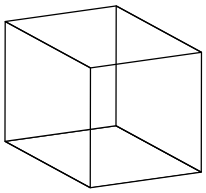
Ceiling only
(PUC)



Wall only
(PRW)

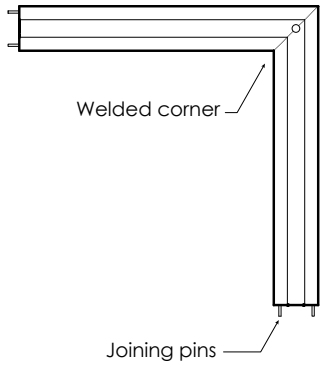


Ceiling only
(PRC)



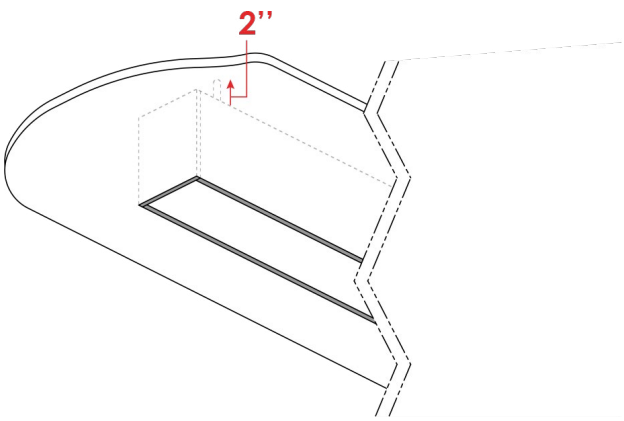
Custom Pattern
(CP)

Corner detail



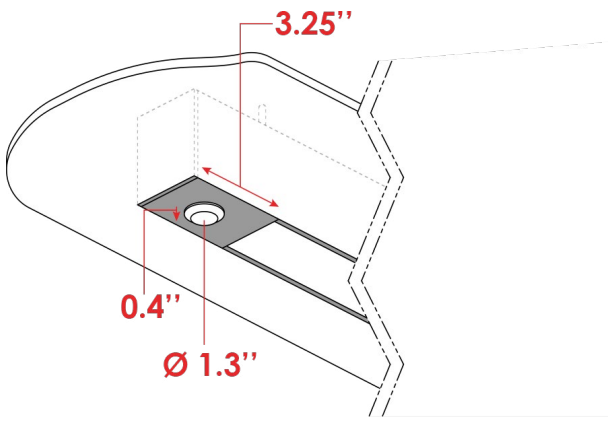
NLight dimensions

AIR : rIO Recessed



*Fixture mounted module for nLight AIR only.

AIR : res7 Recessed



*Fixture mounted sensors and filler panel for nLight AIR only.

Project name | Type | Date | Quantities

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. Patterns comprised of 90 degree precisely welded fully illuminated corners provide a multitude of geometric options and architectural transitions.

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

OPTICS

The high-efficiency extruded diffuse acrylic lens technology, patented HE Tech™, features an integrated opaque white reflector. It delivers superior lumen output with optimal uniform lens surface luminance for direct distribution.

Awash Kicker + WISP produces a soft asymmetric distribution with a diffuse white extruded acrylic lens.

Drop Lens is a light diffuser option that turns the luminaire into a decorative graphical statement. The diffuser drops down from the luminaire's main body of 1" and sits flush with the metal end caps. Once lit, the drop lens glows vividly and offers a wider diffusion pattern. It is not available in natatorium or wet locations. For recessed mounts, the lens protrudes past the ceiling, and the ends are covered with a slim painted endcap.

Flat Blade Louvers are used to cut down on glare and better control the light source This option includes a linear film diffuser (inserted between the louvers and the LEDs), that enhances glare control and lends light sources. The standard finish is aluminum. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement. It is not available in natatorium or wet locations.

Perimeter fill - Wall wash and Batwing wide for direct distributions are film optics that refract light along with an HE Tech™ extruded diffuse acrylic lens with integrated opaque white reflector.

LED LIGHT SOURCE

Custom manufactured linear board array uses high performance Nichia® LED in combination with a performance driven heat sink technology. Tested in accordance with 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 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 ambient operating temperature range of -20°C to +50°C, maximum case temperature of 80°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 long-life Ni- Cad recyclable battery, 24 hour charger, and converter circuit. Test switch and charge indicator provided. Test button to be remote located within 3 feet of the luminaire, by others in accordance with local code. Emergency mode provides constant power to a nominal 12W LED load for a period of 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 normal power circuit according to NEC requirements, specify circuit length and location.

CONTROLS

Low-profile integral occupancy and daylight sensors are available to deliver high performance control in an architecturally pleasing package.

Integrated nLight ® for system networking wired and wireless:

NLIGHT ® AIR WIRELESS

The integrated API smart sensor is part of each luminaire in the nLight® AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application. Optionally you can order nLight® AIR less sensors for compatibility with an nLight Air wireless system. The rIO, rES7, rMSOD, and rCMS models are available for integration.

CONTROLS AND SYSTEM NETWORKING OPTIONS

For wired networking via Cat-5e, choose an nLight® wired module. The nIO EZ PH, nIO EZDL CCT, nES7 and nCM are available for integration.

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

MOUNTING

Common recessed mounting options available. Contact factory for applications regarding modified recessed mounting conditions.

Flush Gypsum Flange: Raw aluminum flange is attached to blocking (by others), then mudded over and/or painted by installing contractor to provide a "flangeless" fixture appearance in recessed ceiling/wall applications.

Trim Flange: 1/2" wide visible powder coated flange, specify finish requirement. Fixture is mounted to structure using threaded rod (by others) or ceiling tie wires. Use of a-clamp™ secures fixture trim and housing around ceiling/wall material. Use for any gypsum or hard ceiling/wall that requires a minimal flange covering the ceiling cut-out edge.

T-Bar/Grid Ceiling. 9/16" or 15/16" standard T-Bar or 9/16" slot ceiling. Raw aluminum flange sits on T-Bar and is concealed from view.

FINISH

Electrostatically 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

IC Rated for IC, Airtight, CCEA Ceilings. CCEA mark applied for Chicago Plenum applications. UL/CUL rated for Damp Locations. Tested in accordance with UL 1598 and certified to CEC/CSA C22.1, NEC, ANSI/NFPA 70, and NOM-001-SEDE.

The D5 is assembled in America and complies with the Buy America(n) Act (BAA), Build America, Buy America (BABA) government procurement requirements under FAR, DFARS, and DOT.

UL Wet location label available. Complies with UL definition of wet locations to prevent accumulation of water on live parts, electrical components, or conductor not identified for use in contact with water through the provision of weep holes. Waterproof connector to be provided by others. Installing contractor responsible for properly sealing and waterproofing all field drilled mounting and power feed locations.

WARRANTY

Limited defect-free manufactured equipment warranty provided under normal use and proper storage for a period of one (1) year. LED products (LED boards and drivers) will be covered for a period of five (5) years. Please refer to full terms and conditions on our website: www.alights.com/downloads/warranty/