

D5

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

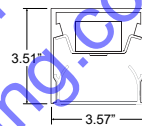


Performance

OUTPUT	DIRECT OPTICS	DELIVERED		
		LUMEN OUTPUT	INPUT WATTS	EFFICACY
LVH (Very high)	HE Tech™	1323 lm/ft	13.5 W/ft	98 lm/W

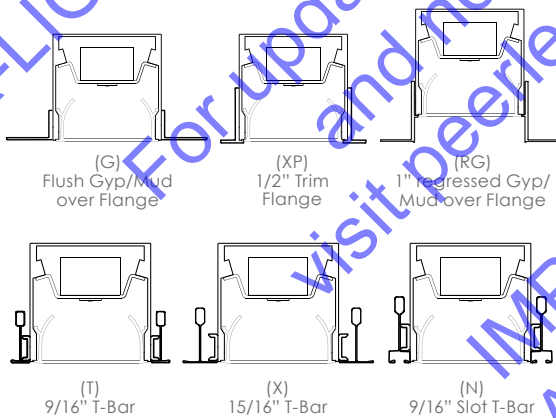
Based on static white 3500K HE lens fixtures. For the complete photometric data of this fixture refer to pages 2 and 3.

Dimensions



HE Tech™ (HE)

Mounting options



Downlight lens options



Fast track nomenclature only. For complete nomenclature see "standard" specsheet.

D5	LENGTH	OUTPUT	LED CCT	CRI	VOLTAGE	DIRECT OPTICS
SERIES						
D5	Nominal Length ¹	LS Standard Output LH High Output LVH Very high Output C Custom Output ¹	30 3000k 35 3500K 40 4000k	80+ CRI	U 120-277V	HE HE Tech™

¹ Specify in feet to the nearest foot (i.e. 12)

¹ Contact Design Assist for custom tuning or non-standard light outputs.

MOUNTING	FINISH	DIMMING	OPTIONS	OTHER
G Flush Gyp / Mud Over Flange XP 1/2" Trim Flange ¹ T T-Bar 9/16" X T-Bar 15/16" N T-Bar 9/16 Slot	W White B Black T Titanium	D Standard 0-10V dimming NAIR nLight @AIR (dim-to-off) ²	Q Wet Location ¹ CP Chicago Plenum	FT Fast Track ¹

¹ Finish required for XP only.

¹ 1% Dimming standard unless otherwise specified.
² nLight AIR components completely integrated into fixture.

¹ Not available with aircraft cable nor horizontal setoff bracket. Wet location suitable in full coverage and/or mullion mounted applications (direct to sky not recommended); not suitable for extreme weather applications. Wet Location brochure must be acknowledged. Contact Design Assist for more information.

¹ Option must be in part number in order to be considered fast track.



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.

SPECIFICATION GUIDE

Light distribution

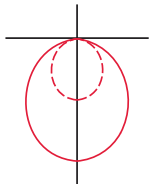
DISTRIBUTION

Direct Symmetric

HE TECH™

LVH- 4FT- 3500K

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



OUTPUT (DC)

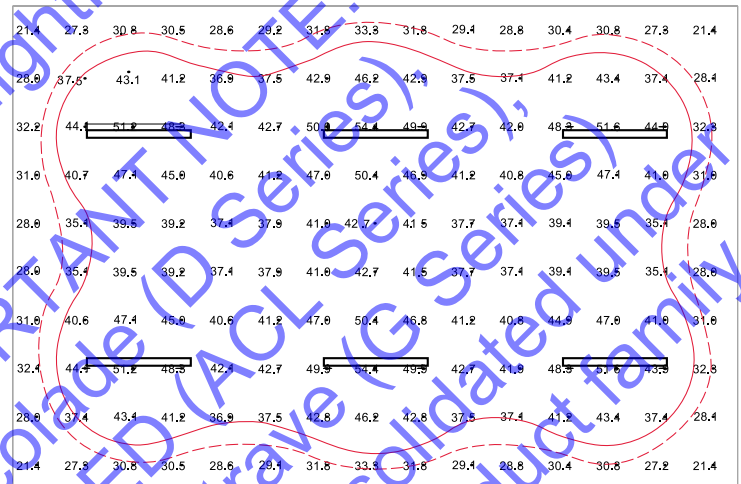
LVH: Very high output - 13 W/ft
LH: High output - 10.5 W/ft
LS: Standard output - 5 W/ft
C: Custom tuned output - Contact Design Assist

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 ft
25 ft



Light loss factors (LLF)

OUTPUT	CCT	LLF RATIO		HE TECH	
		CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.02	0.84	100 lm/W	82 lm/W
	3500K	1	0.83	98 lm/W	81 lm/W
	3000K	0.97	0.81	95 lm/W	79 lm/W
	2700K	0.94	0.79	92 lm/W	77 lm/W
LH (high)	4000K	1.02	0.84	104 lm/W	86 lm/W
	3500K	1	0.83	102 lm/W	85 lm/W
	3000K	0.97	0.81	99 lm/W	83 lm/W
	2700K	0.94	0.79	96 lm/W	81 lm/W
LS (standard)	4000K	1.02	0.84	113 lm/W	93 lm/W
	3500K	1	0.83	111 lm/W	92 lm/W
	3000K	0.97	0.81	108 lm/W	90 lm/W
	2700K	0.94	0.79	104 lm/W	88 lm/W

OUTPUT	CCT	LLF RATIO		HE TECH	
		CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.02	0.84	1349 lm/ft	1111 lm/ft
	3500K	1	0.83	1323 lm/ft	1098 lm/ft
	3000K	0.97	0.81	1283 lm/ft	1072 lm/ft
	2700K	0.94	0.79	1244 lm/ft	1045 lm/ft
LH (high)	4000K	1.02	0.84	1092 lm/ft	900 lm/ft
	3500K	1	0.83	1071 lm/ft	889 lm/ft
	3000K	0.97	0.81	1039 lm/ft	868 lm/ft
	2700K	0.94	0.79	1007 lm/ft	846 lm/ft
LS (standard)	4000K	1.02	0.84	566 lm/ft	466 lm/ft
	3500K	1	0.83	555 lm/ft	461 lm/ft
	3000K	0.97	0.81	538 lm/ft	450 lm/ft
	2700K	0.94	0.79	522 lm/ft	438 lm/ft

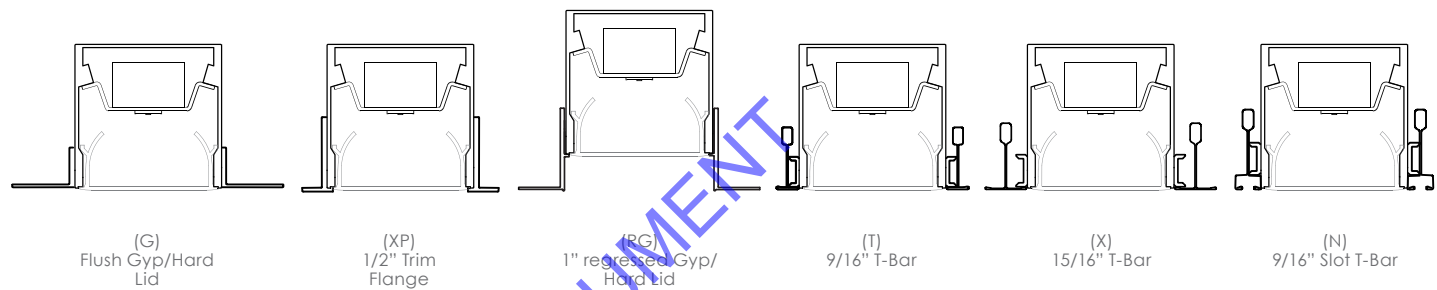
Project name

Type

Date

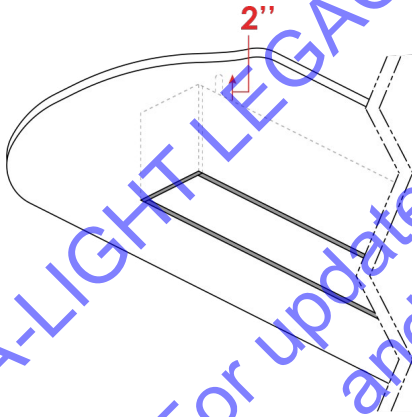
Quantities

Mounting



NLight dimensions

AIR : rIO Recessed



*Fixture mounted 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.

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.

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>60,000hr; operated at reduced output for high efficacy and lumen maintenance. 3000K, 3500K, and 4000K with 80+ CRI standard. 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 ambient operating temperature range of -20°C to +50°C; maximum case temperature of 80°C. Electrical specifications of maximum driver load: PF >0.9, THD <20%, >85% Efficiency.

CONTROLS

Integrated nLight® for system networking wireless:

nLIGHT® AIR WIRELESS

The rIO model is available for integration.

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.

4" Armstrong Techzone™ / USG Logix™ or other 4" Utility Systems. Suitable for use in 4" on-center standard or slot T-Bar systems.

FINISH

Electrostatically applied powder coat finish. Standard finish options include titanium, white, and black.

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/