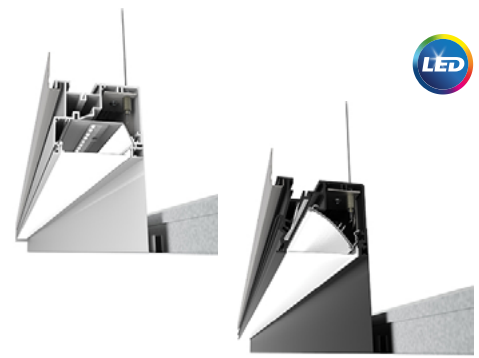




Placing emphasis where it belongs... Ledalite brings you the latest high performance lighting solution for your designer toolbox, **TruGroove perimeter** ambient and graze. Whether your desire is to set the mood or create a statement, **TruGroove** lets you emphasize with illumination.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Line ID: _____ Qty: _____

Notes: _____

Ordering guide

example: 4909LBEPSN067DE, C/C, 2S1

Family	Type	Source	CRI/CCT1	Lumens ¹	Optics	Housing	Ceiling/Trim	Run Length	Wiring ²
490		L			Q				
490 TruGroove Perimeter	8 Ambient	L LED	A 80CRI/4000K B 80CRI/3500K C 80CRI/3000K	D 4100 lm/4ft E 3000 lm/4ft G 2100 lm/4ft K 1400 lm/4ft	Q Flush Meso Lens	S Standard C Chicago Plenum	N All Ceiling Trims	02 2ft C2 2.5ft 03 3ft C3 3.5ft 04 4ft 05 5ft 06 6ft 08 8ft xx Continuous Run + Odd lengths (please specify)	7 1cct Dimming M 1cct Dimming + EM Wiring N 1cct Dimming + EM Batt. Pack
	9 Graze				P Reverse Parabolic Optic w/ Flush Lens				7 1cct Dimming
Voltage	Driver	Endset (Left)		Endset (Right)		Slot Height	Slot Panel	Ceiling/Trim	
D UNV 120-277V 3 347V	E Advance 0-10V (1% Dim)	C Variable/Wall S Fixed/Pocket	C Variable/Wall S Fixed/Pocket		2 1.75" 4 4"	S Standard Solid	1 T-Grid 3 Drywall Trimless 4 Drywall Trim		
					4 4"	A Air Return	1 T-Grid		

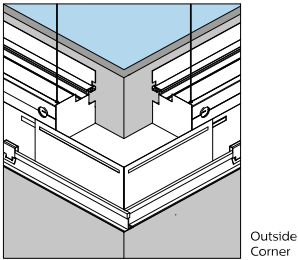
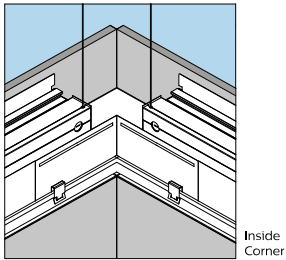
- Nominal values within a range. Consult photometry data for CRI, color temp, lumens & distribution of chosen configuration.
- Not all wiring types are available with all configurations. Consult Ledalite for a complete list of available options.

TruGroove linear perimeter

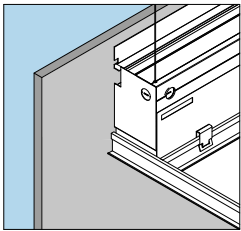
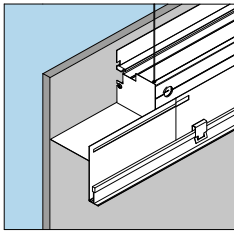
Ambient & Graze

Cross Section View

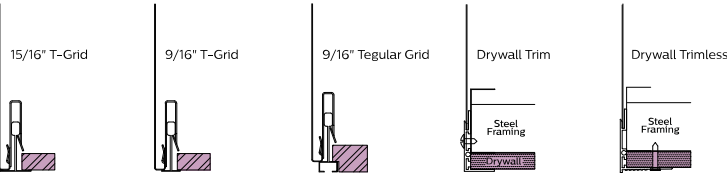
Corners (grid shown)



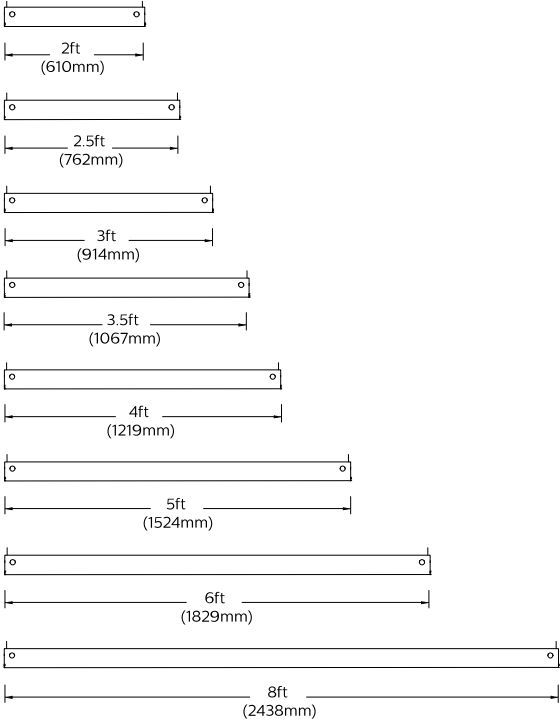
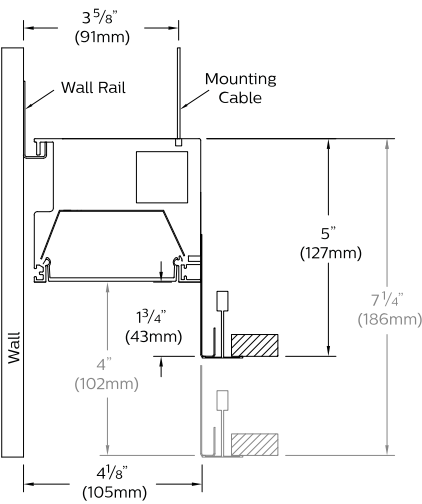
Cross Section View – Endcaps



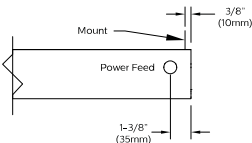
Ceiling Trims



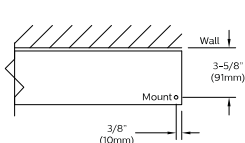
Module Details & Dimensions – Ambient



Side View



Top View

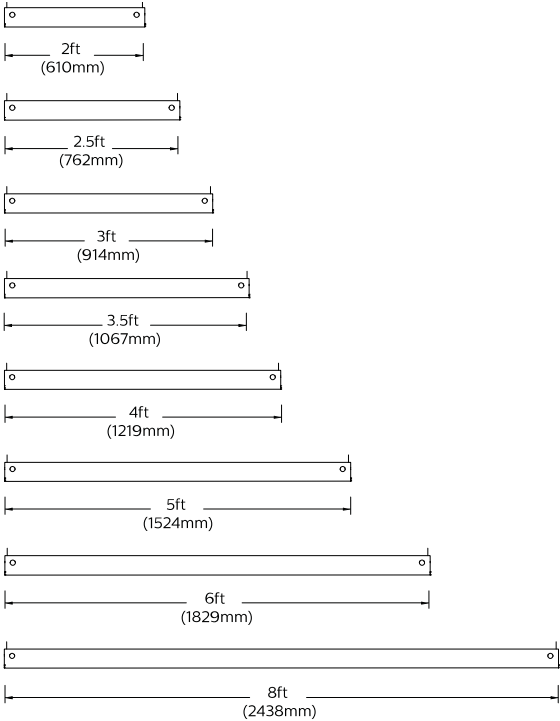
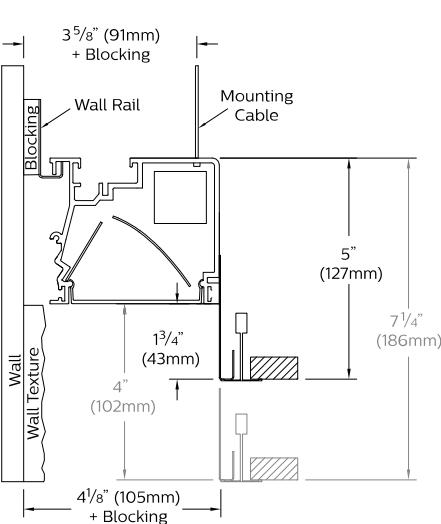


Power feed location available on room side 1-3/8" (35mm) from each joint or end condition.

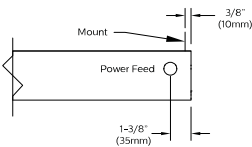
TruGroove linear perimeter

Ambient & Graze

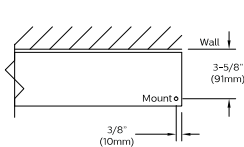
Module Details & Dimensions – Graze



Side View



Top View



Power feed location available on room side 1-3/8" (35mm) from each joint or end condition.

TruGroove linear perimeter

Ambient & Graze

Specifications

Optical System

Ambient: An extruded flush lens assembly with MesoOptics film is used to homogenize and control light from a linear array of downward-facing LEDs. This delivers a uniform, discreet ambient 'glow' along the top of a wall as well as directing fill light into the space. Graze: A highly efficient parabolic reflector mounted in the reverse orientation from the wall focuses light from an angled array of LEDs into a tight linear beam. This creates dramatic grazing shadow effects down the length of a textured wall with textures 1/16" - 1" deep.

Slot & Trim

Lit modules are regressed into a provided slot, 4" deep as standard or 1.75" deep for narrow plenums. The standard slot avoids direct view of the optics when standing 3' or more from a 9' wall. Slot panels are available to integrate with T-grid or drywall ceilings. The drywall edge can be finished with either a supplied visible extruded aluminum trim or a mud-in "trimless" flange.

Ends & Corners

The perimeter slot can be terminated at a chosen position with a flat / pocket end; or at a feature or wall with a variable length / wall end containing a sliding panel to close the plenum. All corners are variable length, with sliding panels and trimmable covers, available in 90° inside or outside versions. Other angles may be handled by request.

Housing

Precision aluminum extrusion, powder coated in white (Ambient) or black (Graze).

Weight

Maximum: Ambient 3.6lb/ft, Graze 3.8lb/ft

Electrical

Factory pre-wired to section ends with quick-wire connectors.

Standard Driver

Advance Xitanium 0-10V, 1-100%. Class 2 rated output. Consult Ledalite for other available drivers.

Standard Battery Pack

Bodine, 90 min, 10W, Class 2 rated output, Emergency lumen output = 10W x luminaire efficacy x 1.1. Typical output: 1100lm. Available in ambient version.

Lumen Maintenance

LEDs have been tested by the manufacturer in accordance with IESNA LM-80-08. At an ambient temperature of 25°C, the LED lumen maintenance expectation according to IES TM-21-11 Reported methodology is: L80 (12k) >72,000 hrs.

Source Color

LEDs rated for color rendering CRI >80, R9 >0 and fixture to fixture color accuracy within 2 SDCM.

Mounting

Modules are supported on the wall side by a hidden extruded aluminum rail. On the ceiling side, support and final height adjustment are provided by an aircraft cable and gripper system attached to a bracket on the ceiling structure. Slot panels for closing the plenum are attached using either clips in the case of T-grid ceiling, or a screw mounted finishing trim for drywall.

Joints

Self-aligning joining system with hands-free pre-joining wire access.

Approvals

Certified to UL, CSA and IES standards.

Warranty

Signify indoor professional luminaires 5 year LED warranty: [signify.com/warranties](https://www.signify.com/warranties).

Environment

Rated for dry or damp locations in operating ambient temperatures 0-40°C (32-104°F). Certain luminaire components may be adversely affected by contaminants. Damage caused by sulfur, chlorine, petroleum based solutions or other contaminants in the area of operation are not covered under warranty. Not suitable for natatorium environments.

TruGroove linear perimeter

Ambient & Graze

Photometrics

Ambient - Flush Meso Lens (4908)

(Click "IES" text to Download)

Lumen Package	Nominal CRI & CCT	Flux (lm)	Watts (W)	Efficacy (LPW)	CRI	R9	RP-1 VDT	Photometry Report	IES File
4100lm/4ft	80CRI, 4000K	4233	39.4	107.4	84	10	N/A	PDF	IES
	80CRI, 3500K	4199	39.7	105.8	82	4	N/A	PDF	IES
	80CRI, 3000K	4007	39.1	102.5	85	15	N/A	PDF	IES
3000 lm/4ft	80CRI, 4000K	3102	27.7	112.0	84	10	Normal spaces	PDF	IES
	80CRI, 3500K	3077	27.9	110.3	82	4	Normal spaces	PDF	IES
	80CRI, 3000K	2937	27.5	106.8	85	15	Normal spaces	PDF	IES
2100 lm/4ft	80CRI, 4000K	2192	19.1	114.8	84	10	Normal spaces	PDF	IES
	80CRI, 3500K	2175	19.3	112.7	82	4	Normal spaces	PDF	IES
	80CRI, 3000K	2076	19.0	109.3	85	15	Critical spaces	PDF	IES
1400 lm/4ft	80CRI, 4000K	1460	13.1	111.5	84	10	Critical spaces	PDF	IES
	80CRI, 3500K	1448	13.2	109.7	82	4	Critical spaces	PDF	IES
	80CRI, 3000K	1382	13.0	106.3	85	15	Critical spaces	PDF	IES

CANDELA DISTRIBUTION						Flux
	0	22.5	45	67.5	90	Lumens
0	1189	1189	1189	1189	1189	
5	1193	1187	1171	1180	1189	112
15	1125	1138	1120	1107	1108	314
25	922	981	995	923	892	432
35	608	683	721	624	589	415
45	413	466	488	423	401	346
55	277	307	315	279	270	264
65	169	189	191	168	167	178
75	80	93	90	77	81	91
85	17	23	19	15	20	23
90	0	0	0	0	0	
95	0	0	0	0	0	0
105	0	0	0	0	0	0
115	0	0	0	0	0	0
125	0	0	0	0	0	0
135	0	0	0	0	0	0
145	0	0	0	0	0	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

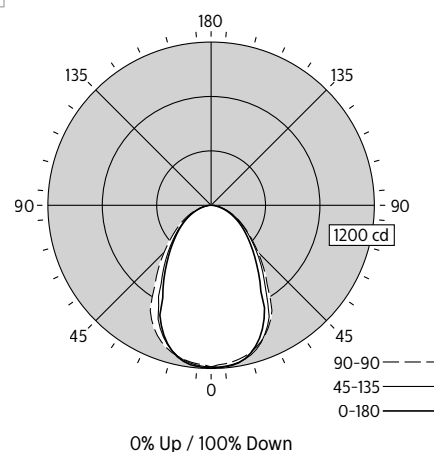
*Photometric data shown is for 2100 lm/4ft, 3500K, 80 CRI configuration.

COEFFICIENTS OF UTILIZATION (%)												
Pc---	80				70				50			
Pw---	70	50	30	10	70	50	30	10	50	30	10	0
RCR												
0	119	119	119	119	116	116	116	111	111	111	100	
1	110	106	103	99	108	104	101	100	97	95	87	
2	102	95	89	84	99	93	87	89	85	81	75	
3	94	85	78	72	92	83	77	80	75	70	66	
4	87	76	69	63	85	75	68	73	66	61	58	
5	81	69	61	55	79	68	61	66	59	54	51	
6	75	63	55	49	73	62	55	61	54	49	46	
7	70	58	50	44	69	57	50	56	49	44	42	
8	66	53	46	40	64	53	45	52	45	40	38	
9	62	50	42	37	61	49	42	48	41	37	35	
10	58	46	39	34	57	46	39	45	38	34	32	

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Fixture	%Lamp
0-30	858	39.5%	39.5%
0-40	1273	58.5%	58.5%
0-60	1883	86.6%	86.6%
0-90	2175	100.0%	100.0%
90-130	0	0.0%	0.0%
90-150	0	0.0%	0.0%
90-180	0	0.0%	0.0%
0-180	2175	100.0%	100.0%

Electrical				
120V: P, I, THD, PF	19.3	0.167	14.4	0.964
277V: P, I, THD, PF	19.2	0.070	8.9	0.995
347V: P, I, THD, PF	N/A	N/A	N/A	N/A

AVG LUMINANCE (cd/m ²)			
	0	45	90
0	12789	12789	12789
5	12883	12643	12844
15	12535	12475	12346
25	10944	11809	10587
35	7989	9474	7736
45	6281	7421	6109
55	5204	5903	5063
65	4302	4864	4245
75	3322	3722	3384
85	2095	2374	2448



TruGroove linear perimeter

Ambient & Graze

Photometrics

Graze - Reverse Parabolic Optic (4909)

(Click "IES" text to Download)

Lumen Package	Nominal CRI & CCT	Flux (lm)	Watts (W)	Efficacy (LPW)	CRI	R9	RP-1 VDT	Photometry Report	IES File
4100lm/4ft	80CRI, 4000K	4157	39.4	105.5	84	10	N/A	PDF	IES
	80CRI, 3500K	4125	39.7	103.9	82	4	N/A	PDF	IES
	80CRI, 3000K	3936	39.1	100.7	85	15	N/A	PDF	IES
3000 lm/4ft	80CRI, 4000K	3047	27.7	110.0	84	10	N/A	PDF	IES
	80CRI, 3500K	3023	27.9	108.4	82	4	N/A	PDF	IES
	80CRI, 3000K	2884	27.5	104.9	85	15	N/A	PDF	IES
2100 lm/4ft	80CRI, 4000K	2154	19.1	112.8	84	10	N/A	PDF	IES
	80CRI, 3500K	2136	19.3	110.7	82	4	N/A	PDF	IES
	80CRI, 3000K	2039	19.0	107.3	85	15	N/A	PDF	IES
1400 lm/4ft	80CRI, 4000K	1433	13.1	109.4	84	10	N/A	PDF	IES
	80CRI, 3500K	1422	13.2	107.7	82	4	N/A	PDF	IES
	80CRI, 3000K	1357	13.0	104.4	85	15	Normal spaces	PDF	IES

CANDELA DISTRIBUTION						Flux
	0	22.5	45	67.5	90	Lumens
0	4643	4643	4643	4643	4643	
5	3359	3921	4612	3927	3282	332
15	467	1147	4305	1048	452	482
25	99	269	3711	283	143	414
35	54	99	2912	131	79	346
45	28	55	1991	74	44	264
55	19	35	1114	44	24	171
65	14	25	458	27	13	87
75	8	14	129	14	6	34
85	2	3	16	3	2	7
90	0	0	0	0	0	
95	0	0	0	0	0	0
105	0	0	0	0	0	0
115	0	0	0	0	0	0
125	0	0	0	0	0	0
135	0	0	0	0	0	0
145	0	0	0	0	0	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

*Photometric data shown is for 2100 lm/4ft, 3500K, 80 CRI configuration.

COEFFICIENTS OF UTILIZATION (%)												
Pc---	80				70				50			
Pw---	70	50	30	10	70	50	30	50	30	10	0	0
RCR												
0	119	119	119	119	116	116	116	111	111	111	100	
1	112	109	106	104	110	107	104	103	101	99	91	
2	106	100	95	91	103	98	94	95	91	88	83	
3	99	92	86	81	97	90	85	88	83	79	75	
4	94	85	79	74	92	84	78	81	76	72	69	
5	88	79	72	67	87	78	72	76	71	66	64	
6	84	74	67	62	82	73	66	71	66	61	59	
7	79	69	62	58	78	68	62	67	61	57	55	
8	75	65	58	54	74	64	58	63	58	54	52	
9	72	61	55	51	71	61	55	60	54	50	49	
10	68	58	52	48	67	58	52	57	51	48	46	

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Fixture	%Lamp
0-30	1228	57.5%	57.5%
0-40	1574	73.7%	73.7%
0-60	2009	94.0%	94.0%
0-90	2136	100.0%	100.0%
90-130	0	0.0%	0.0%
90-150	0	0.0%	0.0%
90-180	0	0.0%	0.0%
0-180	2136	100.0%	100.0%

Electrical				
120V: P, I, THD, PF	19.3	0.167	14.4	0.964
277V: P, I, THD, PF	19.2	0.070	8.9	0.995
347V: P, I, THD, PF	N/A	N/A	N/A	N/A

AVG LUMINANCE (cd/m²)			
	0	45	90
0	48942	48942	48942
5	35540	48796	34724
15	5101	46976	4929
25	1153	43165	1666
35	689	37469	1013
45	422	29680	657
55	347	20479	434
65	353	11424	314
75	321	5256	256
85	190	1904	190

