PHILIPS



Linear

TruGroove recessed micro

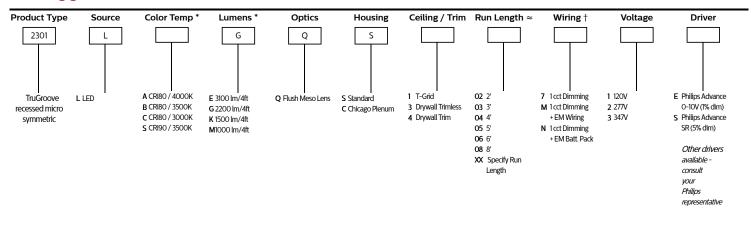
performance symmetric 2200 lm/4ft, 3000/3500/4000K

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Project:	
Spec Type:	
Catalog No: 2301LxGQ	
Qty	
Line Notes:	

TruGroove recessed micro delivers the perfect combination of slender aesthetic and lighting control, creating luminous environments with exceptional uniformity and wide row spacing from a 1.75" aperture continuous line-of light. An extended family and refined design are perfect for lighting any professional space.

Ordering guide



* 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 Philips Ledalite for a complete list of available options.

≈ Available in continuous run lengths from 6ft in steps as small as 1/8in for 1000lm/4ft, 1500lm/4ft & 2200lm/4ft symmetric (performance) configurations.

 \approx All 3100lm/4ft and asymmetric configurations can be specified in 1ft steps. 2ft standalone modules are not available in asymmetric.





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Optical System

White light emitted from the LED sources is redirected by a precisely formed reflector and exits through the optical lens assembly. This assembly contains an acrylic extrusion profile retaining a layer of MesoOptic film, creating both an uninterrupted continuum of light and an optical batwing or asymmetric distribution from a 1.75" flush aperture.

Finish

Extruded aluminum trim and die-cast endplates coated with electrostatically applied and thermally cured polyester. Powder coat paint finish. White sensors only.

Housing

Die-formed 20 gauge cold-rolled steel. Multiple upper wire entrances available for continuous row mounting of fixtures.

Weight

Maximum 2.8lb/ft.

Electrical

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

QuickShip

Upon request, TruGroove recessed micro can be madeto-order and shipped in 10-working days from receipt of order.

Some configurations excluded. Limit of 500' linear feet per order.

QuickShip details are available in the links below:

QuickShip ColorCoded Guide

QuickShip Order Guide

Standard Drivers

Philips Advance Xitanium 0-10V, 1-100%. Philips Advance Xitanium SR, 5-100% (SpaceWise DT). Class 2 rated output. Consult Philips Ledalite for other available drivers.

Standard Battery Pack

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

Lumen Maintenance

LEDs have been tested by the manufacturer in accordance with IESNA LM-80-08. At an ambient temperature of 25°C in non-insulation contact applications the LED lumen maintenance expectation according to IES TM-21-11-A is: CRI>80:

 L_{90} (10k) >60,000 hrs (**Reported** methodology) L_{80} (10k) 128,000 hrs (**Calculated** methodology). **CRI>90**: L_{90} (10k) 59,000 hrs (**Reported** methodology) L_{80} (10k) 118,000 hrs (**Calculated** methodology).

Source Color

LEDs rated for color rendering CRI >80, R9 >0 and fixture to fixture color accuracy within 2 SDCM. Available 90 CRI option is rated for CRI >90, and R9 >60.

Controls

Certain configurations available with: Response Daylight Sensors SpaceWise DT Occupancy & Daylight Sensors w/ advanced grouping & Dwell Time.

*SpaceWise DT commissioning is via a compatible Android phone and Philips Field App. Compatible wireless dimming wall switches are available for dimming. For more information, please refer to www.philips.com/spacewise

Mounting

Mounting brackets on housing sides support T-Grid installation. 1/16" diameter aircraft cable with self-locking, tamper-resistant, miniature cable gripper provides vertical adjustment for drywall. Aircraft cable, crimp and gripper independently tested to meet stringent safety requirements.

Joints

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

Approvals

Certified to UL, CSA and IES standards. Insulation Contact (IC) rated.

Consult factory for DLC eligible configurations

Warranty

Five-year luminaire limited warranty including LED boards and driver.

USA: Warranty Support

Canada: Warranty Support

Environment

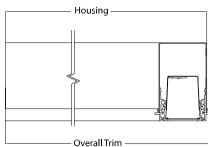
Rated for operation in dry and damp locations in ambient temperatures of 25°C. Many luminaire components, such as reflectors, refractors, lenses, and LEDs are made from materials which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility. Damage caused by sulfur, chlorine, petroleum based solution or other contaminants are not covered under warranty

Due to continuing product improvements, Philips Ledalite reserves the right to change the specifications without notice.

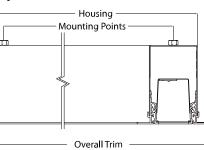
Corner details and dimensions

Flat 90° Lit Corner Units (Side Views)

T-Grid

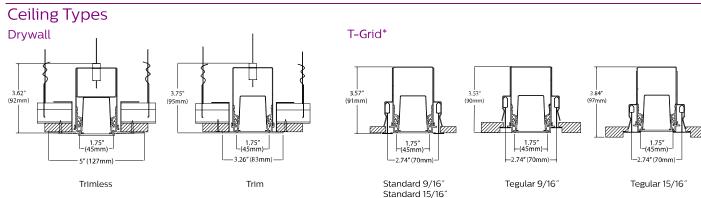


Drywall

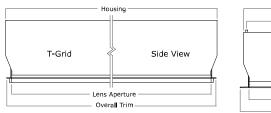


Nominal Length	Housing	Lens	Mounting Points	Trim - T-Grid	Trim - Drywall Trimless	Trim - Drywall Trim
2x2ft Flat	25.1″/637mm	N/A	23.6″/600mm	25.3″/642mm	26.5″/673mm	25.6″/651mm

performance symmetric 2200 lm/4ft, 3000/3500/4000K



Module Details & Dimensions Standalone



23.0~/584mm

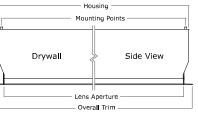
35.0″/889mm

47.0°/1194mm

59.0″/1499mm

71.0"/1803mm

95.0"/2413mm



26.4″/670mm

38.4″/975mm

50.4"/1280mm

62.4″/1585mm

74.4″/1889mm

98.4"/2499mm

24.5°/622mm

36.5″/927mm

48.5"/1232mm

60.5″/1537mm

72.5″/1841mm

96.5"/2451mm

Mid-Run

Mid-Run		
Nominal	Housing & Lens	Mounting Points
2ft	24.0″/610mm	23.2"/589mm
3ft	36.0″/914mm	35.2"/894mm
4ft	48.0"/1219mm	47.2″/1199mm
5ft	60.0″/1524mm	59.2″/1504mm
6ft	72.0″/1829mm	71.2″/1809mm
8ft	96.0″/2438mm	95.2″/2418mm
Incremental	L	L-0.8"/20mm

End-Run

Standalone

2ft

3ft 4ft

5ft

6ft

8ft

23.9"/607mm

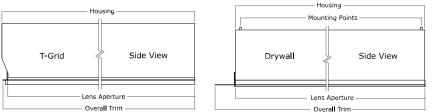
35.9″/912mm

47.9″/1217mm

59.9~/1521mm

71.9~/1826mm

95.9″/2436mm



23.4"/594mm

35.4"/899mm

47.4″/1204mm

59.4″/1509mm

71.4″/1814mm

95.4″/2423mm

23.8″/605mm

35.8″/909mm

47.8°/1214mm

59.8″/1519mm

71.8″/1824mm

95.8"/2433mm

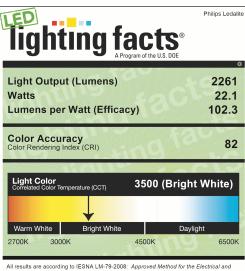
End-Run						
Nominal	Housing	Lens	Mounting Points	Trim -T-Grid	Trim - Drywall Trimless	Trim - Drywa ll Trim
2ft	24.0″/610mm	23.5″/597mm	23.2″/589mm	23.9″/606mm	25.7″/653mm	24.8″/629mm
3ft	36.0″/914mm	35.5″/901mm	35.2″/894mm	35.9″/910mm	37.7″/957mm	36.7″/933mm
4ft	48.0″/1219mm	47.5″/1206mm	47.2″/1199mm	47.9″/1215mm	49.7″/1262mm	48.7"/1238mm
5ft	60.0″/1524mm	59.5″/1511mm	59.2″/1504mm	59.9″/1520mm	61.7″/1567mm	60.7″/1543mm
6ft	72.0″/1829mm	71.5″/1816mm	71.2″/1809mm	71.9″/1825mm	73.7″/1872mm	72.8″/1848mm
8ft	96.0″/2438mm	95.5″/2425mm	95.2″/2418mm	95.8″/2434mm	97.7″/2481mm	96.7″/2457mm
Incremental	L	L-0.5″/13mm	L-0.8″/20mm	L-0.1″/3mm	L+1.7"/43mm	L+0.75"/19mm

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Photometry @ CRI>80, 3500K

180 135 135 90-- 90 <u>1000</u> cd 45 `45 0 ---ΰ 45 90

0% Up / 100% Down



Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: F46Z-5V6DYX (1/23/2018) Model Number: 23x1LBGQxx04 Type: Luminaire - Linear

Candela Distribution

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Vertical Angle	0	Hori 22.5	zontal A 45	Angle 67.5	90	Zonal Lumens
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	65	183	220	257	239	229	229
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		90	99	109	102	98	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	85	19	20	22	22	21	26
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	90	0	0	0	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	95	0	0	0	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	105	0	0	0	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	115	0	0	0	0	0	0
145 0 0 0 0 0 0 0 155 0 0 0 0 0 0 0 165 0 0 0 0 0 0 0 175 0 0 0 0 0 0 0	125	0	0	0	0	0	0
155 0 0 0 0 0 0 165 0 0 0 0 0 0 0 175 0 0 0 0 0 0 0	135	0	0	0	0	0	0
165 0 0 0 0 0 0 175 0 0 0 0 0 0	145	0	0	0	0	0	0
175 0 0 0 0 0 0	155	0	0	0	0	0	0
	165		0	0	0	0	0
180 0 0 0 0 0 0	175	0	0	0	0	0	0
	180	0	0	0	0	0	0

Values per 4ft unit Fixture photometry has been conducted in accordance with IESNA LM-79-08

IES files for this and other photometric options can be downloaded online at www.lightingproducts.philips.com

Coefficients of Utilization (%)

DCD	Ceiling:		8	0			70			50		0
RCR	Wall:	70	50	30	10	70	50	30	50	30	10	0
0		119	119	119	119	116	116	116	111	111	111	100
1		110	105	101	98	107	103	99	99	96	93	85
2		100	92	86	80	98	90	84	87	82	78	72
3		92	81	74	67	89	80	73	77	71	66	61
4		84	72	64	57	82	71	63	69	62	56	53
5		77	65	56	49	75	64	55	61	54	49	46
6		71	58	49	43	69	57	49	56	48	43	40
7		66	53	44	38	64	52	44	50	43	38	35
8		61	48	40	34	60	47	39	46	39	34	31
9		57	44	36	30	56	43	36	42	35	30	28
10		54	41	33	28	52	40	33	39	32	27	25

Avg. Luminance (cd/m2)

Vertical	ŀ	Horizontal Ang	gle
Angle	0	45	90
55	8422	14715	12917
65	7786	10926	9724
75	6235	7541	6821
85	3998	4455	4396

Distribution

Hemisphere	0% Up / 100% Down
Glare Control	Meets RP-1-12 recommendations for VDT-Normal spaces
Spacing Along (0°)	1.12
Spacing Across (90°)	1.68

performance symmetric 2200 lm/4ft, 3000/3500/4000K

Optical Performance @ 120V

Nominal Spec:	830	835	840	935
Flux (lm)	2181	2261	2277	2213
Efficacy (lm/W)	98.2	102.3	104.0	86.4
Power (W)	22.2	22.1	21.9	25.6
CCT (K)	3071	3490	4027	3523
CRI	84	82	84	94
R9	16	11	16	71
x	0.4308	0.4061	0.3798	0.4035
У	0.3998	0.3917	0.3782	0.3887
Duv	0.0009	0.0002	0.0009	0.0005

Electrical Performance @ CRI>80, 3500K

Input Voltage	120V	277V	347V		
Input Power	22.1W	22.4W	22.2W		
Input Current	0.19A	0.09A	0.07A		
Power Factor	0.989	0.932	0.933		
Total Harm. Distortion 12.1% 17.0% 12.8%					
Tested values – contact technical support for rated values. Off-state power zero unless certain controls are specified.					

With SpaceWise DT, standby power <0.5W (120V) or <0.8W (277V).

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