

Transforming light into an element of design

DIRECT PERFORMANCE, FLUSH MESOOPTICS LENS
CRI >80 3500K, 2000 lm/4ft

Project:

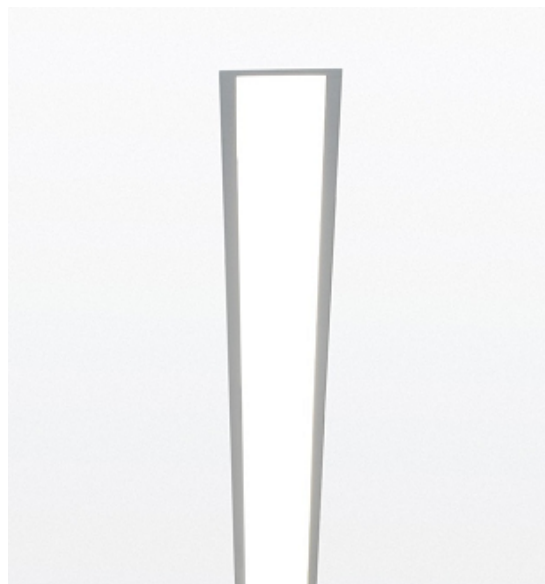
Spec Type:

Catalog No: 39C1PBGQ

Qty

Line Notes:

TRUGROOVE CONTINUOUS PERFORMANCE LED PoE



Ordering guide

Product Type	Source	Color Temp *	Lumens *	Optics	Housing	Ceiling / Trim	Run Length	Wiring	Voltage	Driver
39C1	P	B	G	Q	S					
TruGroove Continuous Performance LED PoE	P LED PoE	A 4000K B 3500K C 3000K	G 2000 lm/4ft	Q Flush Meso Lens	S Standard	1 T-Grid	XX Total run length (4' increments)	7 1 cct w/ Dimming	N Not applicable (Class 2)	E Standard

* Nominal values within a range. Consult ies file for exact color temp, lumens and up/down distribution

Mounting Hardware

<input type="checkbox"/> Recessed	Mount Type Consult separate mounting spec sheet for mount type options
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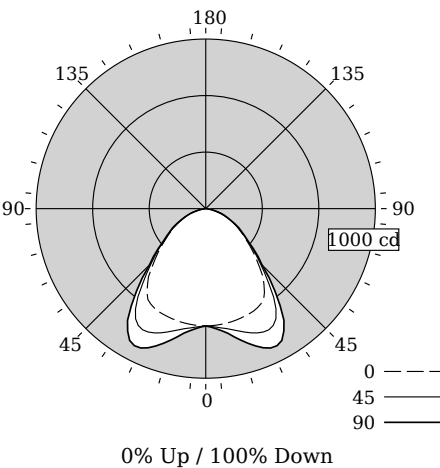
Integrated Controls Please indicate with check mark.

☐ Philips Actilume Daylight and Occupancy Sensor (DO) (only in end of run)



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Photometry



Total Output	1955 lm
Efficacy	85.7 lm/W
CCT	3479K
CRI	83
R9	10
Distribution	0% Up / 100% Down
Spacing Criteria (0/90/180°)	1.36/1.56/NA
Meets RP-1-04 recommendations for VDT-Intensive spaces	

Values per 4ft unit

Fixture photometry has been conducted in accordance with IESNA LM-79-08

Lumen maintenance of the LEDs has been tested by the manufacturer in accordance with IESNA LM-80-08

Candela Distribution

Vertical Angle	Horizontal Angle					Zonal Lumens
	0	22.5	45	67.5	90	
0	692	692	692	692	692	0
5	690	693	701	703	711	67
15	681	701	747	779	803	211
25	667	713	803	874	907	365
35	604	654	722	792	804	442
45	423	442	453	496	469	359
55	268	279	275	288	280	252
65	162	169	163	170	161	165
75	75	77	70	74	68	79
85	10	12	10	12	9	14
90	0	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	0

Coefficients of Utilization (%)

RCR	Ceiling Wall:	80				70				50			
		70	50	30	10	70	50	30	10	50	30	10	10
0		119	119	119	119	116	116	116	111	111	111	111	111
1		110	106	102	99	108	104	100	100	97	94	94	94
2		101	94	88	83	99	92	87	89	84	80	80	80
3		93	84	76	70	91	82	75	79	73	69	69	69
4		86	75	67	61	84	74	66	71	65	59	59	59
5		79	67	59	53	77	66	58	64	57	52	52	52
6		74	61	53	47	72	60	52	58	51	46	46	46
7		68	56	47	41	67	55	47	53	46	41	41	41
8		64	51	43	37	62	50	42	49	42	37	37	37
9		60	47	39	34	58	46	39	45	38	33	33	33
10		56	43	36	30	55	43	35	42	35	30	30	30

Avg. Luminance (cd/m2)

Vertical Angle	Horizontal Angle		
	0	45	90
55	5352	5489	5589
65	4371	4398	4362
75	3323	3107	3000
85	1260	1352	1234

Electrical Specifications

Input Voltage	PoE (51-54VDC)
Input Power	22.8W
Tested values – contact technical support for rated values. Standby power <0.9W for 4ft <1.8W for 8ft and <2.7W for 6ft	

Modules & Runs

TruGroove Continuous LED nominal housing lengths
4ft, 8ft and continuous runs in 4' increments

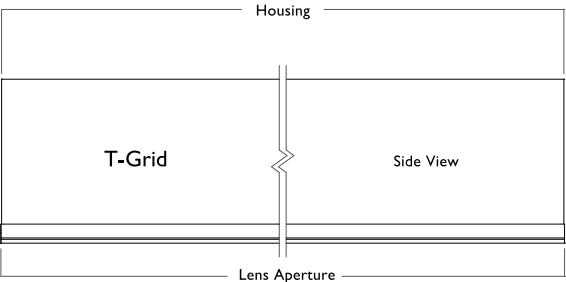
To simplify installation, there are both end-run units with one closed end and mid-run, open units.
Refer to module size details below for actual dimensions. T-grid units fit within a standard 2' grid. To specify
corners and patterns, refer to TruGroove Corners data sheets.

Continuous Run Example



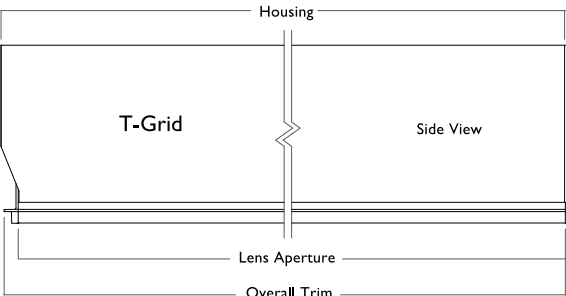
Module Dimensions

Continuous mid-run units



Nominal length	Housing & aperture
4ft	48.0"/1219 mm
8ft	96.0"/2438 mm

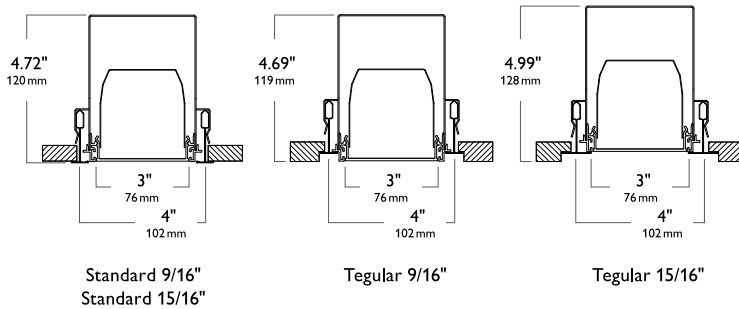
Continuous end-run units



Nominal length	Housing	Lens aperture	Trim – T-Grid
4ft	48.0"/1219 mm	47.5"/1207 mm	47.9"/1216 mm
8ft	96.0"/2438 mm	95.5"/2426 mm	95.9"/2435 mm

Options and Details

T-grid*



* Compatible with TechZone™ 4" Ceiling Grid

Trim Views

Flush lens



T-grid

Housing

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

Weight

Maximum 3.5lb/ft.

Optical System

Performance version: White light emitted from the LED sources is internally reflected and laterally redirected by a biconvex lens. Light is then reflected by Miro Silver panels and exits through the optical lens assembly. This assembly contains acrylic extrusion profiles to retain a layer of MesoOptics film, creating both an uninterrupted continuum of light and an optical batwing distribution.

Definition version: Light passes through a diffuse white acrylic lens to deliver a highly uniform luminous continuum.

Driver

Philips PoE Lighting Controller.

Lumen Maintenance

At an ambient temperature of 25°C in non-insulated contact applications, the LED lumen maintenance expectation for each lumen package is:

G: L₉₀ (12k) 68,000 hrs

Mounting

Mounting brackets on housing sides support T-Grid installation.

Joints

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

Electrical

Wire Access Cover provides RJ45 connection point for PoE network.

Approvals

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

Finish

Extruded aluminum trim and die-cast endplates coated with electrostatically applied and thermally cured polyester powder coat paint finish.

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 are not covered under warranty.

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



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TruGrvContPerfmP_35K20lm_Q.pdf 07.15 page 4 of 4

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