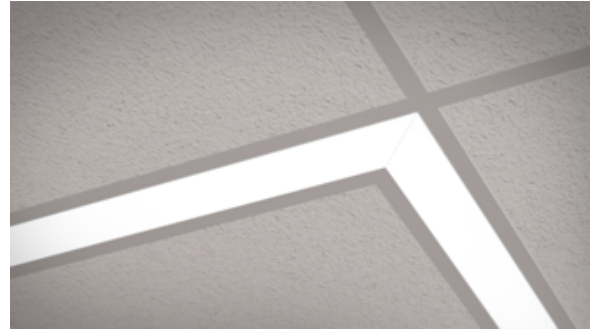


# Transforming light into an element of design

## TRUGROOVE FLAT CORNER PERFORMANCE LED PoE



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

**Project:**

**Spec Type:**

**Catalog No:** 39A1PBGQ

**Qty**

**Line Notes:**

### Ordering guide

Product Type	Source	Color Temp *	Lumens *	Optics	Housing	Ceiling / Trim	Run Length	Wiring	Voltage	Driver
39A1	P	B	G	Q	S					
TruGroove Flat Corner 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	22 2x2	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

Recessed	Mount Type Consult separate mounting spec sheet for mount type options
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**Integrated Controls** Please indicate with check mark.

No Options Available

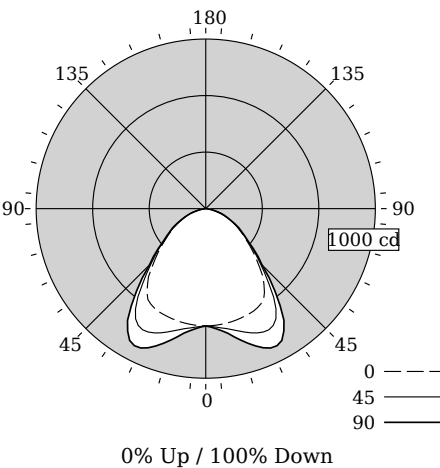


# TRUGROOVE FLAT CORNER

## PERFORMANCE LED PoE

DIRECT PERFORMANCE, FLUSH MESOOPTICS LENS

### 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 straight 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

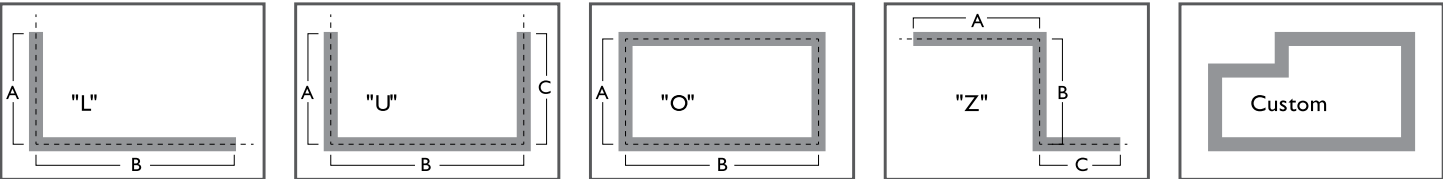
TruGroove LED Corners nominal sizes

2ft x 2ft 90° flat lit corner unit  
Inside 90° joiner bracket

*Note: In closed pattern applications, sensor is located remote from pattern.  
In open pattern applications, sensor is located at one end of the pattern.*

Refer to module size details below for actual dimensions. T-grid corner units are 2' on-center, so extend past the T-bar when combined with standard 4' & 8' modules.  
Please provide pattern drawings or sketches with dimensions based on lens centerlines.  
To specify continuous straight runs, refer to TruGroove Continuous data sheets.

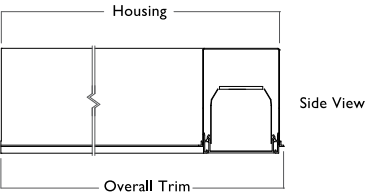
Flat Patterns – with flat corners; 2'x2' corners and straight sections in 4' increments only.



Module Dimensions

Flat 90° Lit Corner Units

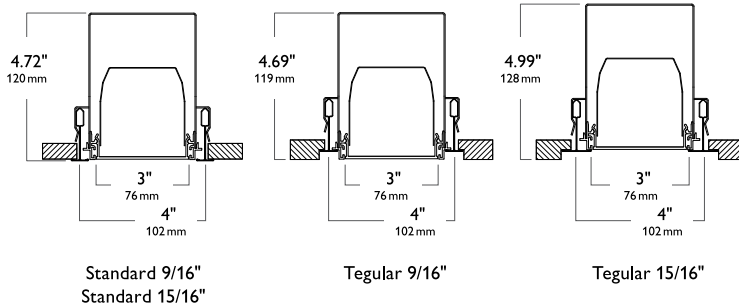
T-Grid



Nominal length	Housing	Lens aperture	Trim – T-Grid
2 x 2ft Flat	25.7"/653 mm	N / A	25.9"/658 mm

## Options and Details

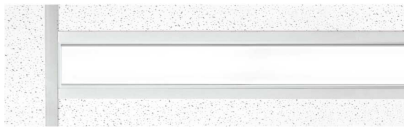
### T-grid\*



\* 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: L<sub>90</sub> (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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Philips Lighting  
North America Corporation  
200 Franklin Square Drive  
Somerset, NJ 08873  
Phone: 855-486-2216