Transforming light into an element of design

DIRECT PERFORMANCE, FLUSH MESOOPTICS LENS
1500 lm/4ft, Flush Meso
3500K

Project:	
Spec Type:	
Catalog No:	39K1LBKQ
Qty	
Line Notes:	

mesoOptics

Ordering guide

Product Type	Source	Color Temp *	Lumens *	Optics	Housing	Ceiling / Trim	Run Length	Wiring †	Voltage	Driver
39K1	L	B	K	Q	S					

Product Type	Source	Color Temp *	Lumens *	Optics	Housing	Ceiling / Trim	Run Length	Wiring †	Voltage	Driver
TruGroove Performance LED	L LED	A 4000K B 3500K C 3000K	E 3000 lm/4ft G 2200 lm/4ft K 1500 lm/4ft	Q Flush Meso Lens R Regressed Meso Lens	S Standard C Chicago Plenum	1 T-Grid 3 Drywall Trimless 4 Drywall Trim 5 Armstrong Formations	02 2' 22 2'x2' 04 4' 06 6' 08 8' 06 6' 08 8' 10 10' (6' + 4' unit)	7 1 cct Dimming M 1 cct Dimming + EM Wiring N 1 cct Dimming + EM Batt. Pack 1 1 cct 3 1 cct + EM/NL Wiring 5 1 cct + EM Batt. Pack B 2 cct A/B	1 120V 2 277V 3 347V	E Philips Advance 0-10V *Other drivers available - consult your Philips representative*

* Nominal values within a range. Consult photometry data for exact color temp, lumens & distribution.
† Not all wiring types are available with all configurations. Consult Philips Ledalite for a complete list of available options.
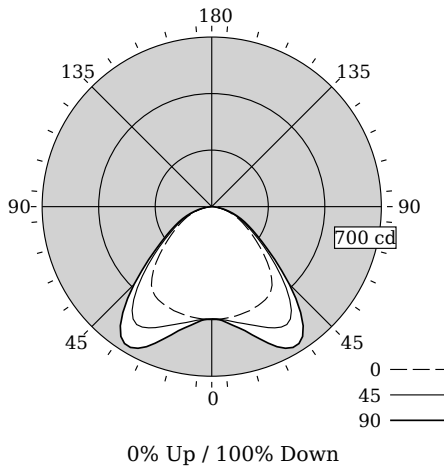
Mounting Hardware

	Mount Type
	Consult separate mounting spec sheet for mount type options

DIRECT PERFORMANCE, FLUSH MESOOPTICS LENS

Photometry

180
135   135
90   90
700 cd
45   45
0 - - - -
45 ———
90 ———

0% Up / 100% Down

Total Output	1522 lm
Efficacy	81.8 lm/W
CCT	3479K
CRI	83
Distribution	0% Up / 100% Down
Spacing Criteria (0/90/180°)	1.41/1.75/NA
Meets RP-1-12 recommendations for VDT-Critical spaces	

Values per straight 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

Candela Distribution

Vertical Angle	Horizontal Angle 0	22.5	45	67.5	90	Zonal Lumens
0	464	464	464	464	464	0
5	465	462	468	472	471	45
15	460	468	499	522	530	142
25	451	481	551	615	638	253
35	425	469	566	633	654	340
45	324	348	405	443	453	305
55	205	222	236	249	254	212
65	125	133	138	146	150	138
75	61	63	67	72	72	71
85	11	11	13	14	14	16
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: 80 Wall: 70	50	30	10	70 70	50	30	50 50	30	10	0 0
0	119	119	119	119	116	116	116	111	111	111	100
1	110	105	102	98	107	103	100	99	96	93	86
2	101	93	87	81	98	91	85	88	83	78	73
3	92	82	75	68	90	81	74	78	72	67	62
4	85	73	65	58	82	72	64	69	63	57	54
5	78	66	57	51	76	65	56	62	55	50	47
6	72	59	51	44	70	58	50	56	49	44	41
7	67	54	45	39	65	53	45	51	44	39	36
8	62	49	41	35	61	48	40	47	40	35	32
9	58	45	37	31	57	44	37	43	36	31	29
10	54	41	33	28	53	41	33	40	33	28	26

Avg. Luminance (cd/m2)

Vertical Angle	Horizontal Angle 0	45	90
55	3928	4521	4866
65	3250	3588	3900
75	2590	2845	3057
85	1387	1639	1765

Electrical Specifications

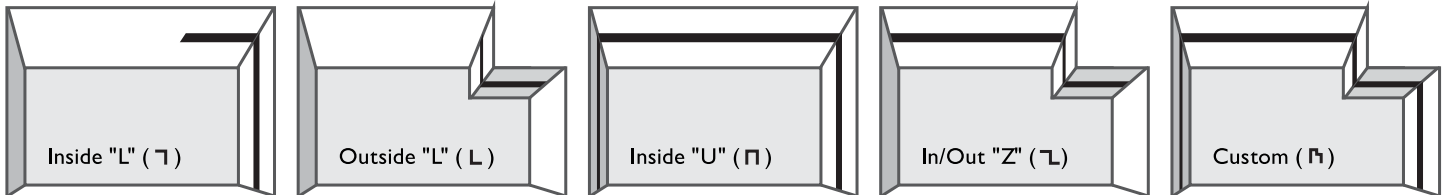| Input Voltage	120V	277V
Input Power	18.6W	19.0W
Input Current	0.16A	0.09A
Power Factor	0.971	0.787
Total Harm. Distortion	20.3%	18.5%
Tested values – contact technical support for rated values. Off-state power zero unless certain controls are specified.		

Modules & Runs

TruGroove LED Corners nominal sizes

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

Outside corners can be installed either wall-to-wall or wall-to-ceiling.

Refer to module size details below for actual dimensions. Outside corner units are only available in drywall trimless mount. Inside corners are built from two straight runs and a corner joiner kit.
Please provide pattern drawings or sketches with dimensions.
To specify continuous straight runs, refer to TruGroove Continuous data sheets.
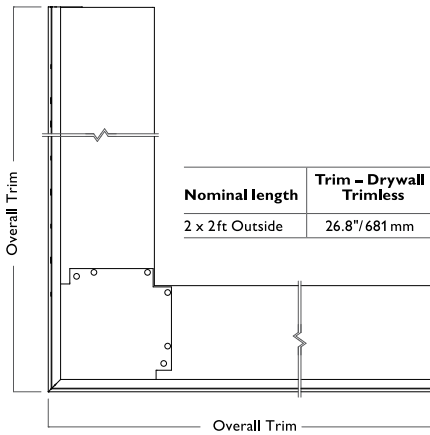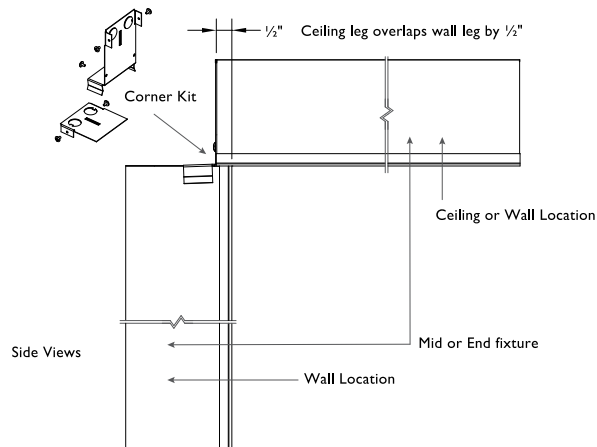
3D Patterns – with Inside or Outside Corners

Inside "L" (˥) · Outside "L" (∟) · Inside "U" (⊓) · In/Out "Z" (⅂) · Custom (⊓)

Module Dimensions

Corners

Outside 90° Lit Corner Unit

Overall Trim

Nominal length	Trim – Drywall Trimless
2 x 2ft Outside	26.8"/ 681 mm

Overall Trim

Inside 90° Corner Kit

½"   Ceiling leg overlaps wall leg by ½"

Corner Kit

Ceiling or Wall Location

Side Views

Mid or End fixture

Wall Location

Options and Details

Drywall

4.88"
124 mm

3"
76 mm

6.24"
158 mm
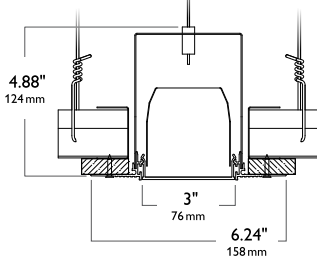
Trimless

Trim Views

Flush lens

Drywall Trimless

Drywall Trim

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.

Standard Driver

Dimming: 0-10V, 5-100%. Output is Class 2 rated.

Lumen Maintenance

At an ambient temperature of 25°C in non-insulated contact applications, the LED lumen maintenance expectation for each lumen package is:
K: L_{80} (12k) 71,000 hrs
G: L_{80} (12k) 68,000 hrs
E: L_{80} (12k) 54,000 hrs

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.

Electrical

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

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.