PHILIPS LEDALITE

Recessed

Vectra

1'x4', 3600 lm
3000/3500/4000K

LED

Project:

Spec Type:

Catalog No: 9714DxxxLx36

Qty

Line Notes:

Vectra combines distinctive styling with Ledalite's revolutionary MesoOptics technology to bring the best of nature's luminous aesthetics to indoor environments.

Ordering guide

Product Type	Version	Configuration	Light Source *	CRI/CCT	Lumens *	Housing	Wiring †	Voltage	Driver
9714			L		36				
Vectra 1'x4'	**D1** Standard T Grid **D2** Slot T Grid	**ST** Standalone **CR** Continuous Row	**L** LED	**A** 4000K **B** 3500K **C** 3000K	**36** 3600 lumens **44** 4400 lumens	**S** Standard **C** Chicago Plenum	**7** 1 cct Dimming **N** 1 cct Dimming + EM Batt. Pack **T** 1 cct Step Dimming	**1** 120V **2** 277V **3** 347V	**E** Philips Advance 0-10V (1% dim)

* 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.

Upgrades & Accessories Please indicate with check mark.

☐ Flex Whip (6' length)

☐ Drywall Kit

Integrated Controls Please indicate with check mark.

☐ Response Daylight Single Zone (DS)

mesoOptics RESPONSE

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Optical System

The optical frame assembly consists of an acrylic panel with a layer of protected MesoOptics film which efficiently provides a luminous, controlled, low glare 3-dimensional batwing distribution. The optical frame ends are constructed from die-formed cold-rolled steel assembled together with extruded aluminum profiles in a sturdy frame. The frame is hinged to allow easy access to the inside of the fixture. Maintenance can be performed from below the ceiling.

Housing

Die-formed, post-painted, 22 gauge cold-rolled steel housing. Multiple wire entrances are available (top or side) to allow continuous row mounting of fixtures. Optional frame restraint is available to provide additional safety support.

Mounting

Compatible with lay-in acoustical ceilings using an exposed 9/16", 15/16" or slot T-grid suspension system (NEMA types G, NFG & NFGS). Integral mounting tabs are provided which handle different T-grid heights.

Finish

Housing and Frame: Post-painted, high quality powder coat. Available in white only.

Weight

Maximum 25lb .

Electrical

LED boards are easily field replaceable. Fixtures are factory pre-wired and tested for all circuits. Driver access from below the ceiling. Optional armored cable flex whips are supplied in 6' lengths.

Standard Driver

Philips Advance Xitanium 0-10V, 1-100%. 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: 900lm.

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 L_{70} (12k) >52,000 hrs.

Source Color

LEDs rated for standard color rendering CRI >80, R9 >0 and fixture to fixture color accuracy within 3 SDCM.

Controls

Available with integrated Response Daylight sensor, which dims the luminaire when daylight is present. Contact Philips Ledalite for additional functionality.

Approvals

Certified to UL, IES & CSA Standards. City of Chicago Approved CCEA (housing option C). Type IC Rated.

Warranty

Five-year luminaire limited warranty including LED boards and driver. www.philips.com/warranties.
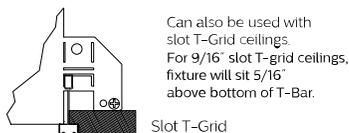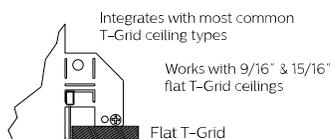
Environment

Rated for dry or damp locations in operating ambient temperatures of 0-25°C (32-77°F). Many luminaire components, such as reflectors, refractors, lenses, sockets, lamp holders, and LEDs are made from various types of plastics 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. Not suitable for natatorium environments.

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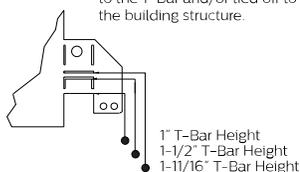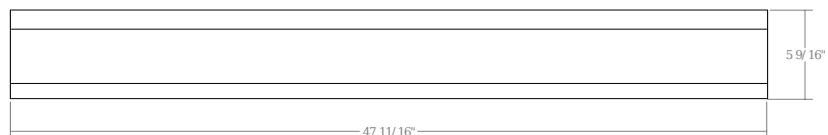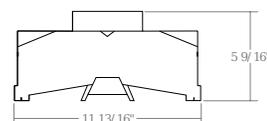
Options and Details

Mounting

Integrates with most common T-Grid ceiling types

Works with 9/16" & 15/16" flat T-Grid ceilings

Flat T-Grid

Can also be used with slot T-Grid ceilings. For 9/16" slot T-grid ceilings, fixture will sit 5/16" above bottom of T-Bar.

Slot T-Grid

Ceiling types

Integrated mounting tabs can be field-adjusted to various T-Grid ceiling heights for fastening directly to the T-Bar and/or tied off to the building structure.
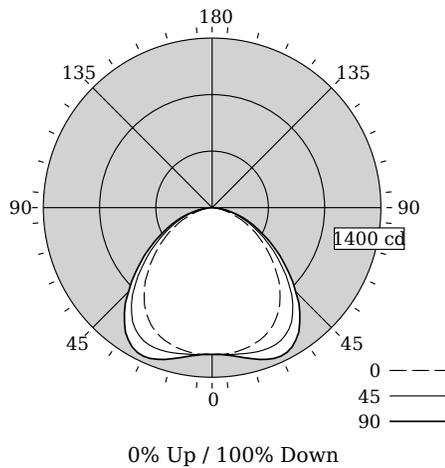
1" T-Bar Height
1-1/2" T-Bar Height
1-11/16" T-Bar Height

Cross Section

5 9/16"
11 13/16"

5 9/16"
47 11/16"

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Photometry @ CRI>80, 3500K

180

135   135

90-   -90

1400 cd

45   45

0 -- -- --
45 ———
90 ———

0% Up / 100% Down

Candela Distribution

Vertical Angle	Horizontal Angle 0	22.5	45	67.5	90	Zonal Lumens
0	1212	1212	1212	1212	1212	0
5	1214	1215	1217	1216	1220	116
15	1189	1204	1241	1274	1291	352
25	1120	1162	1247	1320	1352	571
35	978	1042	1150	1226	1254	705
45	753	810	903	965	980	685
55	523	559	622	673	684	550
65	312	335	379	412	418	372
75	136	165	196	213	208	197
85	26	43	48	49	46	52
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

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 (%)

RCR	Ceiling: 80				70			50			0
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	109	105	101	97	107	103	99	98	95	93	85
2	100	92	85	80	97	90	84	87	82	77	72
3	91	81	73	67	89	80	72	77	70	65	61
4	84	72	64	57	81	71	63	68	61	56	52
5	77	65	56	49	75	63	55	61	54	49	45
6	71	58	49	43	69	57	49	55	48	43	40
7	66	53	44	38	64	52	44	50	43	38	35
8	62	48	40	34	60	47	39	46	39	34	31
9	57	44	36	31	56	44	36	42	35	30	28
10	54	41	33	28	53	40	33	39	32	28	26

Avg. Luminance (cd/m2)

Vertical Angle	Horizontal Angle 0	45	90
55	3142	3736	4109
65	2544	3090	3408
75	1810	2609	2769
85	1028	1897	1818

Distribution Summary

Hemisphere	0% Up / 100% Down
Spacing Along (0°)	1.29
Spacing Across (90°)	1.52

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Optical Performance

Flux (lm)	3623	3600	3494
Efficacy (lm/W)	83.7	83.7	81.8
Power (W)	43.3	43.0	42.7
CCT (K)	4012	3472	3073
CRI	83	83	83
R9	24	22	21
x	0.3825	0.4109	0.4358
y	0.3860	0.4023	0.4107
Duv	0.0040	0.0040	0.0030

Electrical Performance @ CRI>80, 3500K

Input Voltage	120V	347V
Input Power	43.0W	37.8W
Input Current	0.36A	0.11A
Power Factor	0.990	0.970
Total Harm. Distortion		9.0%
Tested values – contact technical support for rated values. Off-state power zero unless certain controls are specified.		

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