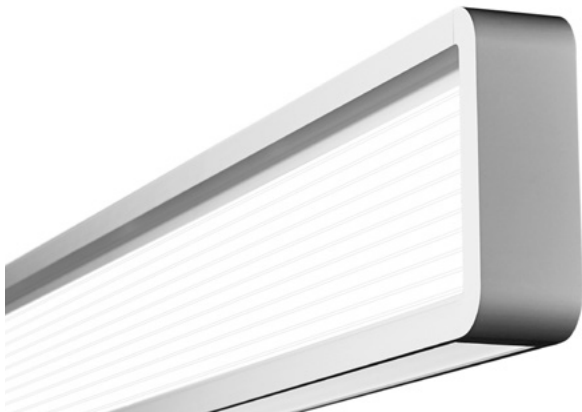




VIEW 20 Up | 80 Dn VU1-B

Specification Data



Luminaire	VIEW - 20 UP   80 DN LED (VU1-B)	Type
Project		
Product		
Notes		



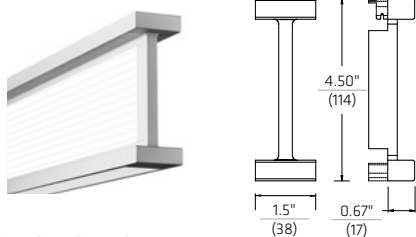
Performance Summary	20 Up   80 Down			
	A	B	C	D
Light (lm)	1900	2300	2850	3600
Energy (W)	19	23	29	38
Efficacy (lm/W)	103	101	99	95
Color Rendering (CRI)	80+	80+	80+	80+
Color Accuracy (SDCM)	< 2	< 2	< 2	< 2
L70 Estimate (h)	200,000	200,000	200,000	200,000
Lumen Maintenance per TM21 (@ 60,000 h)	L90	L90	L90	L90

Summary values are nominal and based on 4000K CCT

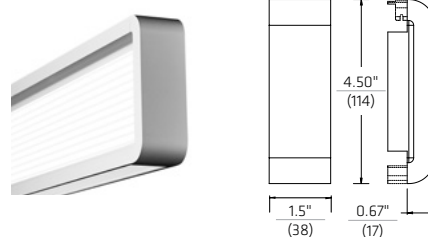
ENDCAPS + DIMENSIONS

inches (mm)

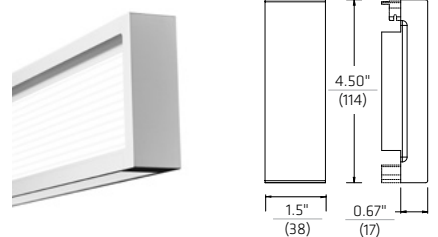
(B) BEAM



(R) RADIUS



(S) SQUARE



SPECIFICATION

VU1	B							OPTIONS							
1	2	3	4	5	6	7	8	9	10	11	OPTIONS				
1. FAMILY	2. ENDCAP	3. OPTICAL DISTRIBUTION			4. ENERGY <sup>1</sup>			5. CCT		6. FINISH <sup>2</sup>					
<b>VU1</b> View	<b>B</b> Beam <b>R</b> Radius <b>S</b> Square	General Area Lighting			<b>B 20 Up   80 Dn</b> <b>A 70 Up   30 Dn</b>			<b>A</b> 19 W <b>B</b> 23 W <b>C</b> 29 W <b>D</b> 38 W		<b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K			<b>A</b> Clear Anodized <b>B</b> Black Powdercoat <b>S</b> Metallic Silver Powdercoat <b>W</b> White Powdercoat <b>C</b> Custom Colour (RAL)		
7. LENGTH	8. CEILING INTEGRATION		9. DRIVER		10. VOLTAGE		11. SUSPENSION		OPTIONS						
<b>04</b> 4 ft <b>06</b> 6 ft <b>08</b> 8 ft <b>xx</b> x ft <sup>3</sup>	Integrated driver with mounting, power feed, suspension + canopy		<b>D</b> Drywall <b>G</b> Grid <b>S</b> Structure <b>R</b> Remote		<b>E1</b> eldoLED ECO 0-10V Dim 1% <b>E2</b> eldoLED SOLO 0-10V Dim 0.1% <b>E3</b> eldoLED ECO DALI 1% <b>E4</b> eldoLED SOLO DALI Dim 0.1% <b>F1</b> Factory Non-Dim <b>F2</b> Factory 0-10V Dim 3% <b>F3</b> Factory 0-10V Dim 3% (Class 2 control wiring) <sup>4</sup> <b>L1</b> Lutron Hi-Lume 1%-H EcoSystem		<b>M</b> 120 - 277 V <b>3</b> 347 V <sup>5</sup>		<b>03</b> ≤ 3 ft <b>06</b> ≤ 6 ft <b>12</b> ≤ 12 ft <b>25</b> ≤ 25 ft		<b>A</b> Alternate Wiring - AV Presentation Switching - EM/NL or 2 circuit modules <b>B</b> Battery Pack <sup>6</sup> <b>C</b> Chicago Plenum				

NOTES					
<sup>1</sup> Nominal values / 4 ft at 120 - 277 V & 347 V. For 347 V with E1-4/L1 add 4 W to above.	<sup>2</sup> Fixture finish only. Canopies are standard white.	<sup>3</sup> Specify run length in 2' nominal increments.	<sup>4</sup> In 347V only.	<sup>5</sup> 347 V Driver for F1/F3 347 V Transformer & Driver for E1-4/L1.	<sup>6</sup> Available for (G) Grid, (R) Remote and (S) Structure Available for 120 - 277V.

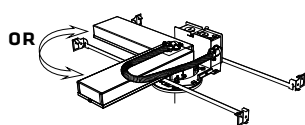
### Integrated Driver, Mounting, Power Feeds + Suspension

Refer to separate product specification datasheets for detailed dimensions of mounting hardware components, driver enclosures, canopies and wiring

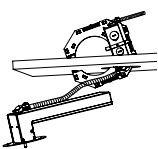
#### (D) DRYWALL

New or Retrofit

Integrated driver, power feed and mounting suspension points suitable for GWB or plaster thicknesses of < 0.875" (22 mm)



Perpendicular or Parallel



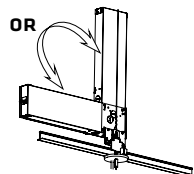
Retrofit Method

- ✓ 120-277V
- ✓ 347V
- ✗ Battery Pack
- ✓ 0-10V Dim
- ✓ Lutron
- ✓ eldoLED

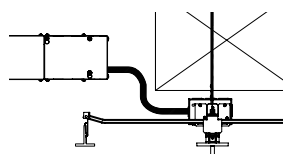
#### (G) GRID

ON or OFF Grid

Integrated clip, driver, power feed and mounting suspension points suitable for accessible ceiling grid heights of < 1.75" (44mm)



Horizontal or Vertical



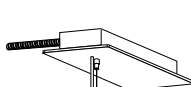
Detached Method

- ✓ 120-277V
- ✓ 347V
- ✓ Battery Pack
- ✓ 0-10V Dim
- ✓ Lutron
- ✓ eldoLED

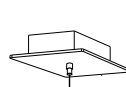
#### (S) STRUCTURE

Exposed Ceilings

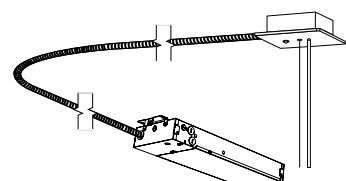
Integrated driver with mounting, power feed, suspension + canopy suitable for exposed surface conduit or recessed junction boxes



Power Feed Canopy



Suspension Canopy

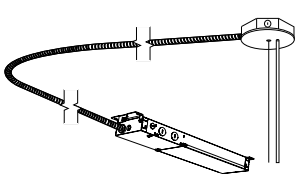


Battery Pack Option

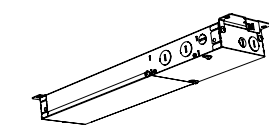
- ✓ 120-277V
- ✓ 347V
- ✓ Battery Pack
- ✓ 0-10V Dim
- ✓ Lutron
- ✓ eldoLED

#### (R) REMOTE

External remote mounted driver. Power feed and suspension points suitable for exposed conduit or recessed junction boxes



Power Feed



Multivolt 120 - 277 V driver

- ✓ 120-277V
- ✓ 347V
- ✓ Battery Pack
- ✓ 0-10V Dim
- ✓ Lutron
- ✓ eldoLED

Recommended Wire Gauge for Minimal Losses (AWG)

30ft. | 18 ga.      50ft. | 14 ga.      80ft. | 12 ga.

#### CONSTRUCTION

- Anodized, extruded + machined architectural grade aluminum
- Precision machined aluminum joints and endcaps are factory preinstalled for seamless fit
- Stainless steel fasteners
- 0.04" (1.0 mm) stainless steel aircraft cable suspensions
- Clear anodized surface finish or powdercoated in white, metallic silver or black. Canopies in white as standard

#### OPTICAL

- Anidolic optical structures with linear light extraction elements
- Precision molded high transmittance clear acrylic lenses
- Long life mid-flux LED system designed for typical TM21 lumen maintenance  $\geq$  L90 @ 60,000 h
- Available in 3000 K, 3500 K or 4000 K with CRI  $\geq$  80 and R9  $\geq$  0, all with color accurate binning  $\leq$  2 SDCM

#### ELECTRICAL

- No electrical connections are required at fixture level for installation; shipped with LV power cords factory preinstalled
- Agnostic driver design for simple integration with any sensor, lighting control or building energy management system
- High efficiency multivolt drivers for 120-277V or 347V; 50 - 60 Hz integrated with suspension and mounting canopy components
- Power Factor > 0.90
- Total Harmonic Distortion < 20%
- F2:0 - 10 V Dim Range: 3%
- Optional BatteryPack
- Optional Lutron: Hi-lume H-Series EcoSystem LED drivers for 100 - 1% (PWM)dim range

#### WEIGHT

- Fixture Only: ~ 1.5 lb./ft. (2.2 kg/m)

#### WARRANTY

- 5 year limited warranty on all components and workmanship

#### ENVIRONMENTAL

- Designed for use in damp or dry indoor environments with room side operating temperatures of 0 - 30° C (32 - 86° F)

#### INDEPENDENT TESTING

- IESNA LM79
- IESNA LM80 (LED@ 10,000 h)

#### APPROVALS

- UL Listed (USA + Canada)
- CCEA Chicago Plenum
- Lighting Facts®

Product	View Suspended	Description	Performance Summary		Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy		
Version	VU1-BA40	20 Up   80 Dn A lumens CCT 4000 K	CCT Color Temperature	4000 K	1896	18.43	102.9	(CRI)	(R9)	(SDCM)
Report	FLUXWERX			3500 K	1839	18.43	99.8	83.3	6.5	< 2
				3000 K	1781	18.43	96.7	83.3	6.5	< 2

27.2% Up | 72.8% Dn

### CANDLEPOWER DISTRIBUTION

Vertical Angle	0°	22.5°	45°	67.5°	90°	Zonal Lumens
0°	340	340	340	340	340	
5°	336	338	339	340	344	32
15°	319	325	353	376	388	100
25°	287	313	376	417	430	169
35°	244	293	369	401	413	218
45°	195	269	326	351	360	236
55°	146	222	266	288	295	223
65°	99	166	202	217	219	184
75°	55	111	139	149	150	133
85°	18	64	88	96	98	84
90°	3	47	72	82	84	
95°	7	55	81	90	91	76
105°	8	66	98	109	109	87
115°	9	72	114	130	132	95
125°	11	72	119	140	144	91
135°	12	61	111	136	143	75
145°	13	44	93	118	127	52
155°	13	30	65	92	98	28
165°	14	21	34	46	51	10
175°	14	16	17	19	20	2
180°	16	16	16	16	16	

### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture	
0-30°	301	N.A.	16	
0-60°	978	N.A.	52	
0-90°	1380	N.A.	73	
90-180°	516	N.A.	27	
<b>Total Luminaire</b>	<b>0-180°</b>	<b>1896</b>	<b>N.A.</b>	<b>100</b>

### LUMINANCE DATA (CD/M<sup>2</sup>)

Vertical Angle	0°	45°	90°
45°	5519	3179	2795
55°	4905	2464	2141
65°	4264	1845	1531
75°	3445	1283	1046
85°	2202	848	698

### CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80				70				20					
	70	50	30	10	70	50	30	10	50	30	10	0		
0	113	113	113	113	107	107	107	96	96	86	86	77	77	73
1	101	96	91	87	95	91	83	81	75	73	68	65	61	57
2	91	82	75	69	86	78	66	70	61	63	55	56	50	46
3	83	72	63	57	78	68	54	61	50	55	46	49	42	38
4	75	63	54	47	71	60	46	54	42	48	39	43	35	32
5	69	56	47	40	65	53	39	48	36	43	33	39	30	27
6	63	50	41	35	60	48	33	43	31	39	29	35	26	24
7	59	45	36	30	55	43	29	39	27	35	25	32	23	21
8	54	41	32	27	51	39	26	35	24	32	22	29	20	18
9	51	37	29	24	48	36	23	32	21	29	20	27	18	16
10	47	34	26	21	45	33	20	30	19	27	18	25	17	15

Integrating Sphere and Photometric results at 4000K, 3500K and 3000K scaled from VU1-B 38W (D) and VU1-A results from an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Candlepower Distribution scaled per total lumens of Integrating Sphere results.

Product	View Suspended	Description	Performance Summary		Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy		
Version	VU1-BB40	20 Up   80 Dn B lumens CCT 4000 K	CCT Color Temperature	4000 K	2291	22.59	101.4	(CRI)	(R9)	(SDCM)
Report	FLUXWERX			3500 K	2222	22.59	98.3	83.3	6.6	< 2
				3000 K	2153	22.59	95.3	83.3	6.6	< 2

27.2% Up | 72.8% Dn

### CANDLEPOWER DISTRIBUTION

Vertical Angle	0°	22.5°	45°	67.5°	90°	Zonal Lumens
0°	411	411	411	411	411	
5°	406	408	410	411	416	39
15°	385	392	427	454	469	121
25°	347	378	454	504	520	204
35°	295	354	446	484	499	264
45°	235	324	394	424	435	285
55°	176	268	321	348	357	269
65°	120	201	244	262	265	222
75°	67	134	167	180	182	161
85°	22	77	106	116	118	102
90°	3	57	87	99	101	
95°	8	67	98	109	110	91
105°	9	79	118	131	132	106
115°	11	87	138	157	160	115
125°	13	86	143	169	174	110
135°	14	74	135	165	173	91
145°	15	53	112	143	153	63
155°	16	36	79	111	119	34
165°	16	25	41	55	62	12
175°	16	19	21	23	24	2
180°	19	19	19	19	19	

### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture	
0-30°	364	N.A.	16	
0-60°	1182	N.A.	52	
0-90°	1667	N.A.	73	
90-180°	624	N.A.	27	
<b>Total Luminaire</b>	<b>0-180°</b>	<b>2291</b>	<b>N.A.</b>	<b>100</b>

### LUMINANCE DATA (CD/M<sup>2</sup>)

Vertical Angle	0°	45°	90°
45°	6667	3841	3378
55°	5929	2977	2586
65°	5153	2230	1850
75°	4164	1549	1264
85°	2659	1025	843

### CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80				70				20					
	70	50	30	10	70	50	30	10	50	30	10	0		
0	113	113	113	113	107	107	107	96	96	86	86	77	77	73
1	101	96	91	87	95	91	83	81	75	73	68	65	61	57
2	91	82	75	69	86	78	66	70	61	63	55	56	50	46
3	83	72	63	57	78	68	54	61	50	55	46	49	42	38
4	75	63	54	47	71	60	46	54	42	48	39	43	35	32
5	69	56	47	40	65	53	39	48	36	43	33	39	30	27
6	63	50	41	35	60	48	33	43	31	39	29	35	26	24
7	59	45	36	30	55	43	29	39	27	35	25	32	23	21
8	54	41	32	27	51	39	26	35	24	32	22	29	20	18
9	51	37	29	24	48	36	23	32	21	29	20	27	18	16
10	47	34	26	21	45	33	20	30	19	27	18	25	17	15

Product	View Suspended	Description	Performance Summary		Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy		
								(CRI)	(R9)	(SDCM)
Version	VU1-BC40	20 Up   80 Dn C lumens CCT 4000 K	CCT Color Temperature	4000 K	2845	28.69	99.2	83.3	6.6	< 2
Report	FLUXWERX			3500 K	2759	28.69	96.2	83.3	6.6	< 2
				3000 K	2673	28.69	93.2	83.3	6.6	< 2

27.2% Up | 72.8% Dn

### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	511	511	511	511	511
5°	504	507	509	510	49
15°	478	487	530	564	150
25°	430	470	564	626	253
35°	366	440	554	601	328
45°	292	403	490	527	355
55°	219	333	398	433	334
65°	148	249	304	325	276
75°	83	166	208	224	199
85°	28	95	131	144	126
90°	4	71	108	123	126
95°	10	83	122	135	113
105°	12	98	147	163	131
115°	14	108	171	195	143
125°	16	107	178	210	137
135°	18	92	167	205	113
145°	19	65	139	177	78
155°	20	45	98	138	42
165°	20	31	51	68	17
175°	20	23	26	28	3
180°	23	23	23	23	

### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture	LUMINANCE DATA (CD/M <sup>2</sup> )				
				Vertical Angle	0°	45°	90°	
0-30°	452	N.A.	16	45°	8280	4771	4195	
0-60°	1468	N.A.	52	55°	7364	3697	3212	
0-90°	2070	N.A.	73	65°	6399	2770	2298	
90-180°	774	N.A.	27	75°	5171	1924	1570	
Total Luminaire	0-180°	2845	N.A.	100	85°	3309	1273	1046

### CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80			70			20			30			10			0		
	70	50	30	10	70	50	10	50	10	50	10	50	10	50	10	50	10	0
0	113	113	113	113	107	107	107	96	96	86	86	77	77	73				
1	101	96	91	87	95	91	83	81	75	73	68	65	61	57				
2	91	82	75	69	86	78	66	70	61	63	55	56	50	46				
3	83	72	63	57	78	68	54	61	50	55	46	49	42	38				
4	75	63	54	47	71	60	46	54	42	48	39	43	35	32				
5	69	56	47	40	65	53	39	48	36	43	33	39	30	27				
6	63	50	41	35	60	48	33	43	31	39	29	35	26	24				
7	59	45	36	30	55	43	29	39	27	35	25	32	23	21				
8	54	41	32	27	51	39	26	35	24	32	22	29	20	18				
9	51	37	29	24	48	36	23	32	21	29	20	27	18	16				
10	47	34	26	21	45	33	20	30	19	27	18	25	17	15				

Integrating Sphere and Photometric results at 4000K, 3500K and 3000K scaled from VU1-B 38W (D) and VU1-A results from an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Candlepower Distribution scaled per total lumens of Integrating Sphere results.

Product	View Suspended	Description	Performance Summary		Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy		
								(CRI)	(R9)	(SDCM)
Version	VU1-BD40	20 Up   80 Dn D lumens CCT 4000 K	CCT Color Temperature	4000 K	3630	38.33	94.7	84	11.3	< 2
Report	11841620.01			3500 K	3521	37.96	92.7	83.2	6.4	< 2
				3000 K	3411	37.96	89.9	83.2	6.4	< 2

27.2% Up | 72.8% Dn

### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	651	651	651	651	651
5°	643	647	650	651	62
15°	610	621	676	720	192
25°	549	599	720	799	323
35°	467	562	707	767	418
45°	373	514	625	672	452
55°	279	425	508	552	426
65°	189	318	387	415	353
75°	106	212	265	285	254
85°	35	122	168	184	161
90°	5	90	138	157	161
95°	13	106	155	172	145
105°	15	126	188	208	167
115°	18	138	218	249	183
125°	20	137	227	268	174
135°	22	118	213	261	144
145°	24	83	178	226	99
155°	25	57	125	176	54
165°	26	40	65	87	19
175°	26	30	33	36	4
180°	30	30	30	30	

### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture	LUMINANCE DATA (CD/M <sup>2</sup> )				
				Vertical Angle	0°	45°	90°	
0-30°	577	N.A.	16	45°	10568	6087	5353	
0-60°	1873	N.A.	52	55°	9395	4717	4098	
0-90°	2642	N.A.	73	65°	8162	3534	2932	
90-180°	988	N.A.	27	75°	6602	2455	2004	
Total Luminaire	0-180°	3630	N.A.	100	85°	4212	1624	1335

### CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80			70			20			30			10			0		
	70	50	30	10	70	50	10	50	10	50	10	50	10	50	10	50	10	0
0	113	113	113	113	107	107	107	96	96	86	86	77	77	73				
1	101	96	91	87	95	91	83	81	75	73	68	65	61	57				
2	91	82	75	69	86	78	66	70	61	63	55	56	50	46				
3	83	72	63	57	78	68	54	61	50	55	46	49	42	38				
4	75	63	54	47	71	60	46	54	42	48	39	43	35	32				
5	69	56	47	40	65	53	39	48	36	43	33	39	30	27				
6	63	50	41	35	60	48	33	43	31	39	29	35	26	24				
7	59	45	36	30	55	43	29	39	27	35	25	32	23	21				
8	54	41	32	27	51	39	26	35	24	32	22	29	20	18				
9	51	37	29	24	48	36	23	32	21	29	20	27	18	16				
10	47	34	26	21	45	33	20	30	19	27	18	25	17	15				

**LED lighting facts**  
A Program of the U.S. DOE

Light Output (Lumens) **3630**  
Watts **38.33**  
Lumens per Watt (Efficacy) **94.7**

Color Accuracy  
Color Rendering Index (CRI) **84**

Light Color  
CRI Color Temperature (CCT) **4000 (Bright White)**

All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid State Lighting. The U.S. Department of Energy (DOE) certifies product test data and results.

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the Label Reference Guide.

Registration Number: MARK F486DM1 (14-0117)  
Model Number: VU1BD4040P175D1E1E1E1E1E1E  
Type Luminaire: Linear