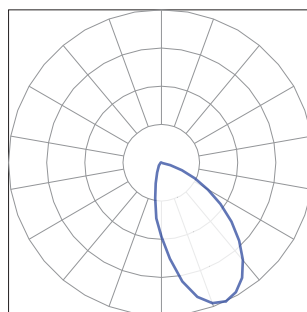
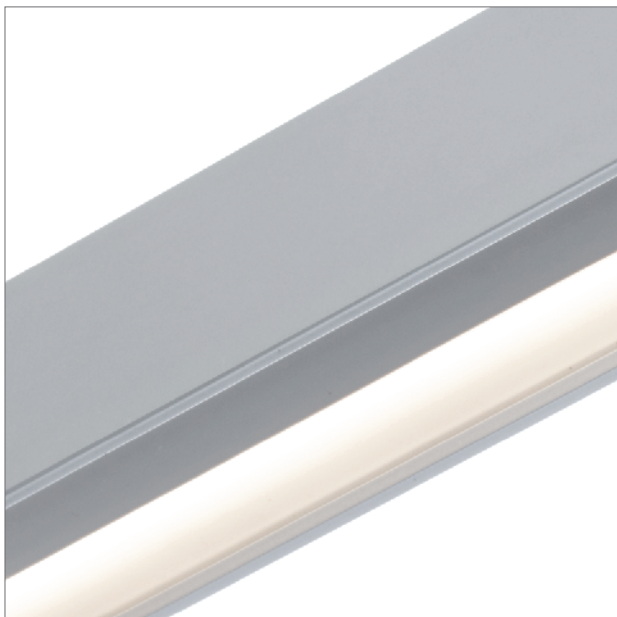


BoxRail® | 107

107-BX-X-4-48-X-X-X-X-X-Z-LO-35-A1-X-AL / WH-X

The performance data in black text is confirmed through third party testing (see the following Light Laboratory report for details). The performance data in grey text is calculated by Vode, for reference only.

Technical Support: (707) 996-9898



Details

Rail Type / Length	BoxRail, 48"
LED Type	Zipper Board
Lumen Output	Low Output
Color Temperature	3500K, 80+ CRI
Optics	85° Asymmetric Lens

Performance Summary

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	66	68	69	71
Total Lumens, 4' rail (1219mm)	975	1006	1027	1047
Lumens per foot (305mm)	244	252	257	262
Input Power (W), 4' rail (1219mm)	15.0	15.0	15.0	15.0
Watts per foot (305mm)	3.8-	3.8	3.8	3.8
CRI		-	85	-

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_35_A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704225 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 707-Z2-48-Z-LO-35-A1-AL
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 85° white asymmetric lens, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1024
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	14.95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.94
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	4.02 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	32447	28382	12801
55	29597	24601	9764
65	25160	20111	7665
75	20457	15900	6051
85	17795	12682	3936

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_35_A1.IES

CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	394.539	394.539	394.539	394.539	394.539	394.539	394.539	394.539	394.539	394.539
5	470.224	469.929	468.997	467.675	465.716	463.168	460.277	456.701	452.683	448.323
10	544.299	543.709	542.139	539.791	536.162	531.608	526.268	519.554	511.813	503.441
15	595.151	594.513	592.797	589.959	585.646	580.159	573.303	564.872	555.125	544.151
20	623.860	623.270	621.506	618.521	614.208	608.378	601.375	592.407	581.628	569.379
25	634.150	633.560	631.843	629.052	624.645	618.816	611.564	602.449	591.327	578.442
30	627.483	626.845	625.282	622.485	618.273	612.349	605.098	595.540	583.929	570.459
35	604.951	604.361	603.039	600.390	596.325	590.448	582.802	572.666	560.122	545.768
40	566.831	566.441	565.214	562.766	558.848	552.918	544.788	534.056	520.539	505.005
45	514.610	514.462	513.430	511.276	507.601	501.382	493.051	481.635	466.991	450.135
50	451.114	450.919	450.135	447.981	444.353	438.376	429.608	417.655	402.321	384.975
55	380.762	380.668	379.830	378.019	374.544	368.762	360.089	348.035	333.586	316.488
60	308.257	308.157	307.473	305.950	302.865	297.283	289.295	278.616	265.583	250.738
65	238.490	238.443	237.953	236.578	233.982	229.280	222.619	213.362	203.166	190.629
70	175.490	175.389	174.947	173.920	171.814	168.091	162.846	155.742	147.223	138.060
75	118.755	118.708	118.265	117.434	115.864	113.121	109.351	104.400	98.524	92.300
80	71.036	70.989	70.647	70.009	68.835	66.971	64.570	61.389	57.714	53.938
85	34.786	34.686	34.391	33.854	33.022	31.943	30.473	28.709	26.751	24.792
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	394.539	394.539	394.539	394.539	394.539	394.539	394.539	394.539	394.539	394.539
5	443.373	437.939	432.352	426.422	420.351	413.537	406.923	400.309	393.500	386.497
10	493.789	483.009	471.740	459.539	446.659	432.252	418.145	403.837	388.751	373.706
15	531.218	516.763	501.134	484.089	465.569	444.453	423.585	402.026	379.293	356.755
20	554.683	537.779	519.212	498.538	475.805	449.255	422.458	394.480	364.891	335.498
25	562.819	544.641	524.262	501.187	475.416	444.748	413.389	380.178	344.654	309.774
30	554.146	534.988	513.725	489.228	461.504	428.287	393.843	357.050	317.562	279.400
35	528.475	508.438	486.390	461.256	432.647	399.672	363.127	324.718	283.908	244.466
40	486.390	465.421	442.642	417.407	388.261	356.903	321.284	284.002	244.466	206.990
45	431.030	408.787	385.807	361.168	333.486	303.354	271.559	237.853	203.019	169.118
50	365.676	344.165	321.680	297.867	273.666	247.015	216.152	191.703	162.114	135.216
55	298.115	278.421	258.090	237.268	215.267	194.788	171.714	148.839	125.617	105.433
60	233.787	215.120	200.966	183.915	167.064	149.329	131.346	113.711	96.760	81.278
65	177.496	164.516	151.187	138.007	125.174	112.141	98.182	85.196	72.653	61.094
70	128.260	118.755	109.056	99.551	90.240	80.883	71.136	61.779	52.569	45.318
75	85.686	79.266	73.001	66.387	60.209	53.991	47.424	41.200	35.129	29.789
80	49.920	46.049	42.085	38.362	34.686	30.963	27.140	23.417	19.889	16.951
85	22.632	20.626	18.567	16.656	14.744	12.838	10.974	9.163	7.694	6.567
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	394.539	394.539	394.539	394.539	394.539	394.539	394.539	394.539	394.539	394.539
5	379.783	372.874	366.213	360.089	353.622	347.988	342.648	337.651	333.143	328.884
10	358.714	344.507	330.300	317.125	303.844	292.628	281.896	271.901	263.282	255.393
15	334.223	313.201	292.723	273.961	255.688	240.159	226.194	213.503	202.777	193.520
20	307.520	280.085	254.709	232.318	211.202	194.104	179.112	165.985	155.205	145.653
25	275.872	245.446	217.374	193.762	172.203	155.158	140.998	128.998	119.540	111.699
30	242.702	210.760	182.493	159.324	139.134	123.853	111.699	101.804	94.406	88.429
35	207.627	176.711	150.108	129.287	112.289	99.356	89.851	82.305	76.818	72.505

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_35_A1.IES

CANDELA TABULATION - (Cont.)

40	172.793	144.916	121.794	104.400	90.535	80.789	73.632	68.051	64.133	61.094
45	140.556	117.139	98.329	84.659	73.880	66.581	61.289	57.224	54.380	52.079
50	112.289	93.332	78.830	68.440	60.404	55.017	51.047	48.109	45.955	44.386
55	88.187	73.833	63.053	55.212	49.289	45.318	42.327	40.026	38.409	37.135
60	68.098	57.613	49.873	44.291	39.784	36.745	34.444	32.680	31.453	30.426
65	51.784	45.855	38.804	34.539	31.305	29.004	27.240	25.866	24.886	24.101
70	37.966	32.828	28.662	25.671	23.470	21.753	20.432	19.452	18.715	18.125
75	25.624	22.290	19.694	17.635	16.119	14.992	14.160	13.422	12.933	12.543
80	14.697	12.886	11.464	10.337	9.505	8.868	8.378	7.989	7.694	7.446
85	5.782	5.192	4.702	4.313	4.018	3.770	3.628	3.481	3.428	3.381
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	394.539	394.539	394.539	394.539	394.539	394.539	394.539
5	325.255	322.317	319.815	317.809	316.387	315.455	315.113
10	248.679	242.997	238.490	234.820	232.318	230.749	230.165
15	185.579	179.165	174.068	170.003	167.206	165.542	165.005
20	138.355	132.473	127.818	124.148	121.794	120.224	119.835
25	105.433	100.725	97.250	94.506	92.695	91.568	91.220
30	83.827	80.446	77.898	75.939	74.664	73.980	73.685
35	69.325	66.971	65.207	63.932	63.006	62.516	62.416
40	58.841	57.224	55.950	55.017	54.481	54.085	53.891
45	50.415	49.235	48.551	47.914	47.471	47.176	47.129
50	43.164	42.232	41.548	41.005	40.763	40.515	40.468
55	36.202	35.518	34.981	34.586	34.344	34.196	34.196
60	29.642	29.152	28.709	28.414	28.172	28.072	28.025
65	23.470	23.075	22.733	22.485	22.343	22.243	22.143
70	17.688	17.346	17.051	16.856	16.709	16.656	16.656
75	12.201	11.953	11.806	11.658	11.564	11.464	11.464
80	7.298	7.151	7.056	7.003	6.956	6.909	6.862
85	3.381	3.333	3.333	3.333	3.280	3.280	3.333
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	144.43	N.A.	14.10
0-30	307.25	N.A.	30.00
0-40	501.45	N.A.	49.00
0-60	847.20	N.A.	82.70
0-80	1008.03	N.A.	98.50
0-90	1023.86	N.A.	100.00
10-90	986.52	N.A.	96.40
20-40	357.02	N.A.	34.90
20-50	547.73	N.A.	53.50
40-70	450.91	N.A.	44.00
60-80	160.82	N.A.	15.70
70-80	55.67	N.A.	5.40
80-90	15.84	N.A.	1.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1023.86	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	37.35
10-20	107.08
20-30	162.82
30-40	194.20
40-50	190.71
50-60	155.05
60-70	105.16
70-80	55.67
80-90	15.84
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

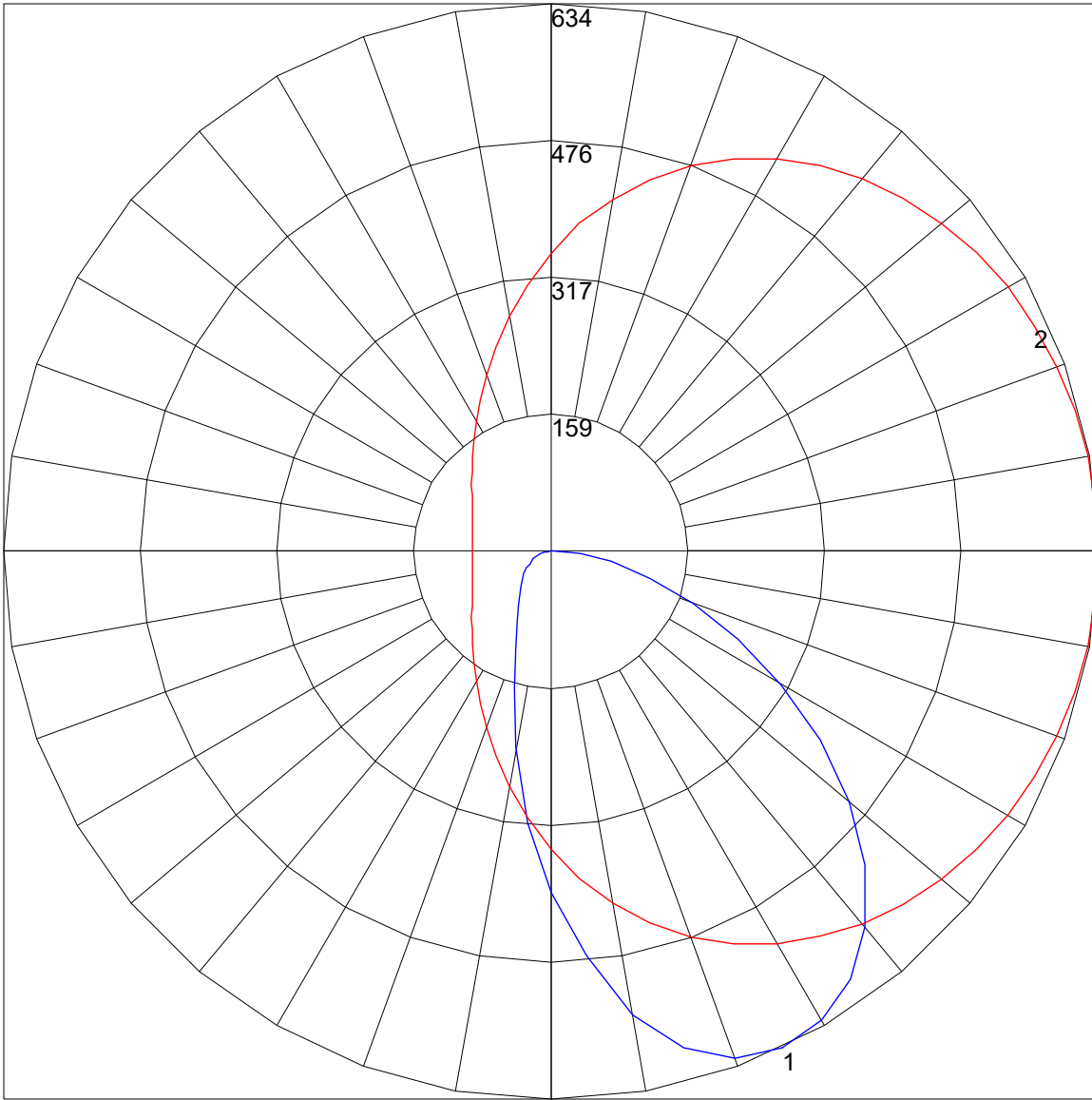
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_35_A1.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	74	67	89	80	73	67	77	71	65	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 634.15 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)