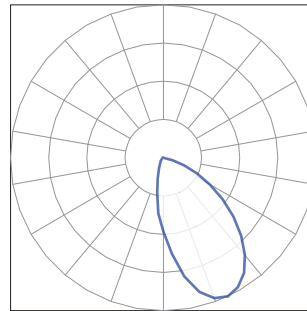


# BoxRail® | 107

107-BX-X-4-48-X-X-X-X-X-Z-LO-359-A1-X-BL-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, 90+ CRI
Optics	85° Black Asymmetric Lens

## Performance Summary

	2700K	3000K	3500K	4000K
Color Temperature	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	30	31	32	32
Total Lumens, 4' rail (1219mm)	440	454	463	473
Lumens per foot (305mm)	110	114	116	118
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	-	-	96	-

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**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_LO\_359\_A1-BL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L071704213 (SOURCE REPORT FOR REFERENCE)  
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
 [ISSUEDATE] 11/1/2017  
 [MANUFAC] Vode Lighting  
 [LUMCAT] 107-BX-48-Z-LO-359-A1-BL  
 [LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,  
 [MORE] 85° black 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	463
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	31
Total Luminaire Watts	14.95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.06
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.04 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	27738	23273	7550
55	22441	17636	5017
65	15615	12042	3468
75	6248	7018	2562
85	0	0	1602

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_LO\_359\_A1-BL.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>
<b>0</b>	187.741	187.741	187.741	187.741	187.741	187.741	187.741	187.741	187.741	187.741
<b>5</b>	244.438	244.270	243.423	242.026	239.353	236.349	233.172	229.571	225.762	221.738
<b>10</b>	305.674	305.209	303.685	301.099	297.034	291.995	286.237	279.883	272.855	264.807
<b>15</b>	351.665	351.115	349.294	346.157	341.542	335.616	328.501	320.326	311.049	300.635
<b>20</b>	379.103	378.471	376.609	373.560	369.072	363.013	355.812	347.050	336.544	324.814
<b>25</b>	387.574	386.983	385.417	382.750	378.512	372.881	366.103	357.464	347.091	335.065
<b>30</b>	379.022	378.558	377.160	374.830	371.101	366.103	359.836	351.665	341.629	329.980
<b>35</b>	356.663	356.281	355.093	353.017	349.462	345.142	339.257	331.423	321.637	310.289
<b>40</b>	321.937	321.596	320.540	318.505	315.328	311.008	305.082	297.371	287.676	276.496
<b>45</b>	279.419	279.036	277.975	276.114	273.023	268.489	262.436	254.939	245.453	234.442
<b>50</b>	232.412	232.157	231.224	229.571	226.817	222.289	216.148	208.524	199.206	188.578
<b>55</b>	183.370	183.243	182.524	181.086	178.627	174.644	169.101	162.705	154.107	144.111
<b>60</b>	137.124	137.042	136.660	135.685	133.865	130.774	126.409	120.442	113.072	105.065
<b>65</b>	94.013	93.973	93.886	93.549	92.575	90.754	87.832	83.594	78.305	72.502
<b>70</b>	56.069	56.197	56.493	56.788	56.834	56.365	55.136	52.938	49.929	46.415
<b>75</b>	23.037	23.251	23.970	24.985	26.214	27.229	27.907	27.866	27.147	25.877
<b>80</b>	1.525	1.612	1.861	2.203	2.795	3.728	4.998	6.650	8.303	9.445
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Angles Horizontal 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>
<b>0</b>	187.741	187.741	187.741	187.741	187.741	187.741	187.741	187.741	187.741	187.741
<b>5</b>	217.331	212.843	208.187	203.572	199.165	194.718	190.021	185.528	181.040	176.383
<b>10</b>	256.168	247.105	237.492	227.837	218.224	208.100	197.895	188.113	178.332	168.295
<b>15</b>	288.354	275.859	262.012	247.528	233.085	217.801	202.302	187.522	172.870	158.044
<b>20</b>	311.049	296.060	279.123	261.207	242.658	223.558	203.444	183.962	165.118	146.232
<b>25</b>	320.622	303.853	285.768	266.036	244.270	221.952	198.237	176.001	153.219	131.452
<b>30</b>	315.624	298.814	280.219	259.682	236.431	211.533	185.655	162.323	137.674	114.597
<b>35</b>	296.698	280.393	261.717	240.710	218.137	188.154	168.504	143.437	118.702	96.681
<b>40</b>	263.451	247.865	230.209	210.390	187.563	166.642	143.223	119.340	96.854	77.755
<b>45</b>	221.355	206.662	190.572	173.374	154.826	134.543	113.791	94.182	76.056	59.797
<b>50</b>	173.543	163.593	149.277	134.161	118.748	102.357	85.884	70.640	56.707	44.380
<b>55</b>	133.186	122.176	110.359	98.292	86.348	74.363	61.873	50.903	40.994	32.268
<b>60</b>	96.217	87.490	78.729	69.707	60.731	52.132	43.748	36.251	29.391	23.460
<b>65</b>	66.106	59.670	53.443	47.430	41.376	35.613	30.110	25.281	20.879	17.065
<b>70</b>	42.478	38.454	34.558	30.661	27.101	23.587	20.074	17.238	14.571	12.199
<b>75</b>	24.138	22.231	20.114	18.212	16.305	14.443	12.495	10.924	9.445	8.175
<b>80</b>	9.868	9.782	9.358	8.767	8.089	7.369	6.650	5.845	5.294	4.702
<b>85</b>	0.127	0.464	1.102	1.780	2.162	2.285	2.244	2.116	1.989	1.861
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Angles Horizontal 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>
<b>0</b>	187.741	187.741	187.741	187.741	187.741	187.741	187.741	187.741	187.741	187.741
<b>5</b>	172.023	167.953	164.057	160.415	157.325	154.402	151.822	149.404	147.456	145.763
<b>10</b>	159.064	150.210	142.081	134.497	127.174	120.906	115.148	110.063	105.830	101.974
<b>15</b>	144.661	131.830	120.314	109.854	100.200	91.984	84.568	78.259	73.134	68.646
<b>20</b>	129.418	113.577	99.945	87.618	77.245	68.223	60.853	54.672	49.674	45.482
<b>25</b>	112.435	95.707	80.677	68.182	58.058	49.888	43.069	38.408	33.793	30.493
<b>30</b>	94.947	78.004	63.648	52.300	42.901	37.393	30.789	26.637	23.587	21.216
<b>35</b>	77.755	61.746	48.914	39.341	31.717	26.382	22.404	19.354	17.151	15.586

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_LO\_359\_A1-BL.IES**

**CANDELA TABULATION - (Cont.)**

<b>40</b>	61.276	47.517	37.985	29.519	23.674	19.691	16.855	14.652	13.214	12.112
<b>45</b>	46.497	37.225	27.948	22.318	18.085	15.290	13.296	11.857	10.797	9.996
<b>50</b>	35.445	26.678	21.134	17.192	14.316	12.281	10.883	9.909	9.190	8.680
<b>55</b>	25.454	20.160	16.345	13.637	11.648	10.333	9.318	8.639	8.129	7.752
<b>60</b>	19.013	15.540	12.918	11.011	9.741	8.767	8.089	7.624	7.283	7.028
<b>65</b>	14.142	11.857	10.164	8.976	8.089	7.451	6.987	6.691	6.482	6.268
<b>70</b>	10.373	8.935	7.879	7.114	6.564	6.181	5.931	5.717	5.549	5.462
<b>75</b>	7.074	6.309	5.717	5.335	5.039	4.830	4.656	4.575	4.488	4.406
<b>80</b>	4.192	3.856	3.641	3.514	3.346	3.346	3.259	3.259	3.218	3.177
<b>85</b>	1.821	1.821	1.780	1.780	1.739	1.612	1.525	1.357	1.311	1.229
<b>90</b>	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>
<b>0</b>	187.741	187.741	187.741	187.741	187.741	187.741	187.741
<b>5</b>	144.493	143.606	142.887	142.632	142.632	142.208	141.953
<b>10</b>	98.802	96.344	94.396	93.085	92.407	91.514	91.219
<b>15</b>	65.005	62.169	59.838	58.232	57.339	56.452	56.156
<b>20</b>	42.182	39.979	37.903	36.547	35.700	35.022	34.813
<b>25</b>	27.994	26.127	24.689	23.674	23.037	22.613	22.445
<b>30</b>	19.436	18.125	17.151	16.514	16.050	15.754	15.667
<b>35</b>	14.316	13.469	12.832	12.408	12.112	11.898	11.857
<b>40</b>	11.347	10.715	10.292	9.996	9.828	9.654	9.654
<b>45</b>	9.486	9.063	8.767	8.599	8.471	8.344	8.303
<b>50</b>	8.303	8.002	7.793	7.665	7.538	7.497	7.451
<b>55</b>	7.497	7.329	7.155	7.074	6.987	6.987	6.946
<b>60</b>	6.819	6.691	6.604	6.564	6.482	6.482	6.436
<b>65</b>	6.181	6.054	5.972	5.931	5.931	5.885	5.845
<b>70</b>	5.380	5.335	5.253	5.253	5.207	5.166	5.166
<b>75</b>	4.406	4.320	4.320	4.320	4.320	4.320	4.320
<b>80</b>	3.218	3.177	3.177	3.177	3.136	3.136	3.136
<b>85</b>	1.188	1.188	1.188	1.142	1.142	1.188	1.188
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_LO\_359\_A1-BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	71.23	N.A.	15.40
0-30	155.08	N.A.	33.50
0-40	253.43	N.A.	54.70
0-60	408.81	N.A.	88.20
0-80	461.55	N.A.	99.60
0-90	463.46	N.A.	100.00
10-90	445.61	N.A.	96.10
20-40	182.20	N.A.	39.30
20-50	272.18	N.A.	58.70
40-70	193.35	N.A.	41.70
60-80	52.74	N.A.	11.40
70-80	14.78	N.A.	3.20
80-90	1.91	N.A.	0.40
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	463.46	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	17.86
10-20	53.37
20-30	83.86
30-40	98.34
40-50	89.98
50-60	65.41
60-70	37.96
70-80	14.78
80-90	1.91
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

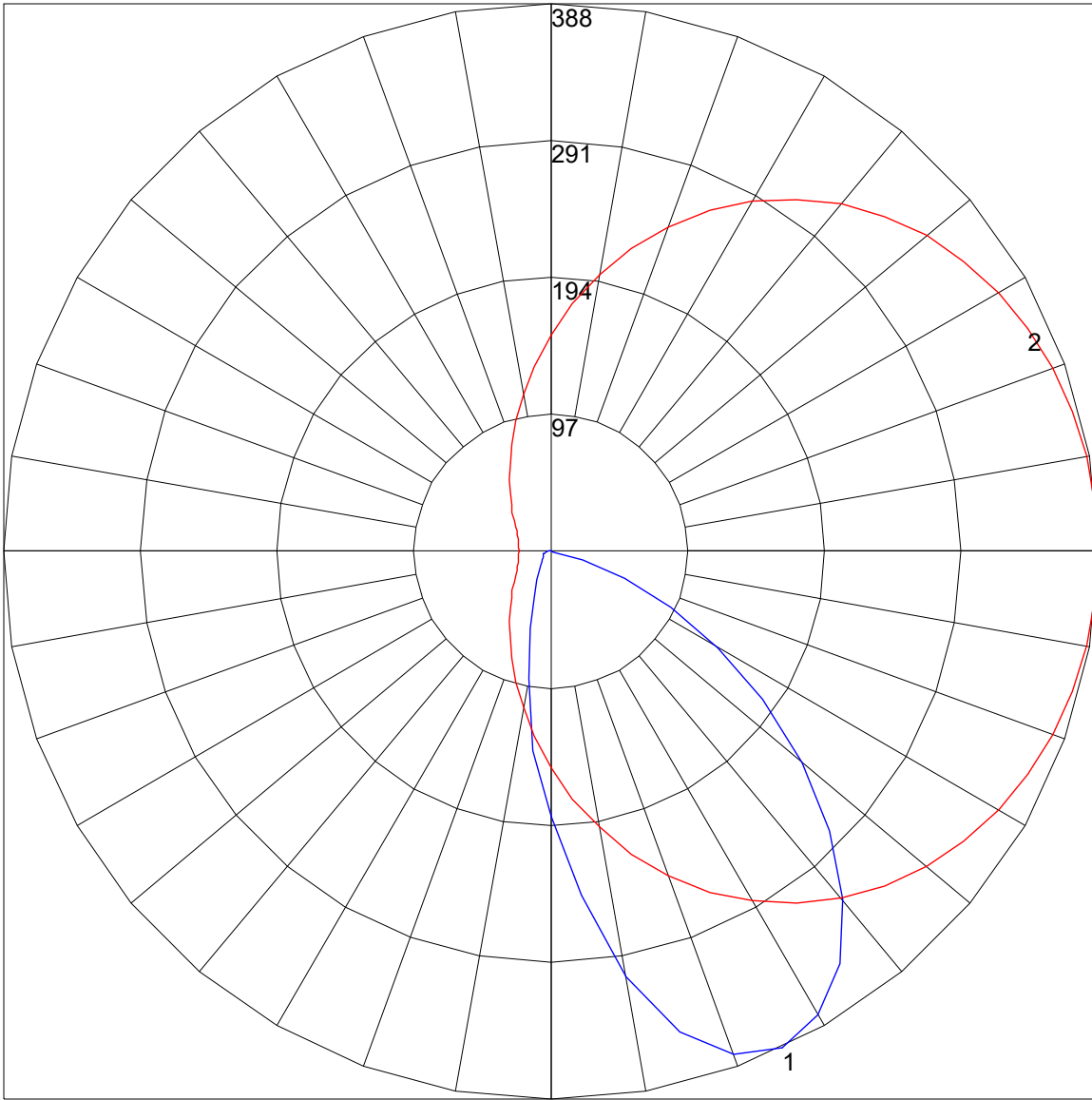
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_LO\_359\_A1-BL.IES**

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	59	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

POLAR GRAPH



Maximum Candela = 387.574 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.)