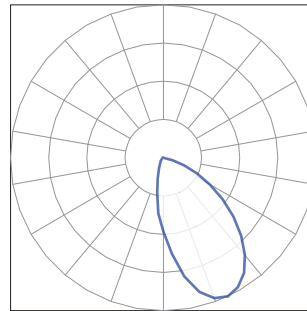


BoxRail® | 107

107-BX-X-4-48-X-X-X-X-X-Z-HO-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	High Output
Color Temperature	3500K, 90+ CRI
Optics	85° Black Asymmetric Lens

Performance Summary

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	34	36	36	37
Total Lumens, 4' rail (1219mm)	1673	1726	1761	1796
Lumens per foot (305mm)	418	431	440	449
Input Power (W), 4' rail (1219mm)	49.2	49.2	49.2	49.2
Watts per foot (305mm)	12.4	12.4	12.4	12.4
CRI	-	-	96	-

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_HO_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-HO-359-A1-BL
 [LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,
 [MORE] 85° black asymmetric lens, high output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1763
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
Total Luminaire Watts	49.22
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	105513	88529	28720
55	85364	67087	19084
65	59399	45807	13192
75	23766	26697	9744
85	0	0	6094

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	714.153	714.153	714.153	714.153	714.153	714.153	714.153	714.153	714.153	714.153
5	929.823	929.182	925.962	920.646	910.481	899.054	886.968	873.272	858.780	843.473
10	1162.758	1160.993	1155.192	1145.357	1129.895	1110.728	1088.825	1064.653	1037.919	1007.306
15	1337.708	1335.612	1328.687	1316.756	1299.199	1276.656	1249.593	1218.495	1183.206	1143.591
20	1442.080	1439.674	1432.593	1420.992	1403.920	1380.873	1353.480	1320.151	1280.187	1235.567
25	1474.303	1472.053	1466.097	1455.951	1439.829	1418.412	1392.629	1359.765	1320.306	1274.561
30	1441.769	1440.004	1434.688	1425.822	1411.641	1392.629	1368.786	1337.708	1299.528	1255.219
35	1356.720	1355.265	1350.744	1342.849	1329.327	1312.895	1290.507	1260.709	1223.480	1180.315
40	1224.625	1223.325	1219.309	1211.569	1199.483	1183.051	1160.508	1131.175	1094.296	1051.771
45	1062.887	1061.432	1057.397	1050.316	1038.560	1021.313	998.285	969.767	933.683	891.799
50	884.077	883.107	879.557	873.272	862.796	845.568	822.211	793.208	757.764	717.334
55	697.527	697.042	694.307	688.836	679.485	664.334	643.246	618.918	586.210	548.186
60	521.608	521.297	519.842	516.137	509.211	497.455	480.848	458.150	430.117	399.659
65	357.620	357.464	357.135	355.854	352.149	345.223	334.107	317.985	297.868	275.790
70	213.284	213.769	214.894	216.019	216.194	214.409	209.733	201.372	189.926	176.559
75	87.630	88.445	91.180	95.041	99.716	103.577	106.157	106.002	103.266	98.436
80	5.801	6.130	7.081	8.381	10.631	14.181	19.012	25.298	31.583	35.929
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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>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	714.153	714.153	714.153	714.153	714.153	714.153	714.153	714.153	714.153	714.153
5	826.712	809.640	791.927	774.370	757.609	740.692	722.825	705.733	688.661	670.949
10	974.443	939.969	903.400	866.676	830.107	791.598	752.778	715.569	678.360	640.181
15	1096.876	1049.346	996.675	941.579	886.638	828.496	769.540	713.319	657.582	601.187
20	1183.206	1126.189	1061.762	993.610	923.052	850.399	773.885	699.777	628.094	556.256
25	1219.620	1155.833	1087.040	1011.982	929.182	844.288	754.078	669.494	582.834	500.035
30	1200.608	1136.665	1065.933	987.809	899.365	804.654	706.218	617.463	523.703	435.918
35	1128.614	1066.593	995.550	915.641	829.777	715.724	640.976	545.625	451.535	367.766
40	1002.146	942.859	875.697	800.308	713.474	633.895	544.810	453.960	368.425	295.772
45	842.018	786.127	724.920	659.503	588.945	511.791	432.853	358.260	289.312	227.465
50	660.143	622.294	567.838	510.336	451.710	389.358	326.696	268.709	215.709	168.819
55	506.631	464.746	419.797	373.896	328.461	282.871	235.361	193.631	155.937	122.744
60	366.000	332.807	299.478	265.159	231.015	198.307	166.413	137.895	111.802	89.240
65	251.463	226.980	203.293	180.420	157.392	135.470	114.538	96.166	79.424	64.912
70	161.583	146.276	131.454	116.633	103.092	89.725	76.358	65.572	55.426	46.405
75	91.820	84.565	76.514	69.277	62.022	54.941	47.530	41.555	35.929	31.098
80	37.539	37.209	35.599	33.349	30.768	28.033	25.298	22.232	20.137	17.887
85	0.485	1.765	4.190	6.771	8.226	8.691	8.536	8.051	7.566	7.081
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>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	714.153	714.153	714.153	714.153	714.153	714.153	714.153	714.153	714.153	714.153
5	654.362	638.881	624.059	610.208	598.451	587.335	577.519	568.323	560.912	554.471
10	605.067	571.388	540.465	511.617	483.758	459.916	438.013	418.671	402.569	387.903
15	550.281	501.471	457.665	417.876	381.152	349.898	321.691	297.693	278.196	261.124
20	492.294	432.038	380.182	333.292	293.832	259.514	231.481	207.968	188.956	173.009
25	427.692	364.060	306.889	259.359	220.850	189.771	163.833	146.101	128.544	115.993
30	361.170	296.723	242.112	198.947	163.193	142.241	117.118	101.326	89.725	80.704
35	295.772	234.876	186.065	149.652	120.649	100.356	85.224	73.623	65.242	59.286

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_HO_359_A1-BL.IES

CANDELA TABULATION - (Cont.)

40	233.091	180.750	144.491	112.287	90.055	74.903	64.117	55.736	50.265	46.075
45	176.870	141.601	106.312	84.894	68.792	58.161	50.576	45.105	41.070	38.024
50	134.830	101.481	80.394	65.397	54.456	46.715	41.400	37.694	34.959	33.019
55	96.825	76.688	62.177	51.876	44.310	39.304	35.444	32.864	30.924	29.488
60	72.323	59.112	49.140	41.885	37.054	33.349	30.768	29.003	27.703	26.733
65	53.796	45.105	38.664	34.144	30.768	28.343	26.578	25.453	24.657	23.843
70	39.460	33.989	29.973	27.063	24.968	23.513	22.562	21.747	21.107	20.777
75	26.908	23.998	21.747	20.292	19.167	18.372	17.712	17.402	17.072	16.762
80	15.947	14.666	13.852	13.367	12.726	12.726	12.397	12.397	12.241	12.086
85	6.926	6.926	6.771	6.771	6.615	6.130	5.801	5.160	4.986	4.675
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	714.153	714.153	714.153	714.153	714.153	714.153	714.153
5	549.641	546.265	543.530	542.560	542.560	540.950	539.980
10	375.836	366.485	359.075	354.089	351.509	348.114	346.988
15	247.272	236.486	227.620	221.509	218.114	214.739	213.613
20	160.457	152.077	144.181	139.020	135.800	133.220	132.424
25	106.487	99.386	93.915	90.055	87.630	86.020	85.379
30	73.933	68.948	65.242	62.817	61.052	59.927	59.597
35	54.456	51.235	48.810	47.200	46.075	45.260	45.105
40	43.165	40.759	39.149	38.024	37.384	36.724	36.724
45	36.084	34.474	33.349	32.708	32.223	31.738	31.583
50	31.583	30.439	29.643	29.158	28.673	28.518	28.343
55	28.518	27.878	27.218	26.908	26.578	26.578	26.423
60	25.938	25.453	25.123	24.968	24.657	24.657	24.483
65	23.513	23.028	22.717	22.562	22.562	22.388	22.232
70	20.467	20.292	19.982	19.982	19.807	19.652	19.652
75	16.762	16.432	16.432	16.432	16.432	16.432	16.432
80	12.241	12.086	12.086	12.086	11.931	11.931	11.931
85	4.520	4.520	4.520	4.346	4.346	4.520	4.520
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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PHOTOMETRIC FILENAME : VODE_107_BX_HO_359_A1-BL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	270.94	N.A.	15.40
0-30	589.93	N.A.	33.50
0-40	964.01	N.A.	54.70
0-60	1555.09	N.A.	88.20
0-80	1755.71	N.A.	99.60
0-90	1762.98	N.A.	100.00
10-90	1695.06	N.A.	96.10
20-40	693.08	N.A.	39.30
20-50	1035.35	N.A.	58.70
40-70	735.49	N.A.	41.70
60-80	200.62	N.A.	11.40
70-80	56.21	N.A.	3.20
80-90	7.27	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	1762.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.92
10-20	203.02
20-30	318.99
30-40	374.09
40-50	342.27
50-60	248.80
60-70	144.42
70-80	56.21
80-90	7.27
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

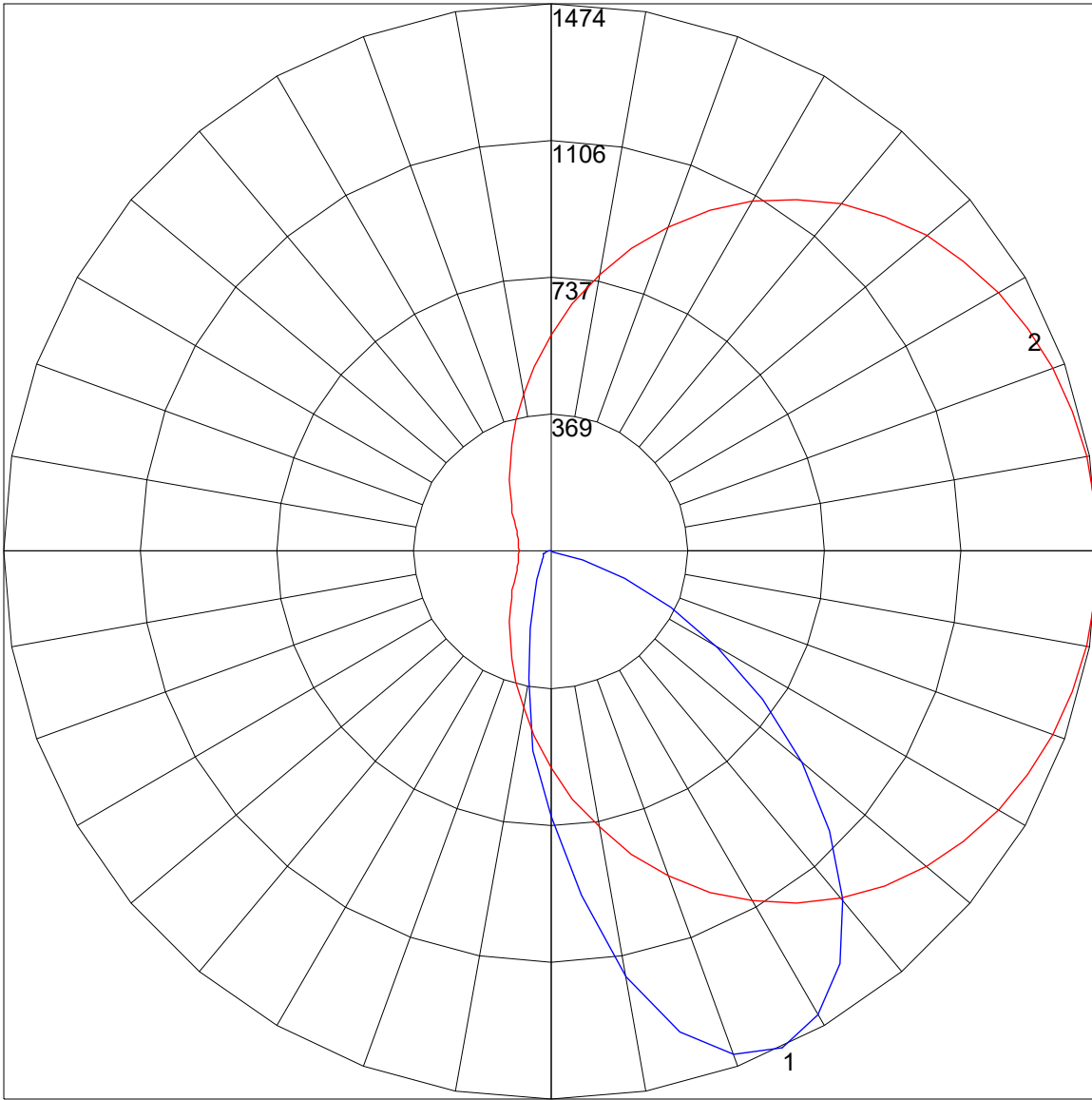
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PHOTOMETRIC FILENAME : VODE_107_BX_HO_359_A1-BL.IES

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
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	94	89	83	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	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	51	50
6	74	61	53	47	72	60	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	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	30	29

POLAR GRAPH



Maximum Candela = 1474.303 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.)