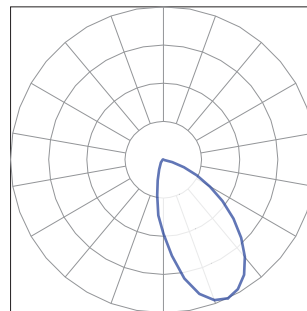


BoxRail® | 107

107-BX-X-4-48-X-X-X-X-X-Z-HO-35-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, 80+ CRI
Optics	85° Black Asymmetric Lens

Performance Summary

	2700K	3000K	3500K	4000K
Color Temperature	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	40	41	42	43
Total Lumens, 4' rail (1219mm)	1941	2002	2043	2084
Lumens per foot (305mm)	485	501	511	521
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	-	-	85	-

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_HO_35_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-35-A1-BL
 [LUMINAIRE] BoxRail LED, 48", 3500K, 80 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	2045
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
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	122374	102676	33309
55	99004	77808	22133
65	68890	53127	15300
75	27564	30963	11301
85	0	0	7067

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	828.270	828.270	828.270	828.270	828.270	828.270	828.270	828.270	828.270	828.270
5	1078.402	1077.660	1073.925	1067.760	1055.970	1042.717	1028.700	1012.815	996.008	978.255
10	1348.560	1346.513	1339.785	1328.378	1310.445	1288.215	1262.813	1234.777	1203.773	1168.267
15	1551.465	1549.035	1541.003	1527.165	1506.803	1480.658	1449.270	1413.203	1372.275	1326.330
20	1672.515	1669.725	1661.513	1648.057	1628.257	1601.527	1569.757	1531.102	1484.753	1433.003
25	1709.888	1707.277	1700.370	1688.602	1669.905	1645.065	1615.162	1577.047	1531.283	1478.227
30	1672.155	1670.108	1663.943	1653.660	1637.213	1615.162	1587.510	1551.465	1507.185	1455.795
35	1573.515	1571.828	1566.585	1557.428	1541.745	1522.688	1496.723	1462.162	1418.985	1368.922
40	1420.313	1418.805	1414.148	1405.170	1391.152	1372.095	1345.950	1311.930	1269.158	1219.838
45	1232.730	1231.043	1226.362	1218.150	1204.515	1184.513	1157.805	1124.730	1082.880	1034.303
50	1025.348	1024.223	1020.105	1012.815	1000.665	980.685	953.595	919.957	878.850	831.960
55	808.987	808.425	805.253	798.908	788.063	770.490	746.033	717.817	679.883	635.783
60	604.957	604.597	602.910	598.612	590.580	576.945	557.685	531.360	498.848	463.522
65	414.765	414.585	414.202	412.717	408.420	400.387	387.495	368.798	345.465	319.860
70	247.365	247.928	249.232	250.537	250.740	248.670	243.248	233.550	220.275	204.773
75	101.632	102.578	105.750	110.228	115.650	120.127	123.120	122.940	119.767	114.165
80	6.728	7.110	8.213	9.720	12.330	16.448	22.050	29.340	36.630	41.670
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	828.270	828.270	828.270	828.270	828.270	828.270	828.270	828.270	828.270	828.270
5	958.815	939.015	918.472	898.110	878.670	859.050	838.327	818.505	798.705	778.163
10	1130.152	1090.170	1047.757	1005.165	962.753	918.090	873.067	829.913	786.758	742.477
15	1272.150	1217.025	1155.938	1092.037	1028.318	960.885	892.508	827.303	762.660	697.253
20	1372.275	1306.148	1231.425	1152.382	1070.550	986.288	897.548	811.597	728.460	645.143
25	1414.507	1340.527	1260.743	1173.690	1077.660	979.200	874.575	776.475	675.967	579.938
30	1392.457	1318.297	1236.263	1145.655	1043.078	933.232	819.067	716.130	607.388	505.575
35	1308.960	1237.027	1154.632	1061.955	962.370	830.092	743.400	632.813	523.688	426.533
40	1162.283	1093.523	1015.628	928.192	827.482	735.188	631.867	526.500	427.298	343.035
45	976.567	911.745	840.758	764.888	683.055	593.572	502.020	415.507	335.543	263.813
50	765.630	721.732	658.575	591.885	523.890	451.575	378.900	311.647	250.178	195.795
55	587.587	539.010	486.877	433.642	380.947	328.072	272.970	224.572	180.855	142.357
60	424.485	385.988	347.332	307.530	267.930	229.995	193.005	159.930	129.667	103.500
65	291.645	263.250	235.778	209.250	182.542	157.118	132.840	111.532	92.115	75.285
70	187.403	169.650	152.460	135.270	119.565	104.063	88.560	76.050	64.282	53.820
75	106.493	98.078	88.740	80.347	71.933	63.720	55.125	48.195	41.670	36.068
80	43.538	43.155	41.288	38.678	35.685	32.513	29.340	25.785	23.355	20.745
85	0.563	2.047	4.860	7.853	9.540	10.080	9.900	9.338	8.775	8.213
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	828.270	828.270	828.270	828.270	828.270	828.270	828.270	828.270	828.270	828.270
5	758.925	740.970	723.780	707.715	694.080	681.188	669.803	659.138	650.543	643.072
10	701.753	662.692	626.827	593.370	561.060	533.408	508.005	485.572	466.897	449.887
15	638.212	581.602	530.798	484.650	442.058	405.810	373.095	345.262	322.650	302.850
20	570.960	501.075	440.933	386.550	340.785	300.983	268.470	241.200	219.150	200.655
25	496.035	422.235	355.928	300.803	256.140	220.095	190.012	169.447	149.085	134.528
30	418.882	344.137	280.800	230.738	189.270	164.970	135.833	117.517	104.063	93.600
35	343.035	272.408	215.798	173.565	139.928	116.392	98.843	85.388	75.668	68.760

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

40	270.337	209.632	167.580	130.230	104.445	86.873	74.362	64.642	58.297	53.438
45	205.132	164.227	123.300	98.460	79.785	67.455	58.657	52.313	47.633	44.100
50	156.375	117.698	93.240	75.847	63.157	54.180	48.015	43.718	40.545	38.295
55	112.297	88.942	72.112	60.165	51.390	45.585	41.108	38.115	35.865	34.200
60	83.880	68.558	56.992	48.578	42.975	38.678	35.685	33.638	32.130	31.005
65	62.392	52.313	44.843	39.600	35.685	32.873	30.825	29.520	28.598	27.652
70	45.765	39.420	34.763	31.387	28.957	27.270	26.168	25.223	24.480	24.098
75	31.207	27.832	25.223	23.535	22.230	21.308	20.543	20.183	19.800	19.440
80	18.495	17.010	16.065	15.502	14.760	14.760	14.377	14.377	14.197	14.018
85	8.033	8.033	7.853	7.853	7.673	7.110	6.728	5.985	5.782	5.423
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	828.270	828.270	828.270	828.270	828.270	828.270	828.270
5	637.470	633.555	630.383	629.258	629.258	627.390	626.265
10	435.892	425.048	416.452	410.670	407.678	403.740	402.435
15	286.785	274.275	263.993	256.905	252.968	249.053	247.748
20	186.097	176.377	167.220	161.235	157.500	154.507	153.585
25	123.502	115.267	108.922	104.445	101.632	99.765	99.022
30	85.748	79.965	75.668	72.855	70.808	69.502	69.120
35	63.157	59.422	56.610	54.742	53.438	52.492	52.313
40	50.063	47.273	45.405	44.100	43.358	42.593	42.593
45	41.850	39.983	38.678	37.935	37.373	36.810	36.630
50	36.630	35.303	34.380	33.818	33.255	33.075	32.873
55	33.075	32.333	31.567	31.207	30.825	30.825	30.645
60	30.082	29.520	29.137	28.957	28.598	28.598	28.395
65	27.270	26.707	26.348	26.168	26.168	25.965	25.785
70	23.738	23.535	23.175	23.175	22.973	22.793	22.793
75	19.440	19.058	19.058	19.058	19.058	19.058	19.058
80	14.197	14.018	14.018	14.018	13.838	13.838	13.838
85	5.242	5.242	5.242	5.040	5.040	5.242	5.242
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	314.23	N.A.	15.40
0-30	684.19	N.A.	33.50
0-40	1118.06	N.A.	54.70
0-60	1803.58	N.A.	88.20
0-80	2036.26	N.A.	99.60
0-90	2044.7	N.A.	100.00
10-90	1965.92	N.A.	96.10
20-40	803.82	N.A.	39.30
20-50	1200.79	N.A.	58.70
40-70	853.02	N.A.	41.70
60-80	232.68	N.A.	11.40
70-80	65.19	N.A.	3.20
80-90	8.43	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	2044.7	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	78.78
10-20	235.46
20-30	369.96
30-40	433.86
40-50	396.97
50-60	288.56
60-70	167.49
70-80	65.19
80-90	8.43
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

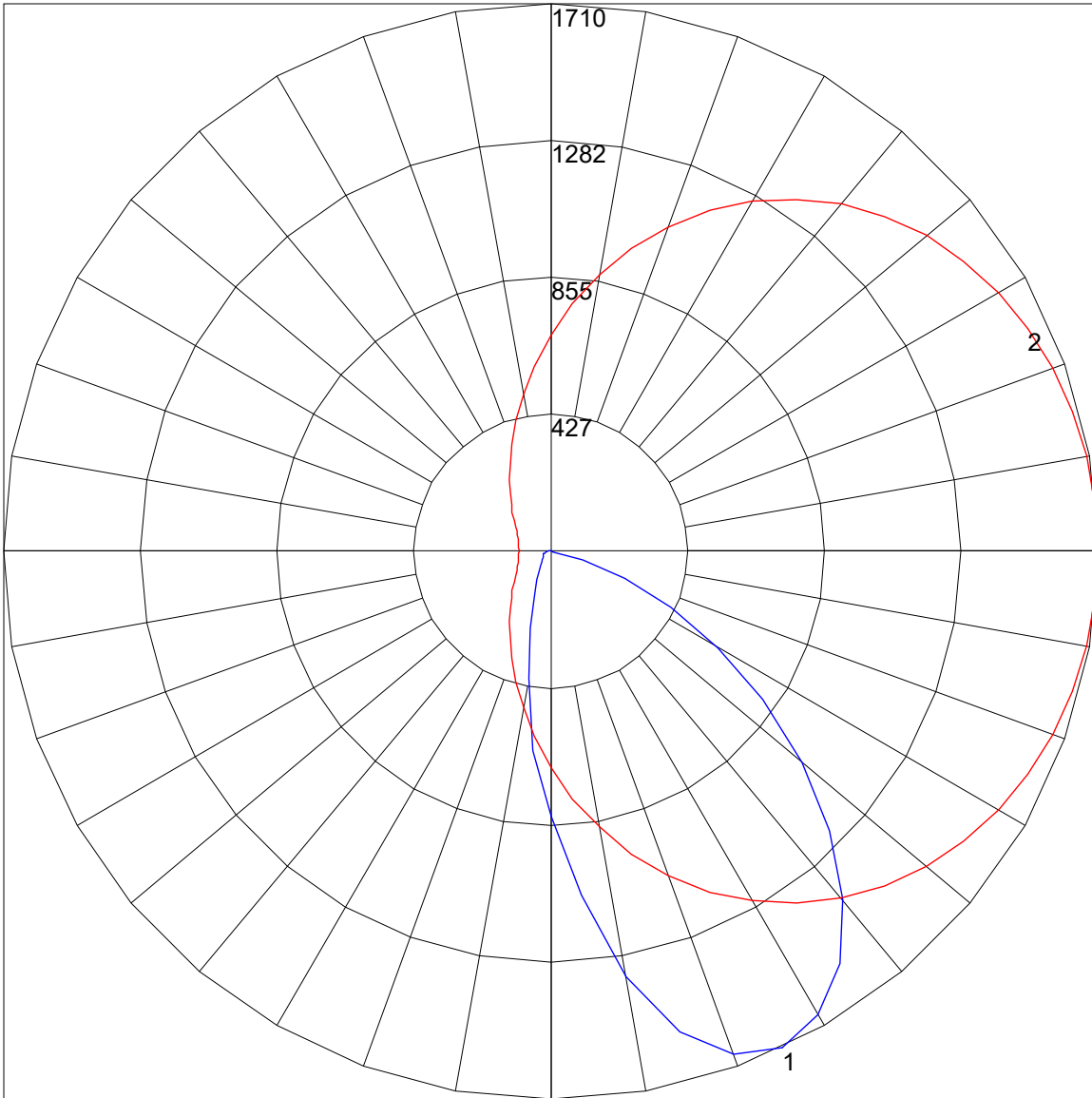
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	94	88	83	99	93	87	82	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	46	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	37	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 = 1709.888 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.)