

IES Report

BoxRail® | 107 | 120° Batwing Lens | 80 CRI | HO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	113	116	119	121
Total Lumens, 4' rail length (1219mm)	5529	5704	5820	5936
Lumens per foot (305mm)	1382	1426	1455	1484
Input Power (W), 4' rail length (1219mm)	49.2	49.2	49.2	49.2
Watts per foot (305mm)	12.4	12.4	12.4	12.4
CRI	85	85	85	85

Due to the large number of options in Vode's product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_HO_35_G1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800114 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 1/4/2018
[MANUFAC] Vode Lighting
[LUMCAT] 107-BX-48-Z-HO-35-G1
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 120° batwing lens up with white polycarbonate reflectors, high output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5820
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	49.22
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	3.85 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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
95	112.404	114.608	116.812	121.220	125.628	130.036	134.444	134.444	132.240	123.424
100	332.804	332.804	335.008	337.212	337.212	337.212	335.008	330.600	317.376	299.744
105	564.224	564.224	564.224	566.428	566.428	566.428	562.020	551.000	533.368	502.512
110	815.480	813.276	815.480	815.480	815.480	811.072	804.460	789.032	762.584	718.504
115	1068.940	1068.940	1068.940	1068.940	1064.532	1057.920	1044.696	1022.656	985.188	927.884
120	1313.584	1313.584	1311.380	1306.972	1302.564	1289.340	1271.708	1238.648	1190.160	1119.632
125	1538.392	1536.188	1531.780	1525.168	1514.148	1496.516	1470.068	1428.192	1368.684	1287.136
130	1730.140	1727.936	1721.324	1710.304	1694.876	1670.632	1635.368	1584.676	1514.148	1423.784
135	1880.012	1877.808	1868.992	1853.564	1833.728	1802.872	1758.792	1699.284	1622.144	1525.168
140	1983.600	1981.396	1970.376	1952.744	1926.296	1888.828	1838.136	1772.016	1688.264	1586.880
145	2036.496	2032.088	2018.864	1996.824	1965.968	1921.888	1866.788	1794.056	1708.100	1608.920
150	2023.272	2018.864	2001.232	1976.988	1941.724	1895.440	1835.932	1765.404	1683.856	1597.900
155	1932.908	1928.500	1910.868	1888.828	1853.564	1809.484	1756.588	1694.876	1626.552	1556.024
160	1785.240	1780.832	1767.608	1747.772	1719.120	1683.856	1641.980	1595.696	1545.004	1494.312
165	1606.716	1604.512	1595.696	1582.472	1564.840	1540.596	1516.352	1487.700	1459.048	1428.192
170	1452.436	1452.436	1445.824	1441.416	1432.600	1423.784	1412.764	1399.540	1386.316	1373.092
175	1357.664	1357.664	1355.460	1355.460	1353.256	1351.052	1348.848	1344.440	1342.236	1340.032
180	1329.012	1329.012	1329.012	1329.012	1329.012	1329.012	1329.012	1329.012	1329.012	1329.012

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>
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	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
95	112.404	96.976	83.752	70.528	63.916	59.508	59.508	59.508	57.304
100	271.092	240.236	207.176	185.136	169.708	163.096	160.892	160.892	158.688
105	458.432	407.740	357.048	319.580	295.336	284.316	279.908	275.500	273.296
110	656.792	586.264	515.736	460.636	427.576	409.944	398.924	394.516	394.516
115	850.744	760.380	672.220	601.692	557.612	531.164	517.940	511.328	509.124
120	1029.268	921.272	817.684	733.932	678.832	645.772	628.140	619.324	617.120
125	1183.548	1066.736	952.128	852.948	789.032	749.360	727.320	718.504	716.300
130	1311.380	1185.752	1064.532	963.148	892.620	846.336	819.888	806.664	804.460
135	1408.356	1280.524	1159.304	1057.920	985.188	934.496	903.640	888.212	883.804
140	1470.068	1348.848	1236.444	1137.264	1066.736	1016.044	982.984	965.352	960.944
145	1500.924	1392.928	1291.544	1203.384	1137.264	1088.776	1055.716	1038.084	1033.676
150	1503.128	1412.764	1326.808	1251.872	1194.568	1152.692	1121.836	1106.408	1102.000
155	1481.088	1410.560	1344.440	1287.136	1240.852	1207.792	1181.344	1168.120	1163.712
160	1441.416	1392.928	1348.848	1309.176	1276.116	1251.872	1234.240	1223.220	1221.016
165	1397.336	1370.888	1344.440	1320.196	1300.360	1287.136	1276.116	1269.504	1267.300
170	1359.868	1348.848	1335.624	1326.808	1317.992	1311.380	1306.972	1302.564	1302.564
175	1335.624	1333.420	1331.216	1329.012	1326.808	1324.604	1324.604	1324.604	1322.400
180	1329.012	1329.012	1329.012	1329.012	1329.012	1329.012	1329.012	1329.012	1329.012

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	603.78	N.A.	10.40
90-120	1431.64	N.A.	24.60
90-130	2487.14	N.A.	42.70
90-150	4567.85	N.A.	78.50
90-180	5819.95	N.A.	100.00
110-180	5216.18	N.A.	89.60
0-180	5819.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	127.22
100-110	476.55
110-120	827.87
120-130	1055.5
130-140	1104.38
140-150	976.33
150-160	715.05
160-170	408.02
170-180	129.04

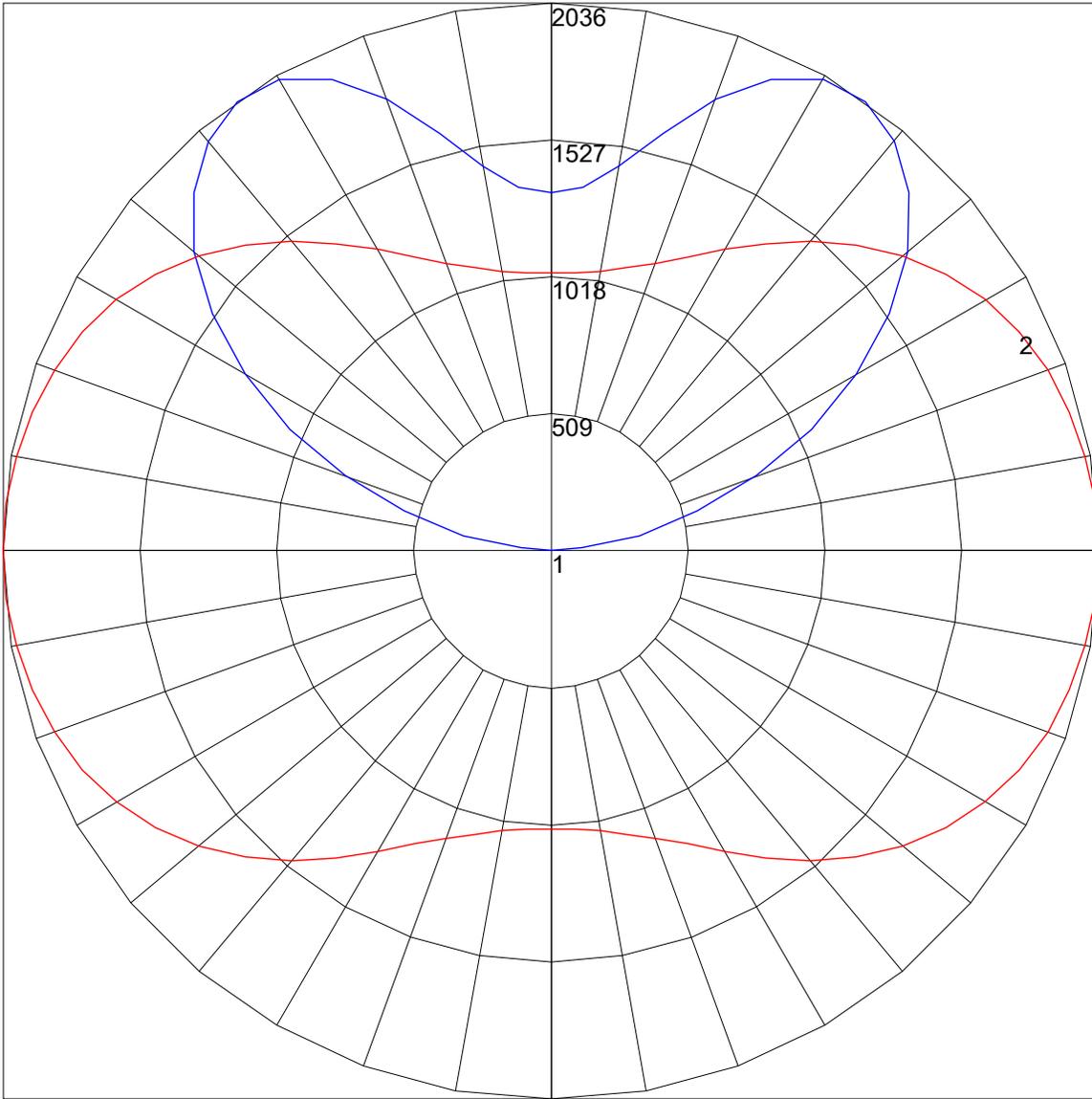
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 2036.496 Located At Horizontal Angle = 0, Vertical Angle = 145
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (145) (Through Max. Cd.)