

IES Report

BoxRail® | 107 | 85° Asymmetric | 80 CRI | HO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	55	57	58	58
Total Lumens, 4' rail length (1219mm)	2680	2765	2821	2821
Lumens per foot (305mm)	670	691	705	705
Input Power (W), 4' rail length (1219mm)	49.1	49.1	49.1	49.1
Watts per foot (305mm)	12.3	12.3	12.3	12.3
CRI	82	82	82	82

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_A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911514 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-BX-48-Z-HO-35-A1-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 85° black asymmetric lens,

[MORE] high output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2817
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.52
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.08
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.04 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	137198	107253	54376
55	109174	77615	33315
65	73260	52059	21660
75	27036	30880	14967
85	0	300	8889

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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	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464
5	1885.444	1886.918	1886.918	1882.672	1874.378	1866.810	1856.294	1845.976	1834.734	1821.622
10	2051.412	2051.588	2051.588	2042.370	2031.128	2018.214	2003.276	1985.940	1965.480	1943.722
15	2120.756	2119.282	2117.434	2107.666	2096.226	2081.838	2063.578	2043.470	2018.038	1990.560
20	2113.012	2111.890	2108.766	2099.922	2087.184	2071.520	2052.336	2029.104	2001.626	1970.078
25	2052.512	2049.938	2044.592	2035.726	2021.536	2003.276	1982.816	1955.888	1923.614	1887.644
30	1938.552	1937.078	1931.182	1920.116	1903.330	1882.848	1855.942	1823.470	1784.926	1743.082
35	1791.394	1789.172	1781.054	1767.590	1747.878	1721.676	1689.776	1649.758	1603.294	1553.486
40	1602.546	1599.598	1590.204	1575.266	1551.836	1520.112	1481.568	1435.654	1384.020	1327.414
45	1385.670	1382.546	1372.404	1356.366	1332.012	1297.340	1252.900	1201.816	1146.134	1083.236
50	1142.262	1139.490	1131.372	1116.434	1092.454	1058.156	1015.564	963.556	905.102	845.900
55	894.410	892.562	885.368	873.576	852.544	822.492	784.498	740.784	688.600	635.866
60	659.472	658.174	653.752	645.260	630.696	607.640	578.138	541.442	499.950	458.260
65	442.222	441.672	440.000	436.502	428.758	415.118	396.308	371.602	343.200	314.248
70	254.870	255.222	256.344	257.818	257.268	253.572	245.828	233.838	218.526	201.938
75	99.946	100.694	103.818	108.812	114.532	119.306	122.452	122.628	119.504	114.158
80	8.118	8.294	9.218	11.066	14.014	18.436	24.354	31.724	38.720	43.890
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.374
90	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>
0	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464
5	1808.730	1792.670	1776.082	1764.290	1742.334	1719.828	1700.292	1777.006	1755.622	1734.414
10	1918.444	1890.042	1859.242	1829.938	1790.844	1750.254	1708.762	1758.196	1714.130	1667.094
15	1957.912	1920.842	1879.350	1836.208	1785.674	1727.572	1669.866	1694.748	1632.796	1566.598
20	1933.206	1890.966	1843.952	1794.144	1732.940	1665.620	1594.802	1595.902	1518.462	1430.682
25	1845.976	1798.038	1744.908	1689.776	1624.502	1547.040	1467.378	1447.820	1359.314	1265.264
30	1696.420	1643.312	1584.286	1521.784	1453.540	1376.100	1294.018	1260.094	1165.296	1070.344
35	1499.652	1439.702	1376.452	1309.330	1240.734	1164.394	1081.212	1039.346	951.764	860.662
40	1264.516	1199.792	1134.518	1068.496	1002.100	931.832	858.066	816.574	741.532	660.572
45	1018.336	955.438	891.638	829.488	766.964	712.206	650.056	610.412	549.186	481.866
50	784.300	728.794	671.264	617.408	567.798	520.036	471.548	437.250	390.764	341.528
55	582.560	533.698	485.936	444.246	404.426	368.082	339.680	307.054	272.932	237.160
60	416.768	377.872	343.376	312.400	284.372	257.620	232.738	214.280	190.498	166.166
65	286.220	258.170	234.388	213.180	193.446	175.384	161.920	146.432	130.746	114.884
70	185.152	167.992	153.054	139.612	127.424	116.358	108.064	98.098	87.956	77.638
75	106.964	99.022	91.652	84.458	77.814	71.544	67.122	61.402	55.330	49.236
80	46.288	46.112	44.440	42.416	39.644	37.070	35.398	33.022	30.052	26.928
85	1.298	3.696	7.568	11.066	12.166	12.364	12.166	11.814	11.066	10.318
90	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>
0	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464
5	1714.482	1694.198	1675.014	1655.478	1637.592	1621.554	1604.768	1590.754	1576.542	1561.978
10	1623.380	1578.940	1533.950	1491.160	1447.468	1407.802	1370.930	1334.608	1301.586	1270.610
15	1501.500	1433.806	1366.134	1302.136	1236.312	1176.736	1120.306	1066.274	1018.688	974.446
20	1348.050	1261.392	1174.888	1093.752	1010.218	937.926	870.254	806.982	752.048	702.790
25	1171.214	1072.742	974.622	885.192	793.892	716.078	646.558	582.560	529.078	480.392
30	971.300	875.600	777.854	687.852	601.546	528.352	464.530	407.748	360.536	320.870
35	772.134	676.984	587.532	507.694	431.706	370.128	317.922	272.382	236.962	208.384

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CANDELA TABULATION - (Cont.)

40	582.186	499.950	427.658	362.560	302.434	255.046	215.952	183.304	156.926	137.940
45	419.364	357.016	301.884	253.022	208.758	174.086	149.380	124.476	107.338	93.676
50	295.614	250.624	210.782	175.010	150.106	122.628	103.642	88.154	76.714	67.672
55	204.512	174.086	152.328	122.078	102.718	86.856	74.140	63.998	56.606	50.710
60	143.484	123.002	104.016	88.330	74.514	64.174	55.704	49.060	44.066	40.194
65	100.144	86.306	73.942	63.624	54.582	47.762	42.416	37.994	34.672	31.900
70	68.420	59.576	51.832	45.188	39.842	35.398	31.724	28.952	26.554	24.706
75	44.066	38.918	34.298	30.624	27.302	24.706	22.506	20.834	19.360	18.084
80	24.354	21.956	19.734	18.084	16.412	15.312	14.014	13.090	12.364	11.814
85	9.592	8.844	8.294	7.920	7.370	7.018	6.644	5.720	5.346	4.796
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>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464
5	1550.186	1537.646	1529.704	1526.580	1522.136	1690.524	1693.274
10	1243.132	1218.228	1197.944	1186.328	1177.286	1338.656	1341.054
15	935.902	901.956	874.676	858.814	844.250	979.044	981.068
20	659.648	623.502	594.726	576.114	561.176	659.648	660.572
25	442.772	410.696	385.418	369.006	356.466	418.616	419.364
30	290.268	265.012	245.080	232.540	222.772	260.568	260.392
35	185.702	166.892	153.054	145.310	138.490	160.248	160.446
40	122.078	110.462	101.068	95.524	91.476	104.192	104.368
45	83.358	75.790	69.894	66.198	63.800	71.368	71.192
50	61.050	56.056	52.008	49.610	47.938	52.558	52.382
55	46.288	42.966	40.392	38.720	37.620	40.568	40.568
60	37.070	34.672	33.022	31.724	30.800	32.648	32.824
65	29.876	28.028	26.730	25.828	25.080	26.378	26.180
70	23.232	21.956	21.032	20.284	19.734	20.658	20.658
75	17.160	16.236	15.686	15.114	14.762	15.312	15.114
80	11.242	10.692	10.142	10.142	9.768	9.966	9.966
85	4.246	4.048	3.872	3.696	3.498	3.696	3.696
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	593.56	N.A.	21.10
0-30	1169.91	N.A.	41.50
0-40	1752.84	N.A.	62.20
0-60	2557.61	N.A.	90.80
0-80	2807.94	N.A.	99.70
0-90	2817.01	N.A.	100.00
10-90	2655.37	N.A.	94.30
20-40	1159.28	N.A.	41.20
20-50	1638.04	N.A.	58.10
40-70	986.45	N.A.	35.00
60-80	250.33	N.A.	8.90
70-80	68.65	N.A.	2.40
80-90	9.07	N.A.	0.30
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	2817.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	161.64
10-20	431.92
20-30	576.35
30-40	582.93
40-50	478.76
50-60	326.01
60-70	181.68
70-80	68.65
80-90	9.07
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

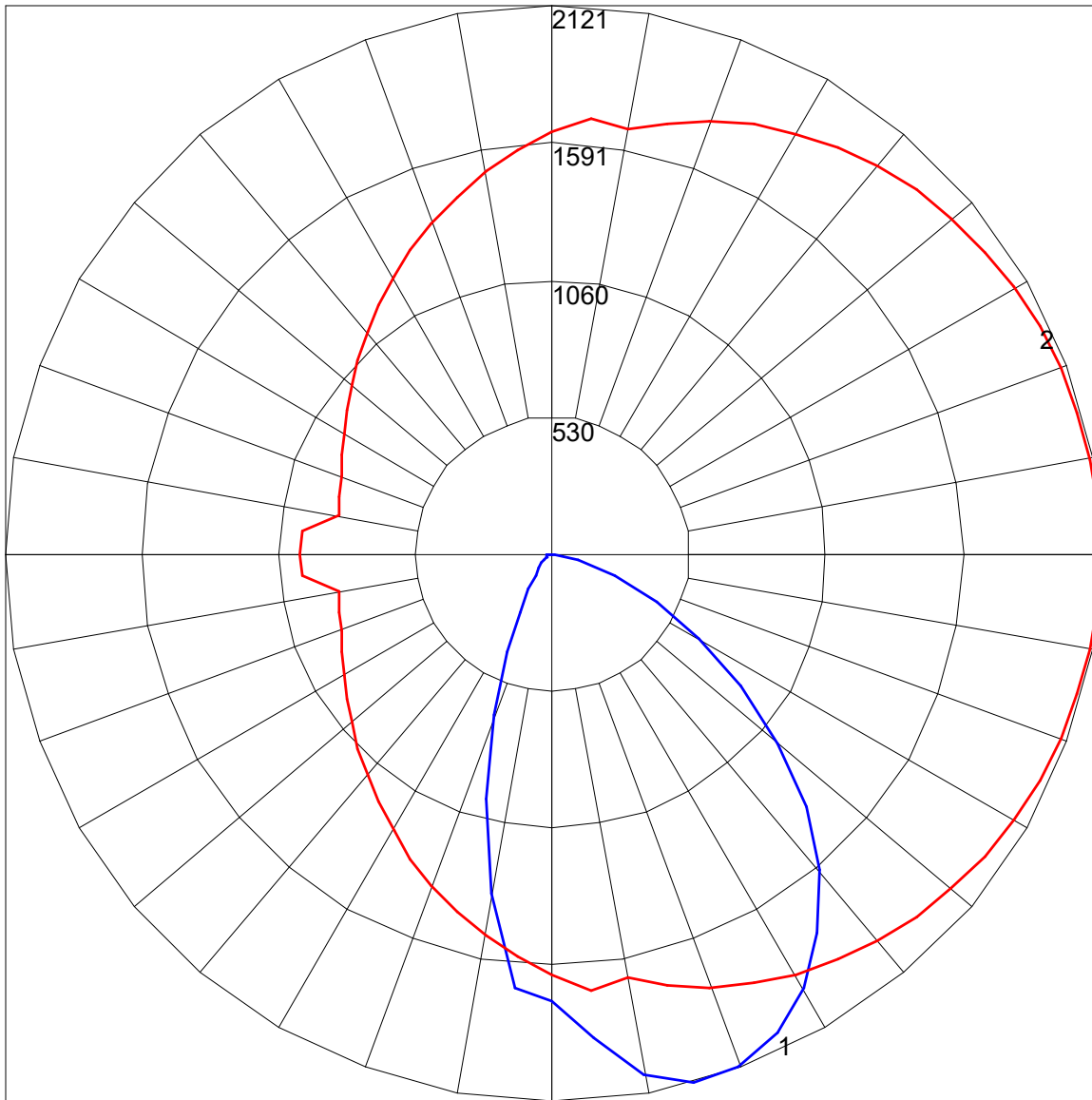
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78
3	96	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61
5	82	71	64	58	81	70	63	58	68	62	57	66	61	56	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	60	48	41	36	59	47	40	36	46	40	36	45	40	35	45	39	35	34

POLAR GRAPH



Maximum Candela = 2120.756 Located At Horizontal Angle = 0, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)