

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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	68	70	71	71
Total Lumens, 4' rail length (1219mm)	3304	3408	3478	3478
Lumens per foot (305mm)	826	852	869	869
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.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911511 (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-AL
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 85° white 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	3472
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.78
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.24
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	172403	141088	65533
55	142622	113067	51908
65	99901	84868	41883
75	43402	54625	32826
85	601	884	20748

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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	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958
5	1863.312	1859.616	1857.768	1852.620	1846.526	1839.156	1829.388	1820.522	1806.332	1792.120
10	2168.694	2164.096	2159.300	2148.586	2135.496	2116.884	2094.928	2070.772	2040.170	2007.698
15	2359.742	2355.518	2349.600	2336.708	2318.448	2297.042	2269.388	2237.114	2197.272	2152.656
20	2434.630	2433.706	2425.764	2413.224	2395.162	2371.182	2342.604	2306.084	2262.568	2212.782
25	2412.850	2409.902	2402.356	2390.542	2372.282	2349.050	2318.448	2280.828	2233.792	2182.334
30	2320.648	2317.700	2310.132	2297.240	2277.506	2251.678	2219.052	2179.210	2128.676	2071.872
35	2175.338	2172.016	2163.722	2149.334	2126.828	2097.700	2060.630	2013.792	1959.210	1897.434
40	1980.220	1977.470	1968.230	1952.192	1927.486	1895.586	1852.972	1800.414	1741.586	1674.838
45	1741.234	1737.714	1729.618	1713.756	1688.302	1654.378	1610.290	1555.708	1494.306	1424.962
50	1464.606	1462.208	1455.564	1441.550	1420.166	1385.494	1343.452	1292.742	1234.266	1172.864
55	1168.442	1166.594	1161.622	1152.030	1134.870	1108.140	1072.742	1028.104	978.120	926.310
60	872.278	871.728	870.056	864.908	854.018	836.308	811.228	778.778	741.708	704.088
65	603.042	603.394	604.318	603.944	600.072	591.976	578.314	558.954	535.898	512.292
70	362.560	363.660	366.608	370.304	373.626	374.176	371.602	364.958	355.542	344.124
75	160.446	161.722	166.342	172.788	180.906	189.574	196.394	200.816	202.664	201.938
80	24.354	24.904	26.554	30.052	35.046	42.240	51.634	62.876	73.942	82.984
85	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	1.100
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	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958
5	1777.556	1759.296	1736.064	1711.534	1686.652	1660.274	1632.598	1603.844	1574.144	1537.448
10	1972.124	1929.136	1881.198	1829.938	1777.380	1720.752	1662.298	1600.896	1539.296	1480.468
15	2103.420	2044.592	1977.646	1905.178	1829.190	1747.306	1661.924	1571.944	1482.118	1392.688
20	2155.978	2088.108	2010.294	1923.240	1831.038	1728.694	1620.806	1508.122	1395.636	1281.302
25	2120.206	2047.364	1963.082	1868.108	1766.688	1649.934	1528.978	1401.180	1273.558	1153.680
30	2006.972	1930.984	1843.952	1746.030	1640.716	1520.486	1394.712	1260.842	1128.424	1003.574
35	1828.816	1750.452	1662.848	1566.774	1463.506	1346.774	1224.498	1096.150	968.726	848.298
40	1603.294	1525.106	1440.076	1349.722	1255.122	1148.708	1039.346	926.684	808.830	702.988
45	1355.068	1279.652	1203.114	1121.230	1038.994	948.244	850.872	746.130	661.870	573.892
50	1104.642	1041.194	974.996	907.126	838.904	765.314	689.700	612.062	535.172	460.108
55	872.454	821.194	769.186	715.902	665.544	609.312	546.414	485.562	425.260	365.508
60	667.392	629.948	591.404	552.684	513.590	471.174	425.084	379.148	331.936	286.396
65	487.410	462.132	437.426	411.972	384.494	353.892	320.694	286.946	252.824	218.724
70	331.760	318.120	303.908	288.244	270.358	250.624	229.218	206.184	182.930	160.820
75	199.540	195.118	189.398	182.204	172.986	161.722	149.380	135.542	121.352	108.262
80	89.452	93.126	94.226	93.500	91.102	86.680	81.334	75.064	68.046	61.776
85	3.498	9.218	18.084	24.706	28.028	28.952	28.578	27.478	25.828	24.706
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	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958
5	1509.794	1477.520	1449.866	1424.588	1398.210	1374.252	1352.296	1329.988	1452.990	1440.450
10	1423.114	1365.210	1308.604	1256.772	1204.764	1178.760	1138.742	1096.898	1063.502	1031.426
15	1308.780	1225.048	1145.936	1073.468	1002.474	940.698	884.994	946.220	901.604	865.634
20	1177.484	1075.492	981.266	897.358	817.498	735.384	673.432	716.254	673.112	636.966
25	1038.994	927.784	827.464	740.608	659.824	594.550	539.418	500.500	461.956	430.232
30	886.468	776.204	679.008	596.948	523.358	465.828	422.686	382.294	351.318	327.140
35	738.584	637.340	549.186	477.994	415.492	368.456	332.684	300.960	277.552	259.842

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_HO_35_A1.IES

CANDELA TABULATION - (Cont.)

40	605.990	518.012	443.696	384.692	334.708	297.264	268.136	246.202	229.416	216.502
45	492.558	419.540	359.238	312.202	272.558	244.904	223.322	206.360	194.370	185.526
50	392.810	335.456	289.520	253.022	223.696	202.664	187.374	177.584	168.916	162.844
55	314.424	269.434	234.564	207.086	185.702	171.864	160.622	152.504	146.982	143.286
60	247.676	213.928	187.374	168.366	154.176	143.484	135.916	135.542	131.670	129.096
65	190.872	168.190	149.182	135.366	124.850	117.480	112.860	109.736	107.690	106.590
70	142.010	125.774	113.410	104.368	97.746	93.324	90.552	88.704	87.780	87.230
75	96.998	87.604	80.410	75.416	71.742	69.718	68.596	67.870	67.672	67.870
80	56.804	52.932	49.984	48.136	47.212	46.662	46.838	47.036	47.762	48.510
85	24.354	24.354	24.706	25.080	25.828	26.928	27.654	28.028	27.852	27.654
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	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958
5	1433.630	1431.782	1434.554	1441.924	1445.422	1438.976	1601.446
10	1005.796	1105.566	1096.524	1092.652	1089.704	1079.738	1223.398
15	834.460	813.252	797.038	786.896	779.328	768.812	878.922
20	608.564	588.830	570.944	558.954	550.836	541.244	615.934
25	404.778	385.418	417.318	406.626	399.256	392.062	439.648
30	307.604	320.144	314.974	306.856	300.960	296.164	325.314
35	245.630	258.918	250.074	244.354	240.834	237.336	255.222
40	207.086	200.090	208.758	205.062	203.038	201.014	212.454
45	180.532	185.702	182.578	180.532	179.630	178.706	186.626
50	158.774	161.920	161.370	160.622	160.248	159.896	165.242
55	140.888	144.584	143.836	143.484	143.110	142.912	146.784
60	127.622	126.874	126.698	126.500	126.500	126.324	129.448
65	105.864	108.988	108.988	109.362	109.736	109.362	111.760
70	87.230	90.002	90.354	90.728	91.102	91.102	93.324
75	68.244	70.642	71.192	71.742	72.116	72.292	73.766
80	49.236	51.260	52.008	52.558	53.306	53.658	54.956
85	27.654	27.852	28.776	28.952	29.326	29.502	30.250
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	580.76	N.A.	16.70
0-30	1198.28	N.A.	34.50
0-40	1882.59	N.A.	54.20
0-60	2998.74	N.A.	86.40
0-80	3446.26	N.A.	99.20
0-90	3472.42	N.A.	100.00
10-90	3320.68	N.A.	95.60
20-40	1301.83	N.A.	37.50
20-50	1931.19	N.A.	55.60
40-70	1425.25	N.A.	41.00
60-80	447.52	N.A.	12.90
70-80	138.42	N.A.	4.00
80-90	26.16	N.A.	0.80
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	3472.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.73
10-20	429.02
20-30	617.53
30-40	684.31
40-50	629.36
50-60	486.79
60-70	309.09
70-80	138.42
80-90	26.16
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

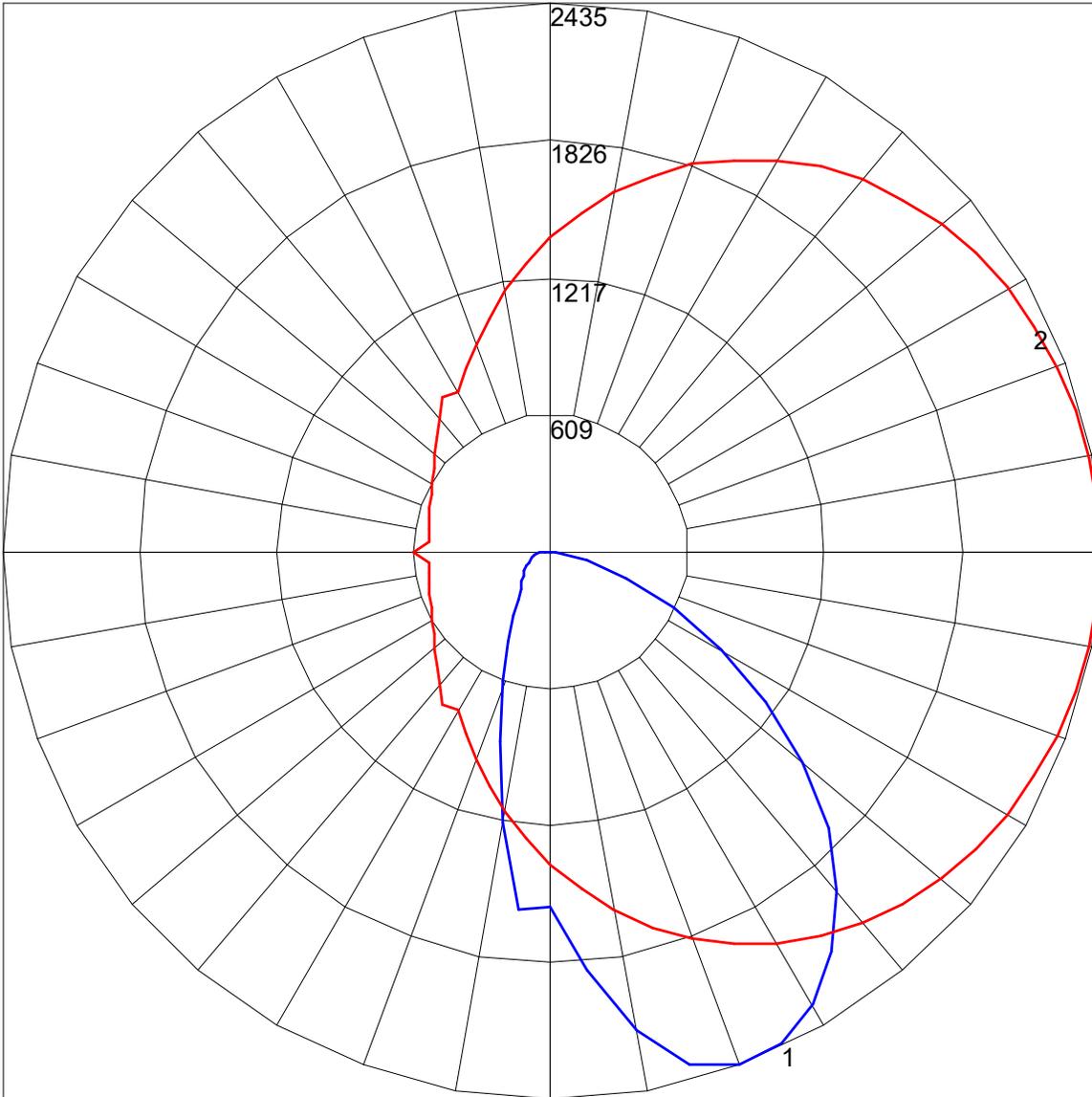
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74	
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56	
5	79	68	59	53	77	66	59	53	64	58	52	63	56	52	61	55	51	49	
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	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	63	51	43	38	49	42	37	48	42	37	47	41	37	35	
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32	
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29	

POLAR GRAPH



Maximum Candela = 2434.63 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)