

IES Report

BoxRail® | 107 | 40° Symmetric | 80 CRI | HO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	49	51	52	52
Total Lumens, 4' rail length (1219mm)	2397	2473	2524	2524
Lumens per foot (305mm)	599	618	631	631
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_S1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911509R01 (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-S1-AL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 40° white symmetric lens,

[MORE] high output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2520
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.01 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	94070	156552	301018
55	71495	107737	212133
65	61098	82309	152635
75	53870	65438	109739
85	4171	22833	64611

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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>
0.0	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668
1.0	1977.470	1988.074	1991.946	2008.996	2020.612	2027.344	2020.986	2025.958	2029.918	2034.164
3.0	1952.940	1956.812	1957.538	1991.572	2011.394	2019.226	2014.056	2018.214	2023.472	2027.982
5.0	1903.880	1898.358	1926.936	1949.618	1979.120	1986.688	1985.302	1992.672	2000.702	2005.960
7.0	1836.208	1822.084	1852.620	1886.830	1917.344	1929.510	1938.728	1948.144	1958.748	1968.230
9.0	1755.050	1735.514	1770.560	1820.148	1856.382	1869.494	1881.484	1894.662	1910.150	1925.374
11.0	1656.578	1629.100	1669.668	1722.688	1757.822	1782.638	1799.138	1817.112	1837.308	1857.592
13.0	1539.472	1503.612	1527.042	1588.268	1646.722	1682.208	1702.690	1728.320	1752.476	1780.328
15.0	1458.512	1422.014	1492.546	1557.006	1576.168	1600.896	1627.824	1658.140	1690.876	1724.536
17.0	1316.348	1317.074	1349.634	1429.208	1455.102	1483.966	1514.128	1549.064	1588.906	1629.760
19.5	1157.200	1141.976	1189.650	1258.532	1297.714	1329.064	1365.298	1406.790	1452.440	1501.214
22.5	975.370	974.248	1009.932	1074.942	1107.128	1142.350	1183.380	1228.744	1281.852	1339.294
25.5	804.782	812.064	835.758	890.890	929.808	965.668	1007.820	1057.518	1113.574	1175.548
29.0	646.734	628.936	664.818	715.154	744.942	778.866	819.808	868.868	926.112	989.274
33.0	487.212	477.180	499.664	545.864	572.594	602.668	638.704	683.056	736.736	795.828
37.5	362.362	361.460	377.300	405.614	425.524	449.240	478.654	515.526	560.890	612.150
42.5	268.312	261.866	276.716	296.450	311.740	329.076	350.658	378.598	412.632	453.002
47.5	206.734	202.400	212.454	226.006	236.038	247.852	263.164	283.074	308.066	337.568
55.0	146.432	144.034	149.006	155.562	160.534	167.640	176.308	187.726	202.312	220.660
65.0	92.202	92.400	93.500	95.810	98.384	101.156	105.028	109.912	116.270	124.212
75.0	49.786	49.324	50.072	50.798	51.546	52.558	53.856	55.418	57.728	60.478
85.0	1.298	1.386	1.386	1.650	1.936	2.398	3.146	3.960	5.082	7.106
90.0	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>
0.0	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668
1.0	2036.650	2038.872	2046.242	2047.804	2051.874	2052.600	2053.612	2052.336	2052.886
3.0	2031.040	2034.164	2039.422	2040.522	2053.172	2050.312	2051.126	2051.500	2051.962
5.0	2011.570	2018.126	2023.560	2028.532	2035.836	2038.784	2041.358	2047.166	2042.568
7.0	1978.284	1987.964	1997.556	2004.948	2017.928	2023.384	2027.894	2030.116	2033.152
9.0	1940.862	1954.678	1966.668	1979.406	1990.648	1999.404	2008.160	2014.166	2023.010
11.0	1878.426	1898.622	1917.894	1936.792	1949.992	1963.258	1976.634	1986.776	1995.532
13.0	1807.608	1834.272	1859.704	1886.170	1905.266	1922.140	1941.962	1950.344	1961.608
15.0	1760.770	1792.582	1825.032	1852.708	1877.876	1898.160	1911.800	1919.368	1923.240
17.0	1671.978	1711.622	1750.254	1788.072	1818.784	1839.882	1859.902	1872.992	1877.502
19.5	1552.210	1599.972	1647.910	1696.134	1735.052	1766.666	1787.874	1803.010	1809.456
22.5	1399.420	1456.950	1515.976	1573.770	1620.718	1661.286	1690.238	1707.112	1714.130
25.5	1242.032	1306.294	1373.416	1438.514	1495.494	1543.344	1574.606	1597.200	1605.120
29.0	1058.992	1128.886	1202.564	1272.458	1335.334	1390.840	1425.974	1453.276	1462.582
33.0	864.996	933.306	1007.622	1082.224	1149.346	1197.108	1244.782	1274.658	1285.922
37.5	672.826	735.152	803.220	873.928	939.488	996.930	1041.656	1070.146	1077.890
42.5	499.290	552.596	609.488	671.440	730.268	782.100	822.382	846.450	856.592
47.5	371.954	414.106	459.096	508.156	555.918	600.182	633.556	654.566	663.520
55.0	240.746	265.738	294.690	325.776	357.126	387.090	412.346	428.032	434.478
65.0	134.068	145.684	159.236	174.636	190.498	205.810	218.724	227.480	230.340
75.0	64.086	68.508	73.590	79.574	85.558	91.740	96.910	100.144	101.420
85.0	10.054	13.376	16.126	17.336	18.172	18.986	19.734	20.020	20.108
90.0	0.000	0.000	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	633.75	N.A.	25.20
0-30	1167.68	N.A.	46.30
0-40	1594.22	N.A.	63.30
0-60	2179.9	N.A.	86.50
0-80	2475.31	N.A.	98.20
0-90	2519.58	N.A.	100.00
10-90	2367.05	N.A.	93.90
20-40	960.47	N.A.	38.10
20-50	1341.13	N.A.	53.20
40-70	773.27	N.A.	30.70
60-80	295.41	N.A.	11.70
70-80	107.82	N.A.	4.30
80-90	44.27	N.A.	1.80
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	2519.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	152.54
10-20	481.21
20-30	533.93
30-40	426.54
40-50	380.66
50-60	205.02
60-70	187.59
70-80	107.82
80-90	44.27
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

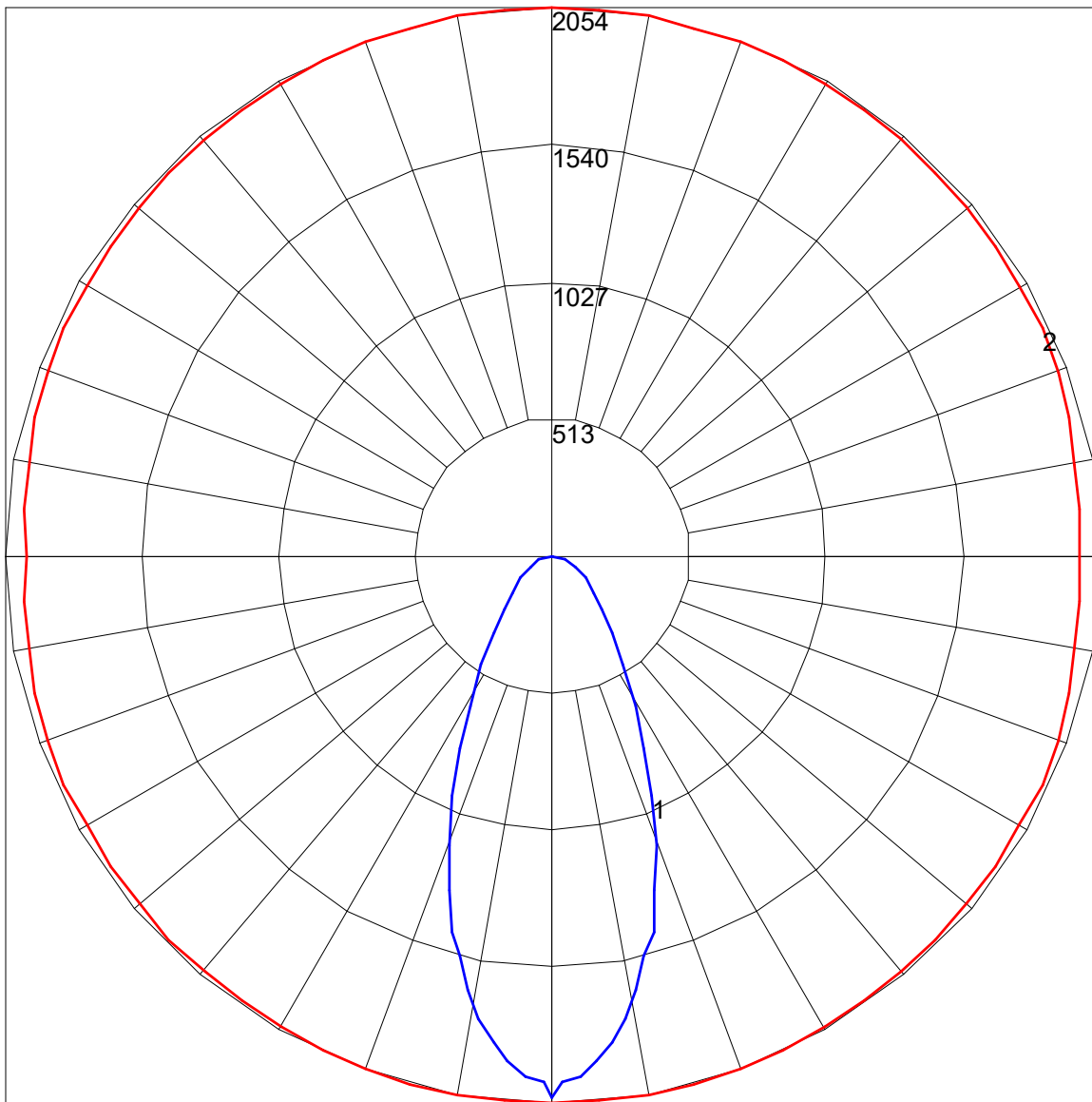
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	70	66	62	60
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49
7	73	61	53	48	71	60	53	48	59	52	47	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	41
9	65	53	45	41	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36

POLAR GRAPH



Maximum Candela = 2053.612 Located At Horizontal Angle = 80, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)