

IES Report

BoxRail® | 107 | 60° Symmetric | 80 CRI | HO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	42	43	44	44
Total Lumens, 4' rail length (1219mm)	2025	2089	2131	2131
Lumens per foot (305mm)	506	522	533	533
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_S2_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911513 (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-S2-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 60° black symmetric 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	2127
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.02 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	32430	53753	121442
55	15172	26317	70276
65	8674	15030	41308
75	5582	9474	25447
85	283	3252	13643

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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	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468
1.0	1898.336	1911.998	1910.612	1924.340	1966.294	1990.736	2007.148	2017.488	2025.408	2039.598
3.0	1906.454	1917.432	1916.706	1935.780	1972.674	1993.310	2006.224	2019.974	2037.772	2053.436
5.0	1900.932	1907.576	1909.050	1923.702	1959.210	1979.120	1990.824	2009.722	2032.976	2047.804
7.0	1848.000	1851.498	1856.118	1868.372	1911.712	1930.896	1939.938	1956.438	1977.932	2008.622
9.0	1783.826	1785.938	1791.108	1804.396	1849.210	1866.172	1882.122	1905.068	1944.734	1968.340
11.0	1701.766	1699.830	1706.188	1715.406	1758.020	1779.316	1789.920	1817.024	1869.956	1904.716
13.0	1599.598	1595.176	1600.984	1610.202	1649.208	1672.616	1688.940	1726.560	1782.176	1825.142
15.0	1496.154	1491.160	1499.366	1506.560	1541.518	1567.698	1590.468	1649.120	1703.240	1750.826
17.0	1382.172	1373.416	1383.734	1392.314	1422.828	1445.422	1467.840	1519.100	1579.776	1637.856
19.5	1230.042	1219.702	1231.780	1235.476	1264.604	1285.636	1322.508	1388.992	1454.838	1515.316
22.5	1040.820	1028.192	1038.070	1034.748	1058.244	1086.184	1120.394	1180.344	1255.848	1323.894
25.5	867.856	853.468	866.272	874.676	888.602	915.068	954.514	1015.388	1086.096	1159.026
29.0	672.738	660.022	670.252	661.958	674.498	698.742	737.660	790.394	861.388	934.428
33.0	484.814	473.286	484.550	494.780	499.202	509.432	540.694	587.356	648.406	712.382
37.5	322.718	314.974	323.840	317.922	324.742	340.516	367.818	406.824	454.212	509.432
42.5	202.312	196.482	201.938	207.548	209.132	213.928	231.528	256.520	289.630	330.000
47.5	125.224	121.902	125.224	127.710	129.008	133.430	145.310	162.382	185.988	212.894
55.0	62.150	60.588	62.238	62.326	63.624	66.572	72.556	81.136	93.764	107.800
65.0	26.180	25.630	26.378	26.554	27.016	28.314	30.800	34.584	39.468	45.364
75.0	10.318	10.230	10.516	10.428	10.692	11.440	12.364	13.464	15.400	17.512
85.0	0.176	0.176	0.176	0.176	0.176	0.374	0.550	0.836	1.386	2.024
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	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468
1.0	2052.138	2059.618	2068.660	2078.604	2084.324	2089.032	2091.606	2092.992	2095.676
3.0	2062.104	2074.006	2080.650	2085.886	2087.646	2091.892	2094.202	2095.126	2096.226
5.0	2059.530	2065.514	2070.772	2070.948	2075.392	2079.990	2083.950	2086.546	2086.458
7.0	2028.092	2035.924	2040.720	2045.318	2051.962	2057.506	2063.490	2065.514	2066.350
9.0	1987.700	2000.152	2008.996	2015.816	2023.846	2032.866	2038.872	2043.580	2045.318
11.0	1931.644	1948.144	1958.660	1971.376	1985.390	1996.830	2005.674	2010.756	2013.044
13.0	1855.656	1886.456	1903.418	1922.228	1939.564	1953.578	1964.358	1972.102	1975.424
15.0	1784.662	1816.826	1841.356	1866.260	1888.304	1906.828	1921.766	1931.358	1933.008
17.0	1684.892	1720.378	1754.500	1786.598	1814.538	1836.846	1854.644	1866.898	1871.056
19.5	1565.300	1606.968	1649.582	1690.238	1726.098	1756.986	1779.404	1794.342	1800.414
22.5	1399.244	1453.166	1505.372	1555.994	1601.446	1638.054	1666.170	1684.892	1692.724
25.5	1222.298	1286.098	1348.050	1408.352	1461.372	1504.624	1537.074	1558.744	1566.774
29.0	1009.294	1080.112	1148.532	1220.538	1281.588	1332.650	1371.392	1396.010	1404.678
33.0	783.200	857.340	929.632	1001.550	1065.438	1119.206	1160.060	1186.966	1196.844
37.5	569.382	632.544	699.842	767.712	825.792	884.730	926.860	954.426	964.656
42.5	378.774	431.156	485.100	540.320	594.176	643.500	680.482	704.924	714.054
47.5	247.016	283.536	324.940	369.006	411.620	452.188	483.252	503.448	512.490
55.0	126.148	146.432	169.840	196.592	222.684	247.390	268.510	282.524	287.870
65.0	52.646	61.050	70.906	82.060	93.764	105.490	115.346	121.990	124.674
75.0	20.284	23.430	26.928	31.262	35.508	39.842	43.428	46.112	47.036
85.0	3.322	4.422	5.258	6.094	6.644	7.370	8.030	8.294	8.492
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	638.45	N.A.	30.00
0-30	1162.28	N.A.	54.60
0-40	1550.77	N.A.	72.90
0-60	1976.19	N.A.	92.90
0-80	2112.24	N.A.	99.30
0-90	2127.15	N.A.	100.00
10-90	1973.13	N.A.	92.80
20-40	912.33	N.A.	42.90
20-50	1208.77	N.A.	56.80
40-70	519.43	N.A.	24.40
60-80	136.05	N.A.	6.40
70-80	42.03	N.A.	2.00
80-90	14.90	N.A.	0.70
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	2127.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.02
10-20	484.43
20-30	523.84
30-40	388.49
40-50	296.45
50-60	128.97
60-70	94.02
70-80	42.03
80-90	14.90
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

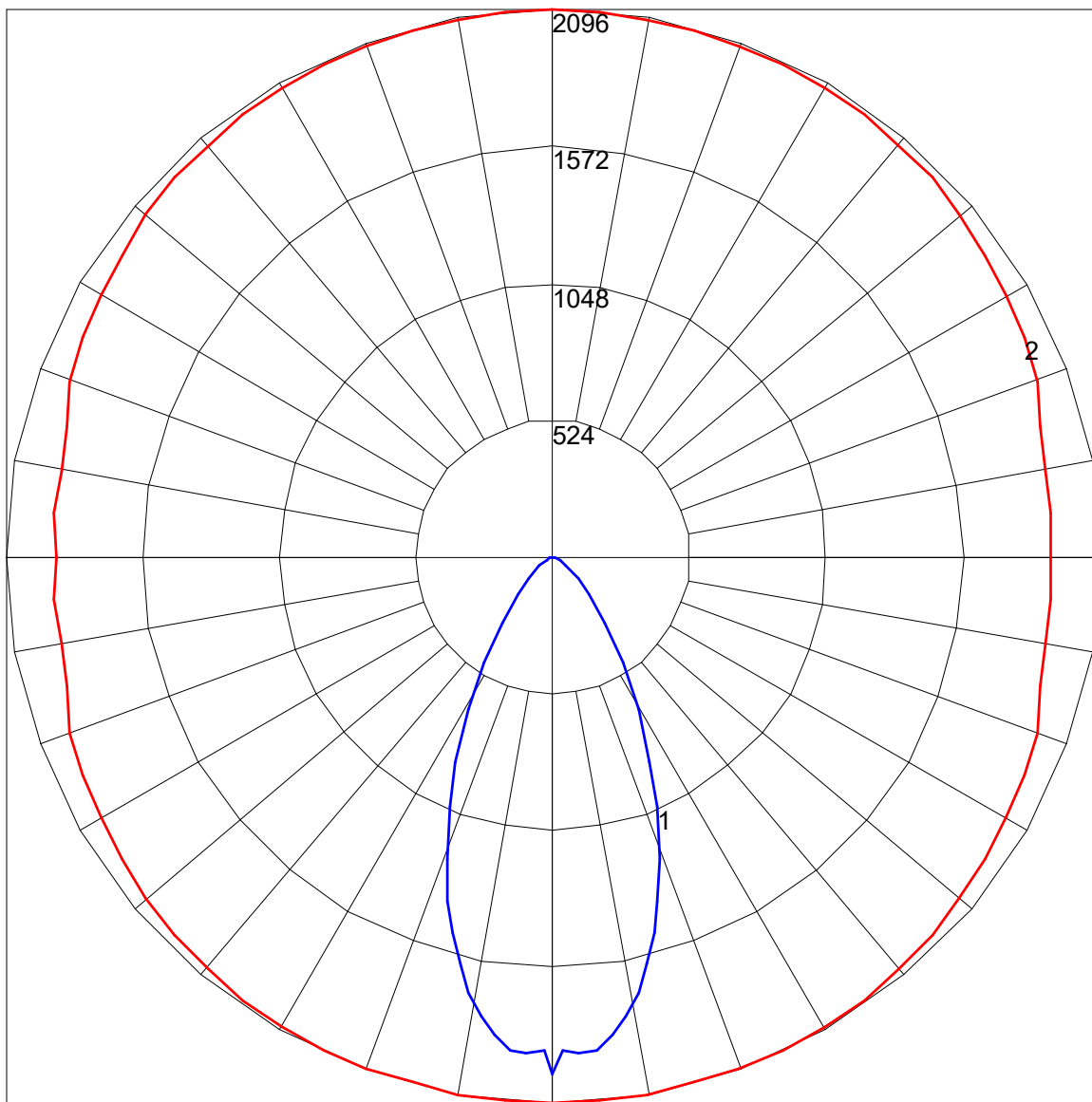
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

POLAR GRAPH



Maximum Candela = 2096.226 Located At Horizontal Angle = 90, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)