

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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	36	37	38	38
Total Lumens, 4' rail length (1219mm)	1740	1795	1832	1832
Lumens per foot (305mm)	435	449	458	458
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_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911512 (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-BL
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 40° black 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	1829
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	37
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.84
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	55215	88629	210525
55	26746	42364	116513
65	13441	23894	66973
75	9569	15354	40706
85	0	5302	21914

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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	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240
1.0	1678.534	1713.844	1743.522	1773.046	1788.160	1791.746	1796.916	1799.402	1803.186	1854.732
3.0	1721.874	1729.156	1753.488	1777.556	1796.454	1804.660	1807.256	1808.730	1810.754	1854.468
5.0	1690.524	1705.638	1738.176	1762.068	1774.872	1783.188	1787.786	1791.746	1795.640	1801.074
7.0	1645.512	1668.018	1694.022	1719.740	1733.754	1741.784	1744.732	1750.166	1757.822	1766.314
9.0	1612.138	1625.426	1656.402	1680.822	1694.660	1689.490	1692.174	1699.918	1723.986	1739.012
11.0	1602.172	1593.614	1605.692	1620.168	1622.192	1614.360	1620.806	1633.984	1651.782	1675.938
13.0	1509.420	1501.390	1508.122	1523.720	1527.306	1519.562	1527.856	1538.460	1566.598	1595.902
15.0	1285.922	1295.954	1325.566	1343.452	1362.900	1396.934	1418.494	1447.732	1480.380	1512.104
17.0	1228.920	1224.410	1238.138	1256.310	1271.336	1293.380	1311.552	1345.102	1384.020	1424.038
19.5	1150.358	1139.028	1135.882	1143.648	1139.754	1149.082	1136.080	1175.812	1223.860	1275.582
22.5	859.188	866.184	872.828	882.882	917.818	945.494	984.038	986.612	1042.206	1101.320
25.5	761.442	750.464	750.090	753.412	763.466	785.422	816.574	812.064	869.594	931.568
29.0	587.356	574.178	570.768	581.834	590.854	602.382	622.490	666.292	718.102	777.106
33.0	389.114	394.174	390.214	394.086	406.450	426.360	457.248	497.640	505.934	561.990
37.5	250.074	253.110	252.186	258.368	270.710	288.046	310.926	341.616	346.874	391.600
42.5	171.314	166.430	165.506	169.290	176.308	181.544	197.406	218.438	245.168	279.114
47.5	107.514	106.678	105.402	107.338	110.374	115.896	113.410	127.886	146.058	168.454
55.0	54.780	53.944	53.108	54.120	55.792	58.828	57.816	65.384	75.064	86.768
65.0	20.284	20.834	20.922	21.582	22.968	24.618	27.016	30.052	31.262	36.058
75.0	8.844	8.844	8.756	9.218	9.416	9.856	10.780	11.902	12.364	14.190
85.0	0.000	0.000	0.000	0.000	0.176	0.176	0.374	0.550	0.924	1.650
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	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240
1.0	1856.206	1857.878	1859.154	1861.178	1863.488	1864.610	1865.512	1866.172	1867.360
3.0	1856.118	1858.340	1860.078	1862.102	1863.686	1865.336	1866.810	1867.184	1867.910
5.0	1839.970	1845.140	1849.100	1853.170	1857.416	1859.440	1861.464	1862.212	1863.488
7.0	1801.712	1810.754	1819.686	1828.552	1834.998	1840.080	1843.666	1846.064	1848.374
9.0	1755.050	1769.988	1784.288	1796.366	1807.432	1815.264	1821.622	1825.780	1827.892
11.0	1698.444	1720.290	1740.398	1759.582	1773.508	1785.850	1795.816	1802.086	1804.858
13.0	1625.976	1655.390	1682.956	1709.422	1731.092	1746.668	1760.770	1768.800	1771.286
15.0	1546.666	1579.490	1610.488	1647.646	1674.552	1699.544	1718.552	1730.718	1741.960
17.0	1466.454	1507.572	1542.706	1586.684	1623.380	1652.992	1673.540	1689.402	1695.496
19.5	1331.638	1387.144	1440.538	1493.184	1536.986	1570.822	1599.598	1616.384	1618.034
22.5	1166.418	1230.680	1294.018	1357.554	1409.012	1454.002	1490.148	1513.116	1519.936
25.5	999.152	1070.520	1141.800	1213.894	1275.868	1325.654	1367.520	1393.238	1400.608
29.0	809.754	883.344	959.772	1034.836	1099.384	1160.060	1209.296	1239.722	1254.374
33.0	627.000	697.532	769.098	845.350	914.694	973.236	1021.460	1053.360	1062.578
37.5	445.368	505.296	569.932	637.978	698.456	756.360	803.308	833.646	842.952
42.5	320.144	362.648	411.246	463.606	494.868	545.688	587.818	614.658	627.550
47.5	196.394	228.756	265.452	305.470	344.476	379.346	410.498	430.606	435.578
55.0	101.530	118.954	139.040	160.996	182.006	203.588	221.760	234.014	238.634
65.0	42.042	49.060	57.266	66.572	75.878	85.470	93.412	98.934	101.068
75.0	16.236	18.810	21.758	25.256	28.578	31.900	34.936	36.982	37.620
85.0	2.574	3.696	4.620	5.082	5.434	5.808	6.182	6.644	6.820
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	570.31	N.A.	31.20
0-30	1022.19	N.A.	55.90
0-40	1349.15	N.A.	73.80
0-60	1704.99	N.A.	93.20
0-80	1816.54	N.A.	99.30
0-90	1828.65	N.A.	100.00
10-90	1690.49	N.A.	92.40
20-40	778.84	N.A.	42.60
20-50	1027.8	N.A.	56.20
40-70	433.15	N.A.	23.70
60-80	111.54	N.A.	6.10
70-80	34.24	N.A.	1.90
80-90	12.11	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	1828.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	138.16
10-20	432.15
20-30	451.88
30-40	326.96
40-50	248.95
50-60	106.89
60-70	77.30
70-80	34.24
80-90	12.11
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

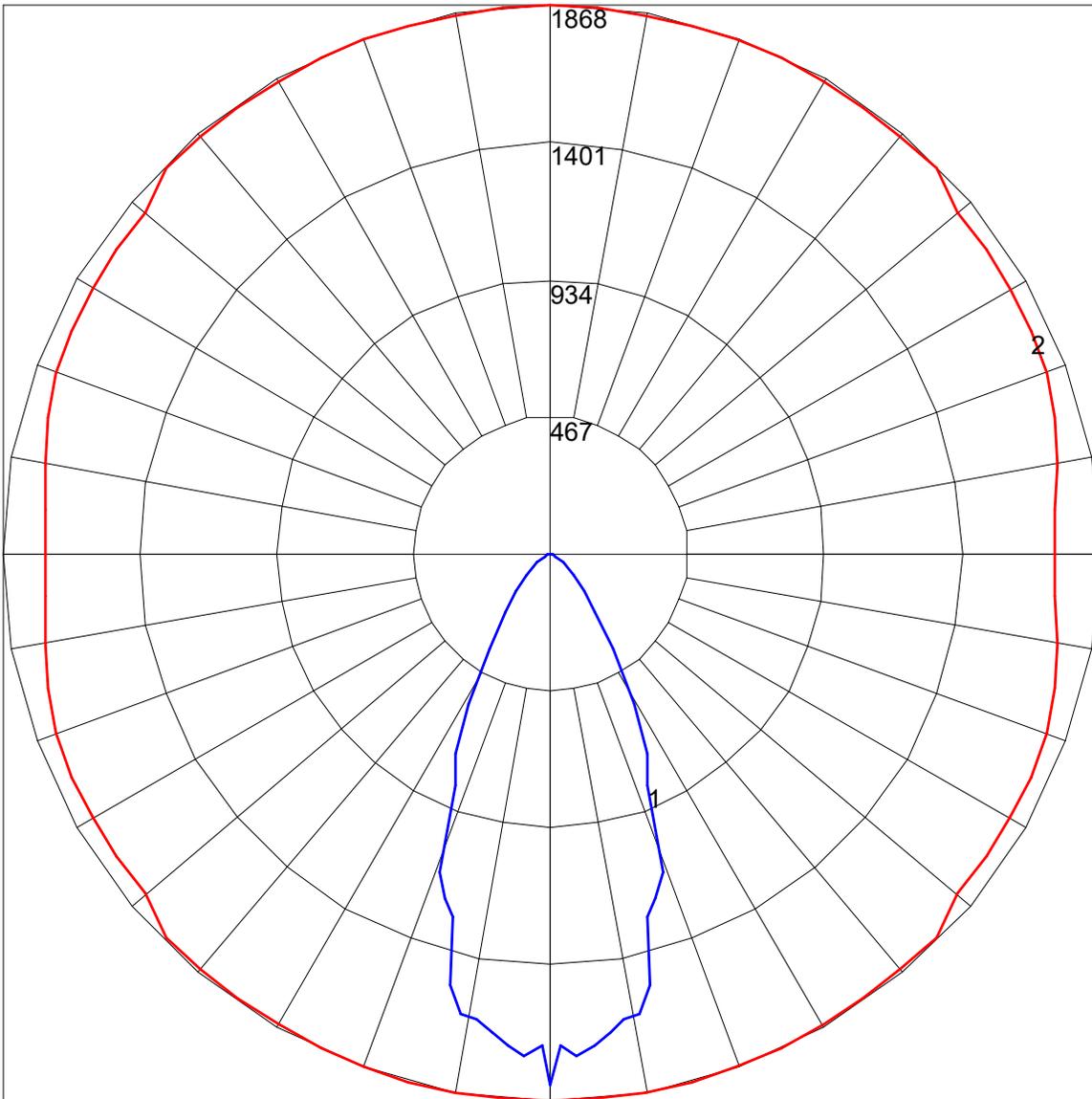
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	69	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	50	48
9	69	58	51	47	68	57	51	47	56	51	47	56	50	46	55	50	46	45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42

POLAR GRAPH



Maximum Candela = 1867.91 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.)