

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	44	46	47	48
Total Lumens, 4' rail length (1219mm)	2163	2232	2277	2323
Lumens per foot (305mm)	541	558	569	581
Input Power (W), 4' rail length (1219mm)	49.2	49.2	49.2	49.2
Watts per foot (305mm)	12.4	12.4	12.4	12.4
CRI	85	85	85	85

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] L071704212 (SOURCE REPORT FOR REFERENCE)  
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
 [ISSUEDATE] 11/1/2017  
 [MANUFAC] Vode Lighting  
 [LUMCAT] 107-BX-48-Z-HO-35-S2-BL  
 [LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,  
 [MORE] 60° black symmetric lens, high output  
 [TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2279
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
Total Luminaire Watts	49.22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.78
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.02 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28813	57403	156798
55	14319	28086	87013
65	8222	16443	45593
75	6102	10984	25630
85	0	3624	14497

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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>
<b>0.0</b>	2054.25	2054.25	2054.25	2054.25	2054.25	2054.25	2054.25	2054.25	2054.25	2054.25
<b>1.0</b>	2047.50	2045.25	2045.25	2047.50	2049.75	2049.75	2052.00	2052.00	2052.00	2052.00
<b>3.0</b>	2045.25	2045.25	2043.00	2038.50	2038.50	2040.75	2045.25	2045.25	2047.50	2047.50
<b>5.0</b>	2045.25	2040.75	2029.50	2020.50	2016.00	2022.75	2025.00	2027.25	2029.50	2031.75
<b>7.0</b>	2011.50	2009.25	1995.75	1977.75	1971.00	1975.50	1982.25	1986.75	1993.50	1998.00
<b>9.0</b>	1946.25	1935.00	1917.00	1899.00	1903.50	1914.75	1926.00	1932.75	1944.00	1955.25
<b>11.0</b>	1876.50	1874.25	1842.75	1827.00	1818.00	1840.50	1849.50	1865.25	1883.25	1896.75
<b>13.0</b>	1784.25	1761.75	1741.50	1723.50	1719.00	1732.50	1757.25	1784.25	1802.25	1827.00
<b>15.0</b>	1660.50	1640.25	1604.25	1597.50	1602.00	1626.75	1660.50	1687.50	1723.50	1750.50
<b>17.0</b>	1550.25	1539.00	1496.25	1469.25	1482.75	1521.00	1554.75	1593.00	1626.75	1667.25
<b>19.5</b>	1368.00	1356.75	1314.00	1302.75	1305.00	1336.50	1386.00	1433.25	1485.00	1532.25
<b>22.5</b>	1152.00	1131.75	1093.50	1080.00	1102.50	1143.00	1192.50	1248.75	1309.50	1372.50
<b>25.5</b>	942.75	911.25	884.25	861.75	902.25	945.00	990.00	1053.00	1122.75	1188.00
<b>29.0</b>	706.50	697.50	672.75	659.25	681.75	722.25	774.00	837.00	913.50	981.00
<b>33.0</b>	490.50	479.25	459.00	456.75	479.25	517.50	560.25	616.50	684.00	758.25
<b>37.5</b>	310.50	310.50	290.25	290.25	310.50	337.50	373.50	416.25	472.50	537.75
<b>42.5</b>	180.00	182.25	175.50	173.25	186.75	207.00	229.50	261.00	301.50	353.25
<b>47.5</b>	110.25	105.75	103.50	105.75	112.50	126.00	141.75	164.25	191.25	225.00
<b>55.0</b>	58.50	56.25	54.00	54.00	58.50	65.25	72.00	83.25	96.75	114.75
<b>65.0</b>	24.75	24.75	24.75	24.75	27.00	29.25	31.50	36.00	40.50	49.50
<b>75.0</b>	11.25	11.25	11.25	11.25	11.25	11.25	13.50	15.75	15.75	20.25
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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>
<b>0.0</b>	2054.25	2054.25	2054.25	2054.25	2054.25	2054.25	2054.25	2054.25	2054.25
<b>1.0</b>	2052.00	2052.00	2052.00	2054.25	2054.25	2054.25	2054.25	2054.25	2052.00
<b>3.0</b>	2049.75	2049.75	2049.75	2052.00	2052.00	2052.00	2054.25	2052.00	2054.25
<b>5.0</b>	2034.00	2036.25	2038.50	2040.75	2043.00	2045.25	2047.50	2047.50	2049.75
<b>7.0</b>	2004.75	2009.25	2016.00	2020.50	2025.00	2029.50	2034.00	2036.25	2038.50
<b>9.0</b>	1966.50	1977.75	1989.00	1998.00	2007.00	2013.75	2018.25	2022.75	2022.75
<b>11.0</b>	1914.75	1930.50	1946.25	1962.00	1973.25	1984.50	1995.75	2000.25	2002.50
<b>13.0</b>	1849.50	1874.25	1899.00	1919.25	1937.25	1953.00	1966.50	1973.25	1975.50
<b>15.0</b>	1784.25	1815.75	1847.25	1876.50	1903.50	1921.50	1937.25	1946.25	1950.75
<b>17.0</b>	1707.75	1748.25	1786.50	1822.50	1854.00	1878.75	1899.00	1912.50	1914.75
<b>19.5</b>	1588.50	1640.25	1689.75	1737.00	1779.75	1813.50	1840.50	1856.25	1863.00
<b>22.5</b>	1435.50	1500.75	1568.25	1631.25	1685.25	1730.25	1761.75	1784.25	1791.00
<b>25.5</b>	1269.00	1350.00	1426.50	1500.75	1566.00	1622.25	1665.00	1689.75	1698.75
<b>29.0</b>	1068.75	1158.75	1248.75	1338.75	1417.50	1482.75	1532.25	1563.75	1572.75
<b>33.0</b>	841.50	938.25	1039.50	1136.25	1224.00	1298.25	1359.00	1392.75	1404.00
<b>37.5</b>	618.75	704.25	798.75	897.75	990.00	1068.75	1134.00	1172.25	1185.75
<b>42.5</b>	416.25	483.75	562.50	652.50	722.25	805.50	866.25	904.50	915.75
<b>47.5</b>	267.75	321.75	380.25	445.50	510.75	571.50	618.75	650.25	663.75
<b>55.0</b>	137.25	164.25	195.75	231.75	265.50	301.50	330.75	348.75	355.50
<b>65.0</b>	56.25	67.50	78.75	92.25	105.75	117.00	128.25	135.00	137.25
<b>75.0</b>	22.50	24.75	29.25	33.75	38.25	40.50	45.00	47.25	47.25
<b>85.0</b>	2.25	4.50	6.75	6.75	6.75	9.00	9.00	9.00	9.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	653.55	N.A.	28.70
0-30	1205.4	N.A.	52.90
0-40	1630.07	N.A.	71.50
0-60	2113.06	N.A.	92.70
0-80	2263.32	N.A.	99.30
0-90	2279.01	N.A.	100.00
10-90	2123.3	N.A.	93.20
20-40	976.52	N.A.	42.80
20-50	1312.32	N.A.	57.60
40-70	588.03	N.A.	25.80
60-80	150.27	N.A.	6.60
70-80	45.22	N.A.	2.00
80-90	15.69	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	2279.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	155.71
10-20	497.84
20-30	551.85
30-40	424.67
40-50	335.80
50-60	147.18
60-70	105.05
70-80	45.22
80-90	15.69
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

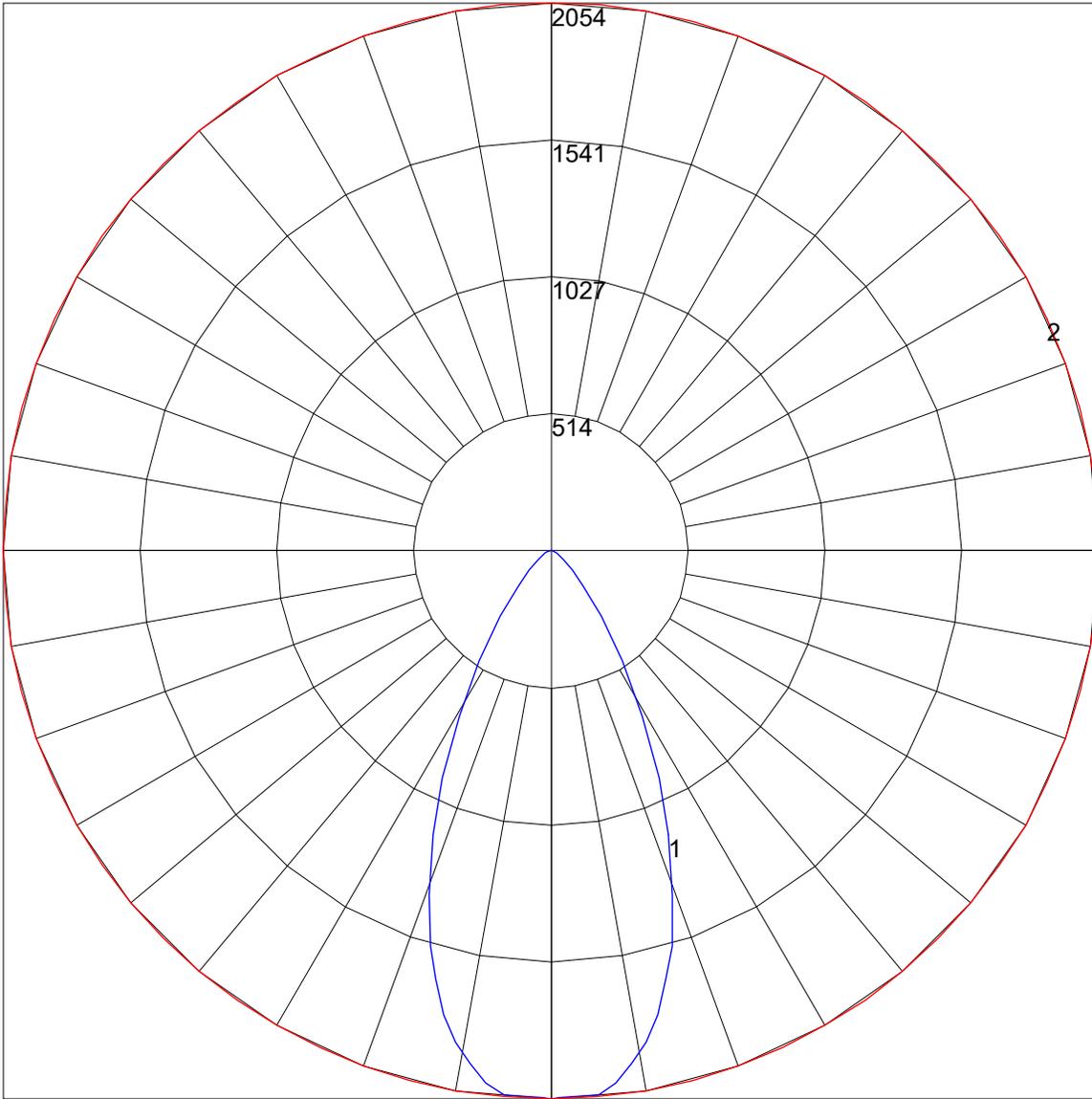
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	63	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50
8	72	61	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	66	56	49	45	55	49	45	54	49	45	53	48	44	43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40

POLAR GRAPH



Maximum Candela = 2054.25 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)