



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_HO\_359\_1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L101701701 (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-359-1  
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] diffuse lens, high output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3912
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	49.22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 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	36780	44230	51303
55	27438	35227	43714
65	20513	27140	36134
75	15459	20354	29888
85	8416	11477	25249

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</b>	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6
<b>5</b>	1873.4	1873.4	1873.4	1873.4	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3
<b>10</b>	1825.9	1825.9	1825.9	1827.8	1827.8	1829.7	1829.7	1831.6	1833.5	1835.4
<b>15</b>	1742.3	1742.3	1744.2	1746.1	1748.0	1751.8	1753.7	1757.5	1761.3	1767.0
<b>20</b>	1624.5	1626.4	1628.3	1632.1	1635.9	1641.6	1647.3	1654.9	1662.5	1668.2
<b>25</b>	1476.3	1476.3	1480.1	1485.8	1493.4	1501.0	1510.5	1521.9	1533.3	1546.6
<b>30</b>	1301.5	1303.4	1307.2	1314.8	1324.3	1335.7	1350.9	1366.1	1381.3	1398.4
<b>35</b>	1113.4	1115.3	1121.0	1130.5	1141.9	1157.1	1174.2	1193.2	1214.1	1235.0
<b>40</b>	921.5	923.4	931.0	940.5	953.8	972.8	991.8	1014.6	1039.3	1062.1
<b>45</b>	741.0	742.9	750.5	760.0	775.2	792.3	813.2	837.9	864.5	891.1
<b>50</b>	583.3	585.2	590.9	600.4	613.7	630.8	649.8	672.6	699.2	725.8
<b>55</b>	448.4	448.4	454.1	461.7	475.0	488.3	507.3	528.2	551.0	575.7
<b>60</b>	336.3	338.2	342.0	347.7	357.2	370.5	383.8	400.9	421.8	442.7
<b>65</b>	247.0	247.0	250.8	254.6	262.2	271.7	281.2	294.5	311.6	326.8
<b>70</b>	172.9	174.8	174.8	178.6	182.4	190.0	197.6	207.1	218.5	229.9
<b>75</b>	114.0	114.0	115.9	117.8	119.7	123.5	127.3	134.9	142.5	150.1
<b>80</b>	64.6	64.6	64.6	66.5	66.5	68.4	70.3	74.1	77.9	83.6
<b>85</b>	20.9	20.9	20.9	20.9	22.8	22.8	24.7	24.7	26.6	28.5
<b>90</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. 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</b>	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6
<b>5</b>	1877.2	1877.2	1877.2	1877.2	1877.2	1877.2	1879.1	1879.1	1879.1
<b>10</b>	1837.3	1839.2	1839.2	1841.1	1843.0	1843.0	1844.9	1844.9	1844.9
<b>15</b>	1770.8	1774.6	1778.4	1780.3	1784.1	1786.0	1787.9	1787.9	1789.8
<b>20</b>	1677.7	1683.4	1691.0	1696.7	1700.5	1704.3	1708.1	1710.0	1710.0
<b>25</b>	1558.0	1567.5	1578.9	1586.5	1596.0	1601.7	1605.5	1609.3	1609.3
<b>30</b>	1415.5	1430.7	1444.0	1457.3	1468.7	1476.3	1482.0	1485.8	1487.7
<b>35</b>	1255.9	1274.9	1292.0	1309.1	1322.4	1333.8	1341.4	1347.1	1349.0
<b>40</b>	1086.8	1109.6	1130.5	1149.5	1164.7	1178.0	1187.5	1193.2	1195.1
<b>45</b>	917.7	942.4	963.3	984.2	1001.3	1014.6	1024.1	1031.7	1033.6
<b>50</b>	752.4	779.0	801.8	822.7	837.9	853.1	862.6	868.3	870.2
<b>55</b>	600.4	625.1	647.9	666.9	684.0	697.3	706.8	712.5	714.4
<b>60</b>	465.5	486.4	507.3	526.3	541.5	552.9	560.5	566.2	568.1
<b>65</b>	345.8	364.8	381.9	399.0	412.3	423.7	429.4	433.2	435.1
<b>70</b>	245.1	260.3	273.6	286.9	298.3	307.8	313.5	317.3	319.2
<b>75</b>	159.6	171.0	182.4	191.9	201.4	209.0	214.7	218.5	220.4
<b>80</b>	89.3	95.0	102.6	110.2	117.8	123.5	129.2	133.0	133.0
<b>85</b>	32.3	34.2	38.0	43.7	49.4	53.2	57.0	60.8	62.7
<b>90</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	674.47	N.A.	17.20
0-30	1383.58	N.A.	35.40
0-40	2153.36	N.A.	55.00
0-60	3361.48	N.A.	85.90
0-80	3868.09	N.A.	98.90
0-90	3911.68	N.A.	100.00
10-90	3733.9	N.A.	95.50
20-40	1478.9	N.A.	37.80
20-50	2166.07	N.A.	55.40
40-70	1543.85	N.A.	39.50
60-80	506.62	N.A.	13.00
70-80	170.88	N.A.	4.40
80-90	43.58	N.A.	1.10
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	3911.68	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	177.77
10-20	496.69
20-30	709.11
30-40	769.78
40-50	687.17
50-60	520.94
60-70	335.73
70-80	170.88
80-90	43.58
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

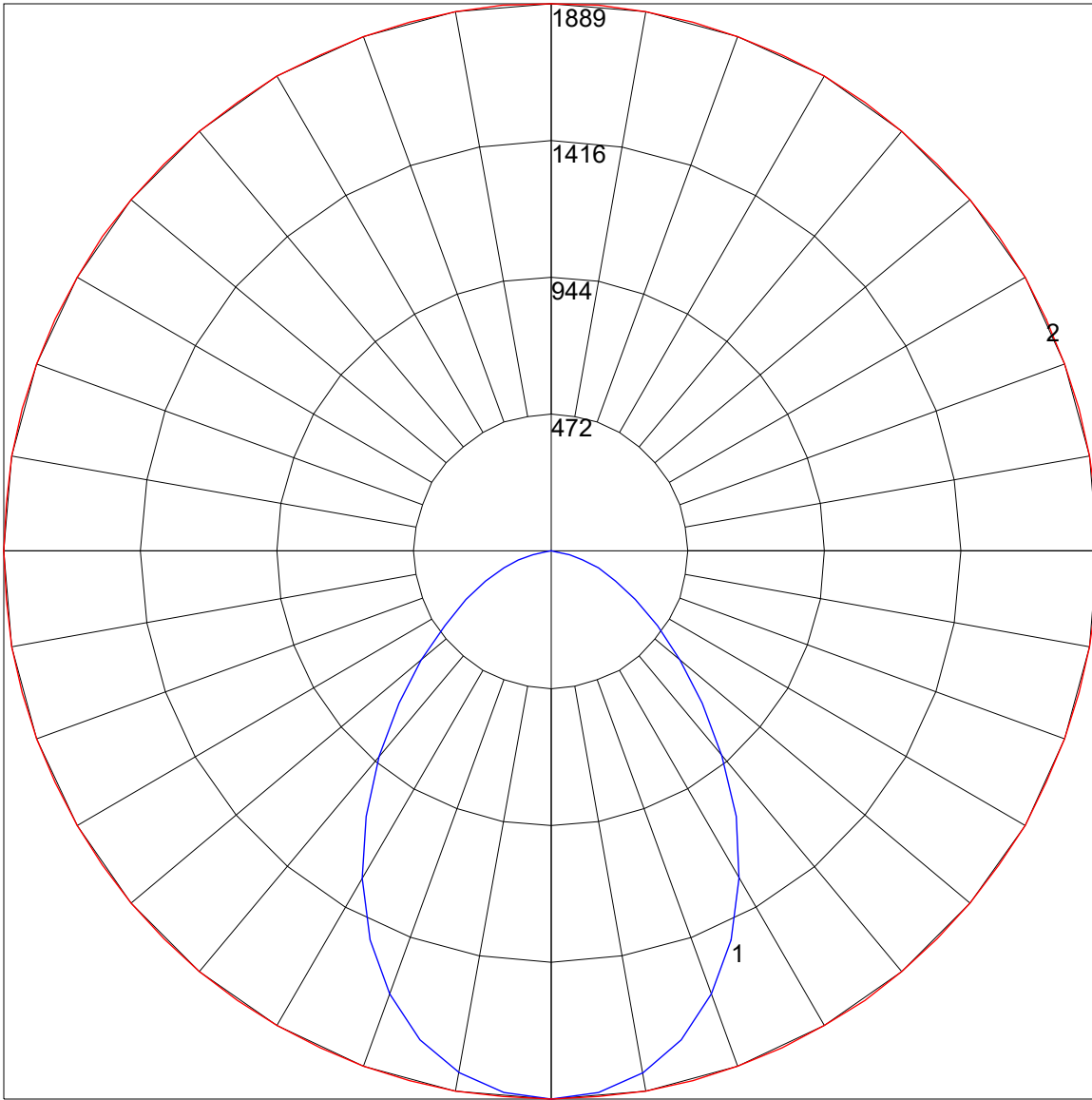
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	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	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	37	32	43	36	32	42	36	31	41	35	31	30

POLAR GRAPH



Maximum Candela = 1888.6 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.)