

**IES Report**

**BoxRail® | 107 | Diffuse | 90 CRI | HO**

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	86	89	91	92
Total Lumens, 4' rail length (1219mm)	4209	4342	4431	4475
Lumens per foot (305mm)	1052	1086	1108	1119
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	94	94	94	94

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\_359\_1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L121911506 (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-359-1-AL  
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, diffuse 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	4430
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.07 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	46009	57619	68262
55	32336	44396	57913
65	23562	32915	47124
75	18503	24083	37886
85	12210	15699	32270

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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</b>	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1
<b>5</b>	2114.7	2114.7	2114.7	2114.7	2114.7	2114.7	2114.7	2114.7	2114.7	2116.6
<b>10</b>	2071.0	2071.0	2071.0	2072.9	2072.9	2072.9	2074.8	2074.8	2076.7	2076.7
<b>15</b>	1991.2	1991.2	1991.2	1993.1	1995.0	1996.9	2000.7	2004.5	2006.4	2010.2
<b>20</b>	1869.6	1871.5	1873.4	1875.3	1881.0	1884.8	1892.4	1898.1	1905.7	1911.4
<b>25</b>	1704.3	1706.2	1710.0	1715.7	1725.2	1732.8	1744.2	1755.6	1768.9	1780.3
<b>30</b>	1502.9	1506.7	1512.4	1520.0	1533.3	1546.6	1563.7	1582.7	1599.8	1618.8
<b>35</b>	1276.8	1278.7	1286.3	1297.7	1312.9	1333.8	1354.7	1379.4	1406.0	1430.7
<b>40</b>	1037.4	1041.2	1048.8	1062.1	1083.0	1107.7	1134.3	1164.7	1197.0	1227.4
<b>45</b>	813.2	817.0	824.6	837.9	858.8	885.4	913.9	948.1	984.2	1018.4
<b>50</b>	621.3	623.2	630.8	644.1	661.2	684.0	712.5	744.8	780.9	818.9
<b>55</b>	463.6	467.4	473.1	482.6	497.8	518.7	541.5	570.0	602.3	636.5
<b>60</b>	342.0	343.9	349.6	357.2	368.6	381.9	400.9	423.7	450.3	478.8
<b>65</b>	248.9	250.8	252.7	258.4	266.0	275.5	288.8	305.9	324.9	347.7
<b>70</b>	176.7	176.7	178.6	180.5	186.2	191.9	199.5	210.9	224.2	239.4
<b>75</b>	119.7	119.7	119.7	121.6	123.5	127.3	131.1	136.8	144.4	155.8
<b>80</b>	70.3	70.3	70.3	70.3	72.2	74.1	76.0	77.9	81.7	87.4
<b>85</b>	26.6	26.6	28.5	28.5	28.5	28.5	30.4	30.4	32.3	34.2
<b>90</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**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</b>	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1	2126.1
<b>5</b>	2116.6	2116.6	2116.6	2116.6	2118.5	2116.6	2116.6	2116.6	2118.5
<b>10</b>	2078.6	2080.5	2082.4	2082.4	2084.3	2084.3	2084.3	2084.3	2084.3
<b>15</b>	2012.1	2015.9	2019.7	2023.5	2023.5	2025.4	2027.3	2027.3	2027.3
<b>20</b>	1919.0	1924.7	1930.4	1936.1	1939.9	1943.7	1945.6	1945.6	1947.5
<b>25</b>	1791.7	1803.1	1812.6	1822.1	1829.7	1833.5	1837.3	1841.1	1841.1
<b>30</b>	1637.8	1654.9	1670.1	1681.5	1692.9	1700.5	1708.1	1710.0	1711.9
<b>35</b>	1457.3	1480.1	1501.0	1520.0	1533.3	1546.6	1554.2	1558.0	1561.8
<b>40</b>	1259.7	1288.2	1314.8	1337.6	1356.6	1369.9	1381.3	1387.0	1388.9
<b>45</b>	1054.5	1088.7	1119.1	1145.7	1166.6	1183.7	1197.0	1202.7	1206.5
<b>50</b>	856.9	893.0	923.4	951.9	974.7	993.7	1005.1	1014.6	1016.5
<b>55</b>	672.6	706.8	739.1	767.6	790.4	807.5	820.8	828.4	830.3
<b>60</b>	511.1	541.5	571.9	598.5	619.4	634.6	647.9	653.6	655.5
<b>65</b>	372.4	399.0	423.7	446.5	465.5	480.7	490.2	495.9	497.8
<b>70</b>	258.4	277.4	298.3	317.3	332.5	345.8	353.4	359.1	359.1
<b>75</b>	167.2	180.5	195.7	209.0	222.3	231.8	239.4	243.2	245.1
<b>80</b>	93.1	100.7	110.2	119.7	129.2	136.8	142.5	146.3	146.3
<b>85</b>	36.1	39.9	43.7	49.4	55.1	60.8	64.6	68.4	70.3
<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	766.27	N.A.	17.30
0-30	1582.07	N.A.	35.70
0-40	2470.97	N.A.	55.80
0-60	3834.86	N.A.	86.60
0-80	4381.24	N.A.	98.90
0-90	4430.17	N.A.	100.00
10-90	4229.44	N.A.	95.50
20-40	1704.7	N.A.	38.50
20-50	2488.86	N.A.	56.20
40-70	1727.56	N.A.	39.00
60-80	546.39	N.A.	12.30
70-80	182.71	N.A.	4.10
80-90	48.93	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	4430.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	200.74
10-20	565.53
20-30	815.80
30-40	888.91
40-50	784.16
50-60	579.72
60-70	363.68
70-80	182.71
80-90	48.93
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

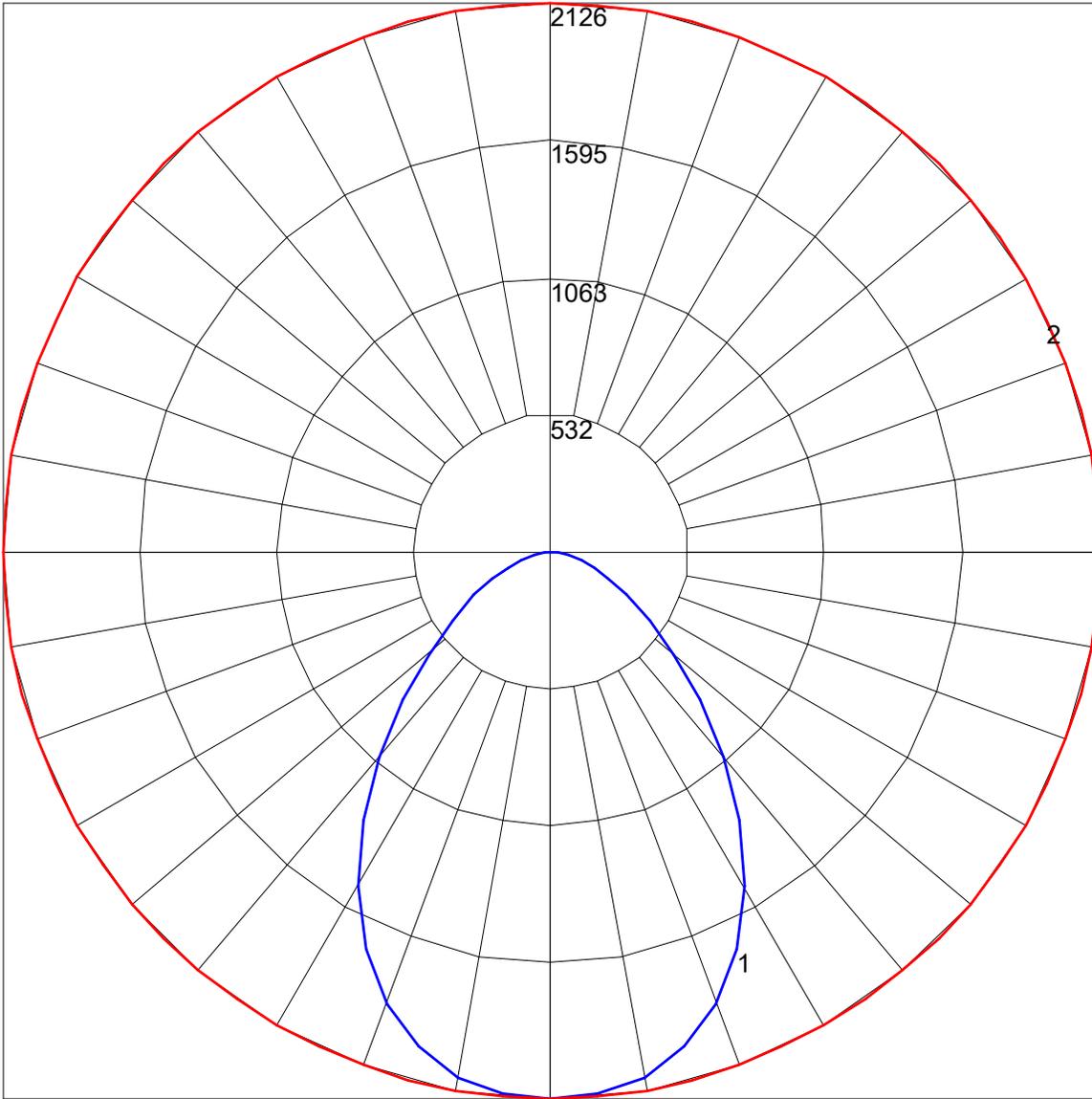
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

POLAR GRAPH



Maximum Candela = 2126.1 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)