

**IES Report**

**BoxRail® | 107 | 60° Symmetric | 90 CRI | HO**

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-S2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	51	53	54	55
Total Lumens, 4' rail length (1219mm)	2503	2582	2635	2687
Lumens per foot (305mm)	626	646	659	672
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	96	96	96	96

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\_S2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L071704209 (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-S2-AL/WH  
 [LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,  
 [MORE] 60° white 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	2637
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	49.22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.00
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.02 ft
Luminous Width (90-270)	3.85 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	44447	85830	161314
55	32121	53378	111952
65	27567	37825	77573
75	25124	30358	54435
85	0	12435	31087

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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>	1862.40	1862.40	1862.40	1862.40	1862.40	1862.40	1862.40	1862.40	1862.40	1862.40
<b>5</b>	1844.94	1846.88	1839.12	1839.12	1839.12	1841.06	1843.00	1844.94	1846.88	1848.82
<b>10</b>	1755.70	1763.46	1751.82	1749.88	1753.76	1759.58	1767.34	1775.10	1780.92	1788.68
<b>15</b>	1583.04	1602.44	1586.92	1588.86	1600.50	1614.08	1629.60	1647.06	1664.52	1683.92
<b>20</b>	1317.26	1356.06	1344.42	1359.94	1379.34	1404.56	1431.72	1462.76	1495.74	1526.78
<b>25</b>	1043.72	1078.64	1070.88	1084.46	1109.68	1144.60	1183.40	1228.02	1276.52	1326.96
<b>30</b>	723.62	783.76	783.76	803.16	832.26	871.06	917.62	970.00	1028.20	1090.28
<b>35</b>	500.52	539.32	543.20	558.72	585.88	620.80	663.48	717.80	779.88	845.84
<b>40</b>	327.86	358.90	360.84	374.42	395.76	422.92	457.84	504.40	558.72	618.86
<b>45</b>	225.04	244.44	248.32	258.02	271.60	291.00	316.22	349.20	388.00	434.56
<b>50</b>	170.72	180.42	182.36	186.24	195.94	207.58	223.10	244.44	271.60	304.58
<b>55</b>	131.92	137.74	139.68	141.62	147.44	155.20	164.90	178.48	195.94	219.22
<b>60</b>	104.76	108.64	110.58	112.52	114.46	120.28	126.10	133.86	143.56	157.14
<b>65</b>	83.42	85.36	87.30	87.30	89.24	93.12	95.06	100.88	106.70	114.46
<b>70</b>	65.96	65.96	65.96	67.90	67.90	69.84	71.78	73.72	77.60	81.48
<b>75</b>	46.56	46.56	46.56	48.50	48.50	48.50	50.44	52.38	52.38	56.26
<b>80</b>	29.10	29.10	29.10	29.10	29.10	29.10	31.04	31.04	31.04	32.98
<b>85</b>	0.00	0.00	0.00	0.00	1.94	1.94	1.94	3.88	5.82	7.76
<b>90</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</b>	1862.40	1862.40	1862.40	1862.40	1862.40	1862.40	1862.40	1862.40	1862.40
<b>5</b>	1850.76	1850.76	1852.70	1854.64	1856.58	1858.52	1858.52	1858.52	1858.52
<b>10</b>	1796.44	1804.20	1810.02	1815.84	1821.66	1827.48	1831.36	1831.36	1831.36
<b>15</b>	1701.38	1716.90	1732.42	1746.00	1757.64	1765.40	1773.16	1777.04	1778.98
<b>20</b>	1559.76	1588.86	1616.02	1643.18	1660.64	1678.10	1689.74	1695.56	1697.50
<b>25</b>	1375.46	1422.02	1464.70	1501.56	1530.66	1553.94	1571.40	1581.10	1583.04
<b>30</b>	1154.30	1216.38	1272.64	1325.02	1363.82	1392.92	1416.20	1425.90	1429.78
<b>35</b>	919.56	991.34	1057.30	1119.38	1165.94	1198.92	1226.08	1239.66	1243.54
<b>40</b>	688.70	760.48	830.32	896.28	946.72	985.52	1014.62	1026.26	1030.14
<b>45</b>	494.70	556.78	620.80	682.88	731.38	770.18	795.40	810.92	816.74
<b>50</b>	347.26	395.76	446.20	498.58	543.20	572.30	603.34	616.92	620.80
<b>55</b>	244.44	277.42	316.22	353.08	389.94	420.98	442.32	455.90	459.78
<b>60</b>	174.60	195.94	221.16	248.32	275.48	298.76	318.16	327.86	331.74
<b>65</b>	126.10	139.68	155.20	174.60	192.06	207.58	223.10	232.80	234.74
<b>70</b>	89.24	97.00	106.70	118.34	129.98	139.68	149.38	157.14	159.08
<b>75</b>	60.14	64.02	69.84	75.66	83.42	89.24	93.12	98.94	100.88
<b>80</b>	34.92	36.86	38.80	42.68	46.56	48.50	50.44	52.38	54.32
<b>85</b>	11.64	13.58	15.52	17.46	17.46	19.40	19.40	19.40	19.40
<b>90</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	644.53	N.A.	24.40
0-30	1249.09	N.A.	47.40
0-40	1793.58	N.A.	68.00
0-60	2414.58	N.A.	91.50
0-80	2622.38	N.A.	99.40
0-90	2637.47	N.A.	100.00
10-90	2462.92	N.A.	93.40
20-40	1149.05	N.A.	43.60
20-50	1532.27	N.A.	58.10
40-70	759.59	N.A.	28.80
60-80	207.81	N.A.	7.90
70-80	69.21	N.A.	2.60
80-90	15.09	N.A.	0.60
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	2637.47	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	174.55
10-20	469.98
20-30	604.56
30-40	544.49
40-50	383.22
50-60	237.77
60-70	138.60
70-80	69.21
80-90	15.09
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

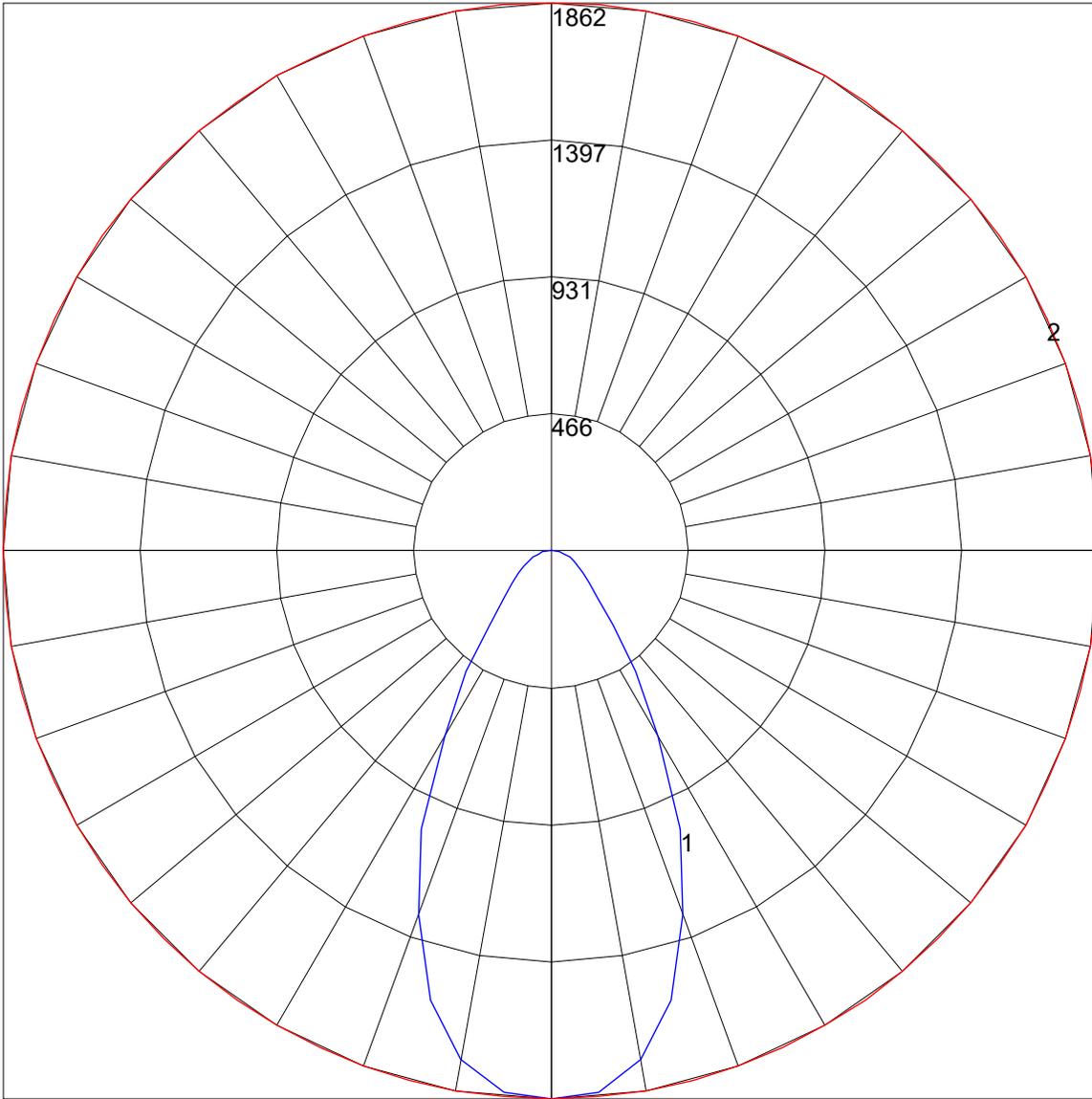
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63
5	84	74	66	61	82	73	66	60	71	65	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

POLAR GRAPH



Maximum Candela = 1862.4 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.)