

IES Report

**BoxRail® | 107 | White Baffle | 80 CRI | HO**

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-WB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	59	61	62	64
Total Lumens, 4' rail length (1219mm)	2898	2990	3051	3112
Lumens per foot (305mm)	725	748	763	778
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](http://vode.com).



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_HO\_35\_WB.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L071704206 (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-WB  
 [LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,  
 [MORE] white baffle, high output  
 [TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3054
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	49.22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	0.76
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 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	12665	26108	20442
55	12464	17120	16436
65	13570	12826	13384
75	6981	7892	9409
85	4507	4507	4507

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_HO\_35\_WB.IES**

**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	2362.50	2362.50	2362.50	2362.50	2362.50	2362.50	2362.50	2362.50	2362.50	2362.50
<b>5</b>	2358.00	2355.75	2353.50	2351.25	2344.50	2337.75	2331.00	2322.00	2313.00	2304.00
<b>10</b>	2333.25	2331.00	2319.75	2304.00	2279.25	2254.50	2227.50	2202.75	2175.75	2151.00
<b>15</b>	2292.75	2286.00	2261.25	2223.00	2180.25	2137.50	2097.00	2054.25	2013.75	1975.50
<b>20</b>	2227.50	2214.00	2171.25	2115.00	2058.75	1998.00	1939.50	1883.25	1822.50	1761.75
<b>25</b>	2135.25	2115.00	2052.00	1984.50	1908.00	1831.50	1755.00	1671.75	1595.25	1525.50
<b>30</b>	2025.00	1995.75	1917.00	1831.50	1737.00	1642.50	1543.50	1449.00	1356.75	1275.75
<b>35</b>	1894.50	1856.25	1764.00	1658.25	1550.25	1435.50	1323.00	1212.75	1107.00	1019.25
<b>40</b>	1129.50	1138.50	1172.25	1217.25	1230.75	1179.00	1077.75	967.50	855.00	753.75
<b>45</b>	256.50	267.75	288.00	315.00	369.00	452.25	558.00	623.25	587.25	528.75
<b>50</b>	225.00	234.00	247.50	263.25	281.25	306.00	335.25	362.25	378.00	389.25
<b>55</b>	204.75	211.50	218.25	229.50	243.00	258.75	274.50	279.00	279.00	281.25
<b>60</b>	193.50	195.75	195.75	198.00	200.25	207.00	209.25	211.50	213.75	213.75
<b>65</b>	164.25	162.00	159.75	155.25	150.75	150.75	150.75	150.75	153.00	155.25
<b>70</b>	105.75	105.75	103.50	99.00	96.75	96.75	96.75	99.00	101.25	103.50
<b>75</b>	51.75	51.75	51.75	51.75	51.75	51.75	54.00	56.25	56.25	58.50
<b>80</b>	27.00	27.00	27.00	24.75	24.75	24.75	24.75	24.75	27.00	27.00
<b>85</b>	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25
<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**

	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>
<b>0</b>	2362.50	2362.50	2362.50	2362.50	2362.50	2362.50	2362.50	2362.50	2362.50
<b>5</b>	2301.75	2288.25	2279.25	2272.50	2265.75	2261.25	2259.00	2256.75	2256.75
<b>10</b>	2137.50	2112.75	2090.25	2074.50	2063.25	2052.00	2045.25	2040.75	2038.50
<b>15</b>	1944.00	1905.75	1869.75	1840.50	1818.00	1797.75	1784.25	1775.25	1773.00
<b>20</b>	1705.50	1665.00	1606.50	1568.25	1536.75	1512.00	1494.00	1485.00	1480.50
<b>25</b>	1458.00	1397.25	1338.75	1291.50	1251.00	1219.50	1197.00	1183.50	1179.00
<b>30</b>	1201.50	1125.00	1062.00	1008.00	963.00	929.25	904.50	888.75	884.25
<b>35</b>	929.25	841.50	780.75	722.25	677.25	648.00	627.75	618.75	614.25
<b>40</b>	661.50	598.50	567.00	546.75	531.00	519.75	510.75	506.25	504.00
<b>45</b>	499.50	477.00	461.25	447.75	434.25	425.25	418.50	416.25	414.00
<b>50</b>	387.00	378.00	369.00	360.00	353.25	346.50	342.00	337.50	337.50
<b>55</b>	285.75	288.00	288.00	283.50	279.00	276.75	274.50	272.25	270.00
<b>60</b>	216.00	216.00	218.25	218.25	218.25	218.25	216.00	216.00	213.75
<b>65</b>	157.50	157.50	159.75	162.00	162.00	164.25	164.25	162.00	162.00
<b>70</b>	105.75	108.00	110.25	112.50	112.50	114.75	114.75	114.75	114.75
<b>75</b>	60.75	65.25	65.25	67.50	69.75	69.75	72.00	72.00	69.75
<b>80</b>	29.25	29.25	31.50	33.75	33.75	33.75	36.00	36.00	36.00
<b>85</b>	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_HO\_35\_WB.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	776.32	N.A.	25.40
0-30	1501.36	N.A.	49.20
0-40	2187.14	N.A.	71.60
0-60	2815.86	N.A.	92.20
0-80	3039.56	N.A.	99.50
0-90	3053.65	N.A.	100.00
10-90	2837.75	N.A.	92.90
20-40	1410.81	N.A.	46.20
20-50	1800.42	N.A.	59.00
40-70	784.99	N.A.	25.70
60-80	223.70	N.A.	7.30
70-80	67.44	N.A.	2.20
80-90	14.09	N.A.	0.50
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	3053.65	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	215.90
10-20	560.43
20-30	725.04
30-40	685.78
40-50	389.60
50-60	239.12
60-70	156.26
70-80	67.44
80-90	14.09
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

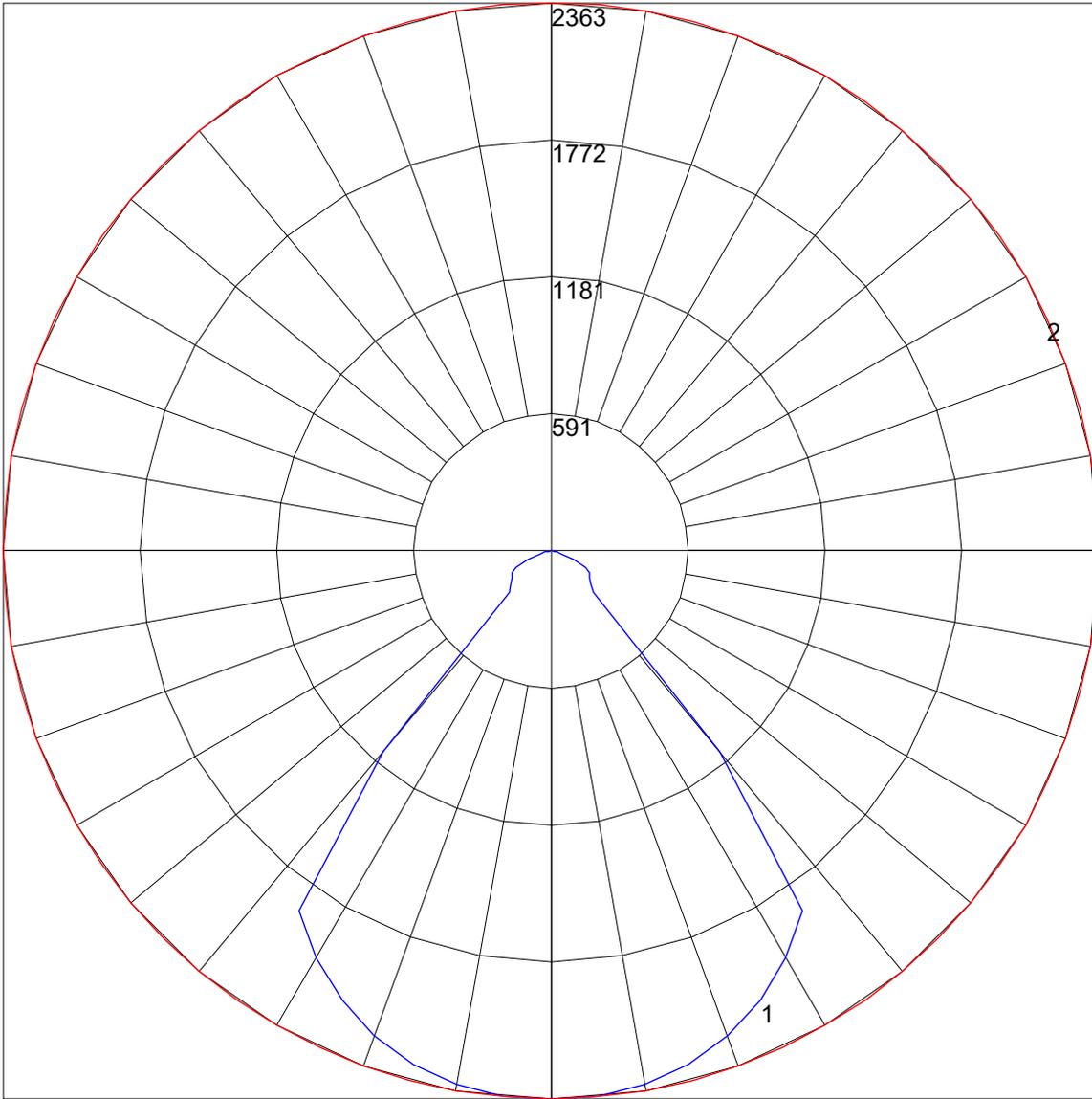
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_HO\_35\_WB.IES**

**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	100	102	99	97	98	96	94	94	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	67	55	48	44	65	55	48	43	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

POLAR GRAPH



Maximum Candela = 2362.5 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.)