

## 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	57	59	60	61
Total Lumens, 4' rail length (1219mm)	2789	2877	2936	2965
Lumens per foot (305mm)	697	719	734	741
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	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] L121911510 (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-S2-AL

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, 60° white symmetric 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	2935
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	0.96
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.02 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	60575	94814	174201
55	43137	63546	125700
65	35882	47843	90021
75	31866	38033	64759
85	0	18315	39683

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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>	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6
<b>5</b>	2099.5	2097.6	2097.6	2097.6	2097.6	2097.6	2095.7	2103.3	2109.0	2112.8
<b>10</b>	1991.2	1981.7	1983.6	1983.6	1985.5	1985.5	1989.3	2006.4	2021.6	2033.0
<b>15</b>	1789.8	1770.8	1774.6	1780.3	1787.9	1791.7	1805.0	1839.2	1871.5	1894.3
<b>20</b>	1501.0	1476.3	1485.8	1495.3	1504.8	1516.2	1539.0	1588.4	1643.5	1692.9
<b>25</b>	1170.4	1140.0	1153.3	1166.6	1185.6	1204.6	1240.7	1303.4	1375.6	1434.5
<b>30</b>	856.9	830.3	843.6	858.8	883.5	904.4	938.6	1005.1	1084.9	1153.3
<b>35</b>	604.2	583.3	594.7	609.9	623.2	644.1	678.3	739.1	813.2	887.3
<b>40</b>	425.6	412.3	419.9	431.3	448.4	463.6	488.3	533.9	594.7	655.5
<b>45</b>	305.9	296.4	304.0	311.6	321.1	332.5	351.5	387.6	431.3	478.8
<b>50</b>	228.0	222.3	226.1	231.8	239.4	247.0	260.3	283.1	315.4	349.6
<b>55</b>	176.7	172.9	174.8	178.6	184.3	188.1	197.6	214.7	233.7	260.3
<b>60</b>	138.7	136.8	138.7	140.6	144.4	148.2	153.9	163.4	176.7	193.8
<b>65</b>	108.3	106.4	108.3	110.2	112.1	114.0	117.8	123.5	133.0	144.4
<b>70</b>	81.7	81.7	81.7	83.6	83.6	85.5	87.4	93.1	96.9	104.5
<b>75</b>	58.9	57.0	58.9	58.9	58.9	60.8	60.8	62.7	66.5	70.3
<b>80</b>	36.1	36.1	36.1	36.1	36.1	36.1	36.1	38.0	39.9	41.8
<b>85</b>	0.0	0.0	0.0	1.9	1.9	1.9	3.8	3.8	7.6	11.4
<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>	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6
<b>5</b>	2116.6	2118.5	2120.4	2122.3	2124.2	2124.2	2126.1	2126.1	2126.1
<b>10</b>	2042.5	2052.0	2061.5	2069.1	2074.8	2078.6	2082.4	2084.3	2084.3
<b>15</b>	1915.2	1936.1	1958.9	1976.0	1989.3	1998.8	2004.5	2010.2	2010.2
<b>20</b>	1734.7	1772.7	1808.8	1839.2	1860.1	1877.2	1888.6	1896.2	1898.1
<b>25</b>	1493.4	1556.1	1609.3	1653.0	1689.1	1715.7	1732.8	1744.2	1748.0
<b>30</b>	1229.3	1301.5	1373.7	1432.6	1482.0	1516.2	1539.0	1554.2	1558.0
<b>35</b>	965.2	1048.8	1122.9	1193.2	1248.3	1290.1	1318.6	1333.8	1339.5
<b>40</b>	725.8	801.8	877.8	950.0	1008.9	1052.6	1083.0	1100.1	1105.8
<b>45</b>	535.8	596.6	665.0	729.6	782.8	826.5	856.9	874.0	879.7
<b>50</b>	391.4	438.9	494.0	545.3	590.9	628.9	657.4	672.6	678.3
<b>55</b>	288.8	323.0	361.0	400.9	438.9	471.2	494.0	507.3	514.9
<b>60</b>	214.7	237.5	266.0	294.5	321.1	343.9	362.9	374.3	378.1
<b>65</b>	157.7	172.9	191.9	210.9	229.9	247.0	260.3	269.8	271.7
<b>70</b>	112.1	121.6	134.9	146.3	159.6	171.0	180.5	186.2	188.1
<b>75</b>	74.1	79.8	87.4	95.0	102.6	108.3	114.0	117.8	119.7
<b>80</b>	43.7	45.6	49.4	53.2	57.0	58.9	62.7	64.6	64.6
<b>85</b>	15.2	17.1	19.0	20.9	20.9	22.8	22.8	24.7	24.7
<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	725.97	N.A.	24.70
0-30	1383.7	N.A.	47.20
0-40	1966.22	N.A.	67.00
0-60	2662.79	N.A.	90.70
0-80	2915.84	N.A.	99.40
0-90	2934.55	N.A.	100.00
10-90	2735.62	N.A.	93.20
20-40	1240.25	N.A.	42.30
20-50	1661.55	N.A.	56.60
40-70	864.44	N.A.	29.50
60-80	253.05	N.A.	8.60
70-80	85.18	N.A.	2.90
80-90	18.71	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	2934.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	198.93
10-20	527.03
20-30	657.73
30-40	582.52
40-50	421.30
50-60	275.28
60-70	167.86
70-80	85.18
80-90	18.71
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

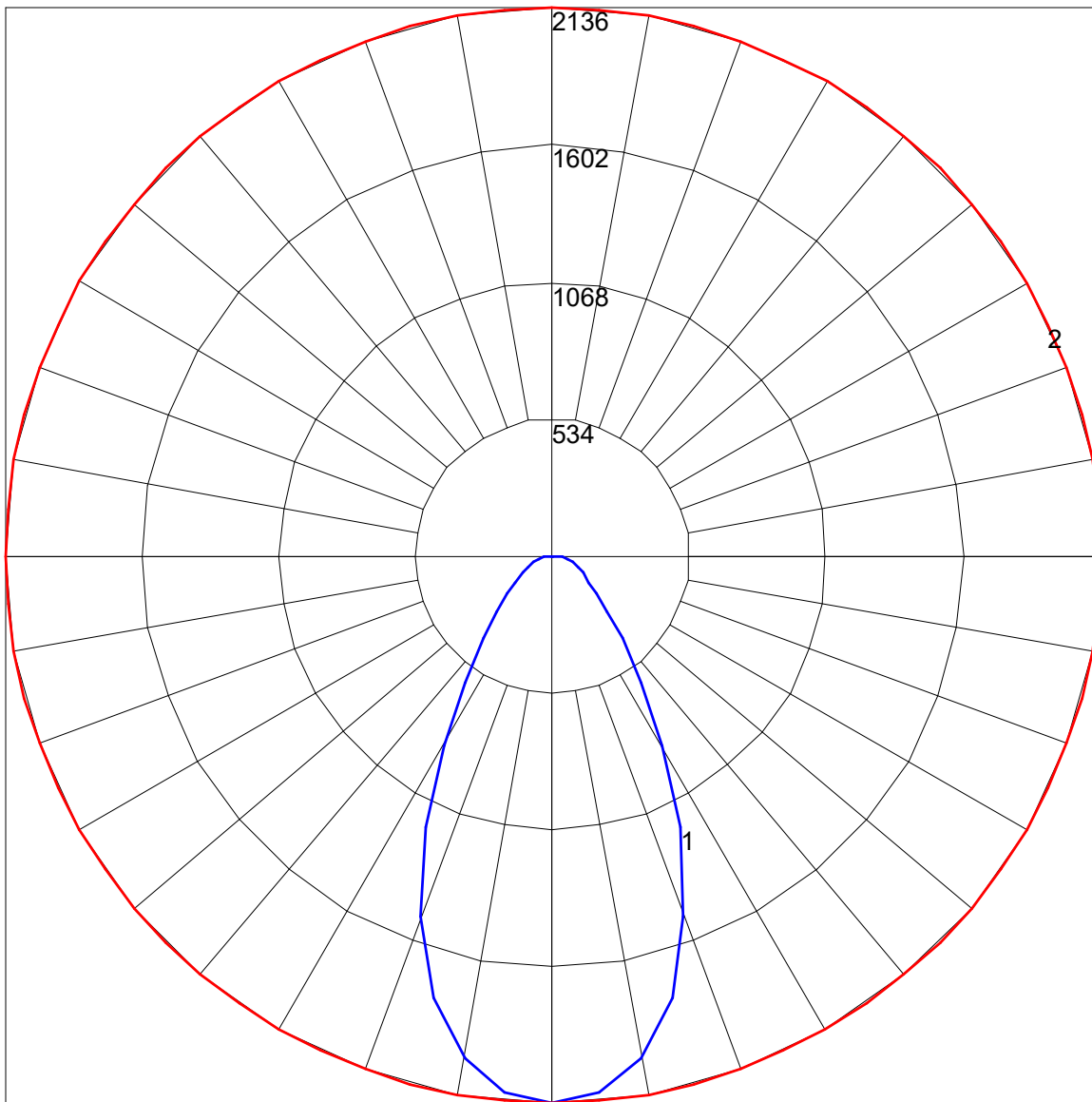
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

POLAR GRAPH



Maximum Candela = 2135.6 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.)