

## IES Report

# BoxRail® | 107 | Black Baffle | 80 CRI | HO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	38	39	40	40
Total Lumens, 4' rail length (1219mm)	1828	1886	1924	1924
Lumens per foot (305mm)	457	471	481	481
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	82	82	82	82

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\_35\_BB.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911508 (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-35-BB-AL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, black baffle,

[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	1920
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	39
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.86
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	2619	6422	2817
55	2791	1904	1286
65	2793	1100	594
75	2765	1241	313
85	3302	2201	172

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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>	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792
<b>5</b>	2187.504	2186.404	2182.158	2176.526	2168.980	2159.102	2148.586	2135.958	2123.792	2111.890
<b>10</b>	2168.892	2162.886	2145.462	2118.908	2084.522	2049.102	2014.980	1981.342	1949.244	1920.116
<b>15</b>	2128.500	2115.872	2076.668	2022.922	1965.018	1909.600	1855.370	1799.776	1743.258	1692.262
<b>20</b>	2071.872	2048.926	1982.442	1905.816	1827.078	1747.504	1666.346	1588.268	1515.228	1451.802
<b>25</b>	1999.030	1962.796	1871.144	1774.982	1668.942	1563.914	1465.904	1374.054	1288.034	1206.150
<b>30</b>	1908.852	1856.954	1742.158	1624.678	1493.294	1371.766	1262.580	1151.480	1032.064	918.830
<b>35</b>	1800.238	1733.204	1596.738	1455.102	1306.096	1174.712	1040.556	893.948	744.106	632.456
<b>40</b>	1077.890	1064.074	1062.776	1058.992	1024.232	930.732	763.092	627.000	475.332	316.272
<b>45</b>	46.288	48.224	52.272	60.852	100.144	161.722	249.964	274.692	166.056	113.498
<b>50</b>	41.492	40.766	38.720	36.432	34.496	33.572	35.398	42.240	52.558	59.752
<b>55</b>	40.018	38.720	35.508	31.988	28.116	24.904	22.682	22.308	23.782	27.302
<b>60</b>	38.544	36.608	32.736	28.490	24.156	20.460	18.084	16.500	15.686	15.862
<b>65</b>	29.502	28.402	25.916	23.144	20.108	17.424	15.488	13.838	12.540	11.616
<b>70</b>	23.056	22.220	20.460	18.634	16.500	14.762	13.090	11.814	10.516	9.504
<b>75</b>	17.886	17.424	16.236	15.026	13.750	12.452	11.154	9.966	8.844	8.030
<b>80</b>	14.388	13.926	12.914	11.990	11.154	10.054	9.130	8.206	7.194	6.446
<b>85</b>	7.194	7.194	6.908	6.732	6.556	6.358	6.094	5.808	5.346	4.796
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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>	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792
<b>5</b>	2099.922	2089.494	2080.078	2071.322	2064.502	2058.980	2054.734	2052.600	2051.786
<b>10</b>	1891.714	1865.798	1842.192	1821.446	1803.648	1789.722	1779.404	1773.310	1771.462
<b>15</b>	1645.512	1602.370	1565.674	1533.950	1508.320	1488.300	1474.374	1465.992	1462.758
<b>20</b>	1394.162	1340.592	1292.456	1249.314	1212.046	1181.268	1158.014	1144.198	1139.314
<b>25</b>	1123.078	1042.866	971.124	908.974	858.440	819.522	791.956	775.368	769.736
<b>30</b>	812.900	721.886	644.710	572.044	508.706	455.972	416.768	393.272	384.692
<b>35</b>	510.928	389.576	281.512	200.640	156.112	132.594	120.802	114.884	113.036
<b>40</b>	185.152	129.734	110.000	99.132	91.014	84.546	79.948	77.088	76.164
<b>45</b>	98.208	86.856	76.714	68.420	61.864	56.892	53.196	50.710	49.786
<b>50</b>	60.214	55.880	50.160	44.638	40.106	36.432	33.572	31.812	30.976
<b>55</b>	30.624	31.724	30.162	27.478	24.904	22.418	20.372	18.986	18.436
<b>60</b>	16.500	17.248	17.336	16.500	15.114	13.750	12.452	11.352	10.692
<b>65</b>	11.154	10.890	10.692	10.142	9.504	8.580	7.568	6.732	6.270
<b>70</b>	8.756	8.030	7.480	6.820	6.182	5.434	4.796	4.048	3.696
<b>75</b>	7.018	6.270	5.632	4.972	4.334	3.696	3.036	2.574	2.024
<b>80</b>	5.632	4.884	4.334	3.696	3.234	2.574	2.112	1.474	1.100
<b>85</b>	4.422	3.784	3.146	2.772	2.222	1.848	1.386	0.836	0.374
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	683.07	N.A.	35.60
0-30	1263.46	N.A.	65.80
0-40	1727.45	N.A.	90.00
0-60	1891.42	N.A.	98.50
0-80	1915.79	N.A.	99.80
0-90	1920.12	N.A.	100.00
10-90	1723.47	N.A.	89.80
20-40	1044.38	N.A.	54.40
20-50	1182.35	N.A.	61.60
40-70	178.80	N.A.	9.30
60-80	24.37	N.A.	1.30
70-80	9.54	N.A.	0.50
80-90	4.34	N.A.	0.20
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	1920.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	196.65
10-20	486.42
20-30	580.39
30-40	463.99
40-50	137.97
50-60	26.00
60-70	14.83
70-80	9.54
80-90	4.34
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

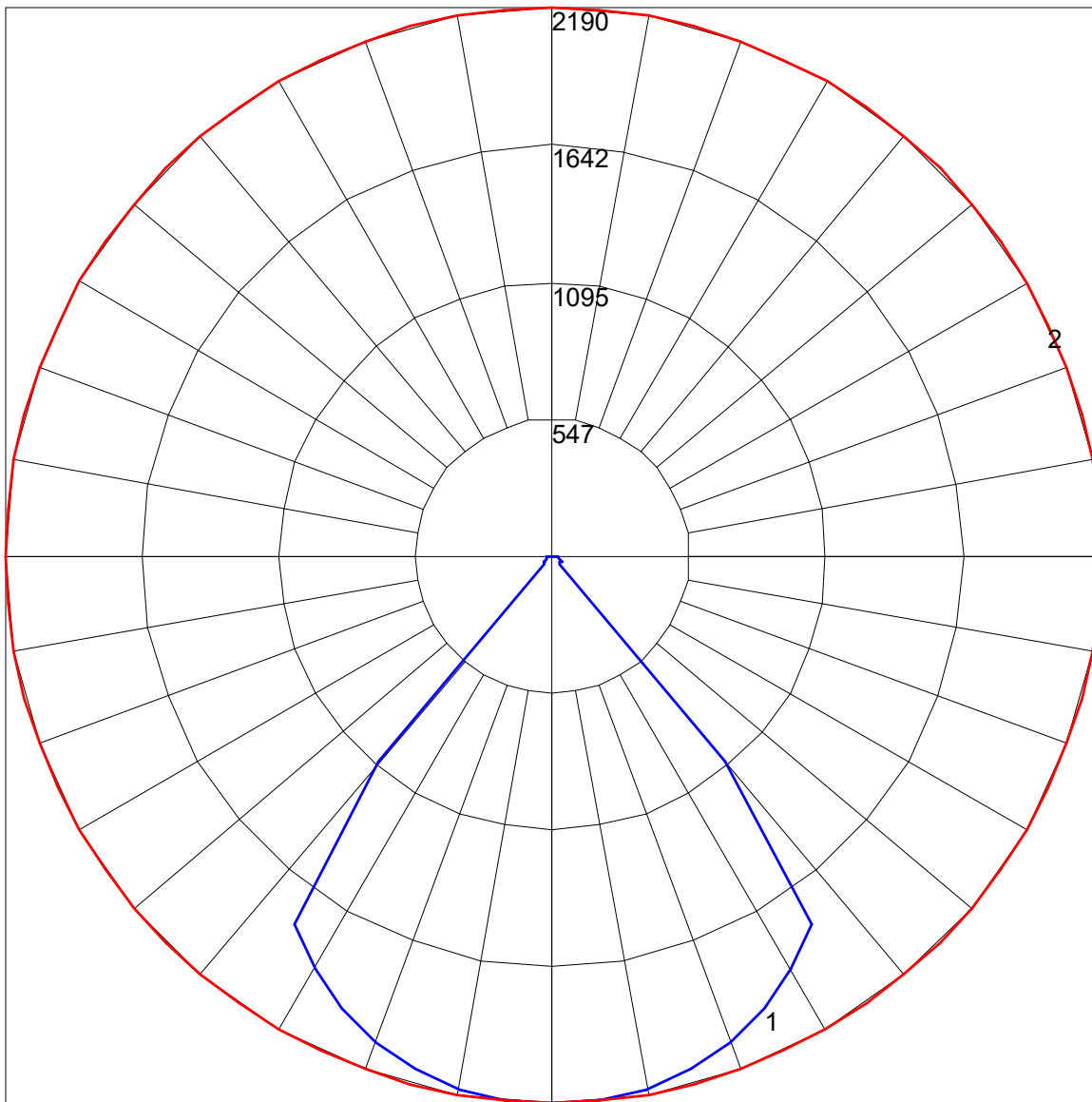
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	88	86
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	76	72	90	82	76	72	80	75	71	78	74	70	76	73	70	68
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	63
7	82	72	66	62	81	72	66	62	70	65	61	69	64	61	68	64	61	59
8	78	68	62	58	77	67	62	57	66	61	57	65	60	57	64	60	57	55
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	56	53	52
10	70	60	54	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49

POLAR GRAPH



Maximum Candela = 2189.792 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.)