

IES Report

**BoxRail® | 107 | 120° FlyWing™ | 80 CRI | LO**

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	90	93	95	97
Total Lumens, 4' rail length (1219mm)	1340	1382	1411	1439
Lumens per foot (305mm)	335	346	353	360
Input Power (W), 4' rail length (1219mm)	15.0	15.0	15.0	15.0
Watts per foot (305mm)	3.8	3.8	3.8	3.8
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](#).



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_BX\_LO\_35\_G2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L071704204 (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-LO-35-G2  
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] 120° flywing lens, low output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1407
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	14.95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.52
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	21133	18534	12086
55	20026	17834	11482
65	15340	14806	11131
75	8572	9890	9814
85	1255	2562	5476

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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>	456.719	456.719	456.719	456.719	456.719	456.719	456.719	456.719	456.719	456.719
<b>5</b>	459.887	459.811	459.710	459.492	459.173	458.831	458.389	457.952	457.409	456.896
<b>10</b>	470.077	469.953	469.386	468.531	467.333	465.716	463.976	461.940	459.687	457.338
<b>15</b>	482.419	482.054	481.027	479.381	477.009	474.065	470.543	466.472	462.017	457.215
<b>20</b>	490.797	490.384	489.033	486.833	483.670	479.652	474.755	468.950	462.283	455.008
<b>25</b>	493.789	493.269	491.629	488.986	485.240	480.337	474.266	467.233	458.760	449.427
<b>30</b>	490.502	489.918	488.030	485.116	480.927	475.392	468.578	460.448	450.624	439.137
<b>35</b>	479.528	478.915	477.033	474.018	469.734	463.952	456.648	447.786	436.983	424.464
<b>40</b>	459.297	458.760	457.091	454.276	450.211	444.600	437.302	428.139	416.870	403.495
<b>45</b>	427.992	427.573	426.204	423.897	420.469	415.401	408.882	400.091	389.040	375.352
<b>50</b>	384.733	384.462	383.606	382.060	379.588	375.812	370.231	362.343	352.130	338.731
<b>55</b>	328.978	328.907	328.612	327.975	326.701	324.252	320.281	313.963	305.000	292.970
<b>60</b>	260.927	261.099	261.588	262.078	262.225	261.494	259.411	255.122	248.266	238.590
<b>65</b>	185.679	185.974	186.877	188.151	189.425	190.381	190.405	188.788	185.089	179.212
<b>70</b>	116.407	116.749	117.729	119.292	121.156	123.021	124.437	124.956	124.000	121.746
<b>75</b>	63.543	63.838	64.646	65.891	67.537	69.349	71.089	72.481	73.172	73.313
<b>80</b>	24.939	25.110	25.694	26.627	27.901	29.541	31.258	32.969	34.468	35.860
<b>85</b>	3.133	3.186	3.233	3.310	3.428	3.599	3.918	4.437	5.216	6.396
<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>	456.719	456.719	456.719	456.719	456.719	456.719	456.719	456.719	456.719
<b>5</b>	456.430	455.893	455.380	454.914	454.542	454.253	453.981	453.857	453.810
<b>10</b>	454.961	452.607	450.430	448.276	446.536	444.966	443.916	443.226	442.931
<b>15</b>	452.117	447.002	442.004	437.202	433.084	429.585	426.989	425.372	424.806
<b>20</b>	447.025	438.742	430.464	422.334	415.230	409.082	404.404	401.607	400.604
<b>25</b>	438.771	427.526	415.867	404.179	393.967	384.780	377.895	373.535	372.089
<b>30</b>	426.328	412.363	397.760	382.774	369.322	357.392	348.259	342.548	340.636
<b>35</b>	409.472	393.306	375.889	357.935	341.887	327.680	317.025	310.310	308.057
<b>40</b>	387.376	369.299	350.047	330.105	312.346	296.965	285.401	278.250	275.825
<b>45</b>	358.496	339.757	319.644	299.242	281.406	265.683	254.166	247.139	244.761
<b>50</b>	322.217	303.874	284.716	265.388	248.856	234.891	224.088	217.816	215.610
<b>55</b>	278.173	261.689	244.862	228.643	215.149	203.857	195.455	190.310	188.617
<b>60</b>	226.637	213.751	201.332	189.821	180.363	172.575	166.769	163.312	162.114
<b>65</b>	171.566	163.631	156.332	149.819	144.674	140.385	137.252	135.340	134.726
<b>70</b>	118.584	115.498	112.678	110.206	108.442	107.050	106.017	105.232	104.937
<b>75</b>	73.243	73.048	72.924	72.853	72.900	72.924	72.971	72.900	72.753
<b>80</b>	37.040	37.966	38.751	39.318	39.784	40.149	40.421	40.592	40.616
<b>85</b>	8.083	9.894	11.393	12.490	13.057	13.375	13.546	13.647	13.670
<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	172.37	N.A.	12.30
0-30	375.74	N.A.	26.70
0-40	631.24	N.A.	44.90
0-60	1148.59	N.A.	81.60
0-80	1393.27	N.A.	99.00
0-90	1406.83	N.A.	100.00
10-90	1363.22	N.A.	96.90
20-40	458.87	N.A.	32.60
20-50	731.91	N.A.	52.00
40-70	685.14	N.A.	48.70
60-80	244.68	N.A.	17.40
70-80	76.89	N.A.	5.50
80-90	13.56	N.A.	1.00
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	1406.83	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	43.61
10-20	128.76
20-30	203.36
30-40	255.51
40-50	273.04
50-60	244.31
60-70	167.79
70-80	76.89
80-90	13.56
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

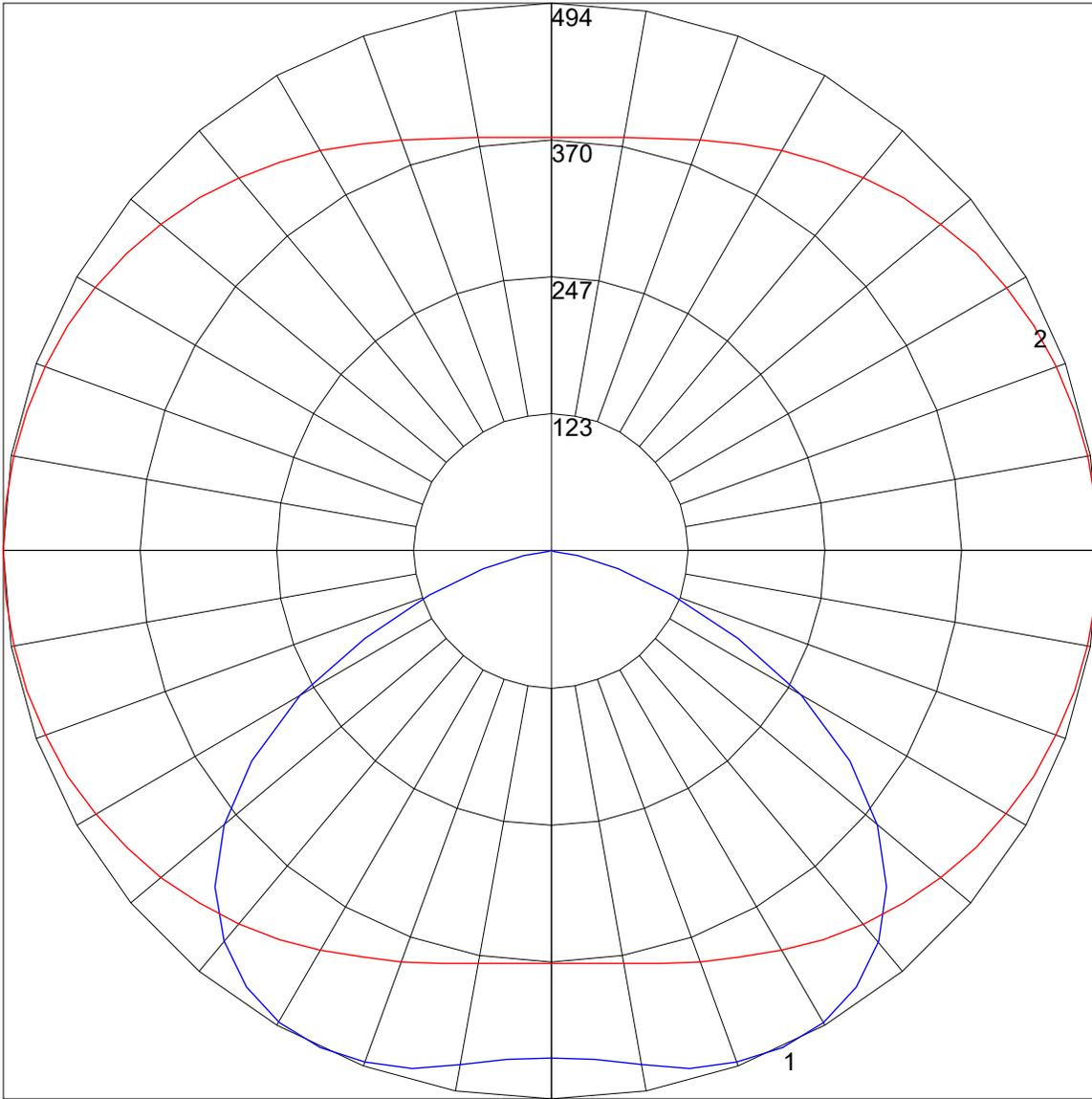
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 493.789 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)