

**IES Report**

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	112	115	118	120
Total Lumens, 4' rail length (1219mm)	2680	2765	2821	2878
Lumens per foot (305mm)	670	691	705	719
Input Power (W), 4' rail length (1219mm)	24.1	24.1	24.1	24.1
Watts per foot (305mm)	6.1	6.1	6.1	6.1
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\_SO\_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-SO-35-G2  
 [LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,  
 [MORE] 120° flywing lens, standard output  
 [TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2814
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	24.09
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	42266	37068	24171
55	40051	35668	22963
65	30680	29612	22261
75	17144	19780	19629
85	2510	5124	10953

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**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>	913.438	913.438	913.438	913.438	913.438	913.438	913.438	913.438	913.438	913.438
<b>5</b>	919.775	919.621	919.421	918.984	918.347	917.662	916.777	915.904	914.819	913.792
<b>10</b>	940.153	939.905	938.773	937.062	934.666	931.433	927.952	923.881	919.373	914.677
<b>15</b>	964.839	964.107	962.054	958.762	954.018	948.130	941.085	932.943	924.034	914.429
<b>20</b>	981.595	980.769	978.067	973.665	967.340	959.305	949.511	937.899	924.565	910.016
<b>25</b>	987.577	986.539	983.259	977.972	970.479	960.673	948.531	934.466	917.521	898.853
<b>30</b>	981.005	979.837	976.061	970.231	961.853	950.785	937.156	920.896	901.249	878.274
<b>35</b>	959.057	957.830	954.065	948.036	939.469	927.905	913.296	895.573	873.967	848.927
<b>40</b>	918.595	917.521	914.181	908.553	900.423	889.201	874.604	856.279	833.741	806.990
<b>45</b>	855.984	855.146	852.408	847.795	840.939	830.803	817.764	800.182	778.080	750.704
<b>50</b>	769.466	768.923	767.212	764.121	759.177	751.625	740.462	724.685	704.259	677.462
<b>55</b>	657.956	657.815	657.225	655.950	653.401	648.504	640.563	627.925	610.001	585.941
<b>60</b>	521.855	522.197	523.177	524.156	524.451	522.988	518.822	510.244	496.532	477.180
<b>65</b>	371.358	371.948	373.753	376.302	378.851	380.762	380.810	377.576	370.178	358.425
<b>70</b>	232.814	233.498	235.457	238.584	242.313	246.042	248.874	249.912	248.001	243.493
<b>75</b>	127.086	127.676	129.293	131.782	135.075	138.697	142.178	144.963	146.344	146.627
<b>80</b>	49.879	50.221	51.389	53.253	55.802	59.083	62.516	65.938	68.936	71.720
<b>85</b>	6.266	6.372	6.466	6.620	6.856	7.198	7.835	8.874	10.431	12.791
<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**

	<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>	913.438	913.438	913.438	913.438	913.438	913.438	913.438	913.438	913.438
<b>5</b>	912.860	911.786	910.759	909.827	909.084	908.506	907.963	907.715	907.621
<b>10</b>	909.922	905.213	900.859	896.552	893.071	889.932	887.832	886.451	885.861
<b>15</b>	904.234	894.003	884.009	874.404	866.167	859.170	853.978	850.745	849.612
<b>20</b>	894.051	877.483	860.928	844.668	830.460	818.165	808.807	803.214	801.208
<b>25</b>	877.542	855.052	831.735	808.359	787.933	769.561	755.790	747.070	744.179
<b>30</b>	852.656	824.726	795.521	765.549	738.645	714.785	696.519	685.096	681.273
<b>35</b>	818.944	786.612	751.778	715.871	683.775	655.360	634.049	620.621	616.113
<b>40</b>	774.753	738.597	700.094	660.210	624.692	593.929	570.801	556.500	551.650
<b>45</b>	716.992	679.515	639.289	598.484	562.813	531.366	508.332	494.278	489.523
<b>50</b>	644.433	607.747	569.433	530.776	497.712	469.782	448.176	435.632	431.219
<b>55</b>	556.346	523.377	489.724	457.285	430.299	407.714	390.910	380.621	377.234
<b>60</b>	453.273	427.502	402.663	379.641	360.726	345.150	333.539	326.624	324.229
<b>65</b>	343.132	327.261	312.665	299.637	289.348	280.769	274.503	270.680	269.453
<b>70</b>	237.168	230.997	225.356	220.412	216.884	214.099	212.034	210.465	209.875
<b>75</b>	146.485	146.096	145.848	145.706	145.801	145.848	145.942	145.801	145.506
<b>80</b>	74.080	75.933	77.502	78.635	79.567	80.299	80.842	81.184	81.231
<b>85</b>	16.166	19.789	22.786	24.981	26.113	26.751	27.093	27.293	27.341
<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	344.74	N.A.	12.30
0-30	751.47	N.A.	26.70
0-40	1262.49	N.A.	44.90
0-60	2297.18	N.A.	81.60
0-80	2786.54	N.A.	99.00
0-90	2813.67	N.A.	100.00
10-90	2726.44	N.A.	96.90
20-40	917.75	N.A.	32.60
20-50	1463.83	N.A.	52.00
40-70	1370.27	N.A.	48.70
60-80	489.36	N.A.	17.40
70-80	153.78	N.A.	5.50
80-90	27.13	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	2813.67	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	87.23
10-20	257.52
20-30	406.73
30-40	511.02
40-50	546.08
50-60	488.61
60-70	335.58
70-80	153.78
80-90	27.13
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

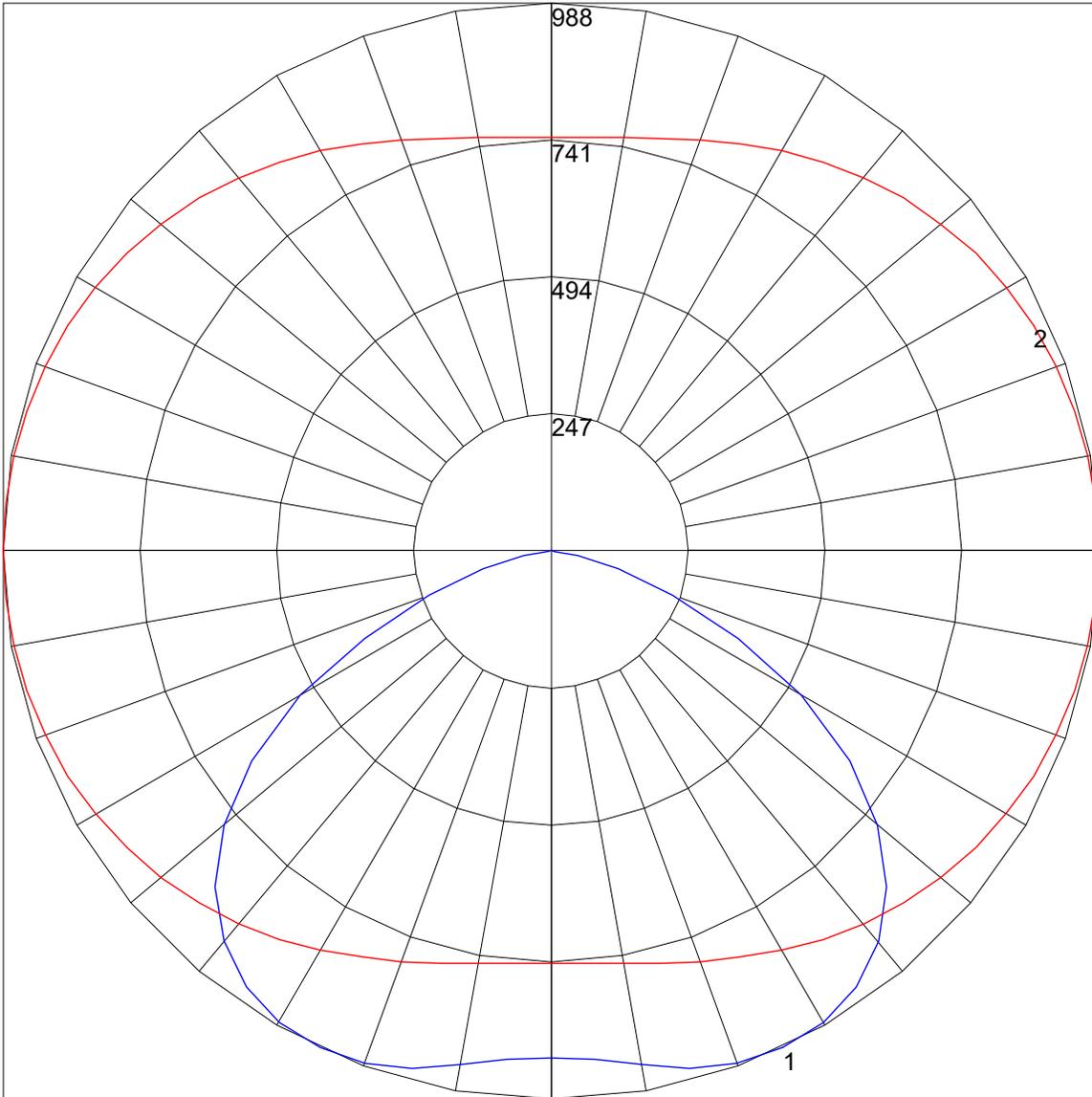
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 987.577 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.)