

IES Report

**BoxRail® | 107 | Black Baffle | 80 CRI | SO**

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	35	36	37	38
Total Lumens, 4' rail length (1219mm)	837	863	881	898
Lumens per foot (305mm)	209	216	220	225
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\_BB.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L071704207 (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-BB  
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] black baffle, standard output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	878
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
Total Luminaire Watts	24.08
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.84
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	987	2818	1185
55	1085	761	549
65	1101	461	251
75	1137	529	132
85	1177	922	156

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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>	1018.222	1018.222	1018.222	1018.222	1018.222	1018.222	1018.222	1018.222	1018.222	1018.222
<b>5</b>	1019.225	1018.092	1016.240	1013.148	1009.230	1004.569	999.672	994.433	989.288	984.238
<b>10</b>	1009.325	1006.186	998.009	986.197	972.049	957.688	943.091	927.220	910.653	895.325
<b>15</b>	988.167	981.500	964.544	942.796	918.205	890.522	862.993	834.720	805.869	779.756
<b>20</b>	958.667	947.552	921.191	888.021	848.975	808.512	766.575	728.308	694.796	666.429
<b>25</b>	925.356	908.163	870.970	823.156	768.971	713.959	668.293	627.536	586.330	543.508
<b>30</b>	883.903	861.376	812.867	752.073	684.070	628.515	577.763	518.728	457.191	405.554
<b>35</b>	829.233	799.155	739.034	663.785	595.983	535.578	466.348	391.099	343.132	287.778
<b>40</b>	429.850	433.532	449.202	459.693	457.285	413.295	344.902	284.640	213.014	140.219
<b>45</b>	19.989	20.579	21.464	22.975	35.129	63.590	98.766	115.475	79.119	57.077
<b>50</b>	18.420	18.172	17.346	16.414	15.482	15.092	15.871	18.762	23.718	27.777
<b>55</b>	17.830	17.346	16.024	14.502	12.933	11.517	10.537	10.290	10.927	12.496
<b>60</b>	17.346	16.508	14.939	13.086	11.222	9.700	8.579	7.835	7.399	7.351
<b>65</b>	13.322	12.886	11.753	10.679	9.357	8.331	7.399	6.667	6.030	5.581
<b>70</b>	10.679	10.384	9.652	8.767	7.941	7.104	6.419	5.735	5.192	4.602
<b>75</b>	8.425	8.177	7.646	7.104	6.561	6.030	5.440	4.897	4.413	3.918
<b>80</b>	6.761	6.620	6.124	5.688	5.239	4.803	4.413	4.024	3.623	3.233
<b>85</b>	2.938	2.985	2.985	2.891	2.891	2.844	2.797	2.643	2.502	2.301
<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>	1018.222	1018.222	1018.222	1018.222	1018.222	1018.222	1018.222	1018.222	1018.222
<b>5</b>	979.341	974.881	970.869	967.482	964.591	962.148	960.626	959.600	959.257
<b>10</b>	880.964	867.843	855.689	844.762	835.841	828.348	822.967	819.923	818.743
<b>15</b>	756.427	736.733	719.977	705.192	693.628	684.317	677.757	674.075	672.848
<b>20</b>	640.469	614.060	588.584	565.409	546.352	530.233	518.433	511.129	508.733
<b>25</b>	501.229	462.041	431.078	407.714	389.235	374.449	363.027	355.829	353.622
<b>30</b>	366.602	330.837	293.171	257.452	226.100	201.155	183.136	172.209	168.433
<b>35</b>	227.858	170.593	126.059	96.323	80.098	66.281	59.283	55.944	54.870
<b>40</b>	89.951	65.455	52.864	46.940	43.164	40.273	38.114	36.745	36.250
<b>45</b>	46.693	41.300	36.698	32.721	29.689	27.293	25.523	24.355	24.001
<b>50</b>	28.615	26.845	24.155	21.606	19.352	17.641	16.319	15.387	15.092
<b>55</b>	14.361	15.139	14.597	13.381	12.107	10.927	9.947	9.263	9.015
<b>60</b>	7.741	8.236	8.331	7.989	7.399	6.714	6.077	5.534	5.286
<b>65</b>	5.239	5.098	5.050	4.944	4.555	4.118	3.670	3.328	3.033
<b>70</b>	4.165	3.776	3.528	3.280	2.985	2.749	2.348	2.006	1.770
<b>75</b>	3.434	3.033	2.749	2.395	2.112	1.864	1.569	1.227	0.979
<b>80</b>	2.797	2.502	2.159	1.817	1.522	1.322	1.074	0.779	0.590
<b>85</b>	2.112	1.817	1.569	1.322	1.133	0.932	0.732	0.543	0.389
<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	316.37	N.A.	36.00
0-30	581.51	N.A.	66.20
0-40	791.92	N.A.	90.20
0-60	864.80	N.A.	98.40
0-80	876.38	N.A.	99.80
0-90	878.42	N.A.	100.00
10-90	786.83	N.A.	89.60
20-40	475.55	N.A.	54.10
20-50	536.28	N.A.	61.10
40-70	79.87	N.A.	9.10
60-80	11.58	N.A.	1.30
70-80	4.59	N.A.	0.50
80-90	2.04	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	878.42	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	91.59
10-20	224.78
20-30	265.15
30-40	210.40
40-50	60.73
50-60	12.15
60-70	6.99
70-80	4.59
80-90	2.04
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

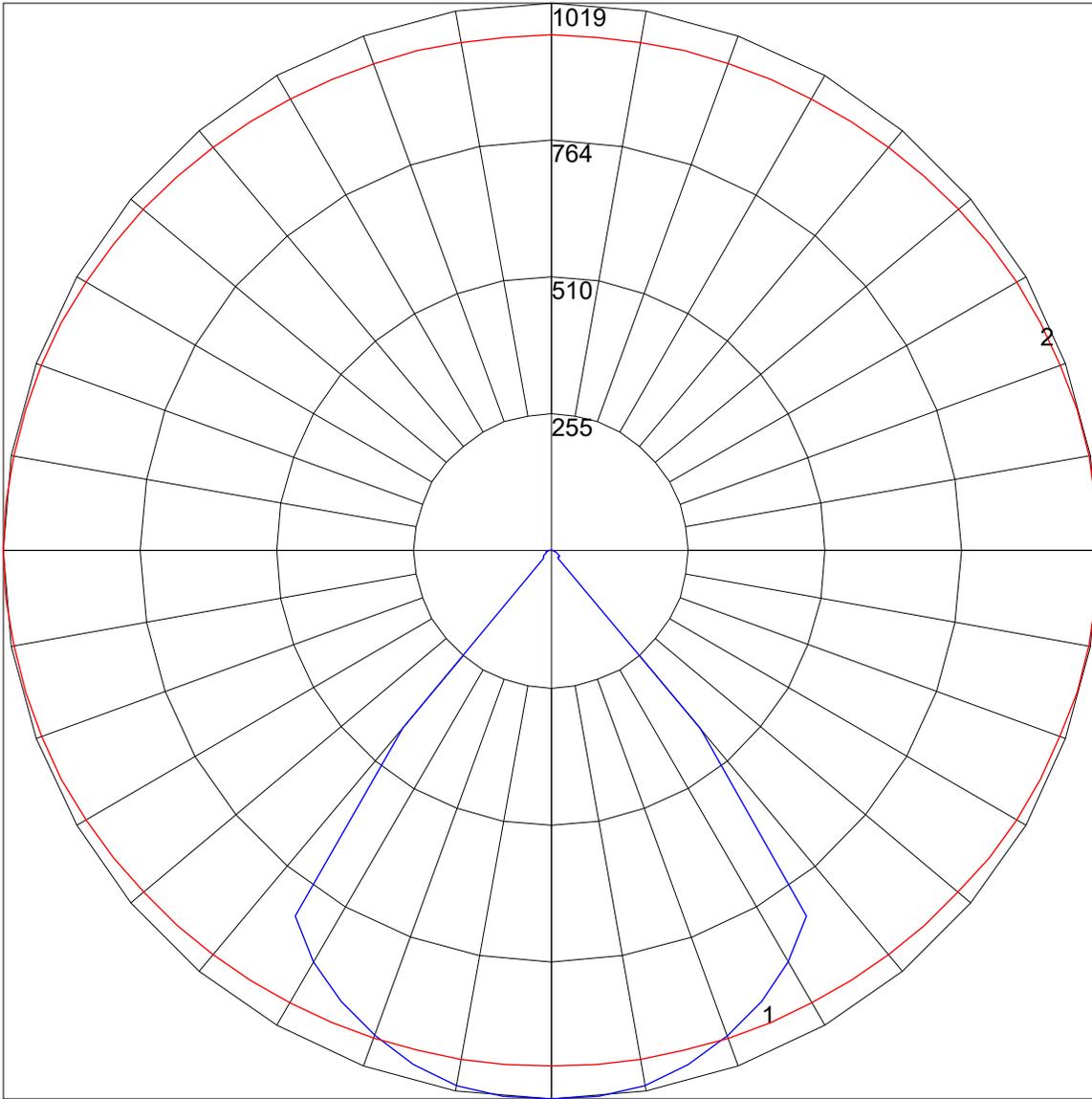
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	101	100	99	98	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	91	94	92	89	92	89	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80
4	96	89	83	78	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	59
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	53	52
10	71	61	55	51	70	60	55	51	59	54	51	59	54	50	58	53	50	49

POLAR GRAPH



Maximum Candela = 1019.225 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)