

IES Report

**BoxRail® | 107 | Black Baffle | 90 CRI | SO**

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-359-BB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	30	31	32	33
Total Lumens, 4' rail length (1219mm)	721	744	759	774
Lumens per foot (305mm)	180	186	190	194
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	96	96	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\_SO\_359\_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-359-BB  
 [LUMINAIRE] BoxRail LED, 48", 3500K, 90 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	759
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	32
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	853	2436	1024
55	938	658	474
65	951	399	217
75	982	457	114
85	1018	797	135

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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>	880.158	880.158	880.158	880.158	880.158	880.158	880.158	880.158	880.158	880.158
<b>5</b>	881.025	880.046	878.444	875.772	872.386	868.357	864.124	859.595	855.148	850.782
<b>10</b>	872.467	869.754	862.685	852.475	840.245	827.832	815.215	801.496	787.175	773.925
<b>15</b>	854.179	848.416	833.758	814.960	793.703	769.774	745.977	721.538	696.599	674.026
<b>20</b>	828.679	819.070	796.283	767.611	733.859	698.884	662.633	629.554	600.586	576.065
<b>25</b>	799.884	785.023	752.872	711.542	664.703	617.151	577.677	542.446	506.828	469.812
<b>30</b>	764.051	744.580	702.647	650.097	591.314	543.293	499.423	448.392	395.199	350.564
<b>35</b>	716.795	690.795	638.826	573.781	515.171	462.958	403.114	338.069	296.606	248.758
<b>40</b>	371.566	374.748	388.294	397.361	395.281	357.255	298.136	246.044	184.130	121.207
<b>45</b>	17.279	17.789	18.554	19.859	30.365	54.968	85.374	99.817	68.391	49.337
<b>50</b>	15.922	15.708	14.994	14.188	13.382	13.046	13.719	16.218	20.502	24.011
<b>55</b>	15.412	14.994	13.852	12.536	11.179	9.955	9.109	8.894	9.445	10.802
<b>60</b>	14.994	14.270	12.913	11.312	9.700	8.384	7.415	6.773	6.395	6.355
<b>65</b>	11.516	11.138	10.159	9.231	8.089	7.201	6.395	5.763	5.212	4.825
<b>70</b>	9.231	8.976	8.344	7.579	6.865	6.140	5.549	4.957	4.488	3.978
<b>75</b>	7.283	7.069	6.610	6.140	5.671	5.212	4.702	4.233	3.815	3.386
<b>80</b>	5.845	5.722	5.294	4.916	4.529	4.151	3.815	3.478	3.131	2.795
<b>85</b>	2.540	2.581	2.581	2.499	2.499	2.458	2.417	2.285	2.162	1.989
<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>	880.158	880.158	880.158	880.158	880.158	880.158	880.158	880.158	880.158
<b>5</b>	846.549	842.693	839.225	836.298	833.799	831.688	830.372	829.484	829.189
<b>10</b>	761.512	750.169	739.663	730.218	722.507	716.030	711.379	708.747	707.727
<b>15</b>	653.861	636.837	622.353	609.572	599.576	591.529	585.857	582.675	581.614
<b>20</b>	553.625	530.798	508.776	488.743	472.270	458.337	448.137	441.823	439.753
<b>25</b>	433.265	399.391	372.626	352.430	336.457	323.677	313.803	307.581	305.674
<b>30</b>	316.894	285.977	253.419	222.544	195.442	173.879	158.304	148.859	145.595
<b>35</b>	196.962	147.461	108.967	83.263	69.238	57.293	51.245	48.358	47.430
<b>40</b>	77.755	56.579	45.696	40.576	37.312	34.813	32.946	31.763	31.334
<b>45</b>	40.361	35.700	31.722	28.285	25.663	23.593	22.063	21.053	20.747
<b>50</b>	24.735	23.205	20.879	18.676	16.728	15.249	14.107	13.301	13.046
<b>55</b>	12.413	13.087	12.617	11.567	10.465	9.445	8.599	8.007	7.793
<b>60</b>	6.691	7.120	7.201	6.905	6.395	5.804	5.253	4.784	4.570
<b>65</b>	4.529	4.406	4.366	4.274	3.937	3.560	3.172	2.876	2.621
<b>70</b>	3.601	3.264	3.050	2.836	2.581	2.377	2.030	1.734	1.530
<b>75</b>	2.968	2.621	2.377	2.071	1.826	1.612	1.357	1.061	0.847
<b>80</b>	2.417	2.162	1.867	1.571	1.316	1.142	0.928	0.673	0.510
<b>85</b>	1.826	1.571	1.357	1.142	0.979	0.806	0.632	0.469	0.337
<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	273.47	N.A.	36.00
0-30	502.66	N.A.	66.20
0-40	684.54	N.A.	90.20
0-60	747.54	N.A.	98.40
0-80	757.55	N.A.	99.80
0-90	759.31	N.A.	100.00
10-90	680.14	N.A.	89.60
20-40	411.07	N.A.	54.10
20-50	463.57	N.A.	61.10
40-70	69.04	N.A.	9.10
60-80	10.01	N.A.	1.30
70-80	3.97	N.A.	0.50
80-90	1.76	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	759.31	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	79.17
10-20	194.30
20-30	229.19
30-40	181.87
40-50	52.50
50-60	10.50
60-70	6.04
70-80	3.97
80-90	1.76
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

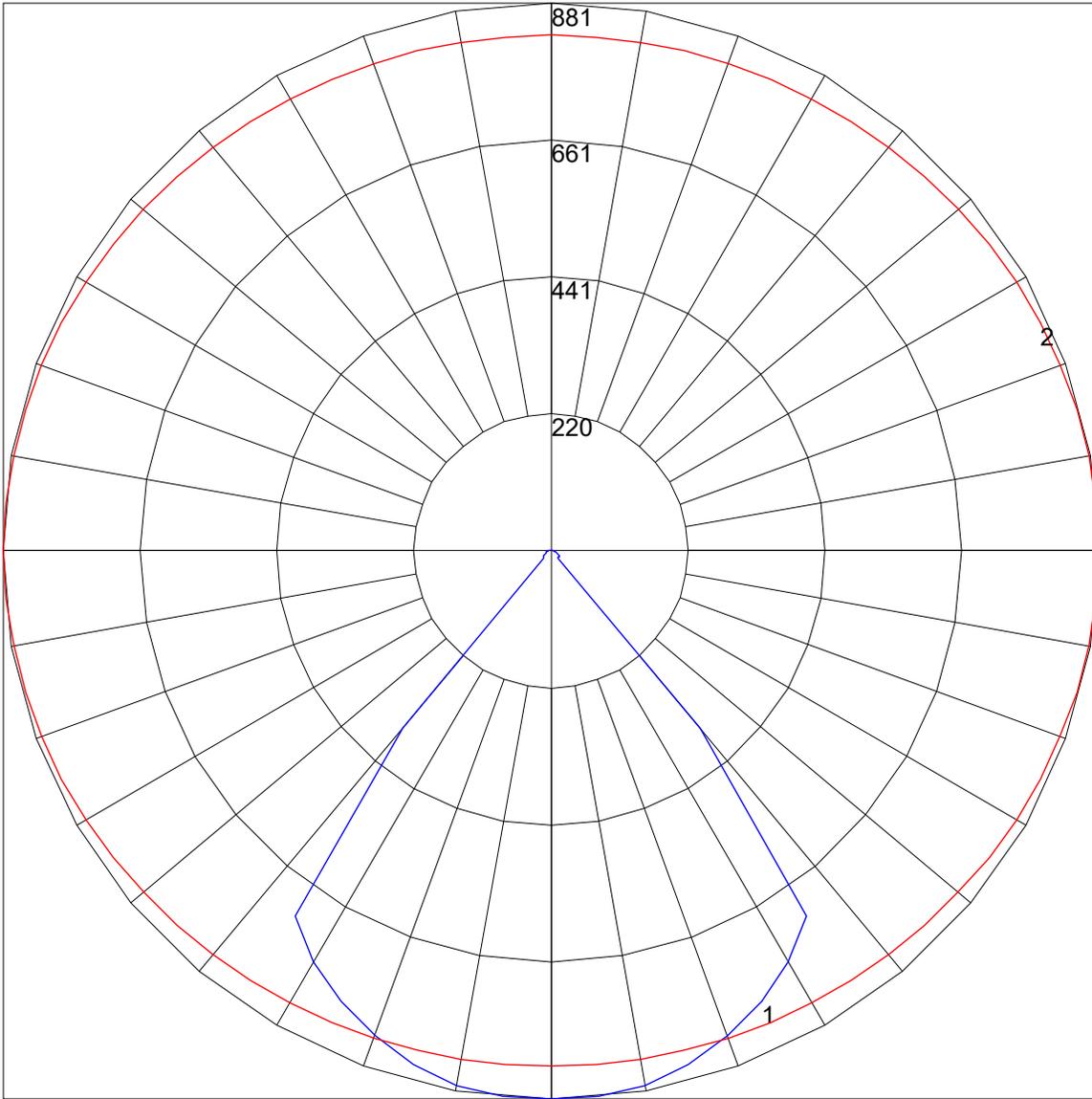
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	93	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 = 881.025 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.)