

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	75	78	79	79
Total Lumens, 4' rail length (1219mm)	1786	1843	1880	1880
Lumens per foot (305mm)	447	461	470	470
Input Power (W), 4' rail length (1219mm)	23.9	23.9	23.9	23.9
Watts per foot (305mm)	6.0	6.0	6.0	6.0
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](http://vode.com).



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE\_107\_BX\_SO\_35\_WB.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L121911507 (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-SO-35-WB-AL  
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, white baffle,  
[MORE] standard 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	1880
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	23.92
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	1.00
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	10041	18180	13782
55	9143	11732	10923
65	9663	8675	8895
75	5021	5379	6276
85	3195	2662	2662

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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>	1421.00	1421.00	1421.00	1421.00	1421.00	1421.00	1421.00	1421.00	1421.00	1421.00
<b>5</b>	1417.52	1416.36	1415.20	1412.88	1411.72	1408.24	1404.76	1401.28	1398.96	1396.64
<b>10</b>	1403.60	1402.44	1395.48	1388.52	1381.56	1376.92	1368.80	1358.36	1347.92	1334.00
<b>15</b>	1379.24	1374.60	1364.16	1353.72	1340.96	1321.24	1295.72	1270.20	1243.52	1218.00
<b>20</b>	1340.96	1332.84	1320.08	1302.68	1272.52	1234.24	1195.96	1158.84	1125.20	1098.52
<b>25</b>	1286.44	1274.84	1258.60	1224.96	1178.56	1129.84	1084.60	1049.80	1013.84	968.60
<b>30</b>	1224.96	1212.20	1185.52	1134.48	1075.32	1019.64	979.04	918.72	856.08	798.08
<b>35</b>	1144.92	1129.84	1090.40	1028.92	966.28	916.40	843.32	766.76	700.64	644.96
<b>40</b>	756.32	758.64	765.60	776.04	786.48	745.88	683.24	618.28	534.76	452.40
<b>45</b>	177.48	185.60	204.16	228.52	269.12	337.56	392.08	394.40	352.64	321.32
<b>50</b>	136.88	141.52	149.64	158.92	170.52	185.60	204.16	221.56	230.84	235.48
<b>55</b>	131.08	133.40	138.04	142.68	149.64	157.76	165.88	167.04	167.04	168.20
<b>60</b>	121.80	122.96	121.80	121.80	121.80	124.12	125.28	125.28	125.28	125.28
<b>65</b>	102.08	100.92	97.44	93.96	91.64	90.48	90.48	90.48	90.48	91.64
<b>70</b>	63.80	62.64	62.64	60.32	59.16	58.00	58.00	59.16	59.16	60.32
<b>75</b>	32.48	32.48	32.48	31.32	31.32	31.32	32.48	32.48	33.64	34.80
<b>80</b>	16.24	16.24	15.08	15.08	15.08	15.08	15.08	15.08	15.08	16.24
<b>85</b>	6.96	6.96	6.96	6.96	6.96	6.96	6.96	6.96	5.80	5.80
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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>	1421.00	1421.00	1421.00	1421.00	1421.00	1421.00	1421.00	1421.00	1421.00
<b>5</b>	1394.32	1393.16	1392.00	1390.84	1388.52	1388.52	1387.36	1386.20	1386.20
<b>10</b>	1321.24	1309.64	1298.04	1287.60	1279.48	1272.52	1267.88	1264.40	1263.24
<b>15</b>	1195.96	1175.08	1157.68	1142.60	1132.16	1122.88	1117.08	1114.76	1113.60
<b>20</b>	1075.32	1052.12	1026.60	999.92	979.04	960.48	947.72	939.60	937.28
<b>25</b>	921.04	878.12	841.00	808.52	785.32	766.76	754.00	747.04	744.72
<b>30</b>	749.36	712.24	672.80	629.88	592.76	563.76	544.04	531.28	527.80
<b>35</b>	576.52	513.88	461.68	423.40	399.04	383.96	374.68	368.88	366.56
<b>40</b>	393.24	359.60	339.88	327.12	316.68	308.56	303.92	300.44	299.28
<b>45</b>	301.60	286.52	274.92	264.48	257.52	251.72	247.08	244.76	243.60
<b>50</b>	233.16	225.04	218.08	211.12	206.48	201.84	199.52	197.20	196.04
<b>55</b>	170.52	170.52	168.20	165.88	163.56	160.08	158.92	157.76	156.60
<b>60</b>	126.44	126.44	126.44	126.44	126.44	125.28	124.12	124.12	122.96
<b>65</b>	91.64	92.80	93.96	93.96	93.96	95.12	93.96	93.96	93.96
<b>70</b>	61.48	62.64	63.80	64.96	64.96	66.12	66.12	66.12	66.12
<b>75</b>	35.96	37.12	38.28	39.44	40.60	40.60	41.76	41.76	40.60
<b>80</b>	16.24	17.40	18.56	18.56	19.72	19.72	20.88	20.88	19.72
<b>85</b>	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	477.51	N.A.	25.40
0-30	928.39	N.A.	49.40
0-40	1353.14	N.A.	72.00
0-60	1739.57	N.A.	92.50
0-80	1871.85	N.A.	99.60
0-90	1879.93	N.A.	100.00
10-90	1748.48	N.A.	93.00
20-40	875.63	N.A.	46.60
20-50	1119.3	N.A.	59.50
40-70	478.92	N.A.	25.50
60-80	132.28	N.A.	7.00
70-80	39.79	N.A.	2.10
80-90	8.08	N.A.	0.40
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	1879.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	131.45
10-20	346.06
20-30	450.88
30-40	424.75
40-50	243.67
50-60	142.76
60-70	92.50
70-80	39.79
80-90	8.08
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

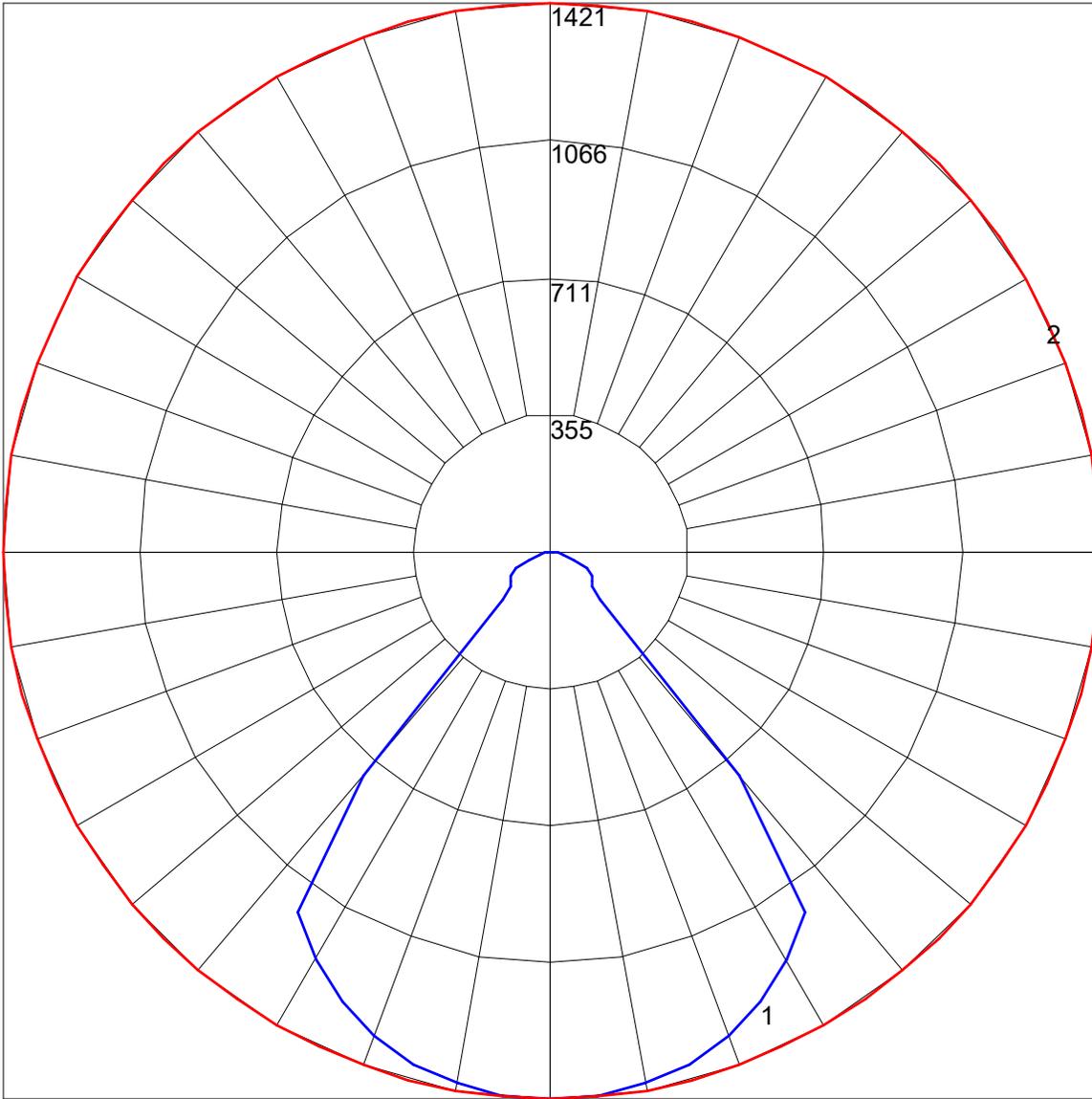
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90	
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72	
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65	
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	59	
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53	
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49	
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45	
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	
10	63	52	45	40	62	51	45	40	50	44	40	50	44	40	49	44	40	39	

POLAR GRAPH



Maximum Candela = 1421 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.)